

Open Source Used In Firepower-Snort3-RM 3.1.7.1

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Text Part Number: 78EE117C99-1182659394

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1.593 wagon-http-shared4 2.4

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1.1679 section-matter 1.0.0

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1.1680 ret 0.1.15

1.1680.1 Available under license

1.1681 delayed-stream 1.0.0

1.1681.1 Available under license

1.1682 schema-utils 0.4.7

1.1682.1 Available under license

1.1683 importlib-metadata 3.4.0

1.1683.1 Available under license

1.1684 commander 2.20.3

1.1684.1 Available under license

1.1685 better-queue-memory 1.0.4

1.1685.1 Available under license

1.1686 getpass 0.1.7

1.1686.1 Available under license

1.1687 are-we-there-yet 1.1.4

1.1687.1 Available under license

1.1688 minimalistic-assert 1.0.1

1.1688.1 Available under license

1.1689 xtend 4.0.2

1.1689.1 Available under license

1.1690 netlink 1.1.0

1.1690.1 Available under license

1.1691 mime-db 1.43.0

1.1691.1 Available under license

1.1692 to-regex 3.0.2

1.1692.1 Available under license

1.1693 es-abstract 1.12.0

1.1693.1 Available under license

1.1694 hapi-joi 15.1.1

1.1694.1 Available under license

1.1695 stream-shift 1.0.1

1.1695.1 Available under license

1.1696 media-typer 0.3.0

1.1696.1 Available under license

1.1697 fast-levenshtein 2.0.6

1.1697.1 Available under license

1.1698 pam 1.5.1

1.1698.1 Available under license

1.1699 promise 2.1.0

1.1699.1 Available under license

1.1700 jsonschema 3.2.0

1.1700.1 Available under license

1.1701 lodash-root 3.0.1

1.1701.1 Available under license

1.1702 gatsby-plugin-react-helmet 3.1.18

1.1702.1 Available under license

1.1703 gatsby-page-utils 0.0.36

1.1703.1 Available under license

1.1704 object-inspect 1.7.0

1.1704.1 Available under license

1.1705 lodash-without 4.4.0

1.1705.1 Available under license

1.1706 resolve 1.14.1

1.1706.1 Available under license

1.1707 color 3.1.2

1.1707.1 Available under license

1.1708 pika 1.2.0

1.1708.1 Available under license

1.1709 js-yaml 3.13.1

1.1709.1 Available under license

1.1710 mime-db 1.35.0

1.1710.1 Available under license

1.1711 pump 2.0.1

1.1711.1 Available under license
1.1712 update-notifier 2.5.0
1.1712.1 Available under license

1.1 libjpeg 6b

1.1.1 Notifications :

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1.1.2 Available under license :

The Independent JPEG Group's JPEG software
==========

README for release 6b of 27-Mar-1998
==========

This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

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

This file contains the following sections:

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

Other documentation files in the distribution are:

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

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

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

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.
 JPEG is intended for compressing
"real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not 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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============

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that you must include source code if you redistribute it. (See the file
ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part
of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltconfig, ltmain.sh). Another support script, install-sh, is copyright

by M.I.T. but is also freely distributable.

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

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

We are required to state that

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REFERENCES
==========

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

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

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides

good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The 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/.
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

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

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

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

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

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

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read.
(For example, none
of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

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

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical

advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether
SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

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

TO DO
=====

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

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

As always, speeding things up is of great interest.

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

1.2 xinetd 2.3.15

1.2.1 Available under license :

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1.3 libdnet 1.12

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 6/2/93
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1.4 zip 3.0

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1.5 unzip 6.0

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FIRST NOTE:
This file contains some details about the copyright history of
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the system specific ports.
Please read LICENSE first to find out what is allowed to do with
Info-ZIP's UnZip code.

- -

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

All remaining
code is now (starting with UnZip version 5.41) covered
by the new Info-ZIP license. For details, please read the acompaning
file LICENSE. The terms and conditions in this license supersede the
copyright conditions of the contributions by Igor Mandrichenko
(vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c),
Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket
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Frequently Asked Questions regarding (re)distribution of Zip and UnZip
are near the end of this file.

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

The original unzip source code has been extensively modified and
almost entirely rewritten (changes include random zipfile access
rather than sequential; replacement of unimplode() with explode();
replacement of old unshrink() with new (unrelated) unshrink(); re-
placement of output routines; addition of inflate(), wildcards,
filename-mapping, text translation, ...; etc.). As far as we can
tell, only the core code of the unreduce method remained substantially
similar to Mr. Smith's original source. As of UnZip
5.42, the complete
core code is now covered by the Info-ZIP Licence. Therefore, support
for the reduce method has been removed.
The drop of the reduce method should only affect some test archives,
reducing was never used in any publically distributed Zip program.
For pathologic cases where support for reduced archive entries is
needed, the unreduce code copyrighted by Samuel H. Smith is available
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The following copyright applies to the Mac OS File Manager interface code
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```
   * MoreFiles
   *
   * A collection of File Manager and related routines
   *
   * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
   * with significant code contributions by Nitin Ganatra
   * (Apple Macintosh Developer Technical Support Emeritus)
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   *
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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.
   * ---------------------------------------------------------------------
   * This source is copyrighted by Christopher Evans (cevans@poppybank.com)
   * (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
   * homepage of Leonard Rosenthol  leonardr@netcom.com)
```

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```
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```

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 contribu-
tions as useful as we have his.

Note that the third and fourth stipulations still apply to any com-
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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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The remaining code was written by many people associated with the
Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
others. See the file CONTRIBS in the source distribution for a much
more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.6 apr-util 1.6.1

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* --
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1.7 libmnl 1.0.4

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1.8 lzo 2.10

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1.9 open-ldap 2.4.46

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1.10 libtool 2.4.6

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1.14 diffutils 3.7

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1.15 apache-http-server 2.4.39

1.16 patch 2.7.6

1.17 kerberos 1.17

1.18 bzip2 1.0.8

1.19 dmidecode 3.5

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1.20 zlib 1.2.7

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1.21 sbsigntool 1.3

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1.22 sharutils 4.15

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Corresponding Source in the same
way through the same place at no
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1.23 libdaemon 0.14

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

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

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users of those programs of all benefit from the free status of the
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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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between a
"work based on the library" and a "work that uses the library". The
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Note that it is possible for a library to be covered by the ordinary
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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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(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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derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
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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
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source code from the same place satisfies the requirement to
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5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative

work of the Library, and
therefore falls outside the scope of this License.

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

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

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

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

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

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a 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

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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.

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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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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

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b) Give prominent notice with the combined library of the fact
that part of it is a work based
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1.31 m4 1.4.18

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

have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand
ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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

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1. Source Code.

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

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

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medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
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alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
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1.36 p7zip 16.02

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1.41 libunwind 1.2-rc1

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

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I would like to thank the following people (in alphabetical order):

- Seth Arnold, for contributing to the documentation.
- Daniel Black, (former) maintainer of the Gentoo GNU/Linux BeeCrypt package.
- Jan-Rudolph Bhrmann, for helping me get started on the 64-bit multi-
precision integer library.
- Luca Filipozzi, (former) maintainer/packager of BeeCrypt for Debian GNU/Linux.
- Jeff Johnson, the guy behind RedHat's Package Manager, who has inspired
and contributed to many of the changes for version 3.0.0. He also provided
the new hash functions for version 4.2.0. 73 de Bob.
- Anibal Monsalve Salazar, (current) maintainer/packager of BeeCrypt for
Debian GNU/Linux.
- Jon Sturgeon, bug hunter extraordinaire.

Further thanks go to:
- AMD, for donating a copy of "AMD x86-64 Architecture Programmer's Manual".
- ARM Ltd, for donating a copy of "ARM Architecture Reference Manual".
- HP/Compaq, for their testdrive program, which gave me the opportunity to
test and BeeCrypt on many new
platforms.
- FSF France, for providing me with access to the GCC Compile Farm.
- SourceForge, for their excellent open source development platform.

Last but not least: thanks to everyone who provided bits of information,
reported bugs, provided feedback, or works on including BeeCrypt in any
other distros.

If I've missed anyone, it's due to oversight. Drop me a line and I'll
rectify the situation as quickly as possible.

1.44 lm-sensors 3.4.0

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1.46 dhcp 4.4.1

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

Author: Julio Merino <jmmv@users.sourceforge.net>

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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<!-- $Id$ -->

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

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

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

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

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

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
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1.47 bridgeutils 1.6

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1.48 ncurses 6.2

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1.50 cpio 2.13

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1.52 xz 5.2.5

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1.59 sed 4.8

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1.63 cracklib 2.9.5

1.63.1 Available under license :

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Version 2.1, February 1999

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

Otherwise, if the work is a derivative of the Library, you may distribute
the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan
wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel]
cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
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> > released under. This wasn't actually a license change, just a
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>=20
> the original license (before moving to sourceforge -- aka, 2.7) was
> not

> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
>=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library
to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

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

I am sympathetic. Guys, what do you reckon?

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

-a

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

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

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

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

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine

> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using
the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October
2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

From
 alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
 [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)

In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
585
Lines: 21

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

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

Happy now? :-)

-a

1.64 libnl3 3.5.0

1.64.1 Available under license :

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Version 2.1, February 1999

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the free library to free
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threshold for this to be true is not precisely defined by law.

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

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1.70 kmod 25+git0+aca4eca103

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Version 4 and are acknowledged as authors of this
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 2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock
    controller
 3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line
    and PCI-bus devices
 4. [4]Viraj Bais <vbais@mailman1.intel.com> and [5]Clayton Kirkwood
    <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
 5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
 6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
 7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT
    port. Clean up recvbuf and iosignal code into separate modules.
 8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
 9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver,
    Trimble PARSE support

10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features

in sntp

11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
16. [17]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
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clock driver

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25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
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27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
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35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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38. [41]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
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42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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

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1.79 newt 0.52.21

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1.80 cairo 1.16.0

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. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

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

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

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

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

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

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

Macro Packages

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

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

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

Hyphenation Patterns

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

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

It has been renamed for consistency, i.e., to make patterns available
under the filenames `hyphen.<language>', e.g. `hyphen.de' or
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. The file `tmac/hyphen.fr' contains the
same patterns as the file
`frhyph.tex' (for TeX), which can be found at

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

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. The file `tmac/hyphen.cs' contains the same patterns as the file
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-*- text -*-
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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

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

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

application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy
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library". The executable is therefore covered by this License.
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When a "work that uses the Library" uses material from a header file
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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
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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 combine or
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate
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the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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1.83 json-c 0.15

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1.84 brotli 1.0.9

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1.86 flex 2.6.4

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Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

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

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c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on

the Program is not required to print an announcement.)

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

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

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

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

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

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

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

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any

associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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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`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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1.91 gettext 0.21

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To protect your rights, we need to make restrictions that forbid
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 For example, if you distribute copies of the library, whether gratis
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 When a program is linked with a library, whether statically or using
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 We call this license the @dfn{Lesser} General Public License because it

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For example, on rare occasions, there may be a special need to
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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
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free software. For example, permission to use the GNU C Library in
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operating system, as well as its variant, the GNU/Linux operating
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Although the Lesser General Public License is Less protective of the
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linked with the Library has the freedom and the wherewithal to run
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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, 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
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(which use some of those functions and data) to form executables.

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

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

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

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You may copy and distribute
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@enumerate a
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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
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License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
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This option is useful when you wish to copy part of the code of
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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
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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
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which the executable runs, unless that component itself accompanies the
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It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
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permitted, and provided that you do these two things:

@enumerate a
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 uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

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

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

Otherwise, if the work is a derivative of the Library, you may distribute
the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
^L
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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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1.96 inotify-tools 3.20.11.0

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Commands to generate dependency files

```
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

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

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

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

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



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

%.d: $(srcdir)/%.cpp
```

```
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

##  Bind internal references

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

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

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

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1.101 hyperscan 4.7.0

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1.102 libusb 1.0.24

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1.103 kmod 28

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

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////

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

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

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

It's also possible to only enable support for `mp_list` by
including `<boost/mp11/mpl_list.hpp>`, and for `std::tuple`
by including `<boost/mp11/mpl_tuple.hpp>`. This may be required
because some libraries, such as Boost.Fusion, contain their own MPL
support for `std::tuple`, which conflicts with Mp11's one.
<!DOCTYPE html>
<html>
 <head></head>
 <body>
  <h3>
   Copyright Test
  </h3>

   1963, 1964, 1965 Jane Doe

   2018 Joe Blow, John Coe

   1977, 1985 Someone else

 </body>
</html>
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```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
 <title>Copyright Test</title>
 <articleinfo>
  <copyright>
   <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
  </copyright>
  <copyright>
   <year>2018</year> <holder>Joe Blow, John Coe</holder>
  </copyright>
  <copyright>
   <year>1977</year> <year>1985</year> <holder>Someone else</holder>
  </copyright>
 </articleinfo>
</article>
```

```
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1.117 slang 2.3.2

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1.119 base-passwd 3.5.3

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1.120 lcms 2.12

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1.122 libseccomp 2.5.1

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1.123 rng-tools 6.11

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1.125 gawk 5.1.0

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

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

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

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

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

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

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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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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use both them and the Library together in an executable that you
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END OF TERMS AND CONDITIONS

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<signature of Ty Coon>, 1 April 1990
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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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The 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.

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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

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

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

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

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

@item
You may copy and distribute
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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.

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

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

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

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

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

its purpose remains meaningful.

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

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

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

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

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

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

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

the Library into a program that is not a library.

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

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

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

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

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

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

 Otherwise,
 if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.

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

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

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

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

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

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

than the cost of performing this distribution.

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

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

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

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

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

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

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

@end enumerate

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You may not copy, modify, sublicense, link with, or distribute
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particular circumstance, the balance of the section is intended to apply,

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be a consequence of the rest of this License.

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

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

@smallexample
@var{one line to give the library's name and an idea of what it does.}
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You should have received a copy of the GNU Lesser General Public
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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:

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

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

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

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

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

When we speak of free software, we are referring to freedom of use,
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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,
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or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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

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

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

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

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

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

of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary
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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

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1.133 grep 3.6

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you believe you should be listed, please send a note to sudo@sudo.ws.

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

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

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

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

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

Albuquerque, Pedro
Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe

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

The following people designed the artwork used on the sudo website:

Shield logo: Badger, Trent
Sandwich logo: Stillman, Mark

1.135 pcre 8.44

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: Philip.Hazel
Email domain: gmail.com

University of Cambridge Computing Service,
Cambridge,
England.

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1.136 libproxy 0.4.17

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1.139 audit 3.0.1

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1.141 talloc 2.1.14

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Provides the "_test_pytalloc" Python module.

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1.142 iproute 5.11.0

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

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

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

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

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

special circumstances.

For example, on rare occasions, there may be a special need to encourage
the widest possible use of a certain library, so that it becomes a
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to use the library. A more frequent case is that a free library does
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is little to gain by limiting the free library to free software only,
so we use the Lesser General Public License.

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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
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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
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be combined with the library in order to run.

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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
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portion of it, either verbatim or with modifications and/or translated
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"Source code" for a work means the preferred
form of the work for
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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
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themselves,
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to the entire whole, and thus to each and every part regardless of
who wrote it.

Thus, it is not the intent of this section to claim rights or contest
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to exercise the right to control the distribution of derivative or
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In addition, mere aggregation of another work not based on the Library
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This option is useful when you wish to copy part of the code of the
Library into a program that is not a library.

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work

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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
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materials or that you have already sent this user a copy.

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

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components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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It may happen that this requirement contradicts the license
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Ty Coon, President of Vice

That's all there is to it!
This is the Debian packaged version of strace. For a complete list of
changes from the upstream version please see the changelog.

The upstream sources can be found at https://github.com/strace/strace/

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

in accord with Subsection b above.)

The source code for a work means the preferred form of the work
for making modifications to it. For an executable work, complete
source code means all the source code for all modules it contains,
plus any associated interface definition files, plus the scripts used
to control compilation and installation of the executable. However,
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1.144 sqlite 3.35.0

1.144.1 Available under license :

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```
/*
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest.  This code was
* written by Colin Plumb in 1993, no copyright is claimed.
* This code is in the public domain; do with it what you wish.
*
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/
```

Found in path(s):
* /sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/src/md5.c
No license file was found, but licenses were detected in source scan.

```
# 2001 September 15
#
# The author disclaims copyright to this source code.  In place of
# a legal notice, here is a blessing:
#
#    May you do good and not evil.
#    May you find forgiveness for yourself and forgive others.
#    May you share freely, never taking more than you give.
#
#***********************************************************************
# This file implements regression tests for SQLite library.  The
# focus of this file is testing built-in functions.
```

```
#
# $Id: func.test,v 1.16.2.2 2004/07/18 21:14:05 drh Exp $

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

# Create a table to work with.
#
do_test func-0.0 {
 execsql {CREATE TABLE tbl1(t1 text)}
 foreach word {this program is free software} {
   execsql "INSERT INTO tbl1 VALUES('$word')"
 }
 execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} {free is program software this}
do_test func-0.1 {
 execsql {
    CREATE TABLE t2(a);

   INSERT INTO t2 VALUES(1);
    INSERT INTO t2 VALUES(NULL);
    INSERT INTO t2 VALUES(345);
    INSERT INTO t2 VALUES(NULL);
    INSERT INTO t2 VALUES(67890);
    SELECT * FROM t2;
 }
} {1 {} 345 {} 67890}

# Check out the length() function
#
do_test func-1.0 {
 execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {4 2 7 8 4}
do_test func-1.1 {
 set r [catch {execsql {SELECT length(*) FROM tbl1 ORDER BY t1}} msg]
 lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.2 {
 set r [catch {execsql {SELECT length(t1,5) FROM tbl1 ORDER BY t1}} msg]
 lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.3 {
 execsql {SELECT length(t1), count(*) FROM tbl1 GROUP BY length(t1)
         ORDER BY length(t1)}
} {2 1 4 2 7 1 8 1}
do_test func-1.4 {
 execsql {SELECT coalesce(length(a),-1) FROM t2}
} {1 -1 3 -1 5}
```

```
# Check out the substr() function
#
do_test func-2.0 {
 execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
}
 {fr is pr so th}
do_test func-2.1 {
 execsql {SELECT substr(t1,2,1) FROM tbl1 ORDER BY t1}
} {r s r o h}
do_test func-2.2 {
 execsql {SELECT substr(t1,3,3) FROM tbl1 ORDER BY t1}
} {ee {} ogr ftw is}
do_test func-2.3 {
 execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.4 {
 execsql {SELECT substr(t1,-1,2) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.5 {
 execsql {SELECT substr(t1,-2,1) FROM tbl1 ORDER BY t1}
} {e i a r i}
do_test func-2.6 {
 execsql {SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1}
} {ee is am re is}
do_test func-2.7 {
 execsql {SELECT substr(t1,-4,2) FROM tbl1 ORDER BY t1}
} {fr {} gr wa th}
do_test func-2.8 {
 execsql {SELECT t1 FROM tbl1 ORDER BY substr(t1,2,20)}
} {this software free program is}
do_test func-2.9 {
 execsql {SELECT substr(a,1,1) FROM t2}
} {1 {} 3 {} 6}
do_test func-2.10 {
 execsql {SELECT substr(a,2,2) FROM t2}
} {{} {} 45 {} 78}

# Only do the following tests if TCL has UTF-8 capabilities and
# the
 UTF-8 encoding is turned on in the SQLite library.
#
if {[sqlite -encoding]=="UTF-8" && "\u1234"!="u1234"} {

# Put some UTF-8 characters in the database
#
do_test func-3.0 {
 execsql {DELETE FROM tbl1}
```

```
 foreach word "contains UTF-8 characters hi\u1234ho" {
   execsql "INSERT INTO tbl1 VALUES('$word')"
 }
 execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} "UTF-8 characters contains hi\u1234ho"
do_test func-3.1 {
 execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {5 10 8 5}
do_test func-3.2 {
 execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {UT ch co hi}
do_test func-3.3 {
 execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1}
} "UTF cha con hi\u1234"
do_test func-3.4 {
 execsql {SELECT substr(t1,2,2) FROM tbl1 ORDER BY t1}
} "TF ha on i\u1234"
do_test func-3.5 {
 execsql {SELECT substr(t1,2,3) FROM tbl1 ORDER BY t1}
} "TF- har ont i\u1234h"
do_test func-3.6 {
 execsql {SELECT substr(t1,3,2) FROM tbl1 ORDER BY t1}
} "F- ar nt \u1234h"
do_test func-3.7 {
 execsql {SELECT
 substr(t1,4,2) FROM tbl1 ORDER BY t1}
} "-8 ra ta ho"
do_test func-3.8 {
 execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} "8 s s o"
do_test func-3.9 {
 execsql {SELECT substr(t1,-3,2) FROM tbl1 ORDER BY t1}
} "F- er in \u1234h"
do_test func-3.10 {
 execsql {SELECT substr(t1,-4,3) FROM tbl1 ORDER BY t1}
} "TF- ter ain i\u1234h"
do_test func-3.99 {
 execsql {DELETE FROM tbl1}
 foreach word {this program is free software} {
   execsql "INSERT INTO tbl1 VALUES('$word')"
 }
 execsql {SELECT t1 FROM tbl1}
} {this program is free software}

} ;# End [sqlite -encoding]==UTF-8 and \u1234!=u1234

# Test the abs() and round() functions.
#
```

```
do_test func-4.1 {
 execsql {
   CREATE TABLE t1(a,b,c);
   INSERT INTO t1 VALUES(1,2,3);
   INSERT INTO t1 VALUES(2,1.2345678901234,-12345.67890);
   INSERT INTO t1 VALUES(3,-2,-5);
 }
 catchsql {SELECT abs(a,b) FROM t1}
} {1 {wrong number of arguments to function abs()}}
do_test func-4.2 {
 catchsql {SELECT abs() FROM t1}
} {1 {wrong number
 of arguments to function abs()}}
do_test func-4.3 {
 catchsql {SELECT abs(b) FROM t1 ORDER BY a}
} {0 {2 1.2345678901234 2}}
do_test func-4.4 {
 catchsql {SELECT abs(c) FROM t1 ORDER BY a}
} {0 {3 12345.67890 5}}
do_test func-4.4.1 {
 execsql {SELECT abs(a) FROM t2}
} {1 {} 345 {} 67890}
do_test func-4.4.2 {
 execsql {SELECT abs(t1) FROM tbl1}
} {this program is free software}

do_test func-4.5 {
 catchsql {SELECT round(a,b,c) FROM t1}
} {1 {wrong number of arguments to function round()}}
do_test func-4.6 {
 catchsql {SELECT round(b,2) FROM t1 ORDER BY b}
} {0 {-2.00 1.23 2.00}}
do_test func-4.7 {
 catchsql {SELECT round(b,0) FROM t1 ORDER BY a}
} {0 {2 1 -2}}
do_test func-4.8 {
 catchsql {SELECT round(c) FROM t1 ORDER BY a}
} {0 {3 -12346 -5}}
do_test func-4.9 {
 catchsql {SELECT round(c,a) FROM t1 ORDER BY a}
} {0 {3.0 -12345.68 -5.000}}
do_test func-4.10 {
 catchsql {SELECT 'x' || round(c,a) || 'y' FROM t1 ORDER BY a}
} {0 {x3.0y x-12345.68y x-5.000y}}
do_test func-4.11
 {
 catchsql {SELECT round() FROM t1 ORDER BY a}
} {1 {wrong number of arguments to function round()}}
```

```
do_test func-4.12 {
 execsql {SELECT coalesce(round(a,2),'nil') FROM t2}
} {1.00 nil 345.00 nil 67890.00}
do_test func-4.13 {
 execsql {SELECT round(t1,2) FROM tbl1}
} {0.00 0.00 0.00 0.00 0.00}

# Test the upper() and lower() functions
#
do_test func-5.1 {
 execsql {SELECT upper(t1) FROM tbl1}
} {THIS PROGRAM IS FREE SOFTWARE}
do_test func-5.2 {
 execsql {SELECT lower(upper(t1)) FROM tbl1}
} {this program is free software}
do_test func-5.3 {
 execsql {SELECT upper(a), lower(a) FROM t2}
} {1 1 {} {} 345 345 {} {} 67890 67890}
do_test func-5.4 {
 catchsql {SELECT upper(a,5) FROM t2}
} {1 {wrong number of arguments to function upper()}}
do_test func-5.5 {
 catchsql {SELECT upper(*) FROM t2}
} {1 {wrong number of arguments to function upper()}}

# Test the coalesce() and nullif() functions
#
do_test func-6.1 {
 execsql {SELECT coalesce(a,'xyz') FROM t2}
} {1 xyz 345 xyz 67890}
do_test
 func-6.2 {
 execsql {SELECT coalesce(upper(a),'nil') FROM t2}
} {1 nil 345 nil 67890}
do_test func-6.3 {
 execsql {SELECT coalesce(nullif(1,1),'nil')}
} {nil}
do_test func-6.4 {
 execsql {SELECT coalesce(nullif(1,2),'nil')}
} {1}
do_test func-6.5 {
 execsql {SELECT coalesce(nullif(1,NULL),'nil')}
} {1}



# Test the last_insert_rowid() function
#
do_test func-7.1 {
```

```
 execsql {SELECT last_insert_rowid()}
} [db last_insert_rowid]

# Tests for aggregate functions and how they handle NULLs.
#
do_test func-8.1 {
 execsql {
   SELECT sum(a), count(a), round(avg(a),2), min(a), max(a), count(*) FROM t2;
 }
} {68236 3 22745.33 1 67890 5}
do_test func-8.2 {
 execsql {
   SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t2;
 }
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
do_test func-8.3 {
 execsql {
   CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
   SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
 }
} {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
do_test
 func-8.4 {
 execsql {
   SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
 }
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}

# How do you test the random() function in a meaningful, deterministic way?
#
do_test func-9.1 {
 execsql {
   SELECT random() is not null;
 }
} {1}

# Use the "sqlite_register_test_function" TCL command which is part of
# the text fixture in order to verify correct operation of some of
# the user-defined SQL function APIs that are not used by the built-in
# functions.
#
db close
set ::DB [sqlite db test.db]
sqlite_register_test_function $::DB testfunc
do_test func-10.1 {
 catchsql {
   SELECT testfunc(NULL,NULL);
 }
```

```
} {1 {first argument to test function may not be NULL}}
do_test func-10.2 {
 execsql {
   SELECT testfunc(
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'int', 1234
   );
 }
} {1234}
do_test func-10.3 {
 execsql {
   SELECT
 testfunc(
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'string', NULL
   );
 }
} {{}}
do_test func-10.4 {
 execsql {
   SELECT testfunc(
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'double', 1.234
   );
 }
} {1.234}
do_test func-10.5 {
 execsql {
   SELECT testfunc(
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'int', 1234,
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'string', NULL,
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'double', 1.234,
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'int', 1234,
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'string', NULL,
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'double', 1.234
   );
 }
} {1.234}

# Test the built-in sqlite_version(*) SQL function.
#
do_test func-11.1 {
```

```
 execsql {

   SELECT sqlite_version(*);
 }
} [sqlite -version]

finish_test
```

Found in path(s):
* /sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/test/func.test
No license file was found, but licenses were detected in source scan.

/sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/art/SQLite.eps: binary file matches

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

```
%define name sqlite
%define version SQLITE_VERSION
%define release 1

Name: %{name}
Summary: SQLite is a C library that implements an embeddable SQL database engine
Version: %{version}
Release: %{release}
Source: %{name}-%{version}.tar.gz
Group: System/Libraries
URL: http://www.hwaci.com/sw/sqlite/
License: Public Domain
BuildRoot: %{_tmppath}/%{name}-%{version}-root

%description
SQLite is a C library that implements an embeddable SQL database engine.
Programs that link with the SQLite library can have SQL database access
without running a separate RDBMS process. The distribution comes with a
standalone command-line access program (sqlite) that can be used to
administer an SQLite database and which serves as an example of how to
use the SQLite library.

%package -n %{name}-devel
Summary: Header files and libraries for developing apps which will use sqlite
Group: Development/C
Requires: %{name} = %{version}-%{release}

%description
 -n %{name}-devel
The sqlite-devel package contains the header files and libraries needed
```

to develop programs that use the sqlite database library.

%prep
%setup -q -n %{name}

%build
CFLAGS="%optflags -DNDEBUG=1" CXXFLAGS="%optflags -DNDEBUG=1" ./configure --prefix=%{_prefix}

make
make doc

%install
install -d $RPM_BUILD_ROOT/%{_prefix}
install -d $RPM_BUILD_ROOT/%{_prefix}/bin
install -d $RPM_BUILD_ROOT/%{_prefix}/include
install -d $RPM_BUILD_ROOT/%{_prefix}/lib
make install prefix=$RPM_BUILD_ROOT/%{_prefix}

%clean
rm -fr $RPM_BUILD_ROOT

%files
%defattr(-, root, root)
%{_libdir}/*.so*
%{_bindir}/*

%files -n %{name}-devel
%defattr(-, root, root)
%{_libdir}/pkgconfig/sqlite.pc
%{_libdir}/*.a
%{_libdir}/*.la
%{_includedir}/*
%doc doc/*

Found in path(s):
* /sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/spec.template
No license file was found, but licenses were detected in source scan.

/*
** The "printf" code that follows dates from the 1980's. It is in
** the public domain. The original comments are included here for
** completeness. They are very out-of-date but might be useful as
** an historical reference. Most of the "enhancements" have been backed
** out so that the functionality is now the same as standard printf().
**
****
**
** The following modules is an enhanced replacement for the "printf" subroutines

```
** found in the standard C library.  The following enhancements are
** supported:
**
**     +  Additional functions.  The standard set of "printf" functions
**        includes printf, fprintf, sprintf, vprintf, vfprintf, and
**        vsprintf.  This module adds the following:
**
**          *  snprintf -- Works like sprintf, but has an extra argument
**                         which is the size of the buffer written
 to.
**
**          *  mprintf --  Similar to sprintf.  Writes output to memory
**                         obtained from malloc.
**
**          *  xprintf --  Calls a function to dispose of output.
**
**          *  nprintf --  No output, but returns the number of characters
**                         that would have been output by printf.
**
**          *  A v- version (ex: vsnprintf) of every function is also
**             supplied.
**
**     +  A few extensions to the formatting notation are supported:
**
**          *  The "=" flag (similar to "-") causes the output to be
**             be centered in the appropriately sized field.
**
**          *  The %b field outputs an integer in binary notation.
**
**          *  The %c field now accepts a precision.  The character output
**             is repeated by the number of times the precision specifies.
**
**          *  The %' field works like %c, but takes as its character the
**             next character of the
 format string, instead of the next
**             argument.  For example,  printf("%.78'-")  prints 78 minus
**             signs, the same as  printf("%.78c",'-').
**
**     +  When compiled using GCC on a SPARC, this version of printf is
**        faster than the library printf for SUN OS 4.1.
**
**     +  All functions are fully reentrant.
**
*/
```

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/* The IncrKey opcode is only applied to keys generated by
 ** MakeKey or MakeIdxKey and the results of those operands
 ** are always dynamic strings or zShort[] strings. So we
 ** are always free to modify the string in place.
 */

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1.145 breakpad 1.0

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1.151 fdisk 2.36.2

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NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M
7zXZF!t/5]oK3&K6Y^
CP#vMOoYL?6]2z({CLYj0
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RsTk!]r!Quo1OE|FfP+A}XBT9 \<
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g\BI'W|j>jf_{JPp]oMd3rfQ+}_3<%<6jx{)11D5eg;NtD+~R]w[xiue@F#Em0hu;,,x{R7V2!Vq~AG{EX -
"0h*5x)*x\n)#l$*w!:499X1il:"P+=22cmr3J}/0o9nlB?\N&(q=$pPc!ab,6f&v/RS>O./OW[INy(BM~]~uf$Ng|"_W[0;
OXy[aB*"/_U~fQHO(3[b%o)+lq#+_d<QdLd=$1p!h0h6nfN=I+GNRk gKOL3\N3"uGxflC
zCTJtjSN:$gE11QQ$7*5++V=4Xt9V?r3_Vd2o8h"F8~qM,ZI6=Qgtw|11np#_(+?}zp(;H!E2Nz'WW_WmA,
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BS=)d ;*l;._>KfB}&ea)F~H#@|DExb
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;*l;._>KfBqxY(F|0.Ve%S61opMG`'\YfRXx+sS|11np#_(~*'uM%S61opMG`'\YfRXvY[R+t[BS=)d
;*l;._>KfBqxY(F|0.Ve%S61opMG`'\YfRXvY[R+t[BS=)d ;*l;._>KfBqxY(F|0.Ve%Q?f_{+T@Uo)2fgYZ

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1.152 screen 4.8.0

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1.153 binutils 2.36.1

1.153.1 Available under license :

(This file is under construction.)   -*- text -*-

If you've contributed to gas and your name isn't listed here, it is
not meant as a slight. I just don't know about it. Email me,
nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into
the documentation, and info on specific files will go into an AUTHORS
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++++++++++++++++

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many
small
bug fixes and configuration enhancements.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

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

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

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

copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without
limitation in the term "modification".)

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish
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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

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

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

d) If a facility in the modified

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

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

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

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
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In addition, mere aggregation of another work not based on the Library
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Once this change is made in a given copy, it is irreversible for

that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

d) If distribution of the work is made by offering access to copy

from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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

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

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

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and a pointer to where the full notice is found.

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

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

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

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source

code. If you link a program with the library, you must provide
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 Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal
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 Also, for each distributor's protection, we want to make certain
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want its recipients to know that what they have is not the original
version, so that any problems introduced by others will not reflect on
the original authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that companies distributing free
software will individually obtain patent licenses, thus in effect
transforming the program into proprietary software. To prevent this,
we have made it clear that any patent must be licensed
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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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"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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of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

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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 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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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.

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from a designated place, offer equivalent access to copy the above
specified materials from the same place.

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the source code distributed need not include anything that is normally
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components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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7. You may place library facilities that are a work based on the

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1.154 swig 3.0.12

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

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c'
should show the appropriate
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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
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James Michael DuPont, Clark McGrew, Dustin Mitchell, Ian Cooke, Catalin Dumitrescu, Baran Kovuk, Oleg Tolmatcev, Tal Shalif, Lluis Padro, Chris Seatory, Igor Bely, Robin Dunn, Edward Zimmermann, David Ascher, Dominique Dumont, Pier Giorgio Esposito, Hasan Baran Kovuk, Klaus Wiedernders, Richard Beare, Hans Oesterholt.
(See CHANGES and CHANGES.current and the bug tracker for a more complete list).

Past students:
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Jing Cao (Chicago).
Aquinas Hobor (Chicago).

Historically, the following people contributed to early versions of SWIG.
Peter Lomdahl, Brad Holian, Shujia Zhou, Niels Jensen, and Tim Germann at
Los Alamos National Laboratory were the first users. Patrick Tullmann at the University of Utah suggested the idea of automatic documentation generation. John Schmidt and Kurtis Bleeker at the University of Utah tested out the early versions. Chris Johnson supported SWIG's developed at the University of Utah. John Buckman, Larry Virden, and Tom Schwaller provided valuable input on the first releases and improving the portability of SWIG. David Fletcher and Gary Holt have provided a great deal of input on improving SWIG's Perl5 implementation. Kevin Butler contributed the first Windows NT port.

Early bug reports and patches:
Adam Hupp, Arthur Smyles, Brad Clements, Brett Williams, Buck Hodges, Burkhard Kloss, Chia-Liang Kao, Craig Files, Dennis Marsa, Dieter Baron, Drake Diedrich, Fleur Diana Dragan, Gary Pennington, Geoffrey Hort, Gerald Williams, Greg Anderson, Greg Kochanski, Greg Troxel, Henry Rowley, Irina Kotlova, Israel Taller, James Bailey, Jim Fulton, Joel Reed, Jon Travis,

Junio
Hamano, Justin Heyes-Jones, Karl Forner, Keith Davidson,
Krzysztof Kozminski, Larry Virden, Luke J Crook, Magnus Ljung, Marc Zonzon,
Mark Howson, Micahel Scharf, Michel Sanner, Mike Romberg, Mike Simons,
Mike Weiblen, Paul Brannan, Ram Bhamidipaty, Reinhard Fobbe, Rich Wales,
Richard Salz, Roy Lecates, Rudy Albachten, Scott Drummonds
Scott Michel, Shaun Lowry, Steve Galser, Tarn Weisner Burton,
Thomas Weidner, Tony Seward, Uwe Steinmann, Vadim Chugunov, Wyss Clemens,
Zhong Ren.

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Version 3, 29 June 2007

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1.157 json-c 0.99.9

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1.158 lighttpd 1.4.59

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1.159 rsyslog 8.2102.0

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1.164 mtd-utils 2.1.2

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

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

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

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

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

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

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

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

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

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

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

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

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

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.

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END OF TERMS AND CONDITIONS

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Version 3, 29 June 2007

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

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

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium

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

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

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

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

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Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

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

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

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

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

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

The license for the library files in this project
was therefore changed to
LGPLv2.1 on May 13, 2009, as detailed in LICENSE.
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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

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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* Regular
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Subsequently modified by:

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1993 Christopher Seiwald seiwald@vix.com
2000, 2002 Christopher Seiwald <seiwald@perforce.com>
2010 Steve Bennett <steveb@workware.net.au>
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1.179 libsolv 0.7.17

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1.180 glib 2.66.7

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End

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1.181 libassuan 2.5.4

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

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

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

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

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

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

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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
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distributed (in either source or binary form) with the major
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which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
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1.184 pango 1.48.2

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1.185 dtc 1.6.0

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1.186 keyutils 1.6.1

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1.188 ifupdown 0.8.36

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1.189 libaio 0.3.112

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

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1.190 libpwquality 1.4.4

1.190.1 Available under license :

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

```
/*
* pw.c
*
* AAA password routines, adopted from IOX
*
* January 2005, Naiming Shen
* July 2005, Craig MacFarlane
*
* Copyright (c) 2005, 2007, 2010, 2014-2015, 2018 by cisco Systems, Inc.
* All rights reserved.
*
*------------------------------------------------------------------
* pw.c -- password encryption/decryption routines
*
* May 08 2000, Mark Eklund
*
* Copyright (c) 2002-2005, 2007, 2010, 2014-2015, 2018 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/
```

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* /pw-tar/pw/src/pw.c
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```
/*
* pw_defs.h
*
* Password defines.
*
* July 2005, Craig MacFarlane
*
* Copyright (c) 2005, 2007, 2010, 2014, 2018-2019 by cisco Systems, Inc.
* All rights reserved.
*
*/
```

Found in path(s):
* /pw-tar/pw/include/pw_defs.h
No license file was found, but licenses were detected in source scan.

/*
* pw.h
*
* Password routines, adopted from IOX
*
* May 2000 Mark Eklund
* July 2005, Craig MacFarlane
*
* Copyright (c) 2000-2005, 2007, 2010, 2014, 2018 by cisco Systems, Inc.
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*/
/*
* edt: * pw_type_t
*   Possible formats of saving the password in SysDB.
*
* item: PW_TYPE_CLEAR
*   The password in the clear, visible for anybody.
*
* item: PW_TYPE_1WAY
*   The password encrypted to an MD5 digest. This is not reversible.
*
* item: PW_TYPE_1WAY_2
*   The password encrypted to an sha256 digest. This is not reversible.
*
* item: PW_TYPE_2WAY
*   The Cisco type 7 password encryption. This is reversible
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*/

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* /pw-tar/pw/include/pw.h
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* /pw-tar/pw/Makefile.binos
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/*
* pw_const.tph
*
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```
*/

@DIRECTIVES{
  auto_import_stg = false;
  skip_auto_tdl_include = true;
}@

@IMPORT_STG{
  import "constant_gen.stg";
}@

@TDL{
  import "pw_const.tdl"
}@

@CODE{

#ifndef __TDLC_GEN_PW_CONST_H__
#define __TDLC_GEN_PW_CONST_H__

  $constant_generate()$

#endif /* __TDLC_GEN_PW_CONST_H__ */

}@
```

Found in path(s):
* /pw-tar/pw/include/pw_const.tph

1.191 iw 5.9

1.191.1 Available under license :

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1.192 alsa-utils 1.2.4

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1.193 cavium-liquidio 3.1.2

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1.196 xdelta 3.1.0

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such linking only if the
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the free library to free
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Upstream-Name: libnsl
Upstream-Contact: Thorsten Kukuk <kukuk@thkukuk.de>
Source: https://github.com/thkukuk/libnsl

Files: debian/*
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Files: AUTHORS
configure.ac

config.h.in
libnsl.pc.in
Makefile.am
NEWS
README
src/Makefile.am
src/do_ypcall.c
src/internal.h
src/libnsl.map
src/nisplus/nis_error.c
src/taddr2host.c
src/taddr2ipstr.c
src/taddr2port.c
src/yp_first.c
src/yp_get_default_domain.c
src/yp_maplist.c
src/yp_master.c
src/yp_match.c
src/yp_next.c
src/yp_order.c
src/ypbinderr_string.c
src/yperr_string.c
src/ypprot_err.c

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Files: src/libc-lock.h
src/nisplus/nis_add.c
src/nisplus/nis_addmember.c
src/nisplus/nis_call.c
src/nisplus/nis_callback.c
src/nisplus/nis_checkpoint.c
src/nisplus/nis_clone_dir.c
src/nisplus/nis_clone_obj.c
src/nisplus/nis_clone_res.c
src/nisplus/nis_creategroup.c
src/nisplus/nis_defaults.c
src/nisplus/nis_destroygroup.c
src/nisplus/nis_domain_of.c
src/nisplus/nis_domain_of_r.c
src/nisplus/nis_file.c
src/nisplus/nis_findserv.c
src/nisplus/nis_free.c
src/nisplus/nis_getservlist.c
src/nisplus/nis_hash.c
src/nisplus/nis_intern.h
src/nisplus/nis_ismember.c
src/nisplus/nis_local_names.c

src/nisplus/nis_lookup.c
src/nisplus/nis_mkdir.c
src/nisplus/nis_modify.c
src/nisplus/nis_ping.c
src/nisplus/nis_print.c
src/nisplus/nis_print_group_entry.c
src/nisplus/nis_remove.c
src/nisplus/nis_removemember.c
src/nisplus/nis_rmdir.c
src/nisplus/nis_server.c
src/nisplus/nis_subr.c
src/nisplus/nis_table.c
src/nisplus/nis_util.c
src/nisplus/nis_verifygroup.c
src/nisplus/nis_xdr.c
src/nisplus/nis_xdr.h
src/rpcsvc/nislib.h
src/rpcsvc/ypclnt.h
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Files: src/rpcsvc/nis_callback.h
src/rpcsvc/nis_callback.x
src/rpcsvc/nis_object.x
src/rpcsvc/nis_tags.h
src/rpcsvc/nis.h
src/rpcsvc/nis.x
src/rpcsvc/yp.h
src/rpcsvc/yp.x
src/rpcsvc/yp_prot.h
src/rpcsvc/yppasswd.h
src/rpcsvc/yppasswd.x
src/rpcsvc/ypupd.h
src/yp_xdr.c
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    config.guess
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Files: configure
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Files: compile
    depcomp
    missing
    test-driver
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Files: install-sh
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Files: ltmain.sh
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Files: config.rpath
    m4/gettext.m4
    m4/host-cpu-c-abi.m4
    m4/iconv.m4
    m4/intlmacosx.m4
    m4/lib-ld.m4
    m4/lib-link.m4
    m4/lib-prefix.m4
    m4/libtool.m4
    m4/ltoptions.m4
    m4/ltsugar.m4
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po/Makefile.in.in
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po/boldquot.sed
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1.202 at 3.2.1

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<ig25@rz.uni-karlsruhe.de>, taken over and re-packaged first by Martin
Schulze <joey@debian.org> and then by Siggy Brentrup <bsb@winnegan.de>,
and then taken over by Ryan Murray <rmurray@debian.org>.

In August 2009 the upstream development and Debian packaging were taken over
by Ansgar Burchardt <ansgar@debian.org> and Cyril Brulebois <kibi@debian.org>.

In August 2015 the upstream development and Debian packaging were
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1.203 man-db 2.9.4

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1.205 gperftools 2.9.1

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THANKS

Thanks to Ericsson for funding this work, providing real-life use cases,
and testing.

Special thanks to Michel Dagenais and the
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1.213 libnss-mdns 0.14.1

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1.214 sg3-utils 1.45-1

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1.217 zlib 1.2.11

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The data format used by the zlib library is described by RFCs (Request for
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1.218 opencore-amr 0.1.5-1

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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*            combined, allow nicstar_free_rx_skb to be called to
*            recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
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*
* M. Welsh, 6 July 1996
*
*
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
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1.221 wireshark 3.4.11

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```
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* Wireshark - Network traffic analyzer
* By Gerald Combs <gerald@wireshark.org>
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*
```

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1.222 libatomic 10.3.0

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the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
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The current gcc-10 source package is taken from the SVN gcc-10-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,
library, and documentation as follows:

Language   Compiler package Library package   Documentation

Ada
          gnat-10   libgnat-10   gnat-10-doc
BRIG   gccbrig-10   libhsail-rt0

C gcc-10 gcc-10-doc
C++ g++-10 libstdc++6 libstdc++6-10-doc
D gdc-10
Fortran 95 gfortran-10 libgfortran5 gfortran-10-doc
Go gccgo-10 libgo0
Objective C gobjc-10 libobjc4
Objective C++ gobjc++-10
Modula-2 gm2-10 libgm2

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++		libstdc++6-10-dbg		libstdc++6-10-pic
D	libphobos-10-dev			

Additional packages include:

All languages:
libgcc1,
libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-10-base Base files common to all compilers
gcc-10-soft-float Software floating point (ARM only)
gcc-10-source The sources with patches

Ada:
libgnat-util10-dev, libgnat-util10 GNAT version library

C:
cpp-10, cpp-10-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can
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  gcc/emults.c, gcc/gbl-ctors.h, gcc/gcov-io.h, gcc/libgcov.c,
  gcc/tsystem.h, gcc/typeclass.h).
- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-10 Ada support library and libgnat-util10

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- Various config files in gcc/config/ used in runtime libraries.
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D:
gdc-10 GNU D Compiler
libphobos-10-dev D standard runtime library

The D source package is made up of the following components.

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The DMD Compiler implementation of the D programming language:
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The Phobos standard runtime library:
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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 combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the
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library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

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b) Convey the object code in, or embodied in, a physical product

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

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```
/******************************************************************************
*
* Module Name: aslsupport.l - Flex/lex scanner C support routines.
*              NOTE: Included into aslcompile.l, not compiled by itself.
*
*****************************************************************************/

/******************************************************************************
*
```

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```
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*
*****************************************************************************/

/* Configuration */

#define ASL_SPACES_PER_TAB      4

#define ASL_NORMAL_CHAR         0
#define ASL_ESCAPE_SEQUENCE     1
#define ASL_OCTAL_CONSTANT      2
#define ASL_HEX_CONSTANT        3


void
yyerror (char const *s)
{

 AcpiOsPrintf ("YYERROR: %s\n", s);
}


/*******************************************************************************
*
* FUNCTION:    AslParserCleanup
*
* Used to delete the current buffer
*
*****************************************************************************/

void
AslParserCleanup
 (
   void)
{

  yy_delete_buffer (YY_CURRENT_BUFFER);
}


/*******************************************************************************
*
* FUNCTION:    AslDoLineDirective
*
* PARAMETERS:  None. Uses input() to access current source code line
*
* RETURN:      Updates global line number and filename
*
```

```
* DESCRIPTION: Handle #line directives emitted by the preprocessor.
*
* The #line directive is emitted by the preprocesser, and is used to
* pass through line numbers from the original source code file to the
* preprocessor output file (.i). This allows any compiler-generated
* error messages to be displayed with the correct line number.
*
*****************************************************************************/

static void
AslDoLineDirective (
  void)
{
  int                 c;
  char                *Token;
  UINT32              LineNumber;
  char                *Filename;
  UINT32              i;

  AslGbl_HasIncludeFiles = TRUE;

  /* Eat the entire line that contains the #line directive */

  AslGbl_LineBufPtr = AslGbl_CurrentLineBuffer;

  while ((c = input()) != '\n' && c != EOF)
  {
     *AslGbl_LineBufPtr = (char) c;
     AslGbl_LineBufPtr++;
  }
  *AslGbl_LineBufPtr = 0;

  /* First argument is the actual line number */

  Token = strtok (AslGbl_CurrentLineBuffer, " ");
  if (!Token)
  {
     goto ResetAndExit;
  }

  /* First argument is the line number */

  LineNumber = (UINT32) UtDoConstant (Token);

  /* Emit the appropriate number of newlines */

  AslGbl_CurrentColumn = 0;
  if (LineNumber > AslGbl_CurrentLineNumber)
```

```
  {
     for (i = 0; i < (LineNumber - AslGbl_CurrentLineNumber); i++)
     {
        FlWriteFile (ASL_FILE_SOURCE_OUTPUT, "\n", 1);
        AslGbl_CurrentColumn++;
     }
  }

  FlSetLineNumber (LineNumber);

  /* Second argument is the optional filename (in double quotes) */

  Token
 = strtok (NULL, " \"");
  if (Token)
  {
     Filename = UtLocalCacheCalloc (strlen (Token) + 1);
     strcpy (Filename, Token);
     FlSetFilename (Filename);
  }

  /* Third argument is not supported at this time */

ResetAndExit:

  /* Reset globals for a new line */

  AslGbl_CurrentLineOffset += AslGbl_CurrentColumn;
  AslGbl_CurrentColumn = 0;
  AslGbl_LineBufPtr = AslGbl_CurrentLineBuffer;
}


/*******************************************************************************
*
* FUNCTION:    AslPopInputFileStack
*
* PARAMETERS:  None
*
* RETURN:      0 if a node was popped, -1 otherwise
*
* DESCRIPTION: Pop the top of the input file stack and point the parser to
*              the saved parse buffer contained in the fnode. Also, set the
*              global line counters to the saved values. This function is
*              called when an include file reaches EOF.
*
******************************************************************************/
```

```
int
AslPopInputFileStack
 (
   void)
{
   ASL_FILE_NODE           *Fnode;


   AslGbl_PreviousIncludeFilename = AslGbl_Files[ASL_FILE_INPUT].Filename;
   Fnode = AslGbl_IncludeFileStack;
   DbgPrint (ASL_PARSE_OUTPUT,
      "\nPop InputFile Stack, Fnode %p\n", Fnode);

   DbgPrint (ASL_PARSE_OUTPUT,
      "Include: Closing \"%s\"\n\n", AslGbl_Files[ASL_FILE_INPUT].Filename);

   if (!Fnode)
   {
      return (-1);
   }

   /* Close the current include file */

   fclose (yyin);

   /* Update the top-of-stack */

   AslGbl_IncludeFileStack = Fnode->Next;

   /* Reset global line counter and filename */

   AslGbl_Files[ASL_FILE_INPUT].Filename = Fnode->Filename;
   AslGbl_CurrentLineNumber = Fnode->CurrentLineNumber;

   /* Point the parser to the popped file */

   yy_delete_buffer (YY_CURRENT_BUFFER);
   yy_switch_to_buffer (Fnode->State);

   /* All done with this node */

   ACPI_FREE (Fnode);
   return (0);
}


/******************************************************************************
```

```
 *
* FUNCTION:    AslPushInputFileStack
*
* PARAMETERS:  InputFile           - Open file pointer
*              Filename            - Name of the file
*
* RETURN:      None
*
* DESCRIPTION: Push the InputFile onto the file stack, and point the parser
*              to this file. Called when an include file is successfully
*              opened.
*
*****************************************************************************/

void
AslPushInputFileStack (
  FILE                *InputFile,
  char                *Filename)
{
  ASL_FILE_NODE         *Fnode;
  YY_BUFFER_STATE       State;


  /* Save the current state in an Fnode */

  Fnode = UtLocalCalloc (sizeof (ASL_FILE_NODE));

  Fnode->File = yyin;
  Fnode->Next = AslGbl_IncludeFileStack;
  Fnode->State = YY_CURRENT_BUFFER;
  Fnode->Filename = AslGbl_Files[ASL_FILE_INPUT].Filename;
  Fnode->CurrentLineNumber = AslGbl_CurrentLineNumber;

  /* Push
 it on the stack */

  AslGbl_IncludeFileStack = Fnode;

  /* Point the parser to this file */

  State = yy_create_buffer (InputFile, YY_BUF_SIZE);
  yy_switch_to_buffer (State);

  DbgPrint (ASL_PARSE_OUTPUT,
     "\nPush InputFile Stack, returning %p\n\n", InputFile);

  /* Reset the global line count and filename */
```

```
  AslGbl_Files[ASL_FILE_INPUT].Filename =
     UtLocalCacheCalloc (strlen (Filename) + 1);

  strcpy (AslGbl_Files[ASL_FILE_INPUT].Filename, Filename);

  AslGbl_CurrentLineNumber = 1;
  yyin = InputFile;

  /* converter: reset the comment state to STANDARD_COMMENT */

  AslGbl_CommentState.CommentType = STANDARD_COMMENT;
}


/*******************************************************************************
*
* FUNCTION:    AslResetCurrentLineBuffer
*
* PARAMETERS:  None
*
* RETURN:      None
*
* DESCRIPTION: Reset the Line Buffer to zero, increment global line numbers.
*
*******************************************************************************/

void
AslResetCurrentLineBuffer
(
  void)
{

  if (AslGbl_Files[ASL_FILE_SOURCE_OUTPUT].Handle)
  {
     FlWriteFile (ASL_FILE_SOURCE_OUTPUT, AslGbl_CurrentLineBuffer,
        AslGbl_LineBufPtr - AslGbl_CurrentLineBuffer);
  }

  AslGbl_CurrentLineOffset += AslGbl_CurrentColumn;
  AslGbl_CurrentColumn = 0;

  AslGbl_CurrentLineNumber++;
  AslGbl_LogicalLineNumber++;
  AslGbl_LineBufPtr = AslGbl_CurrentLineBuffer;
}


/*******************************************************************************
```

```
*
* FUNCTION:    AslInsertLineBuffer
*
* PARAMETERS:  SourceChar          - One char from the input ASL source file
*
* RETURN:      None
*
* DESCRIPTION: Put one character of the source file into the temp line buffer
*
*****************************************************************************/

void
AslInsertLineBuffer (
  int                 SourceChar)
{
  UINT32              i;
  UINT32              Count = 1;


   if (SourceChar == EOF)
  {
     return;
  }

  AslGbl_InputByteCount++;

  /* Handle tabs. Convert to spaces */

  if (SourceChar == '\t')
  {
     SourceChar = ' ';
     Count = ASL_SPACES_PER_TAB -
             (AslGbl_CurrentColumn & (ASL_SPACES_PER_TAB-1));
  }

  for (i = 0; i < Count; i++)
  {
     AslGbl_CurrentColumn++;

     /* Insert the character into the line buffer */

     *AslGbl_LineBufPtr = (UINT8) SourceChar;
     AslGbl_LineBufPtr++;

     if (AslGbl_LineBufPtr >
        (AslGbl_CurrentLineBuffer + (AslGbl_LineBufferSize - 1)))
     {
#if 0
```

```
            /*
             * Warning if we have split a long source line.
             * <Probably overkill>
             */
            sprintf (MsgBuffer, "Max %u", AslGbl_LineBufferSize);
            AslCommonError (ASL_WARNING, ASL_MSG_LONG_LINE,
               AslGbl_CurrentLineNumber, AslGbl_LogicalLineNumber,
               AslGbl_CurrentLineOffset, AslGbl_CurrentColumn,
                AslGbl_Files[ASL_FILE_INPUT].Filename, MsgBuffer);
#endif

            AslResetCurrentLineBuffer ();
        }
        else if (SourceChar == '\n')
        {
            /* End of line */

            AslResetCurrentLineBuffer ();
        }

        if (AcpiGbl_CaptureComments)
        {
            CvProcessCommentState ((char) SourceChar);
        }
    }
}


/******************************************************************************
*
* FUNCTION:    count
*
* PARAMETERS:  yytext           - Contains the matched keyword.
*              Type             - Keyword/Character type:
*                                 0 = anything except a keyword
*                                 1 = pseudo-keywords
*                                 2 = non-executable ASL keywords
*                                 3 = executable ASL keywords
*
* RETURN:      None
*
* DESCRIPTION: Count keywords and put them into the line buffer
*
*****************************************************************************/

static
 void
count (
```

```
  int                 Type)
{
  char                *p;


  switch (Type)
  {
  case 2:

      ++AslGbl_TotalKeywords;
      ++AslGbl_TotalNamedObjects;
      ++AslGbl_FilesList->TotalKeywords;
      ++AslGbl_FilesList->TotalNamedObjects;
      break;

  case 3:

      ++AslGbl_TotalKeywords;
      ++AslGbl_TotalExecutableOpcodes;
      ++AslGbl_FilesList->TotalKeywords;
      ++AslGbl_FilesList->TotalExecutableOpcodes;
      break;

  default:

      break;
  }

  for (p = yytext; *p != '\0'; p++)
  {
      AslInsertLineBuffer (*p);
      *AslGbl_LineBufPtr = 0;
  }
}


/*******************************************************************************
*
* FUNCTION:    AslDoComment
*
* PARAMETERS:  none
*
* RETURN:      none
*
* DESCRIPTION: Process a standard comment.
*
******************************************************************************/
```

```
static
 BOOLEAN
AslDoComment (
  void)
{
  int                 c;
  int                 c1 = 0;
  char                *StringBuffer = AslGbl_MsgBuffer;
  char                *EndBuffer = AslGbl_MsgBuffer + ASL_MSG_BUFFER_SIZE;
  ASL_COMMENT_STATE       CurrentState = AslGbl_CommentState; /* to reference later on */


  AslInsertLineBuffer ('/');
  AslInsertLineBuffer ('*');
  if (AcpiGbl_CaptureComments && CurrentState.CaptureComments)
  {
     *StringBuffer = '/';
     ++StringBuffer;
     *StringBuffer = '*';
     ++StringBuffer;
  }

loop:

  /* Eat chars until end-of-comment */

  while (((c = input ()) != '*') && (c != EOF))
  {
     AslInsertLineBuffer (c);
     if (AcpiGbl_CaptureComments && CurrentState.CaptureComments)
     {
        *StringBuffer = (char) c;
        ++StringBuffer;
     }
     c1 = c;
  }

  if (c == EOF)
  {
     goto EarlyEOF;
  }

  /*
   * Check for
 nested comment -- can help catch cases where a previous
   * comment was accidentally left unterminated
   */
  if ((c1 == '/') && (c == '*'))
```

```
  {
     AslCommonError (ASL_WARNING, ASL_MSG_NESTED_COMMENT,
        AslGbl_CurrentLineNumber, AslGbl_LogicalLineNumber,
        AslGbl_InputByteCount, AslGbl_CurrentColumn,
        AslGbl_Files[ASL_FILE_INPUT].Filename, NULL);
  }

  /* Comment is closed only if the NEXT character is a slash */

  AslInsertLineBuffer (c);
  if (AcpiGbl_CaptureComments && CurrentState.CaptureComments)
  {
     *StringBuffer = (char) c;
     ++StringBuffer;
  }

  if (((c1 = input ()) != '/') && (c1 != EOF))
  {
     unput (c1);
     goto loop;
  }

  if (c1 == EOF)
  {
     goto EarlyEOF;
  }
  if (StringBuffer > EndBuffer)
  {
     goto BufferOverflow;
  }

  AslInsertLineBuffer (c1);
  CvProcessComment (CurrentState, StringBuffer, c1);
  return (TRUE);


EarlyEOF:
  /*
   * Premature
 End-Of-File
   */
  AslCommonError (ASL_ERROR, ASL_MSG_EARLY_EOF,
     AslGbl_CurrentLineNumber, AslGbl_LogicalLineNumber,
     AslGbl_CurrentLineOffset, AslGbl_CurrentColumn,
     AslGbl_Files[ASL_FILE_INPUT].Filename, NULL);
  return (FALSE);
```

```
BufferOverflow:

  /* Comment was too long */

  AslCommonError (ASL_ERROR, ASL_MSG_STRING_LENGTH,
     AslGbl_CurrentLineNumber, AslGbl_LogicalLineNumber,
     AslGbl_CurrentLineOffset, AslGbl_CurrentColumn,
     AslGbl_Files[ASL_FILE_INPUT].Filename, "Max length 4096");
  return (FALSE);

}


/*******************************************************************************
*
* FUNCTION:    AslDoCommentType2
*
* PARAMETERS:  none
*
* RETURN:      none
*
* DESCRIPTION: Process a new "//" comment. Inline comments will be converted
*              to "/ *" standard comments.
*
*******************************************************************************/

static BOOLEAN
AslDoCommentType2 (
  void)
{
   int                 c;
  char                 *StringBuffer = AslGbl_MsgBuffer;
  char                 *EndBuffer = AslGbl_MsgBuffer + ASL_MSG_BUFFER_SIZE;
  ASL_COMMENT_STATE       CurrentState = AslGbl_CommentState;


  AslInsertLineBuffer ('/');

  if (AcpiGbl_CaptureComments && CurrentState.CaptureComments)
  {
     AslInsertLineBuffer ('*');
     *StringBuffer = '/';
     ++StringBuffer;
     *StringBuffer = '*';
     ++StringBuffer;
  }
  else
  {
```

```
    AslInsertLineBuffer ('/');
  }

  while (((c = input ()) != '\n') && (c != EOF))
  {
    AslInsertLineBuffer (c);
    if (AcpiGbl_CaptureComments && CurrentState.CaptureComments)
    {
      *StringBuffer = (char) c;
      ++StringBuffer;
    }
  }

  if (c == EOF)
  {
    /* End of file is OK, change to newline. Let parser detect EOF later */

    c = '\n';
  }

  if (StringBuffer > EndBuffer)
  {
    goto BufferOverflow;
   }
  AslInsertLineBuffer (c);

  CvProcessCommentType2 (CurrentState, StringBuffer);
  return (TRUE);


BufferOverflow:

  /* Comment was too long */

  AslCommonError (ASL_ERROR, ASL_MSG_STRING_LENGTH,
    AslGbl_CurrentLineNumber, AslGbl_LogicalLineNumber,
    AslGbl_CurrentLineOffset, AslGbl_CurrentColumn,
    AslGbl_Files[ASL_FILE_INPUT].Filename, "Max length 4096");
  return (FALSE);

}


/*******************************************************************************
*
* FUNCTION:    AslDoStringLiteral
*
* PARAMETERS:  none
```

```
*
* RETURN:      none
*
* DESCRIPTION: Process a string literal (surrounded by quotes)
*
*****************************************************************************/

static char
AslDoStringLiteral (
  void)
{
  char              *StringBuffer = AslGbl_MsgBuffer;
  char              *EndBuffer = AslGbl_MsgBuffer + ASL_MSG_BUFFER_SIZE;
  char              *CleanString;
  int               StringChar;

  UINT32            State = ASL_NORMAL_CHAR;
  UINT32            i = 0;
  UINT8             Digit;
  char              ConvertBuffer[4];


  /*
   * Eat chars until end-of-literal.
   * NOTE:  Put back the original surrounding quotes into the
   * source line buffer.
   */
  AslInsertLineBuffer ('\"');
  while ((StringChar = input()) != EOF)
  {
     AslInsertLineBuffer (StringChar);

DoCharacter:
     switch (State)
     {
     case ASL_NORMAL_CHAR:

        switch (StringChar)
        {
        case '\\':
           /*
            * Special handling for backslash-escape sequence. We will
            * toss the backslash and translate the escape char(s).
            */
           State = ASL_ESCAPE_SEQUENCE;
           continue;

        case '\"':
```

```
            /* String terminator */

            goto CompletedString;

        default:

            break;
        }

break;


    case ASL_ESCAPE_SEQUENCE:

        State = ASL_NORMAL_CHAR;
        switch (StringChar)
        {
        case 'a':

            StringChar = 0x07;      /* BELL */
            break;

        case 'b':

            StringChar = 0x08;      /* BACKSPACE */
            break;

        case 'f':

            StringChar = 0x0C;      /* FORMFEED */
            break;

        case 'n':

            StringChar = 0x0A;      /* LINEFEED */
            break;

        case 'r':

            StringChar = 0x0D;      /* CARRIAGE RETURN*/
            break;

        case 't':

            StringChar = 0x09;      /* HORIZONTAL TAB */
            break;
```

```
    case 'v':

        StringChar = 0x0B;      /* VERTICAL TAB */
        break;

    case 'x':

        State = ASL_HEX_CONSTANT;
        i = 0;
        continue;

    case '\'':
   /* Single Quote */
    case '\"':                  /* Double Quote */
    case '\\':                  /* Backslash */

        break;

    default:

        /* Check for an octal digit (0-7) */

        if (ACPI_IS_OCTAL_DIGIT (StringChar))
        {
            State = ASL_OCTAL_CONSTANT;
            ConvertBuffer[0] = (char) StringChar;
            i = 1;
            continue;
        }

        /* Unknown escape sequence issue warning, but use the character */

        AslCommonError (ASL_WARNING, ASL_MSG_INVALID_ESCAPE,
            AslGbl_CurrentLineNumber, AslGbl_LogicalLineNumber,
            AslGbl_CurrentLineOffset, AslGbl_CurrentColumn,
            AslGbl_Files[ASL_FILE_INPUT].Filename, NULL);
        break;
    }
    break;


case ASL_OCTAL_CONSTANT:

    /* Up to three octal digits allowed */

     if (!ACPI_IS_OCTAL_DIGIT (StringChar) ||
        (i > 2))
    {
```

```
            /*
             * Reached end of the constant. Convert the assembled ASCII
             * string and resume processing of the next character
             */
            ConvertBuffer[i] = 0;
            Digit = (UINT8) strtoul (ConvertBuffer, NULL, 8);

            /* Check for NULL or non-ascii character (ignore if so) */

            if ((Digit == 0) || (Digit > ACPI_ASCII_MAX))
            {
               AslCommonError (ASL_WARNING, ASL_MSG_INVALID_STRING,
                  AslGbl_CurrentLineNumber, AslGbl_LogicalLineNumber,
                  AslGbl_CurrentLineOffset, AslGbl_CurrentColumn,
                  AslGbl_Files[ASL_FILE_INPUT].Filename, NULL);
            }
            else
            {
               *StringBuffer = (char) Digit;
               StringBuffer++;
               if (StringBuffer
>= EndBuffer)
               {
                  goto BufferOverflow;
               }
            }

            State = ASL_NORMAL_CHAR;
            goto DoCharacter;
            break;
         }

         /* Append another digit of the constant */

         ConvertBuffer[i] = (char) StringChar;
         i++;
         continue;

      case ASL_HEX_CONSTANT:

         /* Up to two hex digits allowed */

         if (!isxdigit (StringChar) ||
            (i > 1))
         {
            /*
             * Reached end of the constant. Convert the assembled ASCII
             * string and resume processing of the next character
```

```
            */
            ConvertBuffer[i] = 0;
            Digit = (UINT8) strtoul (ConvertBuffer, NULL, 16);

            /* Check for NULL or non-ascii character (ignore if so) */

            if ((Digit == 0) || (Digit > ACPI_ASCII_MAX))
            {
                AslCommonError (ASL_WARNING, ASL_MSG_INVALID_STRING,
                    AslGbl_CurrentLineNumber, AslGbl_LogicalLineNumber,
                    AslGbl_CurrentLineOffset, AslGbl_CurrentColumn,
                    AslGbl_Files[ASL_FILE_INPUT].Filename, NULL);
            }
            else
            {
                *StringBuffer = (char) Digit;
                StringBuffer++;
                if (StringBuffer >= EndBuffer)
                {
                    goto BufferOverflow;
                }
            }

            State = ASL_NORMAL_CHAR;
            goto DoCharacter;
            break;
        }

        /* Append another digit of the constant */

        ConvertBuffer[i] = (char) StringChar;
        i++;
        continue;

    default:

        break;
    }

    /* Save the finished character */

    *StringBuffer = (char) StringChar;
    StringBuffer++;
     if (StringBuffer >= EndBuffer)
    {
        goto BufferOverflow;
    }
}
```

```
  /*
   * Premature End-Of-File
   */
  AslCommonError (ASL_ERROR, ASL_MSG_EARLY_EOF,
      AslGbl_CurrentLineNumber, AslGbl_LogicalLineNumber,
      AslGbl_CurrentLineOffset, AslGbl_CurrentColumn,
      AslGbl_Files[ASL_FILE_INPUT].Filename, NULL);
  return (FALSE);


CompletedString:
  /*
   * Null terminate the input string and copy string to a new buffer
   */
  *StringBuffer = 0;

  CleanString = UtLocalCacheCalloc (strlen (AslGbl_MsgBuffer) + 1);
  strcpy (CleanString, AslGbl_MsgBuffer);
  AslCompilerlval.s = CleanString;
  return (TRUE);


BufferOverflow:

  /* Literal was too long */

  AslCommonError (ASL_ERROR, ASL_MSG_STRING_LENGTH,
      AslGbl_CurrentLineNumber, AslGbl_LogicalLineNumber,
      AslGbl_CurrentLineOffset, AslGbl_CurrentColumn,
      AslGbl_Files[ASL_FILE_INPUT].Filename, "Max length 4096");
  return (FALSE);
}

Found
 in path(s):
* /acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/aslsupport.l
No license file was found, but licenses were detected in source scan.

NoEcho('
/******************************************************************************
*
* Module Name: aslrules.y - Main Bison/Yacc production rules
*                         - Keep this file synched with the
*                           CvParseOpBlockType function in cvcompiler.c
*
*****************************************************************************/
```

```
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*
*****************************************************************************/

')

/*****************************************************************************
*
* ASL Root and Secondary Terms
*
*****************************************************************************/

/*
* Root term. Allow multiple #line directives before the definition block
* to handle output from preprocessors
*/
AslCode
  : DefinitionBlockList         {$<n>$ = TrLinkOpChildren (

 TrCreateLeafOp (PARSEOP_ASL_CODE),1, $1);}
  | error                       {YYABORT; $$ = NULL;}
  ;


/*
* Note concerning support for "module-level code".
*
* ACPI 1.0 allowed Type1 and Type2 executable opcodes outside of control
* methods (the so-called module-level code.) This support was explicitly
* removed in ACPI 2.0, but this type of code continues to be created by
* BIOS vendors. In order to support the disassembly and recompilation of
* such code (and the porting of ASL code to iASL), iASL supports this
* code in violation of the current ACPI specification.
*
* The grammar change to support module-level code is to revert the
* {ObjectList} portion of the DefinitionBlockTerm in ACPI 2.0 to the
* original use of {TermList} instead (see below.) This allows the use
* of Type1 and Type2 opcodes at module level.
*
* 04/2016: The module-level code is now allowed in the following terms:
* DeviceTerm, PowerResTerm, ProcessorTerm, ScopeTerm, ThermalZoneTerm.
*
```

```
 The ObjectList term is obsolete and has been removed.
*/
DefinitionBlockTerm
  : PARSEOP_DEFINITION_BLOCK
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_DEFINITION_BLOCK);
COMMENT_CAPTURE_OFF;}
    String ','
    String ','
    ByteConst ','
    String ','
    String ','
    DWordConst
    PARSEOP_CLOSE_PAREN         {TrSetOpIntegerWidth ($6,$8);
                                TrSetOpEndLineNumber ($<n>3); COMMENT_CAPTURE_ON;}
      '{' TermList '}'          {$$ = TrLinkOpChildren ($<n>3,7,
                                $4,$6,$8,$10,$12,$14,$18);}
  ;

DefinitionBlockList
  : DefinitionBlockTerm
  | DefinitionBlockTerm
    DefinitionBlockList         {$$ = TrLinkPeerOps (2, $1,$2);}
  ;


/******* Basic ASCII identifiers ************************************************/

/* Allow IO, DMA, IRQ Resource macro and FOR macro names to also be used as identifiers */

NameString
  : NameSeg
        {}
  | PARSEOP_NAMESTRING          {$$ = TrCreateValuedLeafOp (PARSEOP_NAMESTRING,
(ACPI_NATIVE_INT) $1);}
  | PARSEOP_IO                  {$$ = TrCreateValuedLeafOp (PARSEOP_NAMESTRING, (ACPI_NATIVE_INT)
"IO");}
  | PARSEOP_DMA                 {$$ = TrCreateValuedLeafOp (PARSEOP_NAMESTRING,
(ACPI_NATIVE_INT) "DMA");}
  | PARSEOP_IRQ                 {$$ = TrCreateValuedLeafOp (PARSEOP_NAMESTRING, (ACPI_NATIVE_INT)
"IRQ");}
  | PARSEOP_FOR                 {$$ = TrCreateValuedLeafOp (PARSEOP_NAMESTRING, (ACPI_NATIVE_INT)
"FOR");}
  ;
/*
NameSeg
  : PARSEOP_NAMESEG             {$$ = TrCreateValuedLeafOp (PARSEOP_NAMESEG,
(ACPI_NATIVE_INT)
                                TrNormalizeNameSeg ($1));}
```

```
  ;
*/

NameSeg
  : PARSEOP_NAMESEG             {$$ = TrCreateValuedLeafOp (PARSEOP_NAMESEG,
                                (ACPI_NATIVE_INT) AslCompilerlval.s);}
  ;


/******* Fundamental argument/statement types ***********************************/

Term
   : Object                   {}
  | Type1Opcode                {}
  | Type2Opcode                {}
  | Type2IntegerOpcode          {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);}
  | Type2StringOpcode           {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);}
  | Type2BufferOpcode           {}
  | Type2BufferOrStringOpcode    {}
  | error                    {$$ = AslDoError(); yyclearin;}
  ;

SuperName
  : SimpleName                 {}
  | DebugTerm                  {}
  | Type6Opcode                {}
  ;

Target
  :                         {$$ = TrCreateNullTargetOp ();} /* Placeholder is a ZeroOp object */
  | ','                     {$$ = TrCreateNullTargetOp ();} /* Placeholder is a ZeroOp object */
  | ',' SuperName               {$$ = TrSetOpFlags ($2, OP_IS_TARGET);}
  ;

RequiredTarget
  : ',' SuperName               {$$ = TrSetOpFlags ($2, OP_IS_TARGET);}
  ;

TermArg
   : SimpleName                 {$$ = TrSetOpFlags ($1, OP_IS_TERM_ARG);}
  | Type2Opcode                 {$$ = TrSetOpFlags ($1, OP_IS_TERM_ARG);}
  | DataObject                 {$$ = TrSetOpFlags ($1, OP_IS_TERM_ARG);}
  | PARSEOP_OPEN_PAREN
     TermArg
     PARSEOP_CLOSE_PAREN        {$$ = TrSetOpFlags ($2, OP_IS_TERM_ARG);}
  ;

/*
```

```
NOTE: Removed from TermArg due to reduce/reduce conflicts:
  | Type2IntegerOpcode          {$$ = TrSetOpFlags ($1, OP_IS_TERM_ARG);}
  | Type2StringOpcode           {$$ = TrSetOpFlags ($1, OP_IS_TERM_ARG);}
  | Type2BufferOpcode           {$$ = TrSetOpFlags ($1, OP_IS_TERM_ARG);}
  | Type2BufferOrStringOpcode   {$$ = TrSetOpFlags ($1, OP_IS_TERM_ARG);}

*/

MethodInvocationTerm
  : NameString
    PARSEOP_OPEN_PAREN        {TrSetOpIntegerValue (PARSEOP_METHODCALL, $1);
COMMENT_CAPTURE_OFF;}
    ArgList
    PARSEOP_CLOSE_PAREN       {$$ = TrLinkChildOp ($1,$4); COMMENT_CAPTURE_ON;}
  ;

/* OptionalCount
 must appear before ByteList or an incorrect reduction will result */

OptionalCount
  :                           {$$ = TrCreateLeafOp (PARSEOP_ONES);}     /* Placeholder is a OnesOp object */
  | ','                       {$$ = TrCreateLeafOp (PARSEOP_ONES);}     /* Placeholder is a OnesOp object */
  | ',' TermArg               {$$ = $2;}
  ;

/*
* Data count for buffers and packages (byte count for buffers,
* element count for packages).
*/
OptionalDataCount

    /* Legacy ASL */
  :                           {$$ = NULL;}
  | PARSEOP_OPEN_PAREN
    TermArg
    PARSEOP_CLOSE_PAREN       {$$ = $2;}
  | PARSEOP_OPEN_PAREN
    PARSEOP_CLOSE_PAREN       {$$ = NULL;}

    /* C-style (ASL+) -- adds equals term */

  |  PARSEOP_EXP_EQUALS       {$$ = NULL;}

  | PARSEOP_OPEN_PAREN
    TermArg
    PARSEOP_CLOSE_PAREN
    PARSEOP_EXP_EQUALS        {$$ = $2;}
```

```
  | PARSEOP_OPEN_PAREN
    PARSEOP_CLOSE_PAREN
     String
    PARSEOP_EXP_EQUALS          {$$ = NULL;}
  ;


/******* List Terms ************************************************/

  /* ACPI 3.0 -- allow semicolons between terms */

TermList
  :                         {$$ = NULL;}
  | TermList Term               {$$ = TrLinkPeerOp (
                              TrSetOpFlags ($1, OP_RESULT_NOT_USED),$2);}
  | TermList Term ';'           {$$ = TrLinkPeerOp (
                              TrSetOpFlags ($1, OP_RESULT_NOT_USED),$2);}
  | TermList ';' Term           {$$ = TrLinkPeerOp (
                              TrSetOpFlags ($1, OP_RESULT_NOT_USED),$3);}
  | TermList ';' Term ';'       {$$ = TrLinkPeerOp (
                              TrSetOpFlags ($1, OP_RESULT_NOT_USED),$3);}
  ;

ArgList
  :                         {$$ = NULL;}
  | TermArg
  | ArgList ','               /* Allows a trailing comma at list end */
  | ArgList
','
    TermArg                   {$$ = TrLinkPeerOp ($1,$3);}
  ;

ByteList
  :                         {$$ = NULL;}
  | ByteConstExpr
  | ByteList ','              /* Allows a trailing comma at list end */
  | ByteList ','
    ByteConstExpr             {$$ = TrLinkPeerOp ($1,$3);}
  ;

DWordList
  :                         {$$ = NULL;}
  | DWordConstExpr
  | DWordList ','             /* Allows a trailing comma at list end */
  | DWordList ','
    DWordConstExpr            {$$ = TrLinkPeerOp ($1,$3);}
  ;
```

```
FieldUnitList
  :                         {$$ = NULL;}
  | FieldUnit
  | FieldUnitList ','           /* Allows a trailing comma at list end */
  | FieldUnitList ','
    FieldUnit                 {$$ = TrLinkPeerOp ($1,$3);}
  ;

FieldUnit
  : FieldUnitEntry              {}
  | OffsetTerm                  {}
  | AccessAsTerm                {}
  | ConnectionTerm              {}

;

FieldUnitEntry
  : ',' AmlPackageLengthTerm      {$$ = TrCreateOp (PARSEOP_RESERVED_BYTES,1,$2);}
  | NameSeg ','
    AmlPackageLengthTerm        {$$ = TrLinkChildOp ($1,$3);}
  ;

Object
  : CompilerDirective           {}
  | NamedObject                 {}
  | NameSpaceModifier           {}
/*  | StructureTerm               {} */
  ;

PackageList
  :                         {$$ = NULL;}
  | PackageElement
  | PackageList ','             /* Allows a trailing comma at list end */
  | PackageList ','
    PackageElement              {$$ = TrLinkPeerOp ($1,$3);}
  ;

PackageElement
  : DataObject                  {}
  | NameString                  {}
  ;

  /* Rules for specifying the type of one method argument or return value */

ParameterTypePackage
  :                         {$$ = NULL;}
  | ObjectTypeKeyword           {$$ = $1;}
  | ParameterTypePackage ','
```

```
      ObjectTypeKeyword          {$$ = TrLinkPeerOps
 (2,$1,$3);}
  ;

ParameterTypePackageList
  :                          {$$ = NULL;}
  | ObjectTypeKeyword            {$$ = TrLinkOpChildren (
                               TrCreateLeafOp (PARSEOP_DEFAULT_ARG),1,$1);}
  | '{' ParameterTypePackage '}'  {$$ = TrLinkOpChildren (
                               TrCreateLeafOp (PARSEOP_DEFAULT_ARG),1,$2);}
  ;


OptionalParameterTypePackage
  :                          {$$ = NULL;}
  | ',' ParameterTypePackageList  {$$ = $2;}
  ;

  /* Rules for specifying the types for method arguments */

ParameterTypesPackage
  : ParameterTypePackageList      {$$ = $1;}
  | ParameterTypesPackage ','
     ParameterTypePackageList    {$$ = TrLinkPeerOps (2,$1,$3);}
  ;

ParameterTypesPackageList
  :                          {$$ = NULL;}
  | ObjectTypeKeyword            {$$ = TrLinkOpChildren (
                               TrCreateLeafOp (PARSEOP_DEFAULT_ARG),1,$1);}
  | '{'
 ParameterTypesPackage '}' {$$ = TrLinkOpChildren (
                               TrCreateLeafOp (PARSEOP_DEFAULT_ARG),1,$2);}
  ;

OptionalParameterTypesPackage
  :                          {$$ = NULL;}
  | ',' ParameterTypesPackageList {$$ = $2;}
  ;

/*
* Case-Default list; allow only one Default term and unlimited Case terms
*/
CaseDefaultTermList
  :                          {$$ = NULL;}
  | CaseTerm                    {}
  | DefaultTerm                  {}
  | CaseDefaultTermList
```

```
    CaseTerm                {$$ = TrLinkPeerOp ($1,$2);}
  | CaseDefaultTermList
    DefaultTerm             {$$ = TrLinkPeerOp ($1,$2);}

/* Original - attempts to force zero or one default term within the switch */

/*
CaseDefaultTermList
  :                         {$$ = NULL;}
  | CaseTermList
    DefaultTerm
    CaseTermList            {$$ = TrLinkPeerOp ($1,TrLinkPeerOp ($2, $3));}
  | CaseTermList
    CaseTerm
            {$$ = TrLinkPeerOp ($1,$2);}
  ;

CaseTermList
  :                         {$$ = NULL;}
  | CaseTerm                {}
  | CaseTermList
    CaseTerm                {$$ = TrLinkPeerOp ($1,$2);}
  ;
*/


/*******************************************************************************
*
* ASL Data and Constant Terms
*
*******************************************************************************/

DataObject
  : BufferData              {}
  | PackageData             {}
  | IntegerData             {}
  | StringData              {}
  ;

BufferData
  : Type5Opcode             {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);}
  | Type2BufferOrStringOpcode   {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);}
  | Type2BufferOpcode       {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);}
  | BufferTerm              {}
  ;

PackageData
  : PackageTerm             {}
```

```
  ;

IntegerData
   : Type2IntegerOpcode          {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);}
  | Type3Opcode                {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);}
  | Integer                    {}
  | ConstTerm                  {}
  ;

StringData
  : Type2StringOpcode           {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);}
  | String                     {}
  ;

StringLiteral
  : String                     {}
  ;

ByteConst
  : Integer                    {$$ = TrSetOpIntegerValue (PARSEOP_BYTECONST, $1);}
  ;

WordConst
  : Integer                    {$$ = TrSetOpIntegerValue (PARSEOP_WORDCONST, $1);}
  ;

DWordConst
  : Integer                    {$$ = TrSetOpIntegerValue (PARSEOP_DWORDCONST, $1);}
  ;

QWordConst
  : Integer                    {$$ = TrSetOpIntegerValue (PARSEOP_QWORDCONST, $1);}
  ;

/*
* The OP_COMPILE_TIME_CONST flag in the following constant expressions
* enables compile-time constant folding
 to reduce the Type3Opcodes/Type2IntegerOpcodes
* to simple integers. It is an error if these types of expressions cannot be
* reduced, since the AML grammar for ****ConstExpr requires a simple constant.
* Note: The required byte length of the constant is passed through to the
* constant folding code in the node AmlLength field.
*/
ByteConstExpr
  : Type3Opcode                {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);
                               TrSetOpAmlLength ($1, 1);}
  | Type2IntegerOpcode          {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);
                               TrSetOpAmlLength ($1, 1);}
```

```
  | ConstExprTerm               {$$ = TrSetOpIntegerValue (PARSEOP_BYTECONST, $1);}
  | ByteConst                 {}
  ;

WordConstExpr
  : Type3Opcode               {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);
                              TrSetOpAmlLength ($1, 2);}
  | Type2IntegerOpcode          {$$ = TrSetOpFlags
 ($1, OP_COMPILE_TIME_CONST);
                              TrSetOpAmlLength ($1, 2);}
  | ConstExprTerm             {$$ = TrSetOpIntegerValue (PARSEOP_WORDCONST, $1);}
  | WordConst                 {}
  ;

DWordConstExpr
  : Type3Opcode               {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);
                              TrSetOpAmlLength ($1, 4);}
  | Type2IntegerOpcode          {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);
                              TrSetOpAmlLength ($1, 4);}
  | ConstExprTerm             {$$ = TrSetOpIntegerValue (PARSEOP_DWORDCONST, $1);}
  | DWordConst                {}
  ;

QWordConstExpr
  : Type3Opcode               {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);
                              TrSetOpAmlLength ($1, 8);}
  | Type2IntegerOpcode          {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);
                              TrSetOpAmlLength
 ($1, 8);}
  | ConstExprTerm             {$$ = TrSetOpIntegerValue (PARSEOP_QWORDCONST, $1);}
  | QWordConst                {}
  ;

ConstTerm
  : ConstExprTerm             {}
  | PARSEOP_REVISION            {$$ = TrCreateLeafOp (PARSEOP_REVISION);}
  ;

ConstExprTerm
  : PARSEOP_ZERO              {$$ = TrCreateValuedLeafOp (PARSEOP_ZERO, 0);}
  | PARSEOP_ONE               {$$ = TrCreateValuedLeafOp (PARSEOP_ONE, 1);}
  | PARSEOP_ONES              {$$ = TrCreateValuedLeafOp (PARSEOP_ONES, ACPI_UINT64_MAX);}
  | PARSEOP___DATE__            {$$ = TrCreateConstantLeafOp (PARSEOP___DATE__);}
  | PARSEOP___FILE__            {$$ = TrCreateConstantLeafOp (PARSEOP___FILE__);}
  | PARSEOP___LINE__            {$$ = TrCreateConstantLeafOp (PARSEOP___LINE__);}
  | PARSEOP___PATH__            {$$ = TrCreateConstantLeafOp (PARSEOP___PATH__);}
  | PARSEOP___METHOD__          {$$ = TrCreateConstantLeafOp (PARSEOP___METHOD__);}
  ;
```

```
Integer
   : PARSEOP_INTEGER              {$$ = TrCreateValuedLeafOp (PARSEOP_INTEGER,
                                  AslCompilerlval.i);}
  ;

String
  : PARSEOP_STRING_LITERAL       {$$ = TrCreateValuedLeafOp (PARSEOP_STRING_LITERAL,
                                  (ACPI_NATIVE_INT) AslCompilerlval.s);}
  ;


/******************************************************************************
*
* ASL Opcode Terms
*
******************************************************************************/

CompilerDirective
  : IncludeTerm                {}
  | IncludeEndTerm               {}
  | ExternalTerm               {}
  ;

NamedObject
  : BankFieldTerm              {}
  | CreateBitFieldTerm           {}
  | CreateByteFieldTerm          {}
  | CreateDWordFieldTerm         {}
  | CreateFieldTerm            {}
  | CreateQWordFieldTerm         {}
  | CreateWordFieldTerm          {}
  | DataRegionTerm             {}
  | DeviceTerm
                {}
  | EventTerm                  {}
  | FieldTerm                  {}
  | FunctionTerm               {}
  | IndexFieldTerm             {}
  | MethodTerm                 {}
  | MutexTerm                  {}
  | OpRegionTerm               {}
  | PowerResTerm               {}
  | ProcessorTerm              {}
  | ThermalZoneTerm              {}
  ;

NameSpaceModifier
```

```
  : AliasTerm                {}
  | NameTerm                 {}
/*   | NameTermAslPlus            {} */
  | ScopeTerm                {}
  ;

SimpleName
  : NameString               {}
  | LocalTerm                {}
  | ArgTerm                  {}
  ;

/* For ObjectType(), SuperName except for MethodInvocationTerm */

ObjectTypeSource
  : SimpleName               {}
  | DebugTerm                {}
  | RefOfTerm                {}
  | DerefOfTerm              {}
  | IndexTerm
                {}
  | IndexExpTerm             {}
  ;

/* For DeRefOf(), SuperName except for DerefOf and Debug */

DerefOfSource
  : SimpleName               {}
  | RefOfTerm                {}
  | DerefOfTerm              {}
  | IndexTerm                {}
  | IndexExpTerm             {}
  | StoreTerm                {}
  | EqualsTerm               {}
  | MethodInvocationTerm         {}
  ;

/* For RefOf(), SuperName except for RefOf and MethodInvocationTerm */

RefOfSource
  : SimpleName               {}
  | DebugTerm                {}
  | DerefOfTerm              {}
  | IndexTerm                {}
  | IndexExpTerm             {}
  ;

/* For CondRefOf(), SuperName except for RefOf and MethodInvocationTerm */
```

```
CondRefOfSource
  : SimpleName                {}
  | DebugTerm                 {}
  | DerefOfTerm               {}
  | IndexTerm                 {}
  | IndexExpTerm              {}
  ;

/*
* Opcode types, as defined in the ACPI specification
*/
Type1Opcode
  : BreakTerm                 {}
  | BreakPointTerm            {}
  | ContinueTerm              {}
  | FatalTerm                 {}
  | ForTerm                   {}
  | ElseIfTerm                {}
  | LoadTerm                  {}
  | NoOpTerm                  {}
  | NotifyTerm                {}
  | ReleaseTerm               {}
  | ResetTerm                 {}
  | ReturnTerm                {}
  | SignalTerm                {}
  | SleepTerm                 {}
  | StallTerm                 {}
  | SwitchTerm                {}
  | UnloadTerm                {}
  | WhileTerm                 {}
  ;

Type2Opcode
  : AcquireTerm               {}
  | CondRefOfTerm             {}
  | CopyObjectTerm            {}
  | DerefOfTerm               {}
  |
 ObjectTypeTerm               {}
  | RefOfTerm                 {}
  | SizeOfTerm                {}
  | StoreTerm                 {}
  | EqualsTerm                {}
  | TimerTerm                 {}
  | WaitTerm                  {}
  | MethodInvocationTerm      {}
  ;
```

```
/*
* Type 3/4/5 opcodes
*/
Type2IntegerOpcode              /* "Type3" opcodes */
  : Expression                  {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);}
  | AddTerm                     {}
  | AndTerm                     {}
  | DecTerm                     {}
  | DivideTerm                  {}
  | FindSetLeftBitTerm          {}
  | FindSetRightBitTerm         {}
  | FromBCDTerm                 {}
  | IncTerm                     {}
  | IndexTerm                   {}
/*  | StructureIndexTerm        {} */
/*  | StructurePointerTerm      {} */
  | LAndTerm                    {}
  | LEqualTerm
 {}
  | LGreaterTerm                {}
  | LGreaterEqualTerm           {}
  | LLessTerm                   {}
  | LLessEqualTerm              {}
  | LNotTerm                    {}
  | LNotEqualTerm               {}
  | LoadTableTerm               {}
  | LOrTerm                     {}
  | MatchTerm                   {}
  | ModTerm                     {}
  | MultiplyTerm                {}
  | NAndTerm                    {}
  | NOrTerm                     {}
  | NotTerm                     {}
  | OrTerm                      {}
  | ShiftLeftTerm               {}
  | ShiftRightTerm              {}
  | SubtractTerm                {}
  | ToBCDTerm                   {}
  | ToIntegerTerm               {}
  | XOrTerm                     {}
  ;

Type2StringOpcode               /* "Type4" Opcodes */
  : ToDecimalStringTerm         {}
  | ToHexStringTerm             {}
  | ToStringTerm
```

```
  {}
  ;

Type2BufferOpcode               /* "Type5" Opcodes */
  : ToBufferTerm              {}
  | ConcatResTerm             {}
  ;

Type2BufferOrStringOpcode
  : ConcatTerm                {$$ = TrSetOpFlags ($1, OP_COMPILE_TIME_CONST);}
  | PrintfTerm                {}
  | FprintfTerm               {}
  | MidTerm                   {}
  ;

/*
* A type 3 opcode evaluates to an Integer and cannot have a destination operand
*/
Type3Opcode
  : EISAIDTerm                {}
  ;

/* Obsolete
Type4Opcode
  : ConcatTerm                {}
  | ToDecimalStringTerm       {}
  | ToHexStringTerm           {}
  | MidTerm                   {}
  | ToStringTerm              {}
  ;
*/

/* Type 5 opcodes are a subset of Type2 opcodes, and return a constant */

Type5Opcode
  : ResourceTemplateTerm      {}
  | UnicodeTerm               {}
  | ToPLDTerm                 {}
  | ToUUIDTerm
    {}
  ;

Type6Opcode
  : RefOfTerm                 {}
  | DerefOfTerm               {}
  | IndexTerm                 {}
  | IndexExpTerm              {}
/*    | StructureIndexTerm        {} */
```

```
/*    | StructurePointerTerm          {} */
  | MethodInvocationTerm          {}
  ;


/*******************************************************************************
*
* ASL Helper Terms
*
*******************************************************************************/

AmlPackageLengthTerm
  : Integer                     {$$ = TrSetOpIntegerValue (PARSEOP_PACKAGE_LENGTH,
                                (ACPI_PARSE_OBJECT *) $1);}
  ;

NameStringItem
  : ',' NameString              {$$ = $2;}
  | ',' error                   {$$ = AslDoError (); yyclearin;}
  ;

TermArgItem
  : ',' TermArg                 {$$ = $2;}
  | ',' error                   {$$ = AslDoError (); yyclearin;}
  ;

OptionalReference
  :
            {$$ = TrCreateLeafOp (PARSEOP_ZERO);}       /* Placeholder is a ZeroOp object */
  | ','                         {$$ = TrCreateLeafOp (PARSEOP_ZERO);}       /* Placeholder is a ZeroOp object */
  | ',' TermArg                 {$$ = $2;}
  ;

OptionalReturnArg
  :                             {$$ = TrSetOpFlags (TrCreateLeafOp (PARSEOP_ZERO),
                                      OP_IS_NULL_RETURN);}       /* Placeholder is a ZeroOp object */
  | TermArg                     {$$ = $1;}
  ;

OptionalSerializeRuleKeyword
  :                             {$$ = NULL;}
  | ','                         {$$ = NULL;}
  | ',' SerializeRuleKeyword    {$$ = $2;}
  ;

OptionalTermArg
  :                             {$$ = TrCreateLeafOp (PARSEOP_DEFAULT_ARG);}
  | TermArg                     {$$ = $1;}
```

```
  ;

OptionalWordConst
  :                       {$$ = NULL;}
  | WordConst             {$$ = $1;}
  ;
```

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```
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%{
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*
* Module Name: dtcompilerparser.l - Flex input file for table compiler lexer
*
*****************************************************************************/

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*****************************************************************************/

#include "aslcompiler.h"
#include "dtcompilerparser.y.h"


#define _COMPONENT          ACPI_COMPILER
      ACPI_MODULE_NAME    ("dtcompilerscanner")

/* handle locations */

int DtCompilerParsercolumn = 1;
```

```
int DtLabelByteOffset = 0;
int DtCompilerParserByteOffset = 0;

UINT32 DtTokenFirstLine = 0;
UINT32 DtTokenFirstColumn = 0;

#define YY_USER_ACTION \
        DtTokenFirstLine = DtCompilerParserlineno; \
        DtTokenFirstColumn = DtCompilerParsercolumn; \
        DtCompilerParsercolumn += DtCompilerParserleng; \
        DtCompilerParserByteOffset
 += DtCompilerParserleng; \
        DbgPrint (ASL_PARSE_OUTPUT,\
           "user action occurred. DtCompilerParserlloc.first_line: %u\n",\
           DtTokenFirstLine);
%}

%option nounput noinput yylineno

  /* Indicates a state used for parsing multiline C comments */
%x ML_COMMENT
%x DATA_STATE

WhiteSpace      [ \t\v\r]+
NewLines        [\n]+

  /* Avoid ", \n, and [] as a part of label name. These are not valid characters of a label name */
LabelName       [^ ":\n\[\]]([^":\n\[\]]*[^" :\n\[\]])?

  /* Avoid ", \n, \\, and [] as a part of data. These are not valid characters of data */
Data            [^ \\":\n\[\]]([^":\n\[\]\\]*[^" :\n\[\]\\])?

Text            [^ ":\n][^":\n]*
Comment         \[[^\n\[\]]*\]
CommentField    {LabelName}{WhiteSpace}*:{WhiteSpace}{Comment}?$


%%

<DATA_STATE>{WhiteSpace}"\\\n" {
      DbgPrint(ASL_PARSE_OUTPUT,"Continuation matched\n");
      return (DT_PARSEOP_LINE_CONTINUATION);
  }

":" {
      DbgPrint(ASL_PARSE_OUTPUT,
 ": Matched\n");
      BEGIN (DATA_STATE);
```

```
      return (':');
   }

<INITIAL,DATA_STATE>{WhiteSpace} { DbgPrint(ASL_PARSE_OUTPUT,"Whitespace matched\n"); }

<INITIAL,DATA_STATE>{Comment}    { DbgPrint(ASL_PARSE_OUTPUT,"Comment matched\n"); }

"/*"                { BEGIN (ML_COMMENT); }
<ML_COMMENT>"*/"        { BEGIN (INITIAL); }
<ML_COMMENT>"*/\n"      { BEGIN (INITIAL); }
<ML_COMMENT>([^*]|\n)+|. /* Ignore */
"//".*                  /* Ignore */


<DATA_STATE>{Data} {
    char *s;
    int size = strlen (DtCompilerParsertext);
    s=UtLocalCacheCalloc (size + 1);
    AcpiUtSafeStrncpy (s, DtCompilerParsertext, size + 1);
    DtCompilerParserlval.s = s;
    DbgPrint (ASL_PARSE_OUTPUT, "Data: %s\n", s);
    return (DT_PARSEOP_DATA);
}

{CommentField}  /* ignore */

{LabelName} {
  char *s;
  int size = strlen (DtCompilerParsertext);
  s=UtLocalCacheCalloc (size + 1);
  AcpiUtSafeStrncpy (s, DtCompilerParsertext, size + 1);
  DtCompilerParserlval.u
 = (DT_TABLE_UNIT *) UtLocalCacheCalloc (sizeof (DT_TABLE_UNIT));
  DtCompilerParserlval.u->Value = s;
  DtCompilerParserlval.u->Line = DtCompilerParserlineno;
  DtCompilerParserlval.u->Column = DtCompilerParsercolumn;
  DtLabelByteOffset = DtCompilerParserByteOffset;
  DbgPrint (ASL_PARSE_OUTPUT, "Label: %s\n", s);
  return (DT_PARSEOP_LABEL);
}


<DATA_STATE>\"{Text}?\" { // remove outer quotes from the string, they are unnecessary
  char *s;
  int size = strlen (DtCompilerParsertext);
  s=UtLocalCacheCalloc (size - 1);
  AcpiUtSafeStrncpy (s, DtCompilerParsertext + 1, size - 1);
  DtCompilerParserlval.s = s;
```

```
  DbgPrint (ASL_PARSE_OUTPUT, "String Data: %s\n", s);
  BEGIN (INITIAL);
  return (DT_PARSEOP_STRING_DATA);
}


<INITIAL,DATA_STATE>{NewLines} {
  DbgPrint(ASL_PARSE_OUTPUT,
     "Newline matched (data state). Current line number: %u\n",DtCompilerParserlineno);
  BEGIN (INITIAL); DtCompilerParsercolumn = 1;
}


%%


/*
* Local
 support functions
*/

void
DtCompilerInitLexer (
  FILE              *inFile)
{
  yyin = inFile;
}

void
DtCompilerTerminateLexer (
  void)
{
  /*
   * Flex/Bison increments the lineno for the EOF so decrement by 1 to get
   * the correct number of lines.
   */
  AslGbl_CurrentLineNumber = DtCompilerParserlineno - 1;
  AslGbl_InputByteCount = DtCompilerParserByteOffset;
}

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NoEcho('
/******************************************************************************
*
* Module Name: aslkeywords.y - Rules for resource descriptor keywords
```

```
*
*****************************************************************************/

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*****************************************************************************/

')

/*****************************************************************************
*
* ASL Parameter Keyword Terms
*
*****************************************************************************/

AccessAttribKeyword
  : PARSEOP_ACCESSATTRIB_BLOCK          {$$ = TrCreateLeafOp
(PARSEOP_ACCESSATTRIB_BLOCK);}
  | PARSEOP_ACCESSATTRIB_BLOCK_CALL      {$$ = TrCreateLeafOp
(PARSEOP_ACCESSATTRIB_BLOCK_CALL);}
  | PARSEOP_ACCESSATTRIB_BYTE           {$$ = TrCreateLeafOp (PARSEOP_ACCESSATTRIB_BYTE);}
  | PARSEOP_ACCESSATTRIB_QUICK          {$$
 = TrCreateLeafOp (PARSEOP_ACCESSATTRIB_QUICK );}
  | PARSEOP_ACCESSATTRIB_SND_RCV        {$$ = TrCreateLeafOp
(PARSEOP_ACCESSATTRIB_SND_RCV);}
  | PARSEOP_ACCESSATTRIB_WORD           {$$ = TrCreateLeafOp
(PARSEOP_ACCESSATTRIB_WORD);}
  | PARSEOP_ACCESSATTRIB_WORD_CALL      {$$ = TrCreateLeafOp
(PARSEOP_ACCESSATTRIB_WORD_CALL);}
  | PARSEOP_ACCESSATTRIB_BYTES
      PARSEOP_OPEN_PAREN              {$<n>$ = TrCreateLeafOp (PARSEOP_ACCESSATTRIB_BYTES);}
      ByteConst
      PARSEOP_CLOSE_PAREN             {$$ = TrLinkOpChildren ($<n>3,1,$4);}
  | PARSEOP_ACCESSATTRIB_RAW_BYTES
      PARSEOP_OPEN_PAREN              {$<n>$ = TrCreateLeafOp
(PARSEOP_ACCESSATTRIB_RAW_BYTES);}
      ByteConst
      PARSEOP_CLOSE_PAREN             {$$ = TrLinkOpChildren ($<n>3,1,$4);}
  | PARSEOP_ACCESSATTRIB_RAW_PROCESS
      PARSEOP_OPEN_PAREN              {$<n>$ = TrCreateLeafOp
(PARSEOP_ACCESSATTRIB_RAW_PROCESS);}
      ByteConst
      PARSEOP_CLOSE_PAREN
```

```
            {$$ = TrLinkOpChildren ($<n>3,1,$4);}
  ;

AccessTypeKeyword
  : PARSEOP_ACCESSTYPE_ANY              {$$ = TrCreateLeafOp (PARSEOP_ACCESSTYPE_ANY);}
  | PARSEOP_ACCESSTYPE_BYTE             {$$ = TrCreateLeafOp (PARSEOP_ACCESSTYPE_BYTE);}
  | PARSEOP_ACCESSTYPE_WORD             {$$ = TrCreateLeafOp (PARSEOP_ACCESSTYPE_WORD);}
  | PARSEOP_ACCESSTYPE_DWORD            {$$ = TrCreateLeafOp (PARSEOP_ACCESSTYPE_DWORD);}
  | PARSEOP_ACCESSTYPE_QWORD            {$$ = TrCreateLeafOp (PARSEOP_ACCESSTYPE_QWORD);}
  | PARSEOP_ACCESSTYPE_BUF              {$$ = TrCreateLeafOp (PARSEOP_ACCESSTYPE_BUF);}
  ;

AddressingModeKeyword
  : PARSEOP_ADDRESSINGMODE_7BIT         {$$ = TrCreateLeafOp
(PARSEOP_ADDRESSINGMODE_7BIT);}
  | PARSEOP_ADDRESSINGMODE_10BIT        {$$ = TrCreateLeafOp
(PARSEOP_ADDRESSINGMODE_10BIT);}
  ;

AddressKeyword
  : PARSEOP_ADDRESSTYPE_MEMORY          {$$ = TrCreateLeafOp
(PARSEOP_ADDRESSTYPE_MEMORY);}
  | PARSEOP_ADDRESSTYPE_RESERVED
        {$$ = TrCreateLeafOp (PARSEOP_ADDRESSTYPE_RESERVED);}
  | PARSEOP_ADDRESSTYPE_NVS             {$$ = TrCreateLeafOp (PARSEOP_ADDRESSTYPE_NVS);}
  | PARSEOP_ADDRESSTYPE_ACPI            {$$ = TrCreateLeafOp (PARSEOP_ADDRESSTYPE_ACPI);}
  ;

AddressSpaceKeyword
  : ByteConst                   {$$ = UtCheckIntegerRange ($1, ACPI_NUM_PREDEFINED_REGIONS, 0xFF);}
  | RegionSpaceKeyword              {}
  ;

BitsPerByteKeyword
  : PARSEOP_BITSPERBYTE_FIVE            {$$ = TrCreateLeafOp (PARSEOP_BITSPERBYTE_FIVE);}
  | PARSEOP_BITSPERBYTE_SIX             {$$ = TrCreateLeafOp (PARSEOP_BITSPERBYTE_SIX);}
  | PARSEOP_BITSPERBYTE_SEVEN           {$$ = TrCreateLeafOp (PARSEOP_BITSPERBYTE_SEVEN);}
  | PARSEOP_BITSPERBYTE_EIGHT           {$$ = TrCreateLeafOp (PARSEOP_BITSPERBYTE_EIGHT);}
  | PARSEOP_BITSPERBYTE_NINE            {$$ = TrCreateLeafOp (PARSEOP_BITSPERBYTE_NINE);}
  ;

ClockPhaseKeyword
  : PARSEOP_CLOCKPHASE_FIRST
        {$$ = TrCreateLeafOp (PARSEOP_CLOCKPHASE_FIRST);}
  | PARSEOP_CLOCKPHASE_SECOND           {$$ = TrCreateLeafOp
(PARSEOP_CLOCKPHASE_SECOND);}
  ;
```

```
ClockPolarityKeyword
  : PARSEOP_CLOCKPOLARITY_LOW          {$$ = TrCreateLeafOp
(PARSEOP_CLOCKPOLARITY_LOW);}
  | PARSEOP_CLOCKPOLARITY_HIGH         {$$ = TrCreateLeafOp
(PARSEOP_CLOCKPOLARITY_HIGH);}
  ;

DecodeKeyword
  : PARSEOP_DECODETYPE_POS             {$$ = TrCreateLeafOp (PARSEOP_DECODETYPE_POS);}
  | PARSEOP_DECODETYPE_SUB             {$$ = TrCreateLeafOp (PARSEOP_DECODETYPE_SUB);}
  ;

DevicePolarityKeyword
  : PARSEOP_DEVICEPOLARITY_LOW         {$$ = TrCreateLeafOp
(PARSEOP_DEVICEPOLARITY_LOW);}
  | PARSEOP_DEVICEPOLARITY_HIGH        {$$ = TrCreateLeafOp
(PARSEOP_DEVICEPOLARITY_HIGH);}
  ;

DMATypeKeyword
  : PARSEOP_DMATYPE_A                  {$$ = TrCreateLeafOp (PARSEOP_DMATYPE_A);}
  | PARSEOP_DMATYPE_COMPATIBILITY      {$$ = TrCreateLeafOp
(PARSEOP_DMATYPE_COMPATIBILITY);}
   | PARSEOP_DMATYPE_B                 {$$ = TrCreateLeafOp (PARSEOP_DMATYPE_B);}
  | PARSEOP_DMATYPE_F                  {$$ = TrCreateLeafOp (PARSEOP_DMATYPE_F);}
  ;

EndianKeyword
  : PARSEOP_ENDIAN_LITTLE              {$$ = TrCreateLeafOp (PARSEOP_ENDIAN_LITTLE);}
  | PARSEOP_ENDIAN_BIG                 {$$ = TrCreateLeafOp (PARSEOP_ENDIAN_BIG);}
  ;

FlowControlKeyword
  : PARSEOP_FLOWCONTROL_HW             {$$ = TrCreateLeafOp (PARSEOP_FLOWCONTROL_HW);}
  | PARSEOP_FLOWCONTROL_NONE           {$$ = TrCreateLeafOp
(PARSEOP_FLOWCONTROL_NONE);}
  | PARSEOP_FLOWCONTROL_SW             {$$ = TrCreateLeafOp (PARSEOP_FLOWCONTROL_SW);}
  ;

InterruptLevel
  : PARSEOP_INTLEVEL_ACTIVEBOTH        {$$ = TrCreateLeafOp
(PARSEOP_INTLEVEL_ACTIVEBOTH);}
  | PARSEOP_INTLEVEL_ACTIVEHIGH        {$$ = TrCreateLeafOp
(PARSEOP_INTLEVEL_ACTIVEHIGH);}
  | PARSEOP_INTLEVEL_ACTIVELOW         {$$ = TrCreateLeafOp
(PARSEOP_INTLEVEL_ACTIVELOW);}
   ;
```

```
InterruptTypeKeyword
  : PARSEOP_INTTYPE_EDGE              {$$ = TrCreateLeafOp (PARSEOP_INTTYPE_EDGE);}
  | PARSEOP_INTTYPE_LEVEL             {$$ = TrCreateLeafOp (PARSEOP_INTTYPE_LEVEL);}
  ;

IODecodeKeyword
  : PARSEOP_IODECODETYPE_16           {$$ = TrCreateLeafOp (PARSEOP_IODECODETYPE_16);}
  | PARSEOP_IODECODETYPE_10           {$$ = TrCreateLeafOp (PARSEOP_IODECODETYPE_10);}
  ;

IoRestrictionKeyword
  : PARSEOP_IORESTRICT_IN             {$$ = TrCreateLeafOp (PARSEOP_IORESTRICT_IN);}
  | PARSEOP_IORESTRICT_OUT            {$$ = TrCreateLeafOp (PARSEOP_IORESTRICT_OUT);}
  | PARSEOP_IORESTRICT_NONE           {$$ = TrCreateLeafOp (PARSEOP_IORESTRICT_NONE);}
  | PARSEOP_IORESTRICT_PRESERVE       {$$ = TrCreateLeafOp
(PARSEOP_IORESTRICT_PRESERVE);}
  ;

LockRuleKeyword
  : PARSEOP_LOCKRULE_LOCK             {$$ = TrCreateLeafOp (PARSEOP_LOCKRULE_LOCK);}
  | PARSEOP_LOCKRULE_NOLOCK           {$$ = TrCreateLeafOp
 (PARSEOP_LOCKRULE_NOLOCK);}
  ;

MatchOpKeyword
  : PARSEOP_MATCHTYPE_MTR             {$$ = TrCreateLeafOp (PARSEOP_MATCHTYPE_MTR);}
  | PARSEOP_MATCHTYPE_MEQ             {$$ = TrCreateLeafOp (PARSEOP_MATCHTYPE_MEQ);}
  | PARSEOP_MATCHTYPE_MLE             {$$ = TrCreateLeafOp (PARSEOP_MATCHTYPE_MLE);}
  | PARSEOP_MATCHTYPE_MLT             {$$ = TrCreateLeafOp (PARSEOP_MATCHTYPE_MLT);}
  | PARSEOP_MATCHTYPE_MGE             {$$ = TrCreateLeafOp (PARSEOP_MATCHTYPE_MGE);}
  | PARSEOP_MATCHTYPE_MGT             {$$ = TrCreateLeafOp (PARSEOP_MATCHTYPE_MGT);}
  ;

MaxKeyword
  : PARSEOP_MAXTYPE_FIXED             {$$ = TrCreateLeafOp (PARSEOP_MAXTYPE_FIXED);}
  | PARSEOP_MAXTYPE_NOTFIXED          {$$ = TrCreateLeafOp (PARSEOP_MAXTYPE_NOTFIXED);}
  ;

MemTypeKeyword
  : PARSEOP_MEMTYPE_CACHEABLE         {$$ = TrCreateLeafOp
(PARSEOP_MEMTYPE_CACHEABLE);}
  | PARSEOP_MEMTYPE_WRITECOMBINING    {$$ = TrCreateLeafOp
(PARSEOP_MEMTYPE_WRITECOMBINING);}
   | PARSEOP_MEMTYPE_PREFETCHABLE     {$$ = TrCreateLeafOp
(PARSEOP_MEMTYPE_PREFETCHABLE);}
  | PARSEOP_MEMTYPE_NONCACHEABLE      {$$ = TrCreateLeafOp
(PARSEOP_MEMTYPE_NONCACHEABLE);}
  ;
```

```
MinKeyword
  : PARSEOP_MINTYPE_FIXED             {$$ = TrCreateLeafOp (PARSEOP_MINTYPE_FIXED);}
  | PARSEOP_MINTYPE_NOTFIXED          {$$ = TrCreateLeafOp (PARSEOP_MINTYPE_NOTFIXED);}
  ;

ObjectTypeKeyword
  : PARSEOP_OBJECTTYPE_UNK            {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_UNK);}
  | PARSEOP_OBJECTTYPE_INT            {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_INT);}
  | PARSEOP_OBJECTTYPE_STR            {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_STR);}
  | PARSEOP_OBJECTTYPE_BUF            {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_BUF);}
  | PARSEOP_OBJECTTYPE_PKG            {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_PKG);}
  | PARSEOP_OBJECTTYPE_FLD            {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_FLD);}
  | PARSEOP_OBJECTTYPE_DEV            {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_DEV);}
  | PARSEOP_OBJECTTYPE_EVT            {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_EVT);}
  | PARSEOP_OBJECTTYPE_MTH            {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_MTH);}
  | PARSEOP_OBJECTTYPE_MTX            {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_MTX);}
  | PARSEOP_OBJECTTYPE_OPR            {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_OPR);}
  | PARSEOP_OBJECTTYPE_POW            {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_POW);}
  | PARSEOP_OBJECTTYPE_PRO            {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_PRO);}
  | PARSEOP_OBJECTTYPE_THZ            {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_THZ);}
  | PARSEOP_OBJECTTYPE_BFF            {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_BFF);}
  | PARSEOP_OBJECTTYPE_DDB            {$$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE_DDB);}
  ;

ParityTypeKeyword
  : PARSEOP_PARITYTYPE_SPACE          {$$ = TrCreateLeafOp
 (PARSEOP_PARITYTYPE_SPACE);}
  | PARSEOP_PARITYTYPE_MARK           {$$ = TrCreateLeafOp (PARSEOP_PARITYTYPE_MARK);}
  | PARSEOP_PARITYTYPE_ODD            {$$ = TrCreateLeafOp (PARSEOP_PARITYTYPE_ODD);}
  | PARSEOP_PARITYTYPE_EVEN           {$$ = TrCreateLeafOp (PARSEOP_PARITYTYPE_EVEN);}
  | PARSEOP_PARITYTYPE_NONE           {$$ = TrCreateLeafOp (PARSEOP_PARITYTYPE_NONE);}
  ;

PinConfigByte
  : PinConfigKeyword                  {$$ = $1;}
  | ByteConstExpr                     {$$ = UtCheckIntegerRange ($1, 0x80, 0xFF);}
  ;

PinConfigKeyword
  : PARSEOP_PIN_NOPULL                {$$ = TrCreateLeafOp (PARSEOP_PIN_NOPULL);}
  | PARSEOP_PIN_PULLDOWN              {$$ = TrCreateLeafOp (PARSEOP_PIN_PULLDOWN);}
  | PARSEOP_PIN_PULLUP                {$$ = TrCreateLeafOp (PARSEOP_PIN_PULLUP);}
  | PARSEOP_PIN_PULLDEFAULT           {$$ = TrCreateLeafOp (PARSEOP_PIN_PULLDEFAULT);}
  ;

PldKeyword
  : PARSEOP_PLD_REVISION
```

```
            {$$ = TrCreateLeafOp (PARSEOP_PLD_REVISION);}
  | PARSEOP_PLD_IGNORECOLOR          {$$ = TrCreateLeafOp (PARSEOP_PLD_IGNORECOLOR);}
  | PARSEOP_PLD_RED                 {$$ = TrCreateLeafOp (PARSEOP_PLD_RED);}
  | PARSEOP_PLD_GREEN               {$$ = TrCreateLeafOp (PARSEOP_PLD_GREEN);}
  | PARSEOP_PLD_BLUE                {$$ = TrCreateLeafOp (PARSEOP_PLD_BLUE);}
  | PARSEOP_PLD_WIDTH               {$$ = TrCreateLeafOp (PARSEOP_PLD_WIDTH);}
  | PARSEOP_PLD_HEIGHT              {$$ = TrCreateLeafOp (PARSEOP_PLD_HEIGHT);}
  | PARSEOP_PLD_USERVISIBLE         {$$ = TrCreateLeafOp (PARSEOP_PLD_USERVISIBLE);}
  | PARSEOP_PLD_DOCK                {$$ = TrCreateLeafOp (PARSEOP_PLD_DOCK);}
  | PARSEOP_PLD_LID                 {$$ = TrCreateLeafOp (PARSEOP_PLD_LID);}
  | PARSEOP_PLD_PANEL               {$$ = TrCreateLeafOp (PARSEOP_PLD_PANEL);}
  | PARSEOP_PLD_VERTICALPOSITION    {$$ = TrCreateLeafOp
 (PARSEOP_PLD_VERTICALPOSITION);}
  | PARSEOP_PLD_HORIZONTALPOSITION  {$$ = TrCreateLeafOp
(PARSEOP_PLD_HORIZONTALPOSITION);}
  | PARSEOP_PLD_SHAPE               {$$ = TrCreateLeafOp (PARSEOP_PLD_SHAPE);}
  | PARSEOP_PLD_GROUPORIENTATION    {$$ = TrCreateLeafOp
(PARSEOP_PLD_GROUPORIENTATION);}
  | PARSEOP_PLD_GROUPTOKEN          {$$ = TrCreateLeafOp (PARSEOP_PLD_GROUPTOKEN);}
  | PARSEOP_PLD_GROUPPOSITION       {$$ = TrCreateLeafOp (PARSEOP_PLD_GROUPPOSITION);}
  | PARSEOP_PLD_BAY                 {$$ = TrCreateLeafOp (PARSEOP_PLD_BAY);}
  | PARSEOP_PLD_EJECTABLE           {$$ = TrCreateLeafOp (PARSEOP_PLD_EJECTABLE);}
  | PARSEOP_PLD_EJECTREQUIRED       {$$ = TrCreateLeafOp (PARSEOP_PLD_EJECTREQUIRED);}
  | PARSEOP_PLD_CABINETNUMBER       {$$ = TrCreateLeafOp
(PARSEOP_PLD_CABINETNUMBER);}
  | PARSEOP_PLD_CARDCAGENUMBER      {$$ = TrCreateLeafOp
(PARSEOP_PLD_CARDCAGENUMBER);}
  | PARSEOP_PLD_REFERENCE
            {$$ = TrCreateLeafOp (PARSEOP_PLD_REFERENCE);}
  | PARSEOP_PLD_ROTATION            {$$ = TrCreateLeafOp (PARSEOP_PLD_ROTATION);}
  | PARSEOP_PLD_ORDER               {$$ = TrCreateLeafOp (PARSEOP_PLD_ORDER);}
  | PARSEOP_PLD_RESERVED            {$$ = TrCreateLeafOp (PARSEOP_PLD_RESERVED);}
  | PARSEOP_PLD_VERTICALOFFSET      {$$ = TrCreateLeafOp (PARSEOP_PLD_VERTICALOFFSET);}
  | PARSEOP_PLD_HORIZONTALOFFSET    {$$ = TrCreateLeafOp
(PARSEOP_PLD_HORIZONTALOFFSET);}
  ;

RangeTypeKeyword
  : PARSEOP_RANGETYPE_ISAONLY       {$$ = TrCreateLeafOp (PARSEOP_RANGETYPE_ISAONLY);}
  | PARSEOP_RANGETYPE_NONISAONLY    {$$ = TrCreateLeafOp
(PARSEOP_RANGETYPE_NONISAONLY);}
  | PARSEOP_RANGETYPE_ENTIRE        {$$ = TrCreateLeafOp (PARSEOP_RANGETYPE_ENTIRE);}
  ;

RegionSpaceKeyword
  : PARSEOP_REGIONSPACE_IO          {$$ = TrCreateLeafOp (PARSEOP_REGIONSPACE_IO);}
  | PARSEOP_REGIONSPACE_MEM
```

```
  {$$ = TrCreateLeafOp (PARSEOP_REGIONSPACE_MEM);}
  | PARSEOP_REGIONSPACE_PCI            {$$ = TrCreateLeafOp (PARSEOP_REGIONSPACE_PCI);}
  | PARSEOP_REGIONSPACE_EC             {$$ = TrCreateLeafOp (PARSEOP_REGIONSPACE_EC);}
  | PARSEOP_REGIONSPACE_SMBUS          {$$ = TrCreateLeafOp (PARSEOP_REGIONSPACE_SMBUS);}
  | PARSEOP_REGIONSPACE_CMOS           {$$ = TrCreateLeafOp (PARSEOP_REGIONSPACE_CMOS);}
  | PARSEOP_REGIONSPACE_PCIBAR         {$$ = TrCreateLeafOp
(PARSEOP_REGIONSPACE_PCIBAR);}
  | PARSEOP_REGIONSPACE_IPMI           {$$ = TrCreateLeafOp (PARSEOP_REGIONSPACE_IPMI);}
  | PARSEOP_REGIONSPACE_GPIO           {$$ = TrCreateLeafOp (PARSEOP_REGIONSPACE_GPIO);}
  | PARSEOP_REGIONSPACE_GSBUS          {$$ = TrCreateLeafOp (PARSEOP_REGIONSPACE_GSBUS);}
  | PARSEOP_REGIONSPACE_PCC            {$$ = TrCreateLeafOp (PARSEOP_REGIONSPACE_PCC);}
  | PARSEOP_REGIONSPACE_PRM            {$$ = TrCreateLeafOp (PARSEOP_REGIONSPACE_PRM);}
  | PARSEOP_REGIONSPACE_FFIXEDHW
      {$$ = TrCreateLeafOp (PARSEOP_REGIONSPACE_FFIXEDHW);}
  ;

ResourceTypeKeyword
  : PARSEOP_RESOURCETYPE_CONSUMER      {$$ = TrCreateLeafOp
(PARSEOP_RESOURCETYPE_CONSUMER);}
  | PARSEOP_RESOURCETYPE_PRODUCER      {$$ = TrCreateLeafOp
(PARSEOP_RESOURCETYPE_PRODUCER);}
  ;

SerializeRuleKeyword
  : PARSEOP_SERIALIZERULE_SERIAL       {$$ = TrCreateLeafOp
(PARSEOP_SERIALIZERULE_SERIAL);}
  | PARSEOP_SERIALIZERULE_NOTSERIAL    {$$ = TrCreateLeafOp
(PARSEOP_SERIALIZERULE_NOTSERIAL);}
  ;

ShareTypeKeyword
  : PARSEOP_SHARETYPE_SHARED           {$$ = TrCreateLeafOp (PARSEOP_SHARETYPE_SHARED);}
  | PARSEOP_SHARETYPE_EXCLUSIVE        {$$ = TrCreateLeafOp
(PARSEOP_SHARETYPE_EXCLUSIVE);}
  | PARSEOP_SHARETYPE_SHAREDWAKE       {$$ = TrCreateLeafOp
(PARSEOP_SHARETYPE_SHAREDWAKE);}
  | PARSEOP_SHARETYPE_EXCLUSIVEWAKE    {$$ = TrCreateLeafOp
(PARSEOP_SHARETYPE_EXCLUSIVEWAKE);}
  ;

SlaveModeKeyword
  : PARSEOP_SLAVEMODE_CONTROLLERINIT
    {$$ = TrCreateLeafOp (PARSEOP_SLAVEMODE_CONTROLLERINIT);}
  | PARSEOP_SLAVEMODE_DEVICEINIT       {$$ = TrCreateLeafOp
(PARSEOP_SLAVEMODE_DEVICEINIT);}
  ;

StopBitsKeyword
```

```
  : PARSEOP_STOPBITS_TWO              {$$ = TrCreateLeafOp (PARSEOP_STOPBITS_TWO);}
  | PARSEOP_STOPBITS_ONEPLUSHALF      {$$ = TrCreateLeafOp
(PARSEOP_STOPBITS_ONEPLUSHALF);}
  | PARSEOP_STOPBITS_ONE              {$$ = TrCreateLeafOp (PARSEOP_STOPBITS_ONE);}
  | PARSEOP_STOPBITS_ZERO             {$$ = TrCreateLeafOp (PARSEOP_STOPBITS_ZERO);}
  ;

TranslationKeyword
  : PARSEOP_TRANSLATIONTYPE_SPARSE    {$$ = TrCreateLeafOp
(PARSEOP_TRANSLATIONTYPE_SPARSE);}
  | PARSEOP_TRANSLATIONTYPE_DENSE     {$$ = TrCreateLeafOp
(PARSEOP_TRANSLATIONTYPE_DENSE);}
  ;

TypeKeyword
  : PARSEOP_TYPE_TRANSLATION          {$$ = TrCreateLeafOp (PARSEOP_TYPE_TRANSLATION);}
  | PARSEOP_TYPE_STATIC               {$$ = TrCreateLeafOp (PARSEOP_TYPE_STATIC);}

 ;

UpdateRuleKeyword
  : PARSEOP_UPDATERULE_PRESERVE       {$$ = TrCreateLeafOp
(PARSEOP_UPDATERULE_PRESERVE);}
  | PARSEOP_UPDATERULE_ONES           {$$ = TrCreateLeafOp (PARSEOP_UPDATERULE_ONES);}
  | PARSEOP_UPDATERULE_ZEROS          {$$ = TrCreateLeafOp (PARSEOP_UPDATERULE_ZEROS);}
  ;

WireModeKeyword
  : PARSEOP_WIREMODE_FOUR             {$$ = TrCreateLeafOp (PARSEOP_WIREMODE_FOUR);}
  | PARSEOP_WIREMODE_THREE            {$$ = TrCreateLeafOp (PARSEOP_WIREMODE_THREE);}
  ;

XferSizeKeyword
  : PARSEOP_XFERSIZE_8                {$$ = TrCreateValuedLeafOp (PARSEOP_XFERSIZE_8,   0);}
  | PARSEOP_XFERSIZE_16               {$$ = TrCreateValuedLeafOp (PARSEOP_XFERSIZE_16,  1);}
  | PARSEOP_XFERSIZE_32               {$$ = TrCreateValuedLeafOp (PARSEOP_XFERSIZE_32,  2);}
  | PARSEOP_XFERSIZE_64               {$$ = TrCreateValuedLeafOp (PARSEOP_XFERSIZE_64,  3);}
  | PARSEOP_XFERSIZE_128              {$$ = TrCreateValuedLeafOp
 (PARSEOP_XFERSIZE_128, 4);}
  | PARSEOP_XFERSIZE_256              {$$ = TrCreateValuedLeafOp (PARSEOP_XFERSIZE_256, 5);}
  ;

XferTypeKeyword
  : PARSEOP_XFERTYPE_8                {$$ = TrCreateLeafOp (PARSEOP_XFERTYPE_8);}
  | PARSEOP_XFERTYPE_8_16             {$$ = TrCreateLeafOp (PARSEOP_XFERTYPE_8_16);}
  | PARSEOP_XFERTYPE_16               {$$ = TrCreateLeafOp (PARSEOP_XFERTYPE_16);}
  ;
```

Found in path(s):
* /acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/aslkeywords.y
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```
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*
* Module Name: prparser.y - Bison input file for preprocessor parser
*
*****************************************************************************/

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*
*****************************************************************************/

#include "aslcompiler.h"

#define _COMPONENT          ASL_PREPROCESSOR
      ACPI_MODULE_NAME    ("prparser")

void *                  AslLocalAllocate (unsigned int Size);

/* Bison/yacc configuration */

#undef alloca
#define alloca              AslLocalAllocate

int                     PrParserlex (void);
int                     PrParserparse (void);
void                    PrParsererror (char const *msg);
extern char             *PrParsertext;

UINT64                  PrParserResult; /* Expression return value */

/* Bison/yacc configuration
 */

#define yytname             PrParsername
#define YYDEBUG             1           /* Enable debug output */
#define YYERROR_VERBOSE     1           /* Verbose error messages */
#define YYFLAG              -32768

/* Define YYMALLOC/YYFREE to prevent redefinition errors  */
```

```
#define YYMALLOC        malloc
#define YYFREE          free
%}

%union
{
   UINT64           value;
   UINT32           op;
   char             *str;
}

/*! [Begin] no source code translation */

%type  <value>  Expression

%token <op>    EXPOP_EOF
%token <op>    EXPOP_NEW_LINE
%token <op>    EXPOP_NUMBER
%token <op>    EXPOP_HEX_NUMBER
%token <op>    EXPOP_RESERVED1
%token <op>    EXPOP_RESERVED2
%token <op>    EXPOP_PAREN_OPEN
%token <op>    EXPOP_PAREN_CLOSE

%left <op>     EXPOP_LOGICAL_OR
%left <op>     EXPOP_LOGICAL_AND
%left <op>     EXPOP_OR
%left <op>     EXPOP_XOR
%left <op>     EXPOP_AND
%left <op>     EXPOP_EQUAL EXPOP_NOT_EQUAL
%left <op>
    EXPOP_GREATER EXPOP_LESS EXPOP_GREATER_EQUAL EXPOP_LESS_EQUAL
%left <op>     EXPOP_SHIFT_RIGHT EXPOP_SHIFT_LEFT
%left <op>     EXPOP_ADD EXPOP_SUBTRACT
%left <op>     EXPOP_MULTIPLY EXPOP_DIVIDE EXPOP_MODULO
%right <op>    EXPOP_ONES_COMPLIMENT EXPOP_LOGICAL_NOT

/* Tokens above must be kept in synch with dtparser.y */

%token <op>    EXPOP_DEFINE
%token <op>    EXPOP_IDENTIFIER

%%

/*
*  Operator precedence rules (from K&R)
*
*  1)     ( )
```

```
* 2)     ! ~ (unary operators that are supported here)
* 3)     *  /  %
* 4)     +  -
* 5)     >>  <<
* 6)     <  >  <=  >=
* 7)     ==  !=
* 8)     &
* 9)     ^
* 10)    |
* 11)    &&
* 12)    ||
*/

/*! [End] no source code translation !*/

Value
  : Expression EXPOP_NEW_LINE                { PrParserResult=$1; return 0; } /* End of line (newline) */
  | Expression EXPOP_EOF                     { PrParserResult=$1; return 0; } /* End of string (0) */
  ;

Expression

    /*
 Unary operators */

  : EXPOP_LOGICAL_NOT        Expression        { $$ = DtDoOperator ($2, EXPOP_LOGICAL_NOT,     $2);}
  | EXPOP_ONES_COMPLIMENT    Expression        { $$ = DtDoOperator ($2,
EXPOP_ONES_COMPLIMENT, $2);}

    /* Binary operators */

  | Expression EXPOP_MULTIPLY        Expression  { $$ = DtDoOperator ($1, EXPOP_MULTIPLY,        $3);}
  | Expression EXPOP_DIVIDE          Expression  { $$ = DtDoOperator ($1, EXPOP_DIVIDE,          $3);}
  | Expression EXPOP_MODULO          Expression  { $$ = DtDoOperator ($1, EXPOP_MODULO,          $3);}
  | Expression EXPOP_ADD             Expression  { $$ = DtDoOperator ($1, EXPOP_ADD,             $3);}
  | Expression EXPOP_SUBTRACT        Expression  { $$ = DtDoOperator ($1, EXPOP_SUBTRACT,        $3);}
  | Expression EXPOP_SHIFT_RIGHT     Expression  { $$ = DtDoOperator ($1, EXPOP_SHIFT_RIGHT,     $3);}
  | Expression EXPOP_SHIFT_LEFT      Expression  { $$ = DtDoOperator ($1, EXPOP_SHIFT_LEFT,
 $3);}
  | Expression EXPOP_GREATER         Expression  { $$ = DtDoOperator ($1, EXPOP_GREATER,         $3);}
  | Expression EXPOP_LESS            Expression  { $$ = DtDoOperator ($1, EXPOP_LESS,            $3);}
  | Expression EXPOP_GREATER_EQUAL   Expression  { $$ = DtDoOperator ($1,
EXPOP_GREATER_EQUAL,   $3);}
  | Expression EXPOP_LESS_EQUAL      Expression  { $$ = DtDoOperator ($1, EXPOP_LESS_EQUAL,
$3);}
  | Expression EXPOP_EQUAL           Expression  { $$ = DtDoOperator ($1, EXPOP_EQUAL,           $3);}
  | Expression EXPOP_NOT_EQUAL       Expression  { $$ = DtDoOperator ($1, EXPOP_NOT_EQUAL,
$3);}
```

```
  | Expression EXPOP_AND            Expression  { $$ = DtDoOperator ($1, EXPOP_AND,           $3);}
  | Expression EXPOP_XOR            Expression  { $$ = DtDoOperator ($1, EXPOP_XOR,           $3);}
  | Expression EXPOP_OR             Expression  { $$ = DtDoOperator ($1, EXPOP_OR,            $3);}
  | Expression EXPOP_LOGICAL_AND
 Expression  { $$ = DtDoOperator ($1, EXPOP_LOGICAL_AND,    $3);}
  | Expression EXPOP_LOGICAL_OR      Expression  { $$ = DtDoOperator ($1, EXPOP_LOGICAL_OR,
$3);}

    /* Parentheses: '(' Expression ')' */

  | EXPOP_PAREN_OPEN        Expression
    EXPOP_PAREN_CLOSE                   { $$ = $2;}

    /* #if defined (ID) or #if defined ID */

  | EXPOP_DEFINE EXPOP_PAREN_OPEN EXPOP_IDENTIFIER
    EXPOP_PAREN_CLOSE                   { $$ = PrIsDefined (PrParserlval.str);}

  | EXPOP_DEFINE EXPOP_IDENTIFIER             { $$ = PrIsDefined (PrParserlval.str);}

  | EXPOP_IDENTIFIER                  { $$ = PrResolveDefine (PrParserlval.str);}

    /* Default base for a non-prefixed integer is 10 */

  | EXPOP_NUMBER                      { AcpiUtStrtoul64 (PrParsertext, &$$);}

    /* Standard hex number (0x1234) */

  | EXPOP_HEX_NUMBER                  { AcpiUtStrtoul64 (PrParsertext, &$$);}

 ;
%%

/*
* Local support functions, including parser entry point
*/
#define PR_FIRST_PARSE_OPCODE   EXPOP_EOF
#define PR_YYTNAME_START        3


/*******************************************************************************
*
* FUNCTION:    PrParsererror
*
* PARAMETERS:  Message             - Parser-generated error message
*
* RETURN:      None
*
```

```
* DESCRIPTION: Handler for parser errors
*
*****************************************************************************/

void
PrParsererror (
  char const             *Message)
{

  sprintf (AslGbl_StringBuffer, "Preprocessor Parser : %s (near line %u)",
     Message, AslGbl_CurrentLineNumber);
  DtError (ASL_ERROR, ASL_MSG_SYNTAX,
     NULL, (char *) AslGbl_StringBuffer);
}


/*****************************************************************************
*
* FUNCTION:    PrGetOpName
*
* PARAMETERS:  ParseOpcode         - Parser token (EXPOP_*)
*
* RETURN:      Pointer to the opcode name
*
* DESCRIPTION: Get
 the ascii name of the parse opcode for debug output
*
*****************************************************************************/

char *
PrGetOpName (
  UINT32                 ParseOpcode)
{
#ifdef ASL_YYTNAME_START
  /*
   * First entries (PR_YYTNAME_START) in yytname are special reserved names.
   * Ignore first 6 characters of name (EXPOP_)
   */
  return ((char *) yytname
     [(ParseOpcode - PR_FIRST_PARSE_OPCODE) + PR_YYTNAME_START] + 6);
#else
  return ("[Unknown parser generator]");
#endif
}


/*****************************************************************************
*
```

```
* FUNCTION:    PrEvaluateExpression
*
* PARAMETERS:  ExprString          - Expression to be evaluated. Must be
*                                    terminated by either a newline or a NUL
*                                    string terminator
*
* RETURN:      64-bit value for the expression
*
* DESCRIPTION: Main entry point for the DT expression parser
*
*****************************************************************************/

UINT64
PrEvaluateExpression
(
  char                *ExprString)
{

  DbgPrint (ASL_DEBUG_OUTPUT,
     "**** Input expression: %s\n", ExprString);

  /* Point lexer to the input string */

  if (PrInitLexer (ExprString))
  {
     DtError (ASL_ERROR, ASL_MSG_COMPILER_INTERNAL,
        NULL, "Could not initialize lexer");
     return (0);
  }

  /* Parse/Evaluate the input string (value returned in PrParserResult) */

  PrParserparse ();
  PrTerminateLexer ();

  DbgPrint (ASL_DEBUG_OUTPUT,
     "**** Parser returned value: %u (%8.8X%8.8X)\n",
     (UINT32) PrParserResult, ACPI_FORMAT_UINT64 (PrParserResult));

  return (PrParserResult);
}

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* /acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/prparser.y
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```

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*****************************************************************************/
/*****************************************************************************
*
* SLIC - Software Licensing Description Table. This table contains the standard
* ACPI header followed by proprietary data structures
*
*****************************************************************************/
/* Single subtable, a proprietary format, so treat it as a buffer */
```

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

```
%{
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*
* Module Name: aslcompiler.l - Flex/lex input file
*
*****************************************************************************/

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*
***/

#include "aslcompiler.h"
#include "aslcompiler.y.h"
#include "acconvert.h"

#include <stdlib.h>
#include <string.h>

/*
* Generation: Use the following command line:
*
* flex.exe -PAslCompiler -i -o$(InputPath).c $(InputPath)
*
* -i: Scanner must be case-insensitive
*/

```
#define _COMPONENT          ACPI_COMPILER
      ACPI_MODULE_NAME    ("aslscanner")


/* Local prototypes */

static void
AslDoLineDirective (void);

static BOOLEAN
AslDoComment (void);

static BOOLEAN
AslDoCommentType2 (void);

static char
AslDoStringLiteral (void);

static void
count (int type);


/*! [Begin]
 no source code translation */

%}
  /* Definitions */

LeadNameChar            [A-Za-z_]
DigitChar               [0-9]
ErrorCode               [(][ ]*[1-9][0-9][0-9][0-9][ ]*[)]
OctalChar               [0-7]
HexDigitChar              [A-Fa-f0-9]
RootChar                [\\]
Nothing                 []

NameChar                [A-Za-z_0-9]
NameSeg1                {LeadNameChar}{NameChar}
NameSeg2                {LeadNameChar}{NameChar}{NameChar}
NameSeg3                {LeadNameChar}{NameChar}{NameChar}{NameChar}
NameSeg                 {LeadNameChar}|{NameSeg1}|{NameSeg2}|{NameSeg3}

NameString              {RootChar}|{RootChar}{NamePath}|[\^]+{NamePath}|{NonEmptyNamePath}
NamePath                {NonEmptyNamePath}?
NonEmptyNamePath            {NameSeg}{NamePathTail}*
NamePathTail              [.]{NameSeg}

%%
```

```
  /* Rules */

[ ]                     { count (0); }
[\n]                    { count (0); } /* Handle files
 with both LF and CR/LF */
[\r]                    { count (0); } /* termination on both Unix and Windows */
[ \t]                   { count (0); }


"/*"                    { if (!AslDoComment ()) {yyterminate ();} }
"//"                    { if (!AslDoCommentType2 ()) {yyterminate ();} }

"\""                    { if (AslDoStringLiteral ()) {return (PARSEOP_STRING_LITERAL);}
                        else {yyterminate ();} }
";"                     { count (0); return(';'); }

  /* ASL Extension: Standard C operators */

"~"                     { count (3); return (PARSEOP_EXP_NOT); }
"!"                     { count (3); return (PARSEOP_EXP_LOGICAL_NOT); }
"*"                     { count (3); return (PARSEOP_EXP_MULTIPLY); }
"/"                     { count (3); return (PARSEOP_EXP_DIVIDE); }
"%"                     { count (3); return (PARSEOP_EXP_MODULO); }
"+"                     { count (3); return (PARSEOP_EXP_ADD); }
"-"
                    { count (3); return (PARSEOP_EXP_SUBTRACT); }
">>"                    { count (3); return (PARSEOP_EXP_SHIFT_RIGHT); }
"<<"                    { count (3); return (PARSEOP_EXP_SHIFT_LEFT); }
"<"                     { count (3); return (PARSEOP_EXP_LESS); }
">"                     { count (3); return (PARSEOP_EXP_GREATER); }
"&"                     { count (3); return (PARSEOP_EXP_AND); }
"<="                    { count (3); return (PARSEOP_EXP_LESS_EQUAL); }
">="                    { count (3); return (PARSEOP_EXP_GREATER_EQUAL); }
"=="                    { count (3); return (PARSEOP_EXP_EQUAL); }
"!="                    { count (3); return (PARSEOP_EXP_NOT_EQUAL); }
"|"                     { count (3); return (PARSEOP_EXP_OR); }
"&&"                    { count (3); return (PARSEOP_EXP_LOGICAL_AND); }
"||"                    { count (3); return (PARSEOP_EXP_LOGICAL_OR); }
"++"                    { count (3); return
 (PARSEOP_EXP_INCREMENT); }
"--"                    { count (3); return (PARSEOP_EXP_DECREMENT); }
"^ "                    { count (3); return (PARSEOP_EXP_XOR); }

  /* ASL Extension: Standard C assignment operators */

"="                     { count (3); return (PARSEOP_EXP_EQUALS); }
"+="                    { count (3); return (PARSEOP_EXP_ADD_EQ); }
"-="                    { count (3); return (PARSEOP_EXP_SUB_EQ); }
```

```
"*="                    { count (3); return (PARSEOP_EXP_MUL_EQ); }
"/="                    { count (3); return (PARSEOP_EXP_DIV_EQ); }
"%="                    { count (3); return (PARSEOP_EXP_MOD_EQ); }
"<<="                   { count (3); return (PARSEOP_EXP_SHL_EQ); }
">>="                   { count (3); return (PARSEOP_EXP_SHR_EQ); }
"&="                    { count (3); return (PARSEOP_EXP_AND_EQ); }
"^="                    { count (3); return (PARSEOP_EXP_XOR_EQ); }
"|="                    { count (3); return
 (PARSEOP_EXP_OR_EQ); }

"["                     { count (3); return (PARSEOP_EXP_INDEX_LEFT); }
"]"                     { count (0); return (PARSEOP_EXP_INDEX_RIGHT); }
"("                     { count (0); return (PARSEOP_OPEN_PAREN); }
")"                     { count (0); return (PARSEOP_CLOSE_PAREN); }

"{"                     { count (0); return ('{'); }
"}"                     { count (0); return ('}'); }
","                     { count (0); return (','); }


  /*
   * Begin standard ASL grammar
   */
[0-9][a-zA-Z0-9]*           { count (1); AslCompilerlval.i = UtDoConstant ((char *) AslCompilertext);
                        return (PARSEOP_INTEGER); }

"Include"               { count (1); return (PARSEOP_INCLUDE); }
"External"              { count (1); return (PARSEOP_EXTERNAL); }

/*
 * The #line directive is emitted by the preprocessor and handled
 * here in the main iASL lexer - simply set the line number and
 * optionally
 the current filename.
 */
"#line"                 { AslDoLineDirective ();}


/******************************************************************************
 *
 * Main ASL operators
 *
 *****************************************************************************/

"AccessAs"              { count (1); return (PARSEOP_ACCESSAS); }
"Acquire"               { count (3); return (PARSEOP_ACQUIRE); }
"Add"                   { count (3); return (PARSEOP_ADD); }
"Alias"                 { count (2); return (PARSEOP_ALIAS); }
```

```
"And"                   { count (3); return (PARSEOP_AND); }
"BankField"               { count (2); return (PARSEOP_BANKFIELD); }
"Break"                 { count (3); return (PARSEOP_BREAK); }
"BreakPoint"              { count (3); return (PARSEOP_BREAKPOINT); }
"Buffer"                { count (1); return (PARSEOP_BUFFER); }
"Case"                  { count (3); return (PARSEOP_CASE); }
"Concatenate"             { count (3); return
 (PARSEOP_CONCATENATE); }
"ConcatenateResTemplate"    { count (3); return (PARSEOP_CONCATENATERESTEMPLATE); }
"CondRefOf"               { count (3); return (PARSEOP_CONDREFOF); }
"Connection"              { count (2); return (PARSEOP_CONNECTION); }
"Continue"                { count (3); return (PARSEOP_CONTINUE); }
"CopyObject"              { count (3); return (PARSEOP_COPYOBJECT); }
"CreateBitField"          { count (2); return (PARSEOP_CREATEBITFIELD); }
"CreateByteField"          { count (2); return (PARSEOP_CREATEBYTEFIELD); }
"CreateDWordField"          { count (2); return (PARSEOP_CREATEDWORDFIELD); }
"CreateField"             { count (2); return (PARSEOP_CREATEFIELD); }
"CreateQWordField"          { count (2); return (PARSEOP_CREATEQWORDFIELD); }
"CreateWordField"          { count (2); return (PARSEOP_CREATEWORDFIELD); }
"DataTableRegion"          { count (2); return (PARSEOP_DATATABLEREGION); }
"Debug"                 { count (1); return (PARSEOP_DEBUG);
 }
"Decrement"               { count (3); return (PARSEOP_DECREMENT); }
"Default"                 { count (3); return (PARSEOP_DEFAULT); }
"DefinitionBlock"           { count (1); return (PARSEOP_DEFINITION_BLOCK); }
"DeRefOf"                 { count (3); return (PARSEOP_DEREFOF); }
"Device"                  { count (2); return (PARSEOP_DEVICE); }
"Divide"                  { count (3); return (PARSEOP_DIVIDE); }
"Eisaid"                { count (1); return (PARSEOP_EISAID); }
"Else"                  { count (3); return (PARSEOP_ELSE); }
"ElseIf"                  { count (3); return (PARSEOP_ELSEIF); }
"Event"                   { count (2); return (PARSEOP_EVENT); }
"Fatal"                 { count (3); return (PARSEOP_FATAL); }
"Field"                 { count (2); return (PARSEOP_FIELD); }
"FindSetLeftBit"          { count (3); return (PARSEOP_FINDSETLEFTBIT); }
"FindSetRightBit"          { count (3); return (PARSEOP_FINDSETRIGHTBIT); }
"FromBcd"
        { count (3); return (PARSEOP_FROMBCD); }
"Function"                { count (2); return (PARSEOP_FUNCTION); }
"If"                    { count (3); return (PARSEOP_IF); }
"Increment"               { count (3); return (PARSEOP_INCREMENT); }
"Index"                   { count (3); return (PARSEOP_INDEX); }
"IndexField"              { count (2); return (PARSEOP_INDEXFIELD); }
"LAnd"                    { count (3); return (PARSEOP_LAND); }
"LEqual"                  { count (3); return (PARSEOP_LEQUAL); }
"LGreater"                { count (3); return (PARSEOP_LGREATER); }
"LGreaterEqual"             { count (3); return (PARSEOP_LGREATEREQUAL); }
"LLess"                   { count (3); return (PARSEOP_LLESS); }
```

```
"LLessEqual"            { count (3); return (PARSEOP_LLESSEQUAL); }
"LNot"                  { count (3); return (PARSEOP_LNOT); }
"LNotEqual"             { count (3); return (PARSEOP_LNOTEQUAL); }
"Load"                  { count (3); return (PARSEOP_LOAD);
 }
"LoadTable"             { count (3); return (PARSEOP_LOADTABLE); }
"LOr"                   { count (3); return (PARSEOP_LOR); }
"Match"                 { count (3); return (PARSEOP_MATCH); }
"Method"                { count (2); return (PARSEOP_METHOD); }
"Mid"                   { count (3); return (PARSEOP_MID); }
"Mod"                   { count (3); return (PARSEOP_MOD); }
"Multiply"              { count (3); return (PARSEOP_MULTIPLY); }
"Mutex"                 { count (2); return (PARSEOP_MUTEX); }
"Name"                  { count (2); return (PARSEOP_NAME); }
"NAnd"                  { count (3); return (PARSEOP_NAND); }
"Noop"                  { if (!AcpiGbl_IgnoreNoopOperator) {count (3); return (PARSEOP_NOOP);} }
"NOr"                   { count (3); return (PARSEOP_NOR); }
"Not"                   { count (3); return (PARSEOP_NOT); }
"Notify"                { count (3); return (PARSEOP_NOTIFY); }
"ObjectType"
        { count (3); return (PARSEOP_OBJECTTYPE); }
"Offset"                { count (1); return (PARSEOP_OFFSET); }
"One"                   { count (1); return (PARSEOP_ONE); }
"Ones"                  { count (1); return (PARSEOP_ONES); }
"OperationRegion"       { count (2); return (PARSEOP_OPERATIONREGION); }
"Or"                    { count (3); return (PARSEOP_OR); }
"Package"               { count (1); return (PARSEOP_PACKAGE); }
"PowerResource"         { count (2); return (PARSEOP_POWERRESOURCE); }
"Processor"             { count (2); return (PARSEOP_PROCESSOR); }
"RefOf"                 { count (3); return (PARSEOP_REFOF); }
"Release"               { count (3); return (PARSEOP_RELEASE); }
"Reset"                 { count (3); return (PARSEOP_RESET); }
"Return"                { count (3); return (PARSEOP_RETURN); }
"Revision"              { count (1); return (PARSEOP_REVISION); }
"Scope"                 { count (2); return
 (PARSEOP_SCOPE); }
"ShiftLeft"             { count (3); return (PARSEOP_SHIFTLEFT); }
"ShiftRight"            { count (3); return (PARSEOP_SHIFTRIGHT); }
"Signal"                { count (3); return (PARSEOP_SIGNAL); }
"SizeOf"                { count (3); return (PARSEOP_SIZEOF); }
"Sleep"                 { count (3); return (PARSEOP_SLEEP); }
"Stall"                 { count (3); return (PARSEOP_STALL); }
"Store"                 { count (3); return (PARSEOP_STORE); }
"Subtract"              { count (3); return (PARSEOP_SUBTRACT); }
"Switch"                { count (3); return (PARSEOP_SWITCH); }
"ThermalZone"           { count (2); return (PARSEOP_THERMALZONE); }
"Timer"                 { count (3); return (PARSEOP_TIMER); }
"ToBcd"                 { count (3); return (PARSEOP_TOBCD); }
```

```
"ToBuffer"              { count (3); return (PARSEOP_TOBUFFER); }
"ToDecimalString"       { count (3); return (PARSEOP_TODECIMALSTRING); }
"ToHexString"
        { count (3); return (PARSEOP_TOHEXSTRING); }
"ToInteger"             { count (3); return (PARSEOP_TOINTEGER); }
"ToString"              { count (3); return (PARSEOP_TOSTRING); }
"ToUuid"                { count (1); return (PARSEOP_TOUUID); }
"Unicode"               { count (1); return (PARSEOP_UNICODE); }
"Unload"                { count (3); return (PARSEOP_UNLOAD); }
"Wait"                  { count (3); return (PARSEOP_WAIT); }
"While"                 { count (3); return (PARSEOP_WHILE); }
"XOr"                   { count (3); return (PARSEOP_XOR); }
"Zero"                  { count (1); return (PARSEOP_ZERO); }

  /* Control method arguments and locals */

"Arg0"                  { count (1); return (PARSEOP_ARG0); }
"Arg1"                  { count (1); return (PARSEOP_ARG1); }
"Arg2"                  { count (1); return (PARSEOP_ARG2); }
"Arg3"                  { count (1); return (PARSEOP_ARG3); }
"Arg4"
        { count (1); return (PARSEOP_ARG4); }
"Arg5"                  { count (1); return (PARSEOP_ARG5); }
"Arg6"                  { count (1); return (PARSEOP_ARG6); }
"Local0"                { count (1); return (PARSEOP_LOCAL0); }
"Local1"                { count (1); return (PARSEOP_LOCAL1); }
"Local2"                { count (1); return (PARSEOP_LOCAL2); }
"Local3"                { count (1); return (PARSEOP_LOCAL3); }
"Local4"                { count (1); return (PARSEOP_LOCAL4); }
"Local5"                { count (1); return (PARSEOP_LOCAL5); }
"Local6"                { count (1); return (PARSEOP_LOCAL6); }
"Local7"                { count (1); return (PARSEOP_LOCAL7); }


/*******************************************************************************
 *
 * Resource Descriptor macros
 *
 ******************************************************************************/

"ResourceTemplate"      { count (1); return (PARSEOP_RESOURCETEMPLATE);
 }
"RawDataBuffer"         { count (1); return (PARSEOP_DATABUFFER); }

"DMA"                   { count (1); return (PARSEOP_DMA); }
"DWordIO"               { count (1); return (PARSEOP_DWORDIO); }
"DWordMemory"           { count (1); return (PARSEOP_DWORDMEMORY); }
"DWordSpace"            { count (1); return (PARSEOP_DWORDSPACE); }
```

```
"EndDependentFn"          { count (1); return (PARSEOP_ENDDEPENDENTFN); }
"ExtendedIO"              { count (1); return (PARSEOP_EXTENDEDIO); }
"ExtendedMemory"          { count (1); return (PARSEOP_EXTENDEDMEMORY); }
"ExtendedSpace"           { count (1); return (PARSEOP_EXTENDEDSPACE); }
"FixedDma"                { count (1); return (PARSEOP_FIXEDDMA); }
"FixedIO"                 { count (1); return (PARSEOP_FIXEDIO); }
"GpioInt"                 { count (1); return (PARSEOP_GPIO_INT); }
"GpioIo"                  { count (1); return (PARSEOP_GPIO_IO); }
"I2cSerialBus"            { count (1); return (PARSEOP_I2C_SERIALBUS);
 }
"I2cSerialBusV2"          { count (1); return (PARSEOP_I2C_SERIALBUS_V2); }
"Interrupt"               { count (1); return (PARSEOP_INTERRUPT); }
"IO"                      { count (1); return (PARSEOP_IO); }
"IRQ"                     { count (1); return (PARSEOP_IRQ); }
"IRQNoFlags"              { count (1); return (PARSEOP_IRQNOFLAGS); }
"Memory24"                { count (1); return (PARSEOP_MEMORY24); }
"Memory32"                { count (1); return (PARSEOP_MEMORY32); }
"Memory32Fixed"           { count (1); return (PARSEOP_MEMORY32FIXED); }
"PinConfig"               { count (1); return (PARSEOP_PINCONFIG); }
"PinFunction"             { count (1); return (PARSEOP_PINFUNCTION); }
"PinGroup"                { count (1); return (PARSEOP_PINGROUP); }
"PinGroupConfig"          { count (1); return (PARSEOP_PINGROUPCONFIG); }
"PinGroupFunction"        { count (1); return (PARSEOP_PINGROUPFUNCTION); }
"QWordIO"                 { count (1); return (PARSEOP_QWORDIO);
 }
"QWordMemory"             { count (1); return (PARSEOP_QWORDMEMORY); }
"QWordSpace"              { count (1); return (PARSEOP_QWORDSPACE); }
"Register"                { count (1); return (PARSEOP_REGISTER); }
"SpiSerialBus"            { count (1); return (PARSEOP_SPI_SERIALBUS); }
"SpiSerialBusV2"          { count (1); return (PARSEOP_SPI_SERIALBUS_V2); }
"StartDependentFn"        { count (1); return (PARSEOP_STARTDEPENDENTFN); }
"StartDependentFnNoPri"   { count (1); return (PARSEOP_STARTDEPENDENTFN_NOPRI); }
"UartSerialBus"           { count (1); return (PARSEOP_UART_SERIALBUS); }
"UartSerialBusV2"         { count (1); return (PARSEOP_UART_SERIALBUS_V2); }
"VendorLong"              { count (1); return (PARSEOP_VENDORLONG); }
"VendorShort"             { count (1); return (PARSEOP_VENDORSHORT); }
"WordBusNumber"           { count (1); return (PARSEOP_WORDBUSNUMBER); }
"WordIO"                  { count (1); return (PARSEOP_WORDIO); }
"WordSpace"
          { count (1); return (PARSEOP_WORDSPACE); }


/*******************************************************************************
 *
 * Keywords used as arguments to ASL operators and macros
 *
 ******************************************************************************/
```

```
  /*  AccessAttribKeyword: Serial Bus Attributes (ACPI 5.0) */

"AttribQuick"              { count (0); return (PARSEOP_ACCESSATTRIB_QUICK); }
"AttribSendReceive"        { count (0); return (PARSEOP_ACCESSATTRIB_SND_RCV); }
"AttribByte"               { count (0); return (PARSEOP_ACCESSATTRIB_BYTE); }
"AttribWord"               { count (0); return (PARSEOP_ACCESSATTRIB_WORD); }
"AttribBlock"              { count (0); return (PARSEOP_ACCESSATTRIB_BLOCK); }
"AttribProcessCall"        { count (0); return (PARSEOP_ACCESSATTRIB_WORD_CALL); }
"AttribBlockProcessCall"   { count (0); return (PARSEOP_ACCESSATTRIB_BLOCK_CALL); }

  /* AccessAttribKeyword: Legacy synonyms for above (pre-ACPI 5.0) */

"SMBQuick"
            { count (0); return (PARSEOP_ACCESSATTRIB_QUICK); }
"SMBSendReceive"           { count (0); return (PARSEOP_ACCESSATTRIB_SND_RCV); }
"SMBByte"                  { count (0); return (PARSEOP_ACCESSATTRIB_BYTE); }
"SMBWord"                  { count (0); return (PARSEOP_ACCESSATTRIB_WORD); }
"SMBBlock"                 { count (0); return (PARSEOP_ACCESSATTRIB_BLOCK); }
"SMBProcessCall"           { count (0); return (PARSEOP_ACCESSATTRIB_WORD_CALL); }
"SMBBlockProcessCall"      { count (0); return (PARSEOP_ACCESSATTRIB_BLOCK_CALL); }

  /* AccessTypeKeyword: Field Access Types */

"AnyAcc"                   { count (0); return (PARSEOP_ACCESSTYPE_ANY); }
"ByteAcc"                  { count (0); return (PARSEOP_ACCESSTYPE_BYTE); }
"WordAcc"                  { count (0); return (PARSEOP_ACCESSTYPE_WORD); }
"DWordAcc"                 { count (0); return (PARSEOP_ACCESSTYPE_DWORD); }
"QWordAcc"                 { count (0); return (PARSEOP_ACCESSTYPE_QWORD); }
"BufferAcc"
            { count (0); return (PARSEOP_ACCESSTYPE_BUF); }

  /* AddressingModeKeyword: Mode - Resource Descriptors (ACPI 5.0) */

"AddressingMode7Bit"       { count (0); return (PARSEOP_ADDRESSINGMODE_7BIT); }
"AddressingMode10Bit"      { count (0); return (PARSEOP_ADDRESSINGMODE_10BIT); }

  /* AddressKeyword: ACPI memory range types */

"AddressRangeMemory"       { count (0); return (PARSEOP_ADDRESSTYPE_MEMORY); }
"AddressRangeReserved"     { count (0); return (PARSEOP_ADDRESSTYPE_RESERVED); }
"AddressRangeNVS"          { count (0); return (PARSEOP_ADDRESSTYPE_NVS); }
"AddressRangeACPI"         { count (0); return (PARSEOP_ADDRESSTYPE_ACPI); }

  /* BusMasterKeyword: DMA Bus Mastering */

"BusMaster"                { count (0); return (PARSEOP_BUSMASTERTYPE_MASTER); }
"NotBusMaster"             { count (0); return (PARSEOP_BUSMASTERTYPE_NOTMASTER); }
```

```
  /* ByteLengthKeyword: Bits per Byte - Resource Descriptors (ACPI 5.0) */

"DataBitsFive"
    { count (0); return (PARSEOP_BITSPERBYTE_FIVE); }
"DataBitsSix"             { count (0); return (PARSEOP_BITSPERBYTE_SIX); }
"DataBitsSeven"           { count (0); return (PARSEOP_BITSPERBYTE_SEVEN); }
"DataBitsEight"           { count (0); return (PARSEOP_BITSPERBYTE_EIGHT); }
"DataBitsNine"            { count (0); return (PARSEOP_BITSPERBYTE_NINE); }

  /* ClockPhaseKeyword: Resource Descriptors (ACPI 5.0) */

"ClockPhaseFirst"         { count (0); return (PARSEOP_CLOCKPHASE_FIRST); }
"ClockPhaseSecond"        { count (0); return (PARSEOP_CLOCKPHASE_SECOND); }

  /* ClockPolarityKeyword: Resource Descriptors (ACPI 5.0) */

"ClockPolarityLow"        { count (0); return (PARSEOP_CLOCKPOLARITY_LOW); }
"ClockPolarityHigh"       { count (0); return (PARSEOP_CLOCKPOLARITY_HIGH); }

  /* DecodeKeyword: Type of Memory Decoding - Resource Descriptors */

"PosDecode"               { count (0); return (PARSEOP_DECODETYPE_POS); }
"SubDecode"               { count (0);
 return (PARSEOP_DECODETYPE_SUB); }

  /* DmaTypeKeyword: DMA Types - DMA Resource Descriptor */

"Compatibility"           { count (0); return (PARSEOP_DMATYPE_COMPATIBILITY); }
"TypeA"                   { count (0); return (PARSEOP_DMATYPE_A); }
"TypeB"                   { count (0); return (PARSEOP_DMATYPE_B); }
"TypeF"                   { count (0); return (PARSEOP_DMATYPE_F); }

  /* EndianKeyword: Endian type - Resource Descriptor (ACPI 5.0) */

"LittleEndian"            { count (0); return (PARSEOP_ENDIAN_LITTLE); }
"BigEndian"               { count (0); return (PARSEOP_ENDIAN_BIG); }

  /* ExtendedAttribKeyword: Bus attributes, AccessAs operator (ACPI 5.0) */

"AttribBytes"             { count (0); return (PARSEOP_ACCESSATTRIB_BYTES); }
"AttribRawBytes"          { count (0); return (PARSEOP_ACCESSATTRIB_RAW_BYTES); }
"AttribRawProcessBytes"   { count (0); return (PARSEOP_ACCESSATTRIB_RAW_PROCESS); }

  /* FlowControlKeyword: Resource Descriptors (ACPI
 5.0) */

"FlowControlHardware"     { count (0); return (PARSEOP_FLOWCONTROL_HW); }
"FlowControlNone"         { count (0); return (PARSEOP_FLOWCONTROL_NONE); }
```

```
"FlowControlXon"          { count (0); return (PARSEOP_FLOWCONTROL_SW); }

  /* InterruptLevelKeyword: Interrupt Active Types */

"ActiveBoth"              { count (0); return (PARSEOP_INTLEVEL_ACTIVEBOTH); }
"ActiveHigh"              { count (0); return (PARSEOP_INTLEVEL_ACTIVEHIGH); }
"ActiveLow"               { count (0); return (PARSEOP_INTLEVEL_ACTIVELOW); }

  /* InterruptTypeKeyword: Interrupt Types */

"Edge"                    { count (0); return (PARSEOP_INTTYPE_EDGE); }
"Level"                   { count (0); return (PARSEOP_INTTYPE_LEVEL); }

  /* IoDecodeKeyword: Type of Memory Decoding - Resource Descriptors */

"Decode10"                { count (0); return (PARSEOP_IODECODETYPE_10); }
"Decode16"                { count (0); return (PARSEOP_IODECODETYPE_16); }

  /* IoRestrictionKeyword:
 I/O Restriction - GPIO Resource Descriptors (ACPI 5.0) */

"IoRestrictionNone"       { count (0); return (PARSEOP_IORESTRICT_NONE); }
"IoRestrictionInputOnly"  { count (0); return (PARSEOP_IORESTRICT_IN); }
"IoRestrictionOutputOnly" { count (0); return (PARSEOP_IORESTRICT_OUT); }
"IoRestrictionNoneAndPreserve"  { count (0); return (PARSEOP_IORESTRICT_PRESERVE); }

  /* LockRuleKeyword: Global Lock use for Field Operator */

"Lock"                    { count (0); return (PARSEOP_LOCKRULE_LOCK); }
"NoLock"                  { count (0); return (PARSEOP_LOCKRULE_NOLOCK); }

  /* MatchOpKeyword: Types for Match Operator */

"MTR"                     { count (0); return (PARSEOP_MATCHTYPE_MTR); }
"MEQ"                     { count (0); return (PARSEOP_MATCHTYPE_MEQ); }
"MLE"                     { count (0); return (PARSEOP_MATCHTYPE_MLE); }
"MLT"                     { count (0); return (PARSEOP_MATCHTYPE_MLT); }
"MGE"                     { count (0); return (PARSEOP_MATCHTYPE_MGE);
 }
"MGT"                     { count (0); return (PARSEOP_MATCHTYPE_MGT); }

  /* MaxKeyword: Max Range Type - Resource Descriptors */

"MaxFixed"                { count (0); return (PARSEOP_MAXTYPE_FIXED); }
"MaxNotFixed"             { count (0); return (PARSEOP_MAXTYPE_NOTFIXED); }

  /* MemTypeKeyword: Memory Types - Resource Descriptors */
```

```
"Cacheable"             { count (0); return (PARSEOP_MEMTYPE_CACHEABLE); }
"WriteCombining"        { count (0); return (PARSEOP_MEMTYPE_WRITECOMBINING); }
"Prefetchable"          { count (0); return (PARSEOP_MEMTYPE_PREFETCHABLE); }
"NonCacheable"          { count (0); return (PARSEOP_MEMTYPE_NONCACHEABLE); }

  /* MinKeyword: Min Range Type - Resource Descriptors */

"MinFixed"              { count (0); return (PARSEOP_MINTYPE_FIXED); }
"MinNotFixed"           { count (0); return (PARSEOP_MINTYPE_NOTFIXED); }

  /* ObjectTypeKeyword: ACPI Object Types */

"UnknownObj"            { count (0);
 return (PARSEOP_OBJECTTYPE_UNK); }
"IntObj"                { count (0); return (PARSEOP_OBJECTTYPE_INT); }
"StrObj"                { count (0); return (PARSEOP_OBJECTTYPE_STR); }
"BuffObj"               { count (0); return (PARSEOP_OBJECTTYPE_BUF); }
"PkgObj"                { count (0); return (PARSEOP_OBJECTTYPE_PKG); }
"FieldUnitObj"          { count (0); return (PARSEOP_OBJECTTYPE_FLD); }
"DeviceObj"             { count (0); return (PARSEOP_OBJECTTYPE_DEV); }
"EventObj"              { count (0); return (PARSEOP_OBJECTTYPE_EVT); }
"MethodObj"             { count (0); return (PARSEOP_OBJECTTYPE_MTH); }
"MutexObj"              { count (0); return (PARSEOP_OBJECTTYPE_MTX); }
"OpRegionObj"           { count (0); return (PARSEOP_OBJECTTYPE_OPR); }
"PowerResObj"           { count (0); return (PARSEOP_OBJECTTYPE_POW); }
"ProcessorObj"          { count (0); return (PARSEOP_OBJECTTYPE_PRO); }
"ThermalZoneObj"        { count (0); return (PARSEOP_OBJECTTYPE_THZ);
 }
"BuffFieldObj"          { count (0); return (PARSEOP_OBJECTTYPE_BFF); }
"DDBHandleObj"          { count (0); return (PARSEOP_OBJECTTYPE_DDB); }

  /* ParityKeyword: Resource Descriptors (ACPI 5.0) */

"ParityTypeSpace"       { count (0); return (PARSEOP_PARITYTYPE_SPACE); }
"ParityTypeMark"        { count (0); return (PARSEOP_PARITYTYPE_MARK); }
"ParityTypeOdd"         { count (0); return (PARSEOP_PARITYTYPE_ODD); }
"ParityTypeEven"        { count (0); return (PARSEOP_PARITYTYPE_EVEN); }
"ParityTypeNone"        { count (0); return (PARSEOP_PARITYTYPE_NONE); }

  /* PinConfigKeyword: Pin Configuration - GPIO Resource Descriptors (ACPI 5.0) */

"PullDefault"           { count (0); return (PARSEOP_PIN_PULLDEFAULT); }
"PullUp"                { count (0); return (PARSEOP_PIN_PULLUP); }
"PullDown"              { count (0); return (PARSEOP_PIN_PULLDOWN); }
"PullNone"              { count (0); return (PARSEOP_PIN_NOPULL);
 }

  /* PolarityKeyword: Resource Descriptors (ACPI 5.0) */
```

```
"PolarityLow"           { count (0); return (PARSEOP_DEVICEPOLARITY_LOW); }
"PolarityHigh"          { count (0); return (PARSEOP_DEVICEPOLARITY_HIGH); }

  /* RangeTypeKeyword: I/O Range Types - Resource Descriptors */

"ISAOnlyRanges"         { count (0); return (PARSEOP_RANGETYPE_ISAONLY); }
"NonISAOnlyRanges"      { count (0); return (PARSEOP_RANGETYPE_NONISAONLY); }
"EntireRange"           { count (0); return (PARSEOP_RANGETYPE_ENTIRE); }

  /* ReadWriteKeyword: Memory Access Types - Resource Descriptors */

"ReadWrite"             { count (0); return (PARSEOP_READWRITETYPE_BOTH); }
"ReadOnly"              { count (0); return (PARSEOP_READWRITETYPE_READONLY); }

  /* RegionSpaceKeyword: Operation Region Address Space Types */

"SystemIO"              { count (0); return (PARSEOP_REGIONSPACE_IO); }
"SystemMemory"          { count (0); return (PARSEOP_REGIONSPACE_MEM); }
"PCI_Config"
        { count (0); return (PARSEOP_REGIONSPACE_PCI); }
"EmbeddedControl"       { count (0); return (PARSEOP_REGIONSPACE_EC); }
"SMBus"                 { count (0); return (PARSEOP_REGIONSPACE_SMBUS); }
"SystemCMOS"            { count (0); return (PARSEOP_REGIONSPACE_CMOS); }
"PciBarTarget"          { count (0); return (PARSEOP_REGIONSPACE_PCIBAR); }
"IPMI"                  { count (0); return (PARSEOP_REGIONSPACE_IPMI); }
"GeneralPurposeIo"      { count (0); return (PARSEOP_REGIONSPACE_GPIO); }       /* ACPI 5.0 */
"GenericSerialBus"      { count (0); return (PARSEOP_REGIONSPACE_GSBUS); }      /* ACPI 5.0 */
"PCC"                   { count (0); return (PARSEOP_REGIONSPACE_PCC); }        /* ACPI 5.0 */
"PlatformRtMechanism"   { count (0); return (PARSEOP_REGIONSPACE_PRM); }
"FFixedHW"              { count (0); return (PARSEOP_REGIONSPACE_FFIXEDHW); }

  /* ResourceTypeKeyword: Resource Usage - Resource Descriptors */

"ResourceConsumer"
      { count (0); return (PARSEOP_RESOURCETYPE_CONSUMER); }
"ResourceProducer"      { count (0); return (PARSEOP_RESOURCETYPE_PRODUCER); }

  /* SerializeRuleKeyword: Control Method Serialization */

"Serialized"            { count (0); return (PARSEOP_SERIALIZERULE_SERIAL); }
"NotSerialized"         { count (0); return (PARSEOP_SERIALIZERULE_NOTSERIAL); }

  /* ShareTypeKeyword: Interrupt Sharing - Resource Descriptors */

"Shared"                { count (0); return (PARSEOP_SHARETYPE_SHARED); }
"Exclusive"             { count (0); return (PARSEOP_SHARETYPE_EXCLUSIVE); }
"SharedAndWake"         { count (0); return (PARSEOP_SHARETYPE_SHAREDWAKE); }   /* ACPI 5.0 */
```

```
"ExclusiveAndWake"          { count (0); return (PARSEOP_SHARETYPE_EXCLUSIVEWAKE); }    /* ACPI 5.0
*/

  /* SlaveModeKeyword: Resource Descriptors (ACPI 5.0) */

"ControllerInitiated"       { count (0); return (PARSEOP_SLAVEMODE_CONTROLLERINIT); }
"DeviceInitiated"           { count
 (0); return (PARSEOP_SLAVEMODE_DEVICEINIT); }

  /* StopBitsKeyword: Resource Descriptors (ACPI 5.0) */

"StopBitsOne"               { count (0); return (PARSEOP_STOPBITS_ONE); }
"StopBitsOnePlusHalf"       { count (0); return (PARSEOP_STOPBITS_ONEPLUSHALF); }
"StopBitsTwo"               { count (0); return (PARSEOP_STOPBITS_TWO); }
"StopBitsZero"              { count (0); return (PARSEOP_STOPBITS_ZERO); }

  /* TransferWidthKeyword: DMA Widths - Fixed DMA Resource Descriptor (ACPI 5.0) */

"Width8bit"                 { count (0); return (PARSEOP_XFERSIZE_8); }
"Width16bit"                { count (0); return (PARSEOP_XFERSIZE_16); }
"Width32bit"                { count (0); return (PARSEOP_XFERSIZE_32); }
"Width64bit"                { count (0); return (PARSEOP_XFERSIZE_64); }
"Width128bit"               { count (0); return (PARSEOP_XFERSIZE_128); }
"Width256bit"               { count (0); return (PARSEOP_XFERSIZE_256); }

  /* TranslationKeyword: Translation Density Types - Resource
 Descriptors */

"SparseTranslation"         { count (0); return (PARSEOP_TRANSLATIONTYPE_SPARSE); }
"DenseTranslation"          { count (0); return (PARSEOP_TRANSLATIONTYPE_DENSE); }

  /* TypeKeyword: Translation Types - Resource Descriptors */

"TypeTranslation"           { count (0); return (PARSEOP_TYPE_TRANSLATION); }
"TypeStatic"                { count (0); return (PARSEOP_TYPE_STATIC); }

  /* UpdateRuleKeyword: Field Update Rules */

"Preserve"                  { count (0); return (PARSEOP_UPDATERULE_PRESERVE); }
"WriteAsOnes"               { count (0); return (PARSEOP_UPDATERULE_ONES); }
"WriteAsZeros"              { count (0); return (PARSEOP_UPDATERULE_ZEROS); }

  /* WireModeKeyword: SPI Wire Mode - Resource Descriptors (ACPI 5.0) */

"FourWireMode"              { count (0); return (PARSEOP_WIREMODE_FOUR); }
"ThreeWireMode"             { count (0); return (PARSEOP_WIREMODE_THREE); }

  /* XferTypeKeyword: DMA Transfer Types */
```

```
"Transfer8"             {
 count (0); return (PARSEOP_XFERTYPE_8); }
"Transfer8_16"          { count (0); return (PARSEOP_XFERTYPE_8_16); }
"Transfer16"            { count (0); return (PARSEOP_XFERTYPE_16); }

  /* ToPld macro */

"ToPLD"                 { count (0); return (PARSEOP_TOPLD); }

"PLD_Revision"          { count (0); return (PARSEOP_PLD_REVISION); }
"PLD_IgnoreColor"       { count (0); return (PARSEOP_PLD_IGNORECOLOR); }
"PLD_Red"               { count (0); return (PARSEOP_PLD_RED); }
"PLD_Green"             { count (0); return (PARSEOP_PLD_GREEN); }
"PLD_Blue"              { count (0); return (PARSEOP_PLD_BLUE); }
"PLD_Width"             { count (0); return (PARSEOP_PLD_WIDTH); }
"PLD_Height"            { count (0); return (PARSEOP_PLD_HEIGHT); }
"PLD_UserVisible"       { count (0); return (PARSEOP_PLD_USERVISIBLE); }
"PLD_Dock"              { count (0); return (PARSEOP_PLD_DOCK); }
"PLD_Lid"               { count (0); return (PARSEOP_PLD_LID);
 }
"PLD_Panel"             { count (0); return (PARSEOP_PLD_PANEL); }
"PLD_VerticalPosition"  { count (0); return (PARSEOP_PLD_VERTICALPOSITION); }
"PLD_HorizontalPosition"  { count (0); return (PARSEOP_PLD_HORIZONTALPOSITION); }
"PLD_Shape"             { count (0); return (PARSEOP_PLD_SHAPE); }
"PLD_GroupOrientation"  { count (0); return (PARSEOP_PLD_GROUPORIENTATION); }
"PLD_GroupToken"        { count (0); return (PARSEOP_PLD_GROUPTOKEN); }
"PLD_GroupPosition"     { count (0); return (PARSEOP_PLD_GROUPPOSITION); }
"PLD_Bay"               { count (0); return (PARSEOP_PLD_BAY); }
"PLD_Ejectable"         { count (0); return (PARSEOP_PLD_EJECTABLE); }
"PLD_EjectRequired"     { count (0); return (PARSEOP_PLD_EJECTREQUIRED); }
"PLD_CabinetNumber"     { count (0); return (PARSEOP_PLD_CABINETNUMBER); }
"PLD_CardCageNumber"    { count (0); return (PARSEOP_PLD_CARDCAGENUMBER); }
"PLD_Reference"         { count (0); return (PARSEOP_PLD_REFERENCE);
 }
"PLD_Rotation"          { count (0); return (PARSEOP_PLD_ROTATION); }
"PLD_Order"             { count (0); return (PARSEOP_PLD_ORDER); }
"PLD_Reserved"          { count (0); return (PARSEOP_PLD_RESERVED); }
"PLD_VerticalOffset"    { count (0); return (PARSEOP_PLD_VERTICALOFFSET); }
"PLD_HorizontalOffset"  { count (0); return (PARSEOP_PLD_HORIZONTALOFFSET); }


  /* printf debug macros */

"printf"                { count (0); return (PARSEOP_PRINTF); }
"fprintf"               { count (0); return (PARSEOP_FPRINTF); }

  /* Other macros */
```

```
"For"                   { count (0); return (PARSEOP_FOR); }

  /* Predefined compiler names */

"__DATE__"              { count (0); return (PARSEOP___DATE__); }
"__FILE__"              { count (0); return (PARSEOP___FILE__); }
"__LINE__"              { count (0); return (PARSEOP___LINE__); }
"__PATH__"              { count (0); return (PARSEOP___PATH__); }
"__METHOD__"            { count (0);
 return (PARSEOP___METHOD__); }
"__EXPECT__"{ErrorCode}     { char *s;
                        unsigned int index = 0;
                        count (0);
                        while (!isdigit ((int) AslCompilertext[index]))
                        {
                           index++;
                        }

                        /*
                         * The error code is contained inside the
                         * {ErrorCode} pattern. Extract it and log it
                         * as the expected error code.
                         */
                        s = UtLocalCacheCalloc (ASL_ERROR_CODE_LENGTH + 1);
                        memcpy (s, AslCompilertext + index, ASL_ERROR_CODE_LENGTH);
                        AslLogExpectedExceptionByLine (s); }

{NameSeg}               { char *s;
                        count (0);

          s=UtLocalCacheCalloc (ACPI_NAMESEG_SIZE + 1);
                        if (strcmp (AslCompilertext, "\\"))
                        {
                           /*
                            * According to the ACPI specification,
                            * NameSegments must have length of 4. If
                            * the NameSegment has length less than 4,
                            * they are padded with underscores to meet
                            * the required length.
                            */
                           strcpy (s, "____");
                        }
                        memcpy (s, AslCompilertext, strlen (AslCompilertext));
                        AslCompilerlval.s = s;
                        DbgPrint (ASL_PARSE_OUTPUT, "NameSeg: %s\n", s);
                        return (PARSEOP_NAMESEG); }
```

```
{NameString}
        { char *s;
                count (0);
                s=UtLocalCacheCalloc (strlen (AslCompilertext)+1);
                strcpy (s, AslCompilertext);
                AslCompilerlval.s = s;
                DbgPrint (ASL_PARSE_OUTPUT, "NameString: %s\n", s);
                return (PARSEOP_NAMESTRING); }

.               { count (1);
                if (isprint ((int) *AslCompilertext))
                {
                   sprintf (AslGbl_MsgBuffer,
                      "Invalid character (%c), expecting ASL keyword or name",
                      *AslCompilertext);
                }
                else
                {
                   sprintf (AslGbl_MsgBuffer,
                      "Invalid character
(0x%2.2X), expecting ASL keyword or name",
                      *AslCompilertext);
                }
                AslCompilererror (AslGbl_MsgBuffer);}

<<EOF>>             { if (AslPopInputFileStack ())
                {yyterminate();}
               else
                {return (PARSEOP_INCLUDE_END);} };

%%

/*! [End] no source code translation !*/

/*
* Bring in the scanner support routines
*/
#include "aslsupport.l"

Found in path(s):
* /acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/aslcompiler.l
No license file was found, but licenses were detected in source scan.

%{
/******************************************************************************
*
* Module Name: aslparser.y - Master Bison/Yacc input file for iASL
*
```

**/

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*****************************************************************************/

#include "aslcompiler.h"
#include "acpi.h"
#include "accommon.h"

#define _COMPONENT          ACPI_COMPILER
      ACPI_MODULE_NAME    ("aslparse")

/*
* Global Notes:
*
* October 2005: The following list terms have been optimized (from the
* original ASL grammar in the ACPI specification) to force the immediate
* reduction of each list item so that the parse stack use doesn't increase on
* each list element and possibly overflow on very large lists (>4000 items).
* This dramatically reduces use of the parse stack overall.
*
*      ArgList, TermList, ByteList,
 DWordList, PackageList,
*      ResourceMacroList, and FieldUnitList
*/

void *
AslLocalAllocate (
  unsigned int          Size);


/* Bison/yacc configuration */

#define static
#undef malloc
#define malloc              AslLocalAllocate
#undef alloca
#define alloca              AslLocalAllocate
#define yytname             AslCompilername

#define YYINITDEPTH         600             /* State stack depth */
#define YYDEBUG             1               /* Enable debug output */
```

```
#define YYERROR_VERBOSE     1               /* Verbose error messages */
#define YYFLAG              -32768

/* Define YYMALLOC/YYFREE to prevent redefinition errors  */

#define YYMALLOC            AslLocalAllocate
#define YYFREE              ACPI_FREE
%}

/*
* Declare the type of values in the grammar
*/
%union {
  UINT64            i;
  char              *s;
  ACPI_PARSE_OBJECT   *n;
}

/*
* These shift/reduce conflicts are expected. There should be zero
* reduce/reduce conflicts.
*/
%expect
 124

/*! [Begin] no source code translation */

/*
* The M4 macro processor is used to bring in the parser items,
* in order to keep this master file smaller, and to break up
* the various parser items.
*/
m4_define(NoEcho)

/* Token types */

m4_include(asltokens.y)

/* Production types/names */

m4_include(asltypes.y)
%%

/* Production rules */

m4_include(aslrules.y)
m4_include(aslprimaries.y)
m4_include(aslcstyle.y)
```

```
m4_include(aslkeywords.y)
m4_include(aslresources.y)
m4_include(aslhelpers.y)
%%

/*! [End] no source code translation !*/

/* Local support functions in C */

m4_include(aslsupport.y)
```

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*/

//
//
// Grammar.asl - Minimally exercises most ASL constructs
//
// NOTE -- use: iasl -f -of grammar.asl to compile
//
//        This 1) Ignores errors (checks compiler error handling)
//             2) Disables constant folding
//
//

/*****************************************************************************
Compilation should look like
 this:

C:\acpica\tests\misc>iasl -f -of grammar.asl

Intel ACPI Component Architecture
ASL Optimizing Compiler version 20090422 [Apr 22 2009]
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Supports ACPI Specification Revision 3.0a

grammar.asl   187:    Name (_NPK, Package (8)
Warning  1098 -             ^ Unknown reserved name (_NPK)

grammar.asl   510:    NAME (ESC1, "abcdefg\x00hijklmn")
Warning  1042 -                     ^ Invalid Hex/Octal Escape - Non-ASCII or NULL

grammar.asl   511:    NAME (ESC2, "abcdefg\000hijklmn")
Warning  1042 -                     ^ Invalid Hex/Octal Escape - Non-ASCII or NULL

grammar.asl   601:    Method (RCIV, 1)
```

```
Warning  1087 -              ^ Not all control paths return a value (RCIV)

grammar.asl   608:       RCIV (Subtract (Arg0, 1))
Remark   5073 -           ^ Recursive method call (RCIV)

grammar.asl   937:    Method (_ERR, 2)
Warning  1077 -              ^ Reserved method has too few arguments (_ERR
 requires 3)

grammar.asl  1377:       Store (0x1234567887654321, QWD2)
Warning  1032 -                          ^ 64-bit integer in 32-bit table, truncating

grammar.asl  1379:       if (LNotEqual (Local0, 0x1234567887654321))
Warning  1032 -       64-bit integer in 32-bit table, truncating ^

grammar.asl  1459:       SizeOf (BUFO)
Warning  1105 -                ^ Result is not used, operator has no effect

grammar.asl  1485:       Acquire (MTX2, 1)
Warning  1104 -                  ^ Possible operator timeout is ignored

grammar.asl  1633:       Add (Local0, Local1)
Warning  1105 -                ^ Result is not used, operator has no effect

grammar.asl  1804:    Method (COND)
Warning  1087 -              ^ Not all control paths return a value (COND)

grammar.asl  6010:          Name (_HID, "*PNP0A06")
Error    4001 -                          ^ String must be entirely alphanumeric (*PNP0A06)

grammar.asl  6461:
  Name (_CRS, Buffer(26)  {"\_SB_.PCI2._CRS....."})
Warning  1038 -       Invalid or unknown escape sequence ^

grammar.asl  6800:             And (Local0, 1, Local0) //  Local0 &= 1
Error    4050 -                  ^ Method local variable is not initialized (Local0)

grammar.asl  6886:          Name (_HID, "*PNP0C0A")     //  Control Method Battey ID
Error    4001 -                          ^ String must be entirely alphanumeric (*PNP0C0A)

ASL Input:  grammar.asl - 10254 lines, 322162 bytes, 4810 keywords
AML Output: grammar.aml - 43392 bytes, 669 named objects, 4141 executable opcodes

Compilation complete. 3 Errors, 12 Warnings, 1 Remarks, 1101 Optimizations

*******************************************************************************************
******/
```

```
DefinitionBlock (
  "grammar.aml",      //Output filename
  "DSDT",             //Signature
  0x01,               //DSDT Revision ---> 32-bit table
  "Intel",            //OEMID

 "GRMTEST",          //TABLE ID
  0x20090511         //OEM Revision
  )
{

  External (\ABCD, UnknownObj)


  /* Device with _STA and _INI */

  Device (A1)
  {
     Method (_STA)
     {
        Return (0x0F)
     }

     Method (_INI)
     {
        Return
     }
  }

  /* Device with no _STA, has _INI */

  Device (A2)
  {
     Method (_INI)
     {
        Return
     }
  }

  /* Device with _STA, no _INI */

  Device (A3)
  {
     Method (_STA)
     {
        Return (0x0F)
     }
  }
```

```
/* Device with _STA and _INI, but not present */

Device (A4)
{
   Method (_STA)
   {
      Return (Zero)
   }

   Method (_INI)
   {
      Return
   }
}


/* Resource descriptors */

Device (IRES)
{
   Name (PRT0, ResourceTemplate ()
   {
      IRQ (Edge, ActiveHigh, Exclusive) {3,4,5,6,7,9,10,11,14,15}

      StartDependentFn (1,1)
       {
         IRQNoFlags () {0,1,2}
      }
      EndDependentFn ()
   })

   Method (_CRS, 0, NotSerialized)
   {
      Store ("_CRS:", Debug)
      Store (PRT0, Debug)
      Return (PRT0)
   }

   Method (_SRS, 1, Serialized)
   {
      Store ("_SRS:", Debug)
      Store (Arg0, Debug)
      Return (Zero)
   }
}

Name (_NPK, Package ()
```

```
{
    0x1111,
    0x2222,
    0x3333,
    0x4444
})


Device (RES)
{
    Name (_PRT, Package (0x04)
    {
        Package (0x04)
        {
            0x0002FFFF,
            Zero,
            Zero,
            Zero
        },

        Package (0x04)
        {
            0x0002FFFF,
            One,
            Zero,
            Zero
        },

        Package (0x04)
        {
            0x000AFFFF,
            Zero,

Zero,
            Zero
        },

        Package (0x04)
        {
            0x000BFFFF,
            Zero,
            Zero,
            Zero
        }
    })

    Method (_CRS, 0, Serialized)
    {
```

```
        Name (PRT0, ResourceTemplate ()
        {
          WordBusNumber (ResourceConsumer, MinFixed, MaxFixed, SubDecode,
            0x0000, // Address Space Granularity
            0xFFF2, // Address Range Minimum
            0xFFF3, // Address Range Maximum
            0x0032, // Address Translation Offset
            0x0002,,,)
          WordBusNumber (ResourceProducer, MinFixed, MaxFixed, PosDecode,
            0x0000, // Address Space Granularity
            0x0000, // Address Range Minimum
            0x00FF, // Address Range Maximum
            0x0000, // Address Translation Offset
            0x0100,,,)
          WordSpace (0xC3,
ResourceConsumer, PosDecode, MinFixed, MaxFixed, 0xA5,
            0x0000, // Address Space Granularity
            0xA000, // Address Range Minimum
            0xBFFF, // Address Range Maximum
            0x0000, // Address Translation Offset
            0x2000,,,)
          IO (Decode16, 0x0CF8, 0x0CFF, 0x01, 0x08)
          WordIO (ResourceProducer, MinFixed, MaxFixed, PosDecode, EntireRange,
            0x0000, // Address Space Granularity
            0x0000, // Address Range Minimum
            0x0CF7, // Address Range Maximum
            0x0000, // Address Translation Offset
            0x0CF8,,,
            , TypeStatic)
          WordIO (ResourceProducer, MinFixed, MaxFixed, PosDecode, EntireRange,
            0x0000, // Address Space Granularity
            0x0D00, // Address Range Minimum
            0xFFFF, // Address Range Maximum

         0x0000, // Address Translation Offset
            0xF300,,,
            , TypeStatic)
          DWordIO (ResourceProducer, MinFixed, MaxFixed, PosDecode, EntireRange,
            0x00000000, // Address Space Granularity
            0x00000000, // Address Range Minimum
            0x00000CF7, // Address Range Maximum
            0x00000000, // Address Translation Offset
            0x00000CF8,,,
            , TypeStatic)
          DWordMemory (ResourceProducer, PosDecode, MinFixed, MaxFixed, Cacheable, ReadWrite,
            0x00000000, // Address Space Granularity
            0x000C8000, // Address Range Minimum
            0x000EFFFF, // Address Range Maximum
```

```
            0x00000000, // Address Translation Offset
            0x00028000,,,
            , AddressRangeMemory, TypeStatic)
        DWordSpace (0xC3, ResourceConsumer, PosDecode, MinFixed,
MaxFixed, 0xA5,
            0x00000000, // Address Space Granularity
            0x000C8000, // Address Range Minimum
            0x000EFFFF, // Address Range Maximum
            0x00000000, // Address Translation Offset
            0x00028000,,,)
        QWordIO (ResourceProducer, MinFixed, MaxFixed, PosDecode, EntireRange,
            0x0000000000000000, // Address Space Granularity
            0x0000000000000000, // Address Range Minimum
            0x00000000000000CF7, // Address Range Maximum
            0x0000000000000000, // Address Translation Offset
            0x00000000000000CF8, 0x44, "This is a ResouceSource string",
            , TypeStatic)
        QWordIO (ResourceProducer, MinFixed, MaxFixed, PosDecode, EntireRange,
            0x0000000000000000, // Address Space Granularity
            0x0000000000000000, // Address Range Minimum

 0x00000000000000CF7, // Address Range Maximum
            0x0000000000000000, // Address Translation Offset
            0x00000000000000CF8,,,
            , TypeStatic)
        QWordMemory (ResourceProducer, PosDecode, MinFixed, MaxFixed, Cacheable, ReadWrite,
            0x0000000000000000, // Address Space Granularity
            0x0000000000100000, // Address Range Minimum
            0x00000000FFDFFFFF, // Address Range Maximum
            0x0000000000000000, // Address Translation Offset
            0x00000000FFD00000,,,
            , AddressRangeMemory, TypeStatic)
        QWordSpace (0xC3, ResourceConsumer, PosDecode, MinFixed, MaxFixed, 0xA5,
            0x0000000000000000, // Address Space Granularity
            0x0000000000000000, // Address Range Minimum
            0x00000000000000CF7, // Address Range Maximum
            0x0000000000000000, // Address Translation
Offset
            0x00000000000000CF8,,,)
        ExtendedIO (ResourceProducer, MinFixed, MaxFixed, PosDecode, EntireRange,
            0x0000000000000000, // Address Space Granularity
            0x0000000000000000, // Address Range Minimum
            0x00000000000000CF7, // Address Range Maximum
            0x0000000000000000, // Address Translation Offset
            0x00000000000000CF8, // Address Length
            0x0000000000000000, // Type Specific Attributes
            , TypeStatic)
        ExtendedMemory (ResourceProducer, PosDecode, MinFixed, MaxFixed, Cacheable, ReadWrite,
```

```
            0x0000000000000000, // Address Space Granularity
            0x0000000000100000, // Address Range Minimum
            0x00000000FFDFFFFF, // Address Range Maximum
            0x0000000000000000, // Address Translation Offset
            0x00000000FFD00000, // Address
Length
            0x0000000000000000, // Type Specific Attributes
            , AddressRangeMemory, TypeStatic)
          ExtendedSpace (0xC3, ResourceProducer, PosDecode, MinFixed, MaxFixed, 0xA3,
            0x0000000000000000, // Address Space Granularity
            0x0000000000100000, // Address Range Minimum
            0x00000000FFDFFFFF, // Address Range Maximum
            0x0000000000000000, // Address Translation Offset
            0x00000000FFD00000, // Address Length
            0x0000000000000000) // Type Specific Attributes
          IO (Decode16, 0x0010, 0x0020, 0x01, 0x10)
          IO (Decode16, 0x0090, 0x00A0, 0x01, 0x10)
          FixedIO (0x0061, 0x01)
          IRQNoFlags () {2}
          DMA (Compatibility, BusMaster, Transfer8_16) {4}
          DMA (Compatibility, BusMaster, Transfer8) {2,5,7}
          Memory32Fixed (ReadWrite, 0x00100000, 0x00000000)
           Memory32Fixed (ReadOnly, 0xFFFE0000, 0x00020000)
          Memory32 (ReadOnly, 0x00020000, 0xFFFE0000, 0x00000004, 0x00000200)
          Memory24 (ReadOnly, 0x1111, 0x2222, 0x0004, 0x0200)
          Interrupt (ResourceConsumer, Level, ActiveLow, Exclusive, 0xE, "\\_SB_.TEST")
          {
            0x00000E01,
          }
          Interrupt (ResourceConsumer, Edge, ActiveHigh, Exclusive, 0x6, "xxxx")
          {
            0x00000601,
            0x00000003,
            0x00000002,
            0x00000001,
          }
          Interrupt (ResourceProducer, Edge, ActiveHigh, Exclusive)
          {
            0xFFFF0000,
            0x00000003,
            0x00000002,
            0x00000001,
            0x00000005,
            0x00000007,
            0x00000009,
          }
          VendorShort () {0x01,
```

```
0x02, 0x03}
            VendorLong ()
            {
               0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08,
               0x09
            }
            Register (SystemIO, 0x08, 0x00, 0x00000000000000B2, , R000)
            Register (SystemMemory, 0x08, 0x00, 0x00000000000000B2)
            StartDependentFnNoPri ()
            {
               IRQNoFlags () {0,1,2}
               IRQ (Level, ActiveLow, Shared) {3,4,5,6,7,9,10,11,14,15}
            }
            EndDependentFn ()
         })
         CreateWordField (PRT0, 0x08, BMIN)
         CreateByteField (PRT0, R000._ASZ, RSIZ)
         Store (0x03, BMIN)
         Return (PRT0)
      }

      Method (_PRS, 0, Serialized)
      {
         Name (BUF0, ResourceTemplate ()
         {
            StartDependentFn (0x01, 0x02)
            {
               IO (Decode16, 0x03D8, 0x03F8, 0x01, 0x08)
               IRQNoFlags ()
{4}
            }
            StartDependentFn (0x02, 0x01)
            {
               IO (Decode16, 0x03D8, 0x03E8, 0x01, 0x08)
               IRQNoFlags () {4}
            }
            StartDependentFn (0x00, 0x02)
            {
               IO (Decode16, 0x02E8, 0x02F8, 0x01, 0x08)
               IRQNoFlags () {3}
            }
            StartDependentFn (0x00, 0x02)
            {
               IO (Decode16, 0x02D8, 0x02E8, 0x01, 0x08)
               IRQNoFlags () {3}
            }
            StartDependentFn (0x02, 0x00)
            {
```

```
                IO (Decode16, 0x0100, 0x03F8, 0x08, 0x08)
                IRQNoFlags () {1,3,4,5,6,7,8,10,11,12,13,14,15}
            }
            EndDependentFn ()
        })
        Return (BUF0)
    }

    Method (_SRS, 1, Serialized)
    {
        Return (Zero)
    }
}


Name(\_S0,Package(0x04){
    0x00,
     0x00,
    0x00,
    0x00
})
Name(\_S3,Package(0x04){
    0x05,
    0x05,
    0x00,
    0x00
})
Name(\_S4,Package(0x04){
    0x06,
    0x06,
    0x00,
    0x00
})
Name(\_S5,Package(0x04){
    0x07,
    0x07,
    0x00,
    0x00
})

/* Examine this table header (DSDT) */

/*
  DataTableRegion (HDR, "DSDT", "", "")
  Field (HDR, AnyAcc, NoLock, Preserve)
  {
    SIG,  32,
    LENG, 32,
```

```
    REV,  8,
    SUM,  8,
    OID,  48,
    OTID, 64,
    OREV, 32,
    CID,  32,
    CREV, 32
  }

  Method (SIZE)
  {
    If (LLess (REV, 2))
    {
      Store ("32-bit table", Debug)
    }
    else
    {
      Store ("64-bit table", Debug)
    }
    Return (0)
  }

*/
  Name (SIZE, 0)

  /* Custom operation region */

  OperationRegion(MYOP,0x80,0xFD60,0x6)
  Field(MYOP,ByteAcc,NoLock,Preserve)
  {
    MFLD,8

  }

  Method (TCOP,, Serialized)
  {
    Name (_STR, Unicode ("test"))
    Store (4, MFLD)
    Store (MFLD, Local0)
  }

  Name (ERRS, 0x0)

  /* Warning should be issued for premature string termination */

  NAME (ESC1, "abcdefg\x00hijklmn")
  NAME (ESC2, "abcdefg\000hijklmn")
  Name (ESC3, "abc\a\bdef\f\n\r\t\v\x03ffff\432")
```

```
  Name(CRSA,ResourceTemplate()
  {
WORDBusNumber(ResourceProducer,MinFixed,MaxFixed,PosDecode,0x0000,0x0019,0x001D,0x0000,0x0005)
WORDIO(ResourceProducer,MinFixed,MaxFixed,PosDecode,NonISAOnlyRanges,0x0000,0xC000,0xCFFF,0x000
0,0x1000)
DWORDMemory(ResourceProducer,PosDecode,MinFixed,MaxFixed,NonCacheable,ReadWrite,0x00000000,0xD8
000000,0xDBFFFFFF,0x00000000,0x04000000)

  })
  Name(CRSB,ResourceTemplate()
  {
DWORDMemory(ResourceProducer,PosDecode,MinFixed,MaxFixed,NonCacheable,ReadWrite,0x00000000,0xD8
000000,0xDBFFFFFF,0x00000000,0x04000000)

  })

  Name(CRSC,ResourceTemplate()
  {
     VendorShort () {0x1, 0x2, 0x3}
  })
  Name(CRSD,ResourceTemplate()
  {
    VendorLong (VNDL) {0x1, 0x2, 0x3, 0x4, 0x5, 0x6, 0x7, 0x8, 0x9}
  })

  Name(CRSE,ResourceTemplate()
  {
    IRQNoFlags(){3,4,10,11}
    IRQNoFlags(xxxt){3,4,10,11}
  })
  Name(CRSR, Buffer (Add (SizeOf(CRSA),SizeOf(CRSB))){})
  Method(_CRS,0,NotSerialized)
  {
    Return(CRSR)
  }


  //
  // Unnamed scope
  //
  Scope (\)
  {
    Name(Bxxx,0xFFFFFFFF)
  }

  Name (LANS, 0x0)
```

```
PowerResource(LANP,1,0)
{
   Method(_STA){
      If(LEqual(And(LANS,0x30),0x30)){
         Return(One)
      } Else {
         Return(Zero)
      }
   }
   Method(_ON){
      If(LNot(_STA())){
         Store (0x30, LANS)
      }
   }
   Method(_OFF){
      If(_STA()){
         Store (0, LANS)
      }
   }
}


/* Can a method define another method? */

/**********************************
 Method (TASK, 2, SERIALIZED)
{
   Sleep (100)

   Method (TAS2)
   {
      Sleep (100)
   }

   TAS2()
   Return

}
**********************************/

/* A recursive method */

Method (RCIV, 1)
{
   Store (Arg0, Debug)
   If (Lequal (Arg0, 0))
   {
```

```
        Return ()
    }
    RCIV (Subtract (Arg0, 1))
}

Method (RTOP)
{
    RCIV (100)
}


Scope(\_PR)
{
    Processor(CPU0,0x0,0xFFFFFFFF,0x0) {}
}

Name(B1TP,0xFFFFFFFF)

Name(B2TP,0xFFFFFFFF)
Name(ADPS,0xFFFFFFFF)
Name(B1PS,0xFFFFFFFF)
Name(B1RS,0xFFFFFFFF)
Name(B1CS,0xFFFFFFFF)
Name(B2PS,0xFFFFFFFF)
Name(B2RS,0xFFFFFFFF)
Name(B2CS,0xFFFFFFFF)
Name(B1DC,3000)
Name(B2DC,2600)
Name(B1LF,3000)
Name(B2LF,2600)
Name(BPIF,0)
Name(PBLL,0)

Name(RBIF,Package()
{
    0x1,
    2200,
    2200,
    0x1,

10800,
    0,
    0,
    1,
    1,
    "CA54200-5003/5",
    "1",
    "LION",
```

```
      "Fujitsu"
    })

    Method(SMWE, 4)
    {
      return(ONES)
    }

    Method(SMRE, 4)
    {
      return(ONES)
    }

/*
    Method(RDBT,0,Serialized){
       If(LNot(SMWE(0x09,0x15,1,1))){
              Store(0x18,Local2)
          }
    }
*/
    Scope(_SB)
    {

       Name (SBUF, Buffer (128) {})

       CreateBitField (SBUF, 3, BITY)
       CreateByteField (SBUF, 1, BYTY)
       CreateWordField (SBUF, 2, WRDZ)
       CreateDwordField (SBUF, 4, DWDZ)
       CreateQwordField (SBUF, 8, QWDZ)
       CreateField (SBUF, 128, 12, FLDZ)
       CreateField (SBUF, 148, 96, FLDY)
       CreateField (SBUF, 148, 96, \_SB_.FLDW)

       Method (_INI)
       {
          CreateField (\_SB_.SBUF, 148, 96, FLDV)
       }


       Device(PCI0)
       {
          Name(_HID,EISAID("PNP0A03"))
          Name(_ADR,0x0)

          Method(_CRS,, Serialized)
           {
             Name(PRT0, ResourceTemplate() {
```

```
        WORDBusNumber(                  // Bus number resource(0)
            ResourceConsumer,           // bit 0 of general flags is 1
            MinFixed,                   // Range is notfixed
            MaxFixed,                   // Range is not fixed
            SubDecode,                  // SubDecode
            0x0000,                     // Granularity
            0xfff1,                     // Min
            0xfff2,                     // Max
            0x0032,                     // Translation
            0x0002,,,                   // Range Length
            BUS0
        ) } )// PRT0

    CreateWordField(PRT0, BUS0._MIN, BMIN)      //Minimum bus number
supported under this bridge.

    Store(3, BMIN)
    Return(PRT0)

} // _CRS

Method(_SRS)
{
  Return ()
}

Device(EIO)
{
  OperationRegion(FJIO,SystemIO,0xFD60,0x6)
    Field(FJIO,ByteAcc,NoLock,Preserve)
    {
      GIDX,8,

      GDTA,8,

      PIDX,8,

      PDTA,8,

      SIDX,8,

      SDTA,8
    }
    IndexField(GIDX,GDTA,ByteAcc,NoLock,Preserve)
    {
      Offset(0x2),
       ,5,
      VGAS,2,
```

```
        Offset(0x4),
        ,4,
        DCKE,1,
        Offset(0x5),
        ,6,
        ACPW,1,

        Offset(0xA),
        B1P,1,

        B2P,1,

        B1C,1,

        B2C,1,

        B1ER,1,

        B2ER,1,

        Offset(0xB),
        B1CP,8,

        B2CP,8,

        BCP,8,

        B1VH,8,

        B1VL,8,

        B2VH,8,

        B2VL,8,

        B1TM,8,

        B2TM,8,

        B1CH,8,

        B1CL,8,

        B2CH,8,

        B2CL,8
    }
}
```

```
    }
}

Method(RDBT,3,Serialized){
    Store(0x1FFF,Local1)
    If( Arg0 ){
        Store(0x2FFF,Local1)
    }
    Store(0x18,Local2)
    If( Arg1 ){
        Store(0x10,Local2)
    }
    If(LNot(SMRE(0x09,0x15,1,RefOf(Local0)))){
         If(LNot(SMWE(0x08,0x14,1,Local1))){
            If(LNot(SMRE(0x09,0x17,Local2,RefOf(Local3)))){
                Store(Local1,Arg2)
            }
        }
        Or(Local0,0xFFF,Local0)
        SMWE(0x08,0x14,1,Local0)
    }
}
Method(MKWD,2)
{
    If(And(Arg1,0x80)) {
        Or(0xFFFF0000,Arg0,Local0)
        Or(Local0,ShiftLeft(Arg1,8),Local0)
        Subtract(Zero,Local0,Local0)
    } else {
        Store(Arg0,Local0)
        Or(Local0,ShiftLeft(Arg1,8),Local0)
    }
    Return(Local0)
}

Device(CMB1)
{
    Name(_HID,EISAID("PNP0C0A"))
    Name(_UID,0x1)
    Alias(\_SB.PCI0.EIO.B1P,\_SB_.PCI0.XXXX)
    Alias(\_SB.PCI0.EIO.B1P,B1P)
    Alias(\_SB.PCI0.EIO.B1C,B1C)
    Alias(\_SB.PCI0.EIO.B1CH,B1CH)
    Alias(\_SB.PCI0.EIO.B1CL,B1CL)
     Alias(\_SB.PCI0.EIO.B1VH,B1VH)
    Alias(\_SB.PCI0.EIO.B1VL,B1VL)
    Alias(\_SB.PCI0.EIO.B1CP,B1CP)
```

```
Method(_INI)
        {
   Store(B1P, B1PS)
   Store(B1CP,B1RS)
   Store(B1C, B1CS)
}

Method(_BIF){
   RDBT(Zero,Zero,RefOf(B1DC))
   RDBT(Zero,One,RefOf(B1LF))
   Store(B1DC,Index(RBIF,1))
   Store(B1LF,Index(RBIF,2))
   Store("CA54200-5003/5",Index(RBIF,9))
   Store("1",Index(RBIF,10))
   Return(RBIF)
}

Method(_BST,, Serialized) {

   _INI()

   Store(Zero,Local0)

   if (LAnd(B1P,LNot(B1C))){
      Or(Local0,1,Local0)
   }

   if (LAnd(B1P,B1C)) {
      Or(Local0,2,Local0)
   }

   if (LLessEqual(B1CP,1)) {

    Or(Local0,4,Local0)
   }

   Store(MKWD(B1CL,B1CH),Local1)

   Store(Divide(Add(Multiply(B1CP,B1LF),99),100),Local2)

   Store(MKWD(B1VL,B1VH),Local3)

   Name(STAT,Package(4){})
   Store(Local0,Index(STAT,0))
   Store(Local1,Index(STAT,1))
   Store(Local2,Index(STAT,2))
   Store(Local3,Index(STAT,3))
```

```
            If(LNot(BPIF)){
//                \_SB.PCI0.EIO.EC0.IECT()
//                \_SB.PCI0.EIO.EC0.SECT()
               Store(One,BPIF)
            }
            return(STAT)
         }

      }

   Device (DEV1)
   {
   }

   Scope(\_TZ)
   {
      ThermalZone(TZ1)
      {
         Name(_PSL,Package()
         {
            \_PR.CPU0
         })
      }
   }

   Method (TZ2, 0, SERIALIZED)
   {
      Name(_PSL,Package()
      {
         \_PR.CPU0
      })

      Return (_PSL)

  }

   ThermalZone (THM1)
   {
   }

   Method (NOTI)
   {
      Notify (\DEV1, 0)
      Notify (\THM1, 0)
      Notify (\_PR.CPU0, 0)
   }

   Method (_ERR, 3)
```

```
{
   Increment (ERRS)
   Store ("Run-time exception:", Debug)
   Store (Arg0, Debug)
   Store (Arg1, Debug)

   Return (0)          // Map error to AE_OK
}

Method (DIV0)
{
   Store (1, Local0)
   Store (0, Local1)
   Divide (Local0, Local1, Local3)

   Store ("DIV0 - noabort", Debug)
}

Method (ERR_, 2)
{
   Local0 = ToDecimalString (Arg1)
   if (LEqual (Arg0, 0))
   {
      Printf ("+*+*+*+* MTHD_ERROR at line %o: Results not equal!", Local0)
   }
   if (LEqual (Arg0, 1))
   {
      Printf ("+*+*+*+* MTHD_ERROR at line %o: Numeric result is incorrect!", Local0)
   }
   if (LEqual (Arg0, 2))
   {
      Printf ("+*+*+*+* MTHD_ERROR at line %o: Operand was clobbered!", Local0)

}

   Notify (DEV1, Arg0)
   Increment (ERRS)
}

Method (R226, 2)
{
}
Method (R225, 2)
{
   R226 (Arg0, Arg1)
}
Method (R224, 2)
{
```

```
    R225 (Arg1, Arg0)
  }
  Method (R223, 2)
  {
    R224 (Arg0, Arg1)
  }
  Method (R222, 2)
  {
    R223 (Arg1, Arg0)
  }
  Method (R111)
  {
    Store (0x01010101, Local0)
    R222 (0xABAB, Local0)
    Store (Local0, Local1)
  }

  Method (MAIN)
  {

//    SIZE()
    Store (NUM1(), Local0)
    \CMB1._BST()
    RDBT(1,2,3)
    OBJ1(1)
    OBJ2(2)
    CHEK()
    RETZ()
    BITZ()
    LOGS()
    REFS()
    COND()
    TZ2()

    //
    // iPCO tests added
    //
    Store (\IFEL.TEST(), Local0)
    if (LGreater (Local0, 0))
    {
      ERR_ (1, __LINE__)
      Return(Local0)
    }

    Store (\NOSV.TEST(), Local0)
    if (LGreater (Local0, 0))
    {
```

```
ERR_ (1, __LINE__)
    Return(Local0)
  }

  Store (\IDXF.TEST(), Local0)
  if (LGreater (Local0, 0))
  {
    ERR_ (1, __LINE__)
    Return(Local0)
  }

  Store (\_SB_.NSTL.TEST(), Local0)
  if (LGreater (Local0, 0))
  {
    ERR_ (1, __LINE__)
    Return(Local0)
  }

  Store (\RTBF.TEST(), Local0)
  if (LGreater (Local0, 0))
  {
    ERR_ (1, __LINE__)
    Return(Local0)
  }

  Store (\_SB_.RTLV.TEST(), Local0)
  if (LGreater (Local0, 0))
  {
    ERR_ (1, __LINE__)
    Return(Local0)
  }

  Store (\_SB_.RETP.TEST(), Local0)
  if (LGreater (Local0, 0))
  {
    ERR_ (1, __LINE__)
    Return(Local0)
  }

  Store (\WHLR.TEST(), Local0)
  if (LGreater (Local0, 0))
  {
    ERR_ (1, __LINE__)
    Return(Local0)
  }

  Store (\ANDO.TEST(),
```

```
Local0)
    if (LGreater (Local0, 0))
    {
      ERR_ (1, __LINE__)
      Return(Local0)
    }

    Store (\BRKP.TEST(), Local0)
    if (LGreater (Local0, 0))
    {
      ERR_ (1, __LINE__)
      Return(Local0)
    }

    Store (\ADSU.TEST(), Local0)
    if (LGreater (Local0, 0))
    {
      ERR_ (1, __LINE__)
      Return(Local0)
    }

    Store (\INDC.TEST(), Local0)
    if (LGreater (Local0, 0))
    {
      ERR_ (1, __LINE__)
      Return(Local0)
    }

    Store (\LOPS.TEST(), Local0)
    if (LGreater (Local0, 0))
    {
      ERR_ (1, __LINE__)
      Return(Local0)
    }

    Store (\FDSO.TEST(), Local0)
    if (LGreater (Local0, 0))
    {
      ERR_ (1, __LINE__)
      Return(Local0)
    }

    Store (\MLDV.TEST(), Local0)
    if (LGreater (Local0, 0))
    {
      ERR_ (1, __LINE__)
      Return(Local0)
```

```
 }

Store (\NBIT.TEST(), Local0)
if (LGreater (Local0, 0))
{
   ERR_ (1, __LINE__)
   Return(Local0)
}

Store (\SHFT.TEST(), Local0)
if (LGreater (Local0, 0))
{
   ERR_ (1, __LINE__)
   Return(Local0)
}

Store (\XORD.TEST(), Local0)
if (LGreater (Local0, 0))
{
   ERR_ (1, __LINE__)
   Return(Local0)
}

Store (\CRBF.TEST(), Local0)
if (LGreater (Local0, 0))
{
   ERR_ (1, __LINE__)
   Return(Local0)
}

Store (\IDX4.TEST(), Local0)
if (LGreater (Local0, 0))
{
   ERR_ (1, __LINE__)
   Return(Local0)
}

Store (\EVNT.TEST(), Local0)
if (LGreater (Local0, 0))
{
   ERR_ (1, __LINE__)
   Return(Local0)
}

Store (\SZLV.TEST(), Local0)
if (LGreater (Local0, 0))
```

```
{
    ERR_ (1, __LINE__)
    Return(Local0)
 }

 Store (\_SB_.BYTF.TEST(), Local0)
 if (LGreater (Local0, 0))
 {
    ERR_ (1, __LINE__)
    Return(Local0)
 }

 Store (\DWDF.TEST(), Local0)
 if (LGreater (Local0, 0))
 {
    ERR_ (1, __LINE__)
    Return(Local0)
 }

 Store (\DVAX.TEST(), Local0)
 if (LGreater (Local0, 0))
 {
    ERR_ (1, __LINE__)
    Return(Local0)
 }

 Store (\IDX6.TEST(), Local0)
 if (LGreater (Local0, 0))
 {
    ERR_ (1, __LINE__)
    Return(Local0)
 }

 Store (\IDX5.TEST(), Local0)
 if (LGreater (Local0, 0))
 {
    ERR_ (1, __LINE__)
    Return(Local0)
 }

 Store (\_SB_.IDX0.TEST(), Local0)
 if (LGreater (Local0, 0))
 {
    ERR_ (1, __LINE__)
    Return(Local0)
 }

 Store (\_SB_.IDX3.TEST(),
```

```
Local0)
    if (LGreater (Local0, 0))
    {
        ERR_ (1, __LINE__)
        Return(Local0)
    }

    Store (\IDX7.TEST(), Local0)
    if (LGreater (Local0, 0))
    {
        ERR_ (1, __LINE__)
        Return(Local0)
    }

    Store (\MTCH.TEST(), Local0)
    if (LGreater (Local0, 0))
    {
        ERR_ (1, __LINE__)
        Return(Local0)
    }

    Store (\WHLB.TEST(), Local0)
    if (LGreater (Local0, 0))
    {
        ERR_ (1, __LINE__)
        Return(Local0)
    }

    Store (\_SB_.IDX2.TEST(), Local0)
    if (LGreater (Local0, 0))
    {
        ERR_ (1, __LINE__)
        Return(Local0)
    }

    Store (\SIZO.TEST(), Local0)
    if (LGreater (Local0, 0))
    {
        ERR_ (1, __LINE__)
        Return(Local0)
    }

    Store (\_SB_.SMIS.TEST(), Local0)
    if (LGreater (Local0, 0))
    {
        ERR_ (1,
__LINE__)
        Return(Local0)
```

```
    }

    if (LGreater (ERRS, 0))
    {
        Store ("****** There were errors during the execution of the test ******", Debug)
    }

    // Flush all notifies

    Sleep (250)

    //
    // Last Test
    //

    Return(0) // Success
}


Method (OBJ1, 1, SERIALIZED)
{

    Store (3, Local0)
    Name(BUFR, Buffer (Local0) {})
    Name(BUF1, Buffer (4) {1,2,3,4})
    Name(BUF2, Buffer (4) {})

    Store (BUF1, BUF2)
    Mutex (MTX1, 4)

    Alias (MTX1, MTX2)
}


Mutex (MTXT, 0)
Mutex (MTXX, 0)

/*
 * Field Creation
 */

Method (FLDS,, Serialized)
{
    Store ("++++++++ Creating BufferFields", Debug)
    Name (BUF2, Buffer (128) {})

    CreateBitField (BUF2, 3, BIT2)
    CreateByteField (BUF2, 1, BYT2)
```

```
    CreateWordField (BUF2, 2, WRD2)
    CreateDwordField (BUF2, 4, DWD2)
    CreateQwordField (BUF2,
8, QWD2)
    CreateField (BUF2, 128, 12, FLD2)
    CreateField (BUF2, 148, 96, FLD3)

    Store (0x1, BIT2)
    Store (BIT2, Local0)
    if (LNotEqual (Local0, 0x1))
    {
       ERR_ (1, __LINE__)
    }
    else
    {
       Store (DerefOf (Index (BUF2, 0)), Local0)
       if (LNotEqual (Local0, 0x08))
       {
          ERR_ (1, __LINE__)
       }
       else
       {
          Store ("++++++++ Bit BufferField I/O PASS", Debug)
       }
    }

    Store (0x1A, BYT2)
    Store (BYT2, Local0)
    if (LNotEqual (Local0, 0x1A))
    {
       ERR_ (1, __LINE__)
    }
    else
    {
       Store ("++++++++ Byte BufferField I/O PASS", Debug)
    }

    Store (0x1234, WRD2)
    Store (WRD2, Local0)
    if (LNotEqual (Local0, 0x1234))
    {
       ERR_ (1, __LINE__)
    }
    else
    {
       Store ("++++++++ Word BufferField
I/O PASS", Debug)
    }
```

```
    Store (0x123, FLD2)
    Store (FLD2, Local0)
    if (LNotEqual (Local0, 0x123))
    {
        ERR_ (1, __LINE__)
    }
    else
    {
        Store ("++++++++ 12-bit BufferField I/O PASS", Debug)
    }

    Store (0x12345678, DWD2)
    Store (DWD2, Local0)
    if (LNotEqual (Local0, 0x12345678))
    {
        ERR_ (1, __LINE__)
    }
    else
    {
        Store ("++++++++ Dword BufferField I/O PASS", Debug)
    }

    Store (0x1234567887654321, QWD2)
    Store (QWD2, Local0)
    if (LNotEqual (Local0, 0x1234567887654321))
    {
        ERR_ (1, __LINE__)
    }
    else
    {
        Store ("++++++++ Qword BufferField I/O PASS", Debug)
    }
}


/* Field execution */

Method (FLDX,, Serialized)
{
    Field (\_SB_.MEM.SMEM, AnyAcc, NoLock, Preserve)
    {   //  Field:  SMEM overlay using 32-bit field elements
        SMD0,   32, //  32-bits
        SMD1,   32,     //  32-bits
        SMD2,   32,     //  32-bits
        SMD3,   32  //  32-bits
    }   //  Field:  SMEM overlay using 32-bit field elements
    Field (\_SB_.MEM.SMEM, AnyAcc, NoLock, Preserve)
```

```
    {   //  Field:  SMEM overlay using greater than 32-bit field elements
        SME0,   69, //  larger than an integer (32 or 64)
        SME1,   97  //  larger than an integer
    }   //  Field:  SMEM overlay using greater than 32-bit field elements
}


Method (MTX_, )
{
    /* Test "Force release" of mutex on method exit */

    Acquire (MTXT, 0xFFFF)
    Acquire (MTXX, 0xFFFF)

    Store ("++++++++ Acquiring Mutex MTX2", Debug)
    Acquire (_GL_, 0xFFFF)


    Store ("++++++++ Releasing Mutex MTX2", Debug)
    Release (_GL_)
}


Method (OBJ2, 1, Serialized)
{
    Store ("++++++++ Creating Buffer BUFO", Debug)
    Name (BUFO, Buffer (32)
{})

    Store ("++++++++ Creating OpRegion OPR2", Debug)
    OperationRegion (OPR2, SystemMemory, Arg0, 256)

    Store ("++++++++ Creating Field(s) in OpRegion OPR2", Debug)
    Field (OPR2, ByteAcc, NoLock, Preserve)
    {
        IDX2, 8,
        DAT2, 8,
        BNK2, 4
    }

    Store ("++++++++ Creating BankField BNK2 in OpRegion OPR2", Debug)
    //
    // mcw 3/20/00 - changed FET0, 4, FET1, 3 to FET0, 1, FET1, 1
    //
    BankField (OPR2, BNK2, 0, ByteAcc, NoLock, Preserve)
    {
        FET0, 4,
        FET1, 3
```

```
    }

    Store ("++++++++ Creating IndexField", Debug)
    IndexField (IDX2, DAT2, ByteAcc, NoLock, Preserve)
    {
       FET2, 4,
       FET3, 3
    }

    Store ("++++++++ SizeOf (BUFO)", Debug)
    SizeOf (BUFO)

    Store ("++++++++ Store (SizeOf (BUFO), Local0)", Debug)
    Store (SizeOf (BUFO), Local0)

    Store ("++++++++ Concatenate (\"abd\",
\"def\", Local0)", Debug)
    Concatenate ("abd", "def", Local0)
    Store (Local0, Debug)

    Store ("++++++++ Concatenate (\"abd\", 0x7B, Local0)", Debug)
    Concatenate ("abd", 0x7B, Local0)
    Store (Local0, Debug)

    Store ("++++++++ Creating Event EVT2", Debug)
    Event (EVT2)

    Store ("++++++++ Creating Mutex MTX2", Debug)
    Mutex (MTX2, 0)

    Store ("++++++++ Creating Alias MTXA to MTX2", Debug)
    Alias (MTX2, MTXA)

    Store ("++++++++ Acquiring Mutex MTX2", Debug)
    Acquire (MTX2, 0xFFFF)

    Store ("++++++++ Acquiring Mutex MTX2 (2nd acquire)", Debug)
    Acquire (MTX2, 1)

    Store ("++++++++ Releasing Mutex MTX2", Debug)
    Release (MTX2)

    // Type 1 opcodes

    Store ("++++++++ Signalling Event EVT2", Debug)
    Signal (EVT2)

    Store ("++++++++ Resetting Event EVT2", Debug)
```

```
    Reset (EVT2)

    Store ("++++++++ Signalling Event EVT2", Debug)

Signal (EVT2)

    Store ("++++++++ Waiting Event EVT2", Debug)
    Wait (EVT2, 0xFFFF)

    Store ("++++++++ Sleep", Debug)
    Sleep (100)

    Store ("++++++++ Stall", Debug)
    Stall (254)

    Store ("++++++++ NoOperation", Debug)
    Noop

    // Type 2 Opcodes

    Store ("++++++++ Return from Method OBJ2", Debug)
    return (4)
}


Method (NUM1, 0)
{
    /* ADD */

    Store ("++++++++ Add (0x12345678, 0x11111111, Local0)", Debug)
    Add (0x12345678, 0x11111111, Local0)

    Store ("++++++++ Store (Add (0x12345678, 0x11111111), Local1)", Debug)
    Store (Add (0x12345678, 0x11111111), Local1)

    Store ("++++++++ Checking result from ADD", Debug)
    if (LNotEqual (Local0, Local1))
    {
        ERR_ (0, __LINE__)
    }


    /* SUBTRACT */

    Store ("++++++++ Subtract (0x87654321, 0x11111111, Local4)", Debug)
    Subtract (0x87654321, 0x11111111, Local4)
```

```
Store ("++++++++ Store (Subtract (0x87654321, 0x11111111), Local5)", Debug)
    Store (Subtract (0x87654321, 0x11111111), Local5)

    Store ("++++++++ Checking result from SUBTRACT", Debug)
    if (LNotEqual (Local4, Local5))
    {
       ERR_ (0, __LINE__)
    }


    /* MULTIPLY */

    Store ("++++++++ Multiply (33, 10, Local6)", Debug)
    Multiply (33, 10, Local6)

    Store ("++++++++ Store (Multiply (33, 10), Local7)", Debug)
    Store (Multiply (33, 10), Local7)


    Store ("++++++++ Checking result from MULTIPLY", Debug)
    if (LNotEqual (Local6, Local7))
    {
       ERR_ (0, __LINE__)
    }


    /* DIVIDE */

    Store ("++++++++ Divide (100, 9, Local1, Local2)", Debug)
    Divide (100, 9, Local1, Local2)

    Store ("++++++++ Store (Divide (100, 9), Local3)", Debug)
    Store (Divide (100, 9), Local3)

    Store ("++++++++ Checking (quotient) result from DIVIDE", Debug)
    if
(LNotEqual (Local2, Local3))
    {
       ERR_ (0, __LINE__)
    }


    /* INCREMENT */

    Store ("++++++++ Increment (Local0)", Debug)
    Store (1, Local0)
    Store (2, Local1)
    Increment (Local0)
```

```
    Store ("++++++++ Checking result from INCREMENT", Debug)
    if (LNotEqual (Local0, Local1))
    {
       ERR_ (0, __LINE__)
    }


    /* DECREMENT */

    Store ("++++++++ Decrement (Local0)", Debug)
    Store (2, Local0)
    Store (1, Local1)
    Decrement (Local0)

    Store ("++++++++ Checking result from DECREMENT", Debug)
    if (LNotEqual (Local0, Local1))
    {
       ERR_ (0, __LINE__)
    }


    /* TOBCD */
    /* FROMBCD */

    Store ("++++++++ ToBCD (0x1234, Local5)", Debug)
    ToBCD (0x1234, Local5)

    Store ("++++++++ FromBCD (Local5, Local6)", Debug)
    FromBCD (Local5, Local6)

    Store ("++++++++ Return (Local6)", Debug)
    Return
(Local6)
  }


  Method (CHEK)
  {

    Store (3, Local0)
    Store (3, Debug)
    Store (Local0, Debug)
    Store (7, Local1)

    Add (Local0, Local1)
    if (LNotEqual (Local0, 3))
    {
```

```
        ERR_ (2, __LINE__)
    }
    if (LNotEqual (Local1, 7))
    {
        ERR_ (2, __LINE__)
    }


    Add (Local0, Local1, Local2)
    if (LNotEqual (Local0, 3))
    {
        ERR_ (2, __LINE__)
    }
    if (LNotEqual (Local1, 7))
    {
        ERR_ (2, __LINE__)
    }
}


Method (RET1)
{
    Store (3, Local0)
    Return (Local0)
}

Method (RET2)
{
    Return (RET1())
}

Method (RETZ)
{
    RET2 ()
}


Method (BITZ)
{
    Store ("++++++++ FindSetLeftBit (0x00100100, Local0)", Debug)
    FindSetLeftBit (0x00100100, Local0)
    if (LNotEqual (Local0, 21))
    {
        ERR_ (1, __LINE__)
    }

    Store ("++++++++
```

```
FindSetRightBit (0x00100100, Local1)", Debug)
    FindSetRightBit (0x00100100, Local1)
    if (LNotEqual (Local1, 9))
    {
       ERR_ (1, __LINE__)
    }

    Store ("++++++++ And (0xF0F0F0F0, 0x11111111, Local2)", Debug)
    And (0xF0F0F0F0, 0x11111111, Local2)
    if (LNotEqual (Local2, 0x10101010))
    {
       ERR_ (1, __LINE__)
    }

    Store ("++++++++ NAnd (0xF0F0F0F0, 0x11111111, Local3)", Debug)
    NAnd (0xF0F0F0F0, 0x11111111, Local3)
    if (LNotEqual (Local3, 0xEFEFEFEF))
    {
       ERR_ (1, __LINE__)
    }

    Store ("++++++++ Or (0x11111111, 0x22222222, Local4)", Debug)
    Or (0x11111111, 0x22222222, Local4)
    if (LNotEqual (Local4, 0x33333333))
    {
       ERR_ (1, __LINE__)
    }

    Store ("++++++++ NOr (0x11111111, 0x22222222, Local5)", Debug)
    NOr (0x11111111, 0x22222222, Local5)
    if (LNotEqual (Local5, 0xCCCCCCCC))
    {

   ERR_ (1, __LINE__)
    }

    Store ("++++++++ XOr (0x11113333, 0x22222222, Local6)", Debug)
    XOr (0x11113333, 0x22222222, Local6)
    if (LNotEqual (Local6, 0x33331111))
    {
       ERR_ (1, __LINE__)
    }

    Store ("++++++++ ShiftLeft (0x11112222, 2, Local7)", Debug)
    ShiftLeft (0x11112222, 2, Local7)
    if (LNotEqual (Local7, 0x44448888))
    {
       ERR_ (1, __LINE__)
```

```
    }

    Store ("++++++++ ShiftRight (Local7, 2, Local7)", Debug)
    ShiftRight (Local7, 2, Local7)
    if (LNotEqual (Local7, 0x11112222))
    {
        ERR_ (1, __LINE__)
    }


    Store ("++++++++ Not (Local0, Local1)", Debug)
    Store (0x22224444, Local0)
    Not (Local0, Local1)
    if (LNotEqual (Local0, 0x22224444))
    {
        ERR_ (2, __LINE__)
    }

    if (LNotEqual (Local1, 0xDDDDBBBB))
    {
        ERR_ (1, __LINE__)
    }

    Return (Local7)
}



Method (LOGS)
{

    Store ("++++++++ Store (LAnd (0xFFFFFFFF, 0x11111111), Local0)", Debug)
    Store (LAnd (0xFFFFFFFF, 0x11111111), Local0)

    Store ("++++++++ Store (LEqual (0xFFFFFFFF, 0x11111111), Local)", Debug)
    Store (LEqual (0xFFFFFFFF, 0x11111111), Local1)

    Store ("++++++++ Store (LGreater (0xFFFFFFFF, 0x11111111), Local2)", Debug)
    Store (LGreater (0xFFFFFFFF, 0x11111111), Local2)

    Store ("++++++++ Store (LGreaterEqual (0xFFFFFFFF, 0x11111111), Local3)", Debug)
    Store (LGreaterEqual (0xFFFFFFFF, 0x11111111), Local3)

    Store ("++++++++ Store (LLess (0xFFFFFFFF, 0x11111111), Local4)", Debug)
    Store (LLess (0xFFFFFFFF, 0x11111111), Local4)

    Store ("++++++++ Store (LLessEqual (0xFFFFFFFF, 0x11111111), Local5)", Debug)
    Store (LLessEqual (0xFFFFFFFF, 0x11111111), Local5)
```

```
    Store ("++++++++ Store (LNot (0x31313131), Local6)", Debug)
    Store (0x00001111, Local6)
    Store (LNot (Local6),
Local7)
    if (LNotEqual (Local6, 0x00001111))
    {
        ERR_ (2, __LINE__)
    }

    if (LNotEqual (Local7, 0x0))
    {
        ERR_ (1, __LINE__)
    }


    Store ("++++++++ Store (LNotEqual (0xFFFFFFFF, 0x11111111), Local7)", Debug)
    Store (LNotEqual (0xFFFFFFFF, 0x11111111), Local7)

    Store ("++++++++ Lor (0x0, 0x1)", Debug)
    if (Lor (0x0, 0x1))
    {
        Store ("+_+_+_+_+_+ Lor (0x0, 0x1) returned TRUE", Debug)
    }

    return (Local7)
}


Method (COND)
{
    Store ("++++++++ Store (0x4, Local0)", Debug)
    Store (0x4, Local0)

    Store ("++++++++ While (Local0)", Debug)
    While (Local0)
    {
        Store ("++++++++ Decrement (Local0)", Debug)
        Decrement (Local0)
    }


    Store ("++++++++ Store (0x3, Local6)", Debug)
    Store (0x3, Local6)

    Store ("++++++++ While (Subtract (Local6, 1))", Debug)
    While (Subtract
```

```
(Local6, 1))
    {
        Store ("++++++++ Decrement (Local6)", Debug)
        Decrement (Local6)
    }


    Store ("++++++++ [LVL1] If (LGreater (0x2, 0x1))", Debug)
    If (LGreater (0x2, 0x1))
    {
        Store ("++++++++ [LVL2] If (LEqual (0x11111111, 0x22222222))", Debug)
        If (LEqual (0x11111111, 0x22222222))
        {
            Store ("++++++++ ERROR: If (LEqual (0x11111111, 0x22222222)) returned TRUE", Debug)
        }

        else
        {
            Store ("++++++++ [LVL3] If (LNot (0x0))", Debug)
            If (LNot (0x0))
            {
                Store ("++++++++ [LVL4] If (LAnd (0xEEEEEEEE, 0x2))", Debug)
                If (LAnd (0xEEEEEEEE, 0x2))
                {
                    Store ("++++++++ [LVL5] If (LLess (0x44444444, 0x3))", Debug)
                    If (LLess (0x44444444, 0x3))
                    {
                        Store ("++++++++
ERROR: If (LLess (0x44444444, 0x3)) returned TRUE", Debug)
                    }

                    else
                    {
                        Store ("++++++++ Exiting from nested IF/ELSE statements", Debug)
                    }
                }
            }
        }
    }


    Store ("++++++++ [LVL1] If (LGreater (0x2, 0x1))", Debug)
    If (LGreater (0x2, 0x1))
    {
        Store ("++++++++ [LVL2] If (LEqual (0x11111111, 0x22222222))", Debug)
        If (LEqual (0x11111111, 0x22222222))
        {
            Store ("++++++++ ERROR: If (LEqual (0x11111111, 0x22222222)) returned TRUE", Debug)
```

```
        }

        else
        {
            Store ("++++++++ [LVL3] If (LNot (0x0))", Debug)
            If (LNot (0x0))
            {
                Store ("++++++++ [LVL4] If (LAnd (0xEEEEEEEE, 0x2))", Debug)
                If (LAnd (0xEEEEEEEE, 0x2))
                {

                 Store ("++++++++ [LVL5] If (LLess (0x44444444, 0x3))", Debug)
                    If (LLess (0x44444444, 0x3))
                    {
                        Store ("++++++++ ERROR: If (LLess (0x44444444, 0x3)) returned TRUE", Debug)
                    }

                    else
                    {
                        Store ("++++++++ Returning from nested IF/ELSE statements", Debug)
                        Return (Local6)
                    }
                }
            }
        }
    }

}


Method (REFS,, Serialized)
{
    Name (BBUF, Buffer() {0xB0, 0xB1, 0xB2, 0xB3, 0xB4, 0xB5, 0xB6, 0xB7})

    Name (NEST, Package ()
    {
        Package ()
        {
            0x01, 0x02, 0x03, 0x04, 0x05, 0x06
        },
        Package ()
        {
            0x11, 0x12, 0x12, 0x14, 0x15, 0x16
        }
    })

    Store (RefOf (MAIN), Local5)
```

```
  // For this to work, ABCD must NOT exist.

   Store (CondRefOf (ABCD, Local0), Local1)
   if (LNotEqual (Local1, 0))
   {
      ERR_ (2, __LINE__)
   }

   Store (CondRefOf (BBUF, Local0), Local1)
   if (LNotEqual (Local1, Ones))
   {
      ERR_ (2, __LINE__)
   }

   Store (DeRefOf (Index (BBUF, 3)), Local6)
   if (LNotEqual (Local6, 0xB3))
   {
      ERR_ (2, __LINE__)
   }

   Store (DeRefOf (Index (DeRefOf (Index (NEST, 1)), 3)), Local0)
   if (LNotEqual (Local0, 0x14))
   {
      ERR_ (2, __LINE__)
   }


   Store (0x11223344, Local0)
   Store (RefOf (Local0), Local1)

   Store (DerefOf (Local1), Local2)
   If (LNotEqual (Local2, 0x11223344))
   {
      ERR_ (2, __LINE__)
   }


/* Parser thinks this is a method invocation!! */

//  RefOf (MAIN)


//  RefOf (R___)
//  RefOf (BBUF)

//  Store (RefOf (Local0), Local1)
```

```
  //  CondRefOf (BBUF, Local2)
  //  CondRefOf (R___, Local3)

  //  Store (DerefOf (Local1), Local4)

  //  Return (Local4)
  }


  Method (INDX, 0, Serialized)
  {
     Name(STAT,Package(4){})
     Store(0x44443333,Index(STAT,0))
  }

//=================================================================
//=================================================================
//===================== iPCO TESTS ================================
//=================================================================
//=================================================================
//
//
// test IfElseOp.asl
//
//  test for IfOp and ElseOp, including validation of object stack cleanup
//
  Device (IFEL)
  {
     Name (DWRD, 1)
     Name (RSLT, 0)

     //  IFNR control method executes IfOp branch with NO nested Return
     //  and no Else branch
     Method (IFNR)
     {
        Store (DWRD, RSLT)
        If (LEqual (DWRD, 1))
        {

        Store (0, RSLT)
        }
     }   //  IFNR

     //  NINR control method does not execute If branch and has no Else branch
     Method (NINR)
     {
        Store (0, RSLT)
        If (LNotEqual (DWRD, 1))
```

```
        {
            Store (DWRD, RSLT)
        }
    }   //  NINR

    //  IENR control method executes IfOp branch with NO nested Return
    Method (IENR)
    {
        If (LEqual (DWRD, 1))
        {
            Store (0, RSLT)
        }
        Else
        {
            Store (DWRD, RSLT)
        }
    }   //  IENR

    //  ELNR control method executes ElseOp branch with NO nested Return
    Method (ELNR)
    {
        If (LNotEqual (DWRD, 1))
        {
            Store (DWRD, RSLT)
        }
        Else
        {
            Store (0, RSLT)
        }
    }   //  ELNR

    //  IFRT control method executes IfOp branch with nested
Return with
    //  no Else branch
    Method (IFRT)

    {
        If (LEqual (DWRD, 1))
        {
            Return (0)
        }
        Return (DWRD)
    }   //  IFRT

    //  IERT control method executes IfOp branch with nested Return with
    //  Else branch
    Method (IERT)
    {
```

```
        If (LEqual (DWRD, 1))
        {
            Return (0)
        }
        Else
        {
            Return (DWRD)
        }
    }  //  IERT

    //  ELRT control method executes ElseOp branch with nested Return
    Method (ELRT)
    {
        If (LNotEqual (DWRD, 1))
        {
            Return (DWRD)
        }
        Else
        {
            Return (0)
        }
    }  //  ELRT

    Method (TEST)
    {
        Store ("++++++++ IfElseOp Test", Debug)

        //  IfOp with NO return value
        IFNR()
        If (LNotEqual (RSLT,
0))
        {
            Return (RSLT)
        }

        //  IfOp with NO return value
        NINR()
        If (LNotEqual (RSLT, 0))
        {
            Return (RSLT)
        }

        //  IfOp with NO return value
        IENR()
        If (LNotEqual (RSLT, 0))
        {
            Return (RSLT)
        }
```

```
        //  ElseOp with NO return value
        ELNR()
        If (LNotEqual (RSLT, 0))
        {
           Return (RSLT)
        }

        //  IfOp with return value
        Store (IFRT, RSLT)
        If (LNotEqual (RSLT, 0))
        {
           Return (RSLT)
        }

        //  IfOp with return value
        Store (IERT, RSLT)
        If (LNotEqual (RSLT, 0))
        {
           Return (RSLT)
        }

        //  ElseOp with return value
        Store (ELRT, RSLT)
        If (LNotEqual (RSLT, 0))
        {

         Return (RSLT)
        }

        Return (0)
      }   //  TEST
    }   //  IFEL

//
// test NoSave.asl
//
//
//  Internal test cases to validate IfOp (Operator (,,)) where Operator
//  target is ZeroOp to throw away the results.
//  Includes internal test cases for logical operators with no destination
//  operands.
//
    Device (NOSV)
    {
       Method (TEST,, Serialized)
       {
          Store ("++++++++ NoSave Test", Debug)
```

```
        Name (WRD, 0x1234)

        //
        //  Begin test of nested operators without saving results
        //

        //  Test If (And ()) with no save of And result
        If (And (3, 1, ))
        {
           Store (1, WRD)  //  pass -- just do something
        }
        else
        {
           Return (1)      //  fail
        }

        //  Test If (And ()) with no save of And result
        If (And (4, 1, ))
        {
           Return (2)      //
fail
        }
        else
        {
           Store (2, WRD)  //  pass -- just do something
        }


        //  Test If (NAnd ()) with no save of NAnd result
        If (NAnd (3, 1, ))
        {
           Store (3, WRD)  //  pass -- just do something
        }
        else
        {
           Return (3)      //  fail
        }

        //  Test If (NAnd ()) with no save of NAnd result
        If (NAnd (0xFFFFFFFF, 0xFFFFFFFF, ))
        {
           Return (4)      // fail
        }
        else
        {
           Store (4, WRD)  //  pass -- just do something
        }
```

```
        //  Test If (NOr ()) with no save of NOr result
        If (NOr (0, 1, ))
        {
           Store (5, WRD)  //  pass -- just do something
        }
        else
        {
           Return (5)      //  fail
        }

        //  Test If (NOr ()) with no save
of NOr result
        If (NOr (0xFFFFFFFE, 1, ))
        {
           Return (6)      // fail
        }
        else
        {
           Store (6, WRD)  //  pass -- just do something
        }


        //  Test If (Not ()) with no save of Not result
        If (Not (1, ))
        {
           Store (7, WRD)  //  pass -- just do something
        }
        else
        {
           Return (7)      //  fail
        }

        //  Test If (Not ()) with no save of Not result
        If (Not (0xFFFFFFFF, ))
        {
           Return (8)      // fail
        }
        else
        {
           Store (8, WRD)  //  pass -- just do something
        }


        //  Test If (Or ()) with no save of Or result
        If (Or (3, 1, ))
        {
```

```
        Store (9, WRD)  //  pass -- just do something
    }
    else
    {
        Return (9)
//  fail
    }

    //  Test If (Or ()) with no save of Or result
    If (Or (0, 0, ))
    {
        Return (10)     //  fail
    }
    else
    {
        Store (10, WRD) //  pass -- just do something
    }


    //  Test If (XOr ()) with no save of XOr result
    If (XOr (3, 1, ))
    {
        Store (11, WRD) //  pass -- just do something
    }
    else
    {
        Return (11)     // fail
    }

    //  Test If (XOr ()) with no save of XOr result
    If (XOr (3, 3, ))
    {
        Return (12)     // fail
    }
    else
    {
        Store (12, WRD) //  pass -- just do something
    }


    //
    //  Begin test of logical operators with no destination operands
    //

    //  Test If (LAnd ()) with no save of LAnd result
     If (LAnd (3, 3))
    {
        Store (21, WRD) //  pass -- just do something
```

```
    }
    else
    {
        Return (21)     // fail
    }

    //  Test If (LAnd ()) with no save of LAnd result
    If (LAnd (3, 0))
    {
        Return (22)     // fail
    }
    else
    {
        Store (22, WRD) //  pass -- just do something
    }

    //  Test If (LAnd ()) with no save of LAnd result
    If (LAnd (0, 3))
    {
        Return (23)     //  fail
    }
    else
    {
        Store (23, WRD) //  pass -- just do something
    }

    //  Test If (LAnd ()) with no save of LAnd result
    If (LAnd (0, 0))
    {
        Return (24)     //  fail
    }
    else
    {
        Store (24, WRD) //  pass -- just do something

}


    //  Test If (LEqual ()) with no save of LEqual result
    If (LEqual (3, 3))
    {
        Store (31, WRD) //  pass -- just do something
    }
    else
    {
        Return (31)     //  fail
    }
```

```
  //  Test If (LEqual ()) with no save of LEqual result
  If (LEqual (1, 3))
  {
     Return (32)     //  fail
  }
  else
  {
     Store (32, WRD) //  pass -- just do something
  }


  //  Test If (LGreater ()) with no save of LGreater result
  If (LGreater (3, 1))
  {
     Store (41, WRD) //  pass -- just do something
  }
  else
  {
     Return (41)     //  fail
  }

  //  Test If (LGreater ()) with no save of LGreater result
  If (LGreater (4, 4))
  {
     Return (42)     //  fail

}
  else
  {
     Store (42, WRD) //  pass -- just do something
  }

  //  Test If (LGreater ()) with no save of LGreater result
  If (LGreater (1, 4))
  {
     Return (43)     //  fail
  }
  else
  {
     Store (43, WRD) //  pass -- just do something
  }

  //  Test If (LGreaterEqual ()) with no save of LGreaterEqual result
  If (LGreaterEqual (3, 1))
  {
     Store (44, WRD) //  pass -- just do something
  }
  else
```

```
        {
            Return (44)     //  fail
        }

        //  Test If (LGreaterEqual ()) with no save of LGreaterEqual result
        If (LGreaterEqual (3, 3))
        {
            Store (45, WRD) //  pass -- just do something
        }
        else
        {
            Return (45)     //  fail
        }


//  Test If (LGreaterEqual ()) with no save of LGreaterEqual result
        If (LGreaterEqual (3, 4))
        {
            Return (46)     //  fail
        }
        else
        {
            Store (46, WRD) //  pass -- just do something
        }


        //  Test If (LLess ()) with no save of LLess result
        If (LLess (1, 3))
        {
            Store (51, WRD) //  pass -- just do something
        }
        else
        {
            Return (51)     //  fail
        }

        //  Test If (LLess ()) with no save of LLess result
        If (LLess (2, 2))
        {
            Return (52)     //  fail
        }
        else
        {
            Store (52, WRD) //  pass -- just do something
        }

        //  Test If (LLess ()) with no save of LLess result
        If (LLess (4, 2))
```

```
        {
            Return (53)     //  fail
        }

    else
        {
            Store (53, WRD) //  pass -- just do something
        }


        //  Test If (LLessEqual ()) with no save of LLessEqual result
        If (LLessEqual (1, 3))
        {
            Store (54, WRD) //  pass -- just do something
        }
        else
        {
            Return (54)     //  fail
        }

        //  Test If (LLessEqual ()) with no save of LLessEqual result
        If (LLessEqual (2, 2))
        {
            Store (55, WRD) //  pass -- just do something
        }
        else
        {
            Return (55)     //  fail
        }

        //  Test If (LLessEqual ()) with no save of LLessEqual result
        If (LLessEqual (4, 2))
        {
            Return (56)     //  fail
        }
        else
        {
            Store (56, WRD) //  pass -- just do something
        }


        //  Test If (LNot ()) with no save
    of LNot result
        If (LNot (0))
        {
            Store (61, WRD) //  pass -- just do something
        }
        else
```

```
{
   Return (61)     //  fail
}

//  Test If (LNot ()) with no save of LNot result
If (LNot (1))
{
   Return (62)     //  fail
}
else
{
   Store (62, WRD) //  pass -- just do something
}


//  Test If (LNotEqual ()) with no save of LNotEqual result
If (LNotEqual (3, 3))
{
   Return (63)     //  fail
}
else
{
   Store (63, WRD) //  pass -- just do something
}

//  Test If (LNotEqual ()) with no save of LNotEqual result
If (LNotEqual (1, 3))
{
   Store (64, WRD) //  pass -- just do something
}
else
{

   Return (64)     //  fail
}


//  Test If (LOr ()) with no save of LOr result
If (LOr (3, 1))
{
   Store (71, WRD) //  pass -- just do something
}
else
{
   Return (71)     //  fail
}

//  Test If (LOr ()) with no save of LOr result
```

```
        If (LOr (0, 1))
        {
            Store (72, WRD) //  pass -- just do something
        }
        else
        {
            Return (72)     //  fail
        }

        //  Test If (LOr ()) with no save of LOr result
        If (LOr (3, 0))
        {
            Store (73, WRD) //  pass -- just do something
        }
        else
        {
            Return (73)     //  fail
        }

        //  Test If (LOr ()) with no save of LOr result
        If (LOr (0, 0))
        {
            Return (74)     //  fail

    }
        else
        {
            Store (74, WRD) //  pass -- just do something
        }

        Return (0)
    }   //  TEST
  }   //  NOSV


//
// test IndxFld.asl
//
//  IndexFld test
//      This is just a subset of the many RegionOp/Index Field test cases.
//      Tests index field element AccessAs macro.
//
  Device (IDXF)
  {   //  Test device name

      OperationRegion (SIO, SystemIO, 0x100, 2)
      Field (SIO, ByteAcc, NoLock, Preserve)
      {
```

```
        INDX,   8,
        DATA,   8
      }
      IndexField (INDX, DATA, AnyAcc, NoLock, WriteAsOnes)
      {
        AccessAs (ByteAcc, 0),
        IFE0,   8,
        IFE1,   8,
        IFE2,   8,
        IFE3,   8,
        IFE4,   8,
        IFE5,   8,
        IFE6,   8,
        IFE7,   8,
        IFE8,   8,
        IFE9,   8,
      }

      Method (TEST)
      {
        Store ("++++++++ IndxFld Test", Debug)


    Store (IFE0, Local0)
        Store (IFE1, Local1)
        Store (IFE2, Local2)

        Return (0)
      }   //  TEST
    }   //  IDXF

//
// test NestdLor.asl
//
    Scope (\_SB)    //  System Bus
    {   //  _SB system bus

      Name (ZER0, 0)
      Name (ZER1, 0)
      Name (ZER2, 0)
      Name (ONE0, 1)

      Device (NSTL)
      {
        Method (TEST)
        {
          Store ("++++++++ NestdLor Test", Debug)
```

```
            If (Lor (ZER0, Lor (ZER1, Lor (ZER2, ONE0))))
            {   //  Indicate Pass
               Store (0x00, Local0)
            }

            Else
            {   //  Indicate Fail
               Store (0x01, Local0)
            }

            Return (Local0)
         }   //  End Method TEST
      }   //  Device NSTL
   }   //  _SB system bus

//
// test RetBuf.asl
//
//  Test ReturnOp(Buffer)
//      This is required to support Control Method Batteries on
//          Dell
 Latitude Laptops (e.g., CP1-A)
//
   Device (RTBF)
   {
      Method (SUBR, 1)
      {
         Return (Arg0)
      }

      Method (RBUF,, Serialized)
      {   //  RBUF: Return Buffer from local variable
         Name (ABUF, Buffer() {"ARBITRARY_BUFFER"})

         //  store local buffer ABUF into Local0
         Store (ABUF, Local0)

         //  save Local0 object type value into Local1
         Store (ObjectType (Local0), Local1)

         //  validate Local0 is a Buffer
         If (LNotEqual (Local1, 3))  //  Buffer type is 3
         {
            Return (1)      //  failure
         }

         //  store value returned by control method SUBR into Local0
         Store (SUBR (ABUF), Local0)
```

```
    // save Local0 object type value into Local1
    Store (ObjectType (Local0), Local1)

    // validate Local0 is a Buffer
    If (LNotEqual (Local1, 3)) // Buffer type is 3
    {

Return (2)     // failure
    }

    // allocate buffer using Local1 as buffer size (run-time evaluation)
    Store (5, Local1)
    Name (BUFR, Buffer(Local1) {})

    // store value returned by control method SUBR into Local0
    Store (SUBR (BUFR), Local0)

    // save Local0 object type value into Local1
    Store (ObjectType (Local0), Local1)

    // validate Local0 is a Buffer
    If (LNotEqual (Local1, 3)) // Buffer type is 3
    {
      Return (3)     // failure
    }

    // store BUFR Buffer into Local0
    Store (BUFR, Local0)

    // save Local0 object type value into Local1
    Store (ObjectType (Local0), Local1)

    // validate Local0 is a Buffer
    If (LNotEqual (Local1, 3)) // Buffer type is 3
    {
      Return (4)     // failure
    }


    // return Local0 Buffer
     Return (Local0)
  }  // RBUF

  Method (TEST)
  {
    Store ("++++++++ RetBuf Test", Debug)
```

```
        //  store RBUF Buffer return value into Local0
        Store (RBUF, Local0)

        //  save Local0 object type value into Local1
        Store (ObjectType (Local0), Local1)

        //  validate Local0 is a Buffer
        If (LNotEqual (Local1, 3))  //  Buffer type is 3
        {
           Return (10)     //  failure
        }
        Else
        {
           Return (0)      //  success
        }
     }   //  TEST
  }   //  RTBF

//
// test RetLVal.asl
//
//  Test ReturnOp(Lvalue)
//      This is required to support _PSR on IBM ThinkPad 560D and
//      _DCK on Toshiba Tecra 8000.
//

  Device (GPE2)
  {
     Method (_L03)
     {
        Store ("Method GPE2._L03 invoked", Debug)
        Return ()
     }

     Method (_E05)
     {
        Store ("Method
 GPE2._E05 invoked", Debug)
        Return ()
     }
  }

  Device (PRW2)
  {
     Name (_PRW, Package(2) {Package(2){\GPE2, 0x05}, 3})
  }
```

```
 Scope (\_GPE)
 {
    Name (ACST, 0xFF)

    Method (_L08)
    {
       Store ("Method _GPE._L08 invoked", Debug)
       Return ()
    }

    Method (_E09)
    {
       Store ("Method _GPE._E09 invoked", Debug)
       Return ()
    }

    Method (_E11)
    {
       Store ("Method _GPE._E11 invoked", Debug)
       Notify (\PRW1, 2)
    }

    Method (_L22)
    {
       Store ("Method _GPE._L22 invoked", Debug)
       Return ()
    }

    Method (_L33)
    {
       Store ("Method _GPE._L33 invoked", Debug)
       Return ()
    }

    Method (_E64)
    {
       Store ("Method _GPE._E64 invoked", Debug)
       Return ()
    }

 }  //  _GPE

 Device (PRW1)
 {
    Name (_PRW, Package(2)
{0x11, 3})
 }
```

```
  Device (PWRB)
  {
     Name (_HID, EISAID("PNP0C0C"))
     Name (_PRW, Package(2) {0x33, 3})
  }


  Scope (\_SB)    //  System Bus
  {   //  _SB system bus

     Device (ACAD)
     {   //  ACAD:   AC adapter device
        Name (_HID, "ACPI0003") //  AC adapter device

        Name (_PCL, Package () {\_SB})

        OperationRegion (AREG, SystemIO, 0x0372, 2)
        Field (AREG, ByteAcc, NoLock, Preserve)
        {
           AIDX,   8,
           ADAT,   8
        }
        IndexField (AIDX, ADAT, ByteAcc, NoLock, Preserve)
        {
              ,  1,  //  skips
           ACIN,   1,
              ,  2,  //  skips
           CHAG,   1,
              ,  3,  //  skips
              ,  7,  //  skips
           ABAT,   1,
        }   //  IndexField

        Method (_PSR)
        {
           Store (\_GPE.ACST, Local0)
           Store
(ACIN, Local1)
           If (LNotEqual (\_GPE.ACST, Local1))
           {
              Store (Local1, \_GPE.ACST)
              // This Notify is commented because it causes a
              //  method error when running on a system without the
              //  specific device.
              // Notify (\_SB_.ACAD, 0)
           }
           Return (Local0)
        }   //  _PSR
```

```
        Method (_STA)
        {
            Return (0x0F)
        }

        Method (_INI)
        {
            Store (ACIN, \_GPE.ACST)
        }
    }  //  ACAD:   AC adapter device

    //  test implicit return from control method
    Method (DIS_, 1)
    {
        Store (Arg0, Local0)
    }

    Device (RTLV)
    {
        //  test implicit return inside nested if with explicit return of Lvalue
        Method (_DCK, 1)
        //  Arg0:   1 == dock, 0 == undock

{
            If (Arg0)
            {   //  dock
                Store (0x87, Local0)

                If (Local0)
                {
                    DIS_ (0x23)
                    Return (1)
                }

                Return (0)
            }   //  dock
            Else
            {   //  undock
                Store (Arg0, Local0)

                If (Local0)
                {
                    DIS_ (0x23)
                    Return (1)
                }

                Return (0)
```

```
            }   //  undock
        }   //  _DCK control method

        Method (TEST)
        {
            Store ("++++++++ RetLVal Test", Debug)

            //  store _PSR return value into Local0
            Store (\_SB_.ACAD._PSR, Local0)

            //  save Local0 object type value into Local1
            Store (ObjectType (Local0), Local1)

            //  validate Local0
is a Number
            If (LNotEqual (Local1, 1))  //  Number/Integer type is 1
            {
                Return (1)      //  failure
            }

            //  test implicit return inside nested if with explicit return of Lvalue
            Store (_DCK (1), Local2)

            //  save Local2 object type value into Local3
            Store (ObjectType (Local2), Local3)

            //  validate Local2 is a Number
            If (LNotEqual (Local3, 1))  //  Number/Integer type is 1
            {
                Return (2)      //  failure
            }

            If (LNotEqual (Local2, 1))
            {
                Return (3)      //  failure
            }

            Return (0)  //  success
        }   //  TEST
    }   //  RTLV
}   //  _SB system bus

//
// test RetPkg.asl
//
//  Test ReturnOp(Package)
//      This is required to support _PRT on Dell Optiplex Workstations (e.g. GX1)
//
```

```
 Scope (\_SB)    //  System Bus
{   //  _SB system bus
   Device(LNKA)
   {
      Name (_HID, EISAID("PNP0C0F"))  //  PCI interrupt link
      Name (_UID, 1)
   }
   Device(LNKB)
   {
      Name (_HID, EISAID("PNP0C0F"))  //  PCI interrupt link
      Name (_UID, 2)
   }
   Device(LNKC)
   {
      Name (_HID, EISAID("PNP0C0F"))  //  PCI interrupt link
      Name (_UID, 3)
   }
   Device(LNKD)
   {
      Name (_HID, EISAID("PNP0C0F"))  //  PCI interrupt link
      Name (_UID, 4)
   }

   Device (PCI1)
   {   //  PCI1:   Root PCI Bus
      Name (_HID, "PNP0A03")  //  Need _HID for root device (String format)
      Name (_ADR,0x00000000)
      Name (_CRS,0)

      Name (_PRT, Package ()
      {
         Package () {0x0004ffff, 0, LNKA, 0},          //  Slot 1, INTA
         Package () {0x0004ffff, 1, LNKB, 0},
   //  Slot 1, INTB
         Package () {0x0004ffff, 2, LNKC, 0},          //  Slot 1, INTC
         Package () {0x0004ffff, 3, LNKD, 0},          //  Slot 1, INTD
         Package () {0x0005ffff, 0, \_SB_.LNKB, 0},  //  Slot 2, INTA
         Package () {0x0005ffff, 1, \_SB_.LNKC, 0},  //  Slot 2, INTB
         Package () {0x0005ffff, 2, \_SB_.LNKD, 0},  //  Slot 2, INTC
         Package () {0x0006ffff, 3, \_SB_.LNKA, 0},  //  Slot 2, INTD
         Package () {0x0006ffff, 0, LNKC, 0},          //  Slot 3, INTA
         Package () {0x0006ffff, 1, LNKD, 0},          //  Slot 3, INTB
         Package () {0x0006ffff, 2, LNKA, 0},          //  Slot 3, INTC
         Package () {0x0006ffff, 3, LNKB, 0},          //  Slot 3, INTD
      })

      Device (PX40)
```

```
        {   // Map f0 space, Start PX40
            Name (_ADR,0x00070000)  //  Address+function.
        }
    }   //  PCI0:
  Root PCI Bus

    Device (RETP)
    {
        Method (RPKG)
        {   //  RPKG: Return Package from local variable

            //  store _PRT package into Local0
            Store (\_SB_.PCI1._PRT, Local0)

            //  return Local0 Package
            Return (Local0)
        }   //  RPKG

        Method (TEST)
        {
            Store ("++++++++ RetPkg Test", Debug)

            //  store RPKG package return value into Local0
            Store (RPKG, Local0)

            //  save Local0 object type value into Local1
            Store (ObjectType (Local0), Local1)

            //  validate Local0 is a Package
            If (LNotEqual (Local1, 4))  //  Package type is 4
                {   Return (1)  }   //  failure
            Else
                {   Return (0)  }   //  success
        }   //  TEST
    }   //  RETP
  } // _SB_

//
// test WhileRet.asl
//
//  WhileRet.asl tests
 a ReturnOp nested in a IfOp nested in a WhileOp.
//
  Device (WHLR)
  {
    Name (LCNT, 0)
    Method (WIR)
    {   //  WIR:    control method that returns inside of IfOp inside of WhileOp
```

```
        While (LLess (LCNT, 4))
        {
            If (LEqual (LCNT, 2))
            {
               Return (0)
            }

           Increment (LCNT)
        }

        Return (LCNT)
    }  //  WIR:    control method that returns inside of IfOp inside of WhileOp

    Method (TEST)
    {
        Store ("++++++++ WhileRet Test", Debug)

        Store (WIR, Local0)

        Return (Local0)
    }  //  TEST
  }  //  WHLR

//
// test AndOrOp.asl
//
//This code tests the bitwise AndOp and OrOp Operator terms
//
//Syntax of Andop term
//And - Bitwise And
//AndTerm   := And(
//  Source1,    //TermArg=>Integer
//  Source2,    //TermArg=>Integer
//  Result  //Nothing | SuperName
//) => Integer
//Source1
 and Source2 are evaluated as integer data types,
// a bit-wise AND is performed, and the result is optionally
//stored into Result.
//
//
//Syntax of OrOp
//Or - Bit-wise Or
//OrTerm    := Or(
//  Source1,    //TermArg=>Integer
//  Source2 //TermArg=>Integer
//  Result  //Nothing | SuperName
//) => Integer
```

```
//Source1 and Source2 are evaluated as integer data types,
// a bit-wide OR is performed, and the result is optionally
//stored in Result
//
  Device (ANDO)
  {
    OperationRegion (TMEM, SystemMemory, 0xC4, 0x02)
    Field (TMEM, ByteAcc, NoLock, Preserve)
    {
          ,   3,
       TOUD,   13
    }

    //Create System Memory Operation Region and field overlays
    OperationRegion (RAM, SystemMemory, 0x400000, 0x100)
    Field (RAM, AnyAcc, NoLock, Preserve)
    {
      SMDW,   32, //  32-bit DWORD
      SMWD,   16, //  16-bit WORD
      SMBY,   8,  //  8-bit BYTE
    }// Field(RAM)


    //And with Byte
Data
    Name (BYT1, 0xff)
    Name (BYT2, 0xff)
    Name (BRSL, 0x00)

    //And with Word Data
    Name (WRD1, 0xffff)
    Name (WRD2, 0xffff)
    Name (WRSL, 0x0000)

    //And with DWord Data
    Name (DWD1, 0xffffffff)
    Name (DWD2, 0xffffffff)
    Name (DRSL, 0x00000000)

    Method (ANDP)
    {
      //Check with 1 And 1 on byte data
      And(BYT1, BYT2, BRSL)
      if(LNotEqual(BRSL,0xff))
      {Return(1)}

      //Check with 1 And 1 on Word data
      And(WRD1, WRD2, WRSL)
```

```
if(LNotEqual(WRSL,0xffff))
{
   Return (1)      //  failure
}

//Check with 1 And 1 Dword
And(DWD1, DWD2, DRSL)
if(LNotEqual(DRSL,0xffffffff))
{
   Return (1)      //  failure
}

//Check with 0 And 0 on byte data
Store(0x00,BYT1)
Store(0x00,BYT2)
Store(0x00,BRSL)
 And(BYT1, BYT2, BRSL)
if(LNotEqual(BRSL,0x00))
{
   Return (1)      //  failure
}

//Check with 0 And 0 on Word data
Store (0x0000,WRD1)
Store (0x0000,WRD2)
Store (0x0000,WRSL)
And(WRD1, WRD2, WRSL)
if(LNotEqual(WRSL,0x0000))
{
   Return (1)      //  failure
}

//Check with 0 And 0 Dword
Store (0x00000000,DWD1)
Store (0x00000000,DWD2)
Store (0x00000000,DRSL)
And(DWD1, DWD2, DRSL)
if(LNotEqual(DRSL,0x00000000))
{
   Return (1)      //  failure
}


//Check with 1 And 0 on byte data
Store(0x55,BYT1)
Store(0xAA,BYT2)
Store(0x00,BRSL)
And(BYT1, BYT2, BRSL)
```

```
    if(LNotEqual(BRSL,0x00))
    {
       Return (1)      //  failure
     }

    //Check with 1 And 0 on Word data
    Store (0x5555,WRD1)
    Store (0xAAAA,WRD2)
    Store (0x0000,WRSL)
    And(WRD1, WRD2, WRSL)
    if(LNotEqual(WRSL,0x0000))
    {
       Return (1)      //  failure
    }

    //Check with 1 And 0 on Dword
    Store (0x55555555,DWD1)
    Store (0xAAAAAAAA,DWD2)
    Store (0x00000000,DRSL)
    And(DWD1, DWD2, DRSL)
    if(LNotEqual(DRSL,0x00000000))
    {
       Return (1)      //  failure
    }

    Store (0x1FFF, TOUD)
    Store (TOUD, Local0)
    if(LNotEqual(Local0,0x1FFF))
    {
       Return (1)      //  failure
    }

    //TBD- Do We need to check for system memory data also for each test case ??

    Return(0)

}//ANDP

Method (OROP)
{

    //Check with 1 Ored with 1 on byte data
     Store(0xff,BYT1)
    Store(0xff,BYT2)
    Store(0x00,BRSL)
    Or(BYT1, BYT2, BRSL)
    if(LNotEqual(BRSL,0xff))
    {
```

```
   Return (1)      //  failure
}


//Check with 1 Ored with 1 on Word data
Store(0xffff,WRD1)
Store(0xffff,WRD2)
Store(0x0000,WRSL)
Or(WRD1, WRD2, WRSL)
if(LNotEqual(WRSL,0xffff))
{
   Return (1)      //  failure
}

//Check with 1 Ored with 1 on Dword data
Store(0xffffffff,DWD1)
Store(0xffffffff,DWD2)
Store(0x00000000,DRSL)
Or(DWD1, DWD2, DRSL)
if(LNotEqual(DRSL,0xffffffff))
{
   Return (1)      //  failure
}

//Check with 0 Ored with 0 on byte data
Store(0x00,BYT1)
Store(0x00,BYT2)
Store(0x00,BRSL)
Or(BYT1, BYT2, BRSL)
 if(LNotEqual(BRSL,0x00))
{
   Return (1)      //  failure
}

//Check with 0 Ored with 0 on Word data
Store (0x0000,WRD1)
Store (0x0000,WRD2)
Store (0x0000,WRSL)
Or(WRD1, WRD2, WRSL)
if(LNotEqual(WRSL,0x0000))
{
   Return (1)      //  failure
}

//Check with 0 Ored with  0 Dword data
Store (0x00000000,DWD1)
Store (0x00000000,DWD2)
Store (0x00000000,DRSL)
```

```
    Or(DWD1, DWD2, DRSL)
    if(LNotEqual(DRSL,0x00000000))
    {
      Return (1)      //  failure
    }


    //Check with 1 Ored with 0 on byte data
    Store(0x55,BYT1)
    Store(0xAA,BYT2)
    Store(0x00,BRSL)
    Or(BYT1, BYT2, BRSL)
    if(LNotEqual(BRSL,0xff))
    {
      Return (1)      //  failure
    }


    //Check with 1 Ored with 0 on Word data
    Store (0x5555,WRD1)
    Store (0xAAAA,WRD2)
    Store (0x0000,WRSL)
    Or(WRD1, WRD2, WRSL)
    if(LNotEqual(WRSL,0xffff))
    {
      Return (1)      //  failure
    }

    //Check with 1 Ored with 0 on Dword data
    Store (0x55555555,DWD1)
    Store (0xAAAAAAAA,DWD2)
    Store (0x00000000,DRSL)
    Or(DWD1, DWD2, DRSL)
    if(LNotEqual(DRSL,0xffffffff))
    {
      Return (1)      //  failure
    }

    //TBD - Do We need to check for system memory data also for each test case ??

    Return(0)

}//OROP

Method(TEST,, Serialized)
{
    Store ("++++++++ AndOrOp Test", Debug)
```

```
        Name(RSLT,1)
        //Call Andop method
        Store(ANDP,RSLT)
        if(LEqual(RSLT,1))
        {
           Return (RSLT)

  }

        //Call OrOp Method
        Store(OROP,RSLT)
        if(LEqual(RSLT,1))
        {
           Return(RSLT)
        }

        //
        // Return original conditions to allow iterative execution
        //
        Store(0xff,BYT1)
        Store(0xff,BYT2)
        Store(0x00,BRSL)
        Store (0xffff,WRD1)
        Store (0xffff,WRD2)
        Store (0x0000,WRSL)
        Store (0xffffffff,DWD1)
        Store (0xffffffff,DWD2)
        Store (0x00000000,DRSL)

        Return(0)
     }   //TEST
   }   //ANDO

//
// test BreakPnt.asl
//
// This code tests the BreakPoint opcode term. The syntax of BreakPoint Term is
// BreakPointTerm    := BreakPoint
// Used for debugging, the Breakpoint opcode stops the execution and enters the AML debugger.
// In the non-debug version of the interpreter, BreakPoint is equivalent to Noop.
//
   Device (BRKP)
   {
      Name(CNT0,0)

      Method (BK1)
      {
```

```
            BreakPoint
            Return(0)
        }

        Method (TEST)
        {
            Store ("++++++++ BreakPnt Test", Debug)

            Store(0,CNT0)

            //Check BreakPoint statement
            While(LLess(CNT0,10))
            {
                Increment(CNT0)
            }

            //Check the BreakPoint statement
            If(LEqual(CNT0,10))
            {
    //            BreakPoint
                Return(0)
            }

            //failed
            Return(1)
        }
    }

//
// test AddSubOp.asl
//
    Device (ADSU)
    {
        //  create System Memory Operation Region and field overlays
        OperationRegion (RAM, SystemMemory, 0x400000, 0x100)
        Field (RAM, AnyAcc, NoLock, Preserve)
        {
            SMDW,   32, //  32-bit DWORD
            SMWD,   16, //  16-bit WORD
            SMBY,   8,  //  8-bit BYTE
        }   //  Field(RAM)

        Method (TEST,, Serialized)
        {
            Store ("++++++++ AddSubOp Test",
    Debug)

            Name (DWRD, 0x12345678)
```

```
        Name (WRD, 0x1234)
        Name (BYT, 0x12)

        //  Test AddOp with DWORD data
        Store (0x12345678, DWRD)
        Add (DWRD, 7, DWRD)
        If (LNotEqual (DWRD, 0x1234567F))
           {   Return (DWRD)   }

        //  Test AddOp with WORD data
        Add (WRD, 5, WRD)
        If (LNotEqual (WRD, 0x1239))
           {   Return (WRD)    }

        //  Test AddOp with BYTE data
        Add (BYT, 3, BYT)
        If (LNotEqual (BYT, 0x15))
           {   Return (BYT)    }

        //  Test SubtractOp with DWORD data
        Subtract (DWRD, 7, DWRD)
        If (LNotEqual (DWRD, 0x12345678))
           {   Return (DWRD)   }

        //  Test SubtractOp with WORD data
        Subtract (WRD, 3, WRD)
        If (LNotEqual (WRD, 0x1236))
           {   Return (WRD)    }

        //  Test SubtractOp with BYTE data
        Subtract
(BYT, 3, BYT)
        If (LNotEqual (BYT, 0x12))
           {   Return (BYT)    }


        //  test AddOp with DWORD SystemMemory OpRegion
        Store (0x01234567, SMDW)
        Add (SMDW, 8, SMDW)
        If (LNotEqual (SMDW, 0x0123456F))
           {   Return (SMDW)   }

        //  test SubtractOp with DWORD SystemMemory OpRegion
        Subtract (SMDW, 7, SMDW)
        If (LNotEqual (SMDW, 0x01234568))
           {   Return (SMDW)   }
```

```
        //  test AddOp with WORD SystemMemory OpRegion
        Store (0x0123, SMWD)
        Add (SMWD, 6, SMWD)
        If (LNotEqual (SMWD, 0x0129))
           {   Return (SMWD)   }

        //  test SubtractOp with WORD SystemMemory OpRegion
        Subtract (SMWD, 5, SMWD)
        If (LNotEqual (SMWD, 0x0124))
           {   Return (SMWD)   }


        //  test AddOp with BYTE SystemMemory OpRegion
        Store (0x01, SMBY)
        Add (SMBY,
 4, SMBY)
        If (LNotEqual (SMBY, 0x05))
           {   Return (SMBY)   }

        //  test SubtractOp with BYTE SystemMemory OpRegion
        Subtract (SMBY, 3, SMBY)
        If (LNotEqual (SMBY, 0x02))
           {   Return (SMBY)   }

        Return (0)
     }   //  TEST
  }   //  ADSU

//
// test IncDecOp.asl
//
  Device (INDC)
  {
     //  create System Memory Operation Region and field overlays
     OperationRegion (RAM, SystemMemory, 0x400000, 0x100)
     Field (RAM, AnyAcc, NoLock, Preserve)
     {
        SMDW,   32, //  32-bit DWORD
        SMWD,   16, //  16-bit WORD
        SMBY,   8,  //  8-bit BYTE
     }   //  Field(RAM)

     Method (TEST,, Serialized)
     {
        Store ("++++++++ IncDecOp Test", Debug)

        Name (DWRD, 0x12345678)
        Name (WRD, 0x1234)
```

```
Name (BYT, 0x12)

// Test IncrementOp with DWORD data
Store (0x12345678, DWRD)

Increment (DWRD)
If (LNotEqual (DWRD, 0x12345679))
   {   Return (DWRD)   }

// Test IncrementOp with WORD data
Increment (WRD)
If (LNotEqual (WRD, 0x1235))
   {   Return (WRD)    }

// Test IncrementOp with BYTE data
Increment (BYT)
If (LNotEqual (BYT, 0x13))
   {   Return (BYT)    }

// Test DecrementOp with DWORD data
Decrement (DWRD)
If (LNotEqual (DWRD, 0x12345678))
   {   Return (DWRD)   }

// Test DecrementOp with WORD data
Decrement (WRD)
If (LNotEqual (WRD, 0x1234))
   {   Return (WRD)    }

// Test DecrementOp with BYTE data
Decrement (BYT)
If (LNotEqual (BYT, 0x12))
   {   Return (BYT)    }


// test IncrementOp with DWORD SystemMemory OpRegion
Store (0x01234567, SMDW)

Increment (SMDW)
If (LNotEqual (SMDW, 0x01234568))
   {   Return (SMDW)   }

// test DecrementOp with DWORD SystemMemory OpRegion
Decrement (SMDW)
If (LNotEqual (SMDW, 0x01234567))
   {   Return (SMDW)   }
```

```
        //  test IncrementOp with WORD SystemMemory OpRegion
        Store (0x0123, SMWD)
        Increment (SMWD)
        If (LNotEqual (SMWD, 0x0124))
           {   Return (SMWD)   }

        //  test DecrementOp with WORD SystemMemory OpRegion
        Decrement (SMWD)
        If (LNotEqual (SMWD, 0x0123))
           {   Return (SMWD)   }


        //  test IncrementOp with BYTE SystemMemory OpRegion
        Store (0x01, SMBY)
        Increment (SMBY)
        If (LNotEqual (SMBY, 0x02))
           {   Return (SMBY)   }

        //  test DecrementOp with BYTE SystemMemory OpRegion
        Decrement (SMBY)
        If (LNotEqual
(SMBY, 0x01))
           {   Return (SMBY)   }

        Return (0)
     }   //  TEST
  }   //  INDC

//
// test LOps.asl
//
//This source tests all the logical operators. Logical operators in ASL are as follows.
//LAnd, LEqual, LGreater, LLess, LNot, LNotEqual, LOr.
// Success will return 0 and failure will return a non zero number. Check the source code for
// non zero number to find where the test failed

  Device (LOPS)
  {
     //Create System Memory Operation Region and field overlays
     OperationRegion (RAM, SystemMemory, 0x400000, 0x100)
     Field (RAM, AnyAcc, NoLock, Preserve)
     {
        SMDW,   32, //  32-bit DWORD
        SMWD,   16, //  16-bit WORD
        SMBY,   8,  //  8-bit BYTE
     }// Field(RAM)

     //And with Byte Data
```

```
Name (BYT1, 0xff)
Name (BYT2, 0xff)
Name (BRSL, 0x00)

//And with Word Data
Name (WRD1, 0xffff)
Name (WRD2, 0xffff)
Name (WRSL, 0x0000)

 //And with DWord Data
Name (DWD1, 0xffffffff)
Name (DWD2, 0xffffffff)
Name (DRSL, 0x00000000)

Name(RSLT,1)

Method (ANDL,2) // Test Logical And
{
   //test with the arguments passed
   if(LEqual(Arg0,Arg1))
   { Store(LAnd(Arg0,Arg1),RSLT)
      if(LNotEqual(Ones,RSLT))
      {Return(11)}
   }

   //test with he locals
   Store(Arg0,Local0)
   Store(Arg1,Local1)

   if(LEqual(Local0,Local1))
   {
      Store(LAnd(Local0,Local1),RSLT)
      if(LNotEqual(Ones,RSLT))
         {Return(12)}
   }

   //test with BYTE data
   if(LEqual(BYT1,BYT2))
   { Store(LAnd(BYT1,BYT2),BRSL)
      if(LNotEqual(Ones,BRSL))
      {Return(13)}
   }

   //test with WORD data
   if(LEqual(WRD1,WRD2))
   { Store(LAnd(WRD1,WRD2),WRSL)
       if(LNotEqual(Ones,WRSL))
      {Return(14)}
```

```
        }

        //test with DWORD data
        if(LEqual(DWD1,DWD2))
        { Store(LAnd(DWD1,DWD2),DRSL)
          if(LNotEqual(Ones,DRSL))
          {Return(15)}
        }

        //Test for system memory data for each test case.

          Store(0xff,BYT1)
          Store(0xff,SMBY)
          Store(0x00,BRSL)

        //test with BYTE system memory data
        if(LEqual(BYT1,SMBY))
        { Store(LAnd(BYT1,SMBY),BRSL)
          if(LNotEqual(Ones,BRSL))
          {Return(16)}
        }

        Store (0xffff,WRD1)
        Store(0xffff,SMWD)
        Store(0x0000,WRSL)
        //test with WORD system memory data
        if(LEqual(WRD1,SMWD))
        { Store(LAnd(WRD1,SMWD),WRSL)
          if(LNotEqual(Ones,WRSL))
          {Return(17)}
        }

        Store(0x000000,DRSL)

    Store (0xffffff,DWD1)
        Store(0xffffff,SMDW)

        //test with DWORD system memory data
        if(LEqual(DWD1,SMDW))
        { Store(LAnd(DWD1,SMDW),DRSL)
          if(LNotEqual(Ones,DRSL))
          {Return(18)}
        }

        Return(0)

      }//ANDL
```

```
//Test the LOr Operator

Method (ORL_,2)
{//ORL_

   //test with the arguments passed
   if(LEqual(Arg0,Arg1))
   {
      Store(LOr(Arg0,Arg1),RSLT)
      if(LNotEqual(Ones,RSLT))
      {
         Return(21)
      }
   }

   //test with he locals
   Store(Arg0,Local0)
   Store(Arg1,Local1)

   if(LEqual(Local0,Local1))
   {
      Store(LOr(Local0,Local1),RSLT)
      if(LNotEqual(Ones,RSLT))
         {Return(22)}
   }

   //Check with 1 LOred with 0 on byte data
   Store(0xff,BYT1)
    Store(0x00,BYT2)
   Store(0x00,BRSL)

   if(LNotEqual(BYT1, BYT2))
   {
      Store(LOr(BYT1, BYT2), BRSL)
      if(LNotEqual(Ones,BRSL))
      {Return(23)}
   }

   //Check with 1 LOred with 0 on WORD data
   Store(0xffff,WRD1)
   Store(0x0000,WRD2)
   Store(0x0000,WRSL)

   if(LNotEqual(WRD1, WRD2))
   {
      Store(LOr(WRD1, WRD2), WRSL)
      if(LNotEqual(Ones,WRSL))
      {Return(24)}
```

```
}

//Check with 1 LOred with 0 on DWORD data
Store(0xffffffff,DWD1)
Store(0x00000000,DWD2)
Store(0x00000000,DRSL)

if(LNotEqual(DWD1, DWD2))
{
   Store(LOr(DWD1, DWD2), DRSL)
   if(LNotEqual(Ones,DRSL))
   {Return(25)}
}

Store(0x00,BYT1)
Store(0xff,SMBY)
Store(0x00,BRSL)

 //test with BYTE system memory data
if(LEqual(BYT1,SMBY))
{ Store(LOr(BYT1,SMBY),BRSL)
   if(LNotEqual(Ones,BRSL))
   {Return(26)}
}

Store (0x0000,WRD1)
Store(0xffff,SMWD)
Store(0x0000,WRSL)

//test with WORD system memory data
if(LEqual(WRD1,SMWD))
{ Store(LOr(WRD1,SMWD),WRSL)
   if(LNotEqual(Ones,WRSL))
   {Return(27)}
}


Store(0x00000000,DWD1)
Store(0xffffffff,SMDW)
Store(0x00000000,DRSL)

//test with DWORD system memory data
if(LEqual(DWD1,SMDW))
{ Store(LAnd(DWD1,SMDW),DRSL)
   if(LNotEqual(Ones,DRSL))
   {Return(28)}
}
Return(0)
```

```
    }//ORL_

    //This method tests LGreater and LNot operator
    Method(LSGR,2)
    {//LSGR

        //Test on arguments
passed

        //in test data, Arg1 > Arg0
        if(LEqual(Ones,LNot(LGreater(Arg1,Arg0))))
        {Return(31)}

        //test LLessEqual
        if(LEqual(Ones,LNot(LGreaterEqual(Arg1,Arg0))))
        {Return(32)}

        if(LEqual(Ones,LLess(Arg1,Arg0)))
        {Return(33)}

        //test LLessEqual
        if(LEqual(Ones,LLessEqual(Arg1,Arg0)))
        {Return(34)}

        Store(Arg0,Local0)
        Store(Arg1,Local1)

        //test with the locals
        if(LNot(LGreater(Local1,Local0)))
           {Return(35)}

        //test on Byte data
        Store(0x12,BYT1)
        Store(0x21,BYT2)

        if(LNot(LGreater(BYT2,BYT1)))
           {Return(36)}

        if(LNot(LLess(BYT1,BYT2)))
           {Return(37)}

        //test LGreaterEqual with byte data
        if(LNot(LGreaterEqual(BYT2,BYT1)))
           {Return(38)}

        //test LLessEqual byte data
```

```
 if(LNot(LLessEqual(BYT1,BYT2)))
     {Return(39)}


   //test on Word data
   Store(0x1212,WRD1)
   Store(0x2121,WRD2)

   if(LNot(LGreater(WRD2,WRD1)))
     {Return(310)}

   if(LNot(LLess(WRD1,WRD2)))
     {Return(311)}

   //Test LGreaterEqual with Word Data
   if(LNot(LGreaterEqual(WRD2,WRD1)))
     {Return(312)}


   //Test LLessEqual with Word Data
   if(LNot(LLessEqual(WRD1,WRD2)))
     {Return(313)}

   //test on DWord data
   Store(0x12121212,DWD1)
   Store(0x21212121,DWD2)

   if(LNot(LGreater(DWD2,DWD1)))
     {Return(314)}

   if(LNot(LLess(DWD1,DWD2)))
     {Return(315)}


   //Test LGreaterEqual with Dword
   if(LNot(LGreaterEqual(DWD2,DWD1)))
     {Return(316)}

   //Test LLessEqual DWord
   if(LNot(LLessEqual(DWD1,DWD2)))
      {Return(317)}

   Return(0)
}//LSGR

//The test method
Method(TEST)
{
```

```
        Store ("++++++++ LOps Test", Debug)

        Store(0,RSLT)
        //Call LAndOp method
        Store(ANDL(2,2),RSLT)
        if(LNotEqual(RSLT,0))
         {Return(RSLT)}

        //Call LOrOp Method
        Store(ORL_(5,5),RSLT)
        if(LNotEqual(RSLT,0))
        {Return(RSLT)}

        //Call LSGR Method
        Store(LSGR(5,7),RSLT)
        if(LNotEqual(RSLT,0))
        {Return(RSLT)}

        Return(0)
      }//TEST
  }//LOPS

//
// test FdSetOps.asl
//
//  FindSetLeftBit - Find Set Left Bit
//  FindSetLeftBitTerm  := FindSetLeftBit
//  (   Source, //TermArg=>Integer
//      Result  //Nothing | SuperName
//  ) => Integer
//  Source is evaluated as integer data type, and the one-based bit location of
//  the first MSb (most significant set bit) is optionally stored into Result.
//
  The result of 0 means no bit was set, 1 means the left-most bit set is the
//  first bit, 2 means the left-most bit set is the second bit, and so on.
//  FindSetRightBit - Find Set Right Bit

//  FindSetRightBitTerm := FindSetRightBit
//  (   Source, //TermArg=>Integer
//      Result  //Nothing | SuperName
//  ) => Integer
//  Source is evaluated as integer data type, and the one-based bit location of
//  the most LSb (least significant set bit) is optionally stored in Result.
//  The result of 0 means no bit was set, 32 means the first bit set is the
//  32nd bit, 31 means the first bit set is the 31st bit, and so on.

//  If the Control method is success Zero is returned. Otherwise a non-zero
//  number is returned.
```

```
//
  Device (FDSO)
  {   //  FDSO

     //  Create System Memory Operation Region and field overlays
     OperationRegion (RAM, SystemMemory, 0x400000, 0x100)
     Field (RAM, AnyAcc, NoLock, Preserve)
     {
        SMDW,   32, //  32-bit DWORD
         SMWD,   16, //  16-bit WORD
        SMBY,   8,      //  8-bit BYTE
     }   //  Field(RAM)

     //  Byte Data
     Name (BYT1, 1)
     Name (BRSL, 0x00)

     //  Word Data
     Name (WRD1, 0x100)
     Name (WRSL, 0x0000)

     //  DWord Data
     Name (DWD1, 0x10000)
     Name (DRSL, 0x00000000)
     Name (RSLT, 1)
     Name (CNTR, 1)

     Method (SHFT,2)
     //  Arg0 is the actual data and Arg1 is the bit position
     {   //  SHFT
        Store (Arg0, Local0)
        Store (Arg1, Local1)

        FindSetLeftBit (Arg0, BRSL)
        If (LNotEqual (BRSL, Arg1))
           {   Return (0x11)   }
        If (LNotEqual (Arg0, Local0))
           {   Return (0x12)   }

        FindSetLeftBit (Local0, BRSL)
        If (LNotEqual (BRSL, Local1))
           {   Return (0x13)   }
        If (LNotEqual (Arg0, Local0))
           {   Return (0x14)   }

        //  test the byte
value for SetLeftBit
        Store (7, BYT1)
```

```
        FindSetLeftBit (BYT1, BRSL)
        If (LNotEqual (BRSL, 3))
           {   Return (0x15)   }
        If (LNotEqual (BYT1, 7))
           {   Return (0x16)   }

        Store (1, BYT1)
        Store (1, CNTR)
        While (LLessEqual (CNTR, 8))
        {   //  FindSetLeftBit check loop for byte data
           FindSetLeftBit (BYT1, BRSL)
           If (LNotEqual (BRSL, CNTR))
              {   Return (0x17)   }

           //  Shift the bits to check the same
           ShiftLeft (BYT1, 1, BYT1)
           Increment (CNTR)
        }   //  FindSetLeftBit check loop for byte data


        //  Check BYTE value for SetRightBit
        Store (7, BYT1)
        FindSetRightBit (BYT1, BRSL)
        If (LNotEqual (BRSL, 1))
           {   Return (0x21)   }
        If (LNotEqual (BYT1, 7))
           {   Return (0x22)   }

        Store
(1, CNTR)
        Store (0xFF, BYT1)
        While (LLessEqual (CNTR, 8))
        {   //  FindSetRightBit check loop for byte data
           FindSetRightBit (BYT1, BRSL)
           If (LNotEqual (BRSL, CNTR))
              {   Return (0x23)   }

           ShiftLeft (BYT1, 1, BYT1)
           Increment (CNTR)
        }   //  FindSetRightBit check loop for byte data


        //  Test Word value for SetLeftBit
        Store (9, CNTR)
        Store (0x100, WRD1)
        While (LLessEqual (CNTR, 16))
        {
           //  FindSetLeftBit check loop for Word data
```

```
    FindSetLeftBit (WRD1, WRSL)
    If (LNotEqual (WRSL, CNTR))
        {   Return (0x31)   }

    //  Shift the bits to check the same
    ShiftLeft (WRD1, 1, WRD1)
    Increment (CNTR)
}   //  FindSetLeftBit check loop for Word data

//  Check Word value for SetRightBit
 Store (9, CNTR)
Store (0xFF00, WRD1)
While (LLessEqual (CNTR, 16))
{
    //  FindSetRightBit check loop for Word data
    FindSetRightBit (WRD1, WRSL)
    If (LNotEqual (WRSL, CNTR))
        {   Return (0x32)   }

    ShiftLeft (WRD1, 1, WRD1)
    Increment (CNTR)
}   //  FindSetRightBit check loop for Word data

//  Test the DWord value for SetLeftBit
Store (17, CNTR)
Store (0x10000, DWD1)
While (LLessEqual (CNTR, 32))
{
    //  FindSetLeftBit check loop for Dword
    FindSetLeftBit (DWD1, DRSL)
    If (LNotEqual (DRSL, CNTR))
        {   Return (0x41)   }

    //  Shift the bits to check the same
    ShiftLeft (DWD1, 1, DWD1)
    Increment (CNTR)
}   //  FindSetLeftBit check loop for Dword

 //  Check DWord value for SetRightBit
Store (17, CNTR)
Store (0xFFFF0000, DWD1)
While (LLessEqual (CNTR, 32))
{   //  FindSetRightBit Check loop for DWORD
    FindSetRightBit (DWD1, DRSL)
    If (LNotEqual (DRSL, CNTR))
        {   Return (0x42)   }

    ShiftLeft (DWD1, 1, DWD1)
```

```
            Increment (CNTR)
        }   //  FindSetRightBit Check loop for DWORD

        Return (0)
    }   //  SHFT

    //  Test method called from amlexec
    Method (TEST)
    {   //  TEST

        Store ("++++++++ FdSetOps Test", Debug)

        Store (SHFT (0x80, 8), RSLT)
        If (LNotEqual (RSLT, 0))
            {   Return (RSLT)   }

        Return (0)  //  pass
    }   //  TEST
  }   //  Device FDSO

//
// test MulDivOp.asl
//
  Device (MLDV)
  {
    //  create System Memory Operation Region and field overlays
    OperationRegion
 (RAM, SystemMemory, 0x400000, 0x100)
    Field (RAM, AnyAcc, NoLock, Preserve)
    {
      SMDW,   32, //  32-bit DWORD
      SMWD,   16, //  16-bit WORD
      SMBY,   8,  //  8-bit BYTE
    }   //  Field(RAM)

    Method (TEST,, Serialized)
    {
      Store ("++++++++ MulDivOp Test", Debug)

      Name (RMDR, 0)
      Name (DWRD, 0x12345678)
      Name (WRD, 0x1234)
      Name (BYT, 0x12)

      //  Test MultiplyOp with DWORD data
      Store (0x12345678, DWRD)
      Multiply (DWRD, 3, DWRD)
      If (LNotEqual (DWRD, 0x369D0368))
```

```
    {   Return (DWRD)   }

    //  Test MultiplyOp with WORD data
    Multiply (WRD, 4, WRD)
    If (LNotEqual (WRD, 0x48D0))
    {   Return (WRD)    }

    //  Test MultiplyOp with BYTE data
    Multiply (BYT, 5, BYT)
    If (LNotEqual (BYT, 0x5A))
    {   Return (BYT)    }


    //  Test DivideOp with DWORD data
    Divide (DWRD, 3, DWRD, RMDR)
    If (LNotEqual (DWRD, 0x12345678))
    {   Return (DWRD)   }
    If (LNotEqual (RMDR, 0))
    {   Return (RMDR)   }

    //  Test DivideOp with WORD data
    Divide (WRD, 4, WRD, RMDR)
    If (LNotEqual (WRD, 0x1234))
    {   Return (WRD)    }
    If (LNotEqual (RMDR, 0))
    {   Return (RMDR)   }

    //  Test DivideOp with BYTE data
    Divide (BYT, 5, BYT, RMDR)
    If (LNotEqual (BYT, 0x12))
    {   Return (BYT)    }
    If (LNotEqual (RMDR, 0))
    {   Return (RMDR)   }


    //  test MultiplyOp with DWORD SystemMemory OpRegion
    Store (0x01234567, SMDW)
    Multiply (SMDW, 2, SMDW)
    If (LNotEqual (SMDW, 0x02468ACE))
    {   Return (SMDW)   }

    //  test DivideOp with DWORD SystemMemory
OpRegion
    Divide (SMDW, 3, SMDW, RMDR)
    If (LNotEqual (SMDW, 0x00C22E44))
    {   Return (SMDW)   }
    If (LNotEqual (RMDR, 2))
    {   Return (RMDR)   }
```

```
        //  test MultiplyOp with WORD SystemMemory OpRegion
        Store (0x0123, SMWD)
        Multiply (SMWD, 3, SMWD)
        If (LNotEqual (SMWD, 0x369))
           {   Return (SMWD)   }

        //  test DivideOp with WORD SystemMemory OpRegion
        Divide (SMWD, 2, SMWD, RMDR)
        If (LNotEqual (SMWD, 0x01B4))
           {   Return (SMWD)   }
        If (LNotEqual (RMDR, 1))
           {   Return (RMDR)   }


        //  test MultiplyOp with BYTE SystemMemory OpRegion
        Store (0x01, SMBY)
        Multiply (SMBY, 7, SMBY)
        If (LNotEqual (SMBY, 0x07))
           {   Return (SMBY)   }

        //  test DivideOp with BYTE SystemMemory OpRegion
        Divide (SMBY, 4, SMBY, RMDR)
         If (LNotEqual (SMBY, 0x01))
           {   Return (SMBY)   }
        If (LNotEqual (RMDR, 3))
           {   Return (RMDR)   }

        Return (0)
      }   //  TEST
  }   //  MLDV

//
// test NBitOps.asl
//
//NAnd - Bit-wise NAnd
//NAndTerm  := NAnd(
//  Source1,    //TermArg=>Integer
//  Source2 //TermArg=>Integer
//  Result  //Nothing | SuperName
//) => Integer
//Source1 and Source2 are evaluated as integer data types, a bit-wise NAND is performed, and the result is
optionally
//stored in Result.

//NOr - Bitwise NOr
//NOrTerm   := NOr(
```

```
//  Source1,    //TermArg=>Integer
//  Source2 //TermArg=>Integer
//  Result  //Nothing | SuperName
//) => Integer
//Source1 and Source2 are evaluated as integer data types, a bit-wise NOR is performed, and the result is optionally
//stored in Result.
// Not - Not
//NotTerm   := Not(
//  Source, //TermArg=>Integer
//  Result  //Nothing | SuperName
//) => Integer
//Source1 is evaluated as an integer data type, a bit-wise
 NOT is performed, and the result is optionally stored in
//Result.

//If the Control method is success Zero is returned else a non-zero number is returned

  Device (NBIT)
  {//NBIT

     //Create System Memory Operation Region and field overlays
     OperationRegion (RAM, SystemMemory, 0x400000, 0x100)
     Field (RAM, AnyAcc, NoLock, Preserve)
     {
        SMDW,   32, //  32-bit DWORD
        SMWD,   16, //  16-bit WORD
        SMBY,   8,  //  8-bit BYTE
     }// Field(RAM)


     //And with Byte Data
     Name (BYT1, 0xff)
     Name (BYT2, 0xff)
     Name (BRSL, 0x00)

     //And with Word Data
     Name (WRD1, 0xffff)
     Name (WRD2, 0xffff)
     Name (WRSL, 0x0000)

     //And with DWord Data
     Name (DWD1, 0xffffffff)
     Name (DWD2, 0xffffffff)
     Name (DRSL, 0x00000000)
     Name(RSLT,1)


     Name(ARSL,0x00)
```

```
Name(LRSL,0x00)

Method(NNDB,2)
{//NNDB

   Store(0xffffffff,SMDW)
    Store(0xffff,SMWD)
   Store(0xff,SMBY)


   NAnd(Arg0,Arg1,ARSL)
   if(LNotEqual(ARSL,0xfffffffd))
    {Return(11)}

    Store(Arg0,local0)
    Store(Arg1,Local1)

    NAnd(Local0,Local1,LRSL)
      if(LNotEqual(LRSL,0xfffffffd))
    {Return(12)}


   //Byte data
   NAnd(BYT1,BYT2,BRSL)
   if(LNotEqual(BRSL,0xffffff00))
    {Return(13)}

   //Word Data
    NAnd(WRD1,WRD2,WRSL)
   if(LNotEqual(WRSL,0xffff0000))
    {Return(14)}

    //DWord Data
    NAnd(DWD1,DWD2,DRSL)
   if(LNotEqual(DRSL,0x00000000))
    {Return(15)}

    //Byte data
   NAnd(SMBY,0xff,BRSL)
   if(LNotEqual(BRSL,0xffffff00))
    {Return(16)}

   //Word Data
    NAnd(SMWD,0xffff,WRSL)
   if(LNotEqual(WRSL,0xffff0000))
    {Return(17)}
```

```
    //DWord Data
    NAnd(SMDW,0xffffffff,DRSL)
   if(LNotEqual(DRSL,0x00000000))
    {Return(18)}

   Return(0)

}//NNDB

Method(NNOR,2)
{//NNOR

   NOr(Arg0,Arg1,ARSL)
   if(LNotEqual(ARSL,0xfffffffd))
    {Return(21)}

   Store(Arg0,local0)
   Store(Arg1,Local1)

   NOr(Local0,Local1,LRSL)
   if(LNotEqual(LRSL,0xfffffffd))
    {Return(22)}


   //Byte data
   NOr(BYT1,BYT2,BRSL)
   if(LNotEqual(BRSL,0xffffff00))
    {Return(23)}

   //Word Data
   NOr(WRD1,WRD2,WRSL)
   if(LNotEqual(WRSL,0xffff0000))
    {Return(24)}

   //DWord Data
   NOr(DWD1,DWD2,DRSL)
   if(LNotEqual(DRSL,0x00000000))
    {Return(25)}

    //System Memory Byte data
   NOr(SMBY,0xff,BRSL)
   if(LNotEqual(BRSL,0xffffff00))
    {Return(26)}

    //System Memory Word Data
   NOr(SMWD,0xffff,WRSL)
   if(LNotEqual(WRSL,0xffff0000))
    {Return(27)}
```

```
    //System Memory DWord Data
    NOr(SMDW,0xffffffff,DRSL)
    if(LNotEqual(DRSL,0x00000000))
     {Return(28)}

    Return(0)

}//NNOR

Method(NNOT,2)
{//NNOT

    Or(Arg0,Arg1,ARSL)
    Not(ARSL,ARSL)
    if(LNotEqual(ARSL,0xfffffffd))
     {Return(31)}

    Store(Arg0,local0)
    Store(Arg1,Local1)

    Or(Local0,Local1,LRSL)
    Not(LRSL,LRSL)
    if(LNotEqual(LRSL,0xfffffffd))
     {Return(32)}


    //Byte data
    Or(BYT1,BYT2,BRSL)
    Not(BRSL,BRSL)
    if(LNotEqual(BRSL,0xffffff00))
     {Return(33)}

    //Word Data
    Or(WRD1,WRD2,WRSL)
    Not(WRSL,WRSL)
    if(LNotEqual(WRSL,0xffff0000))
     {Return(34)}

     //DWord Data
    Or(DWD1,DWD2,DRSL)
    Not(DRSL,DRSL)
    if(LNotEqual(DRSL,0x00000000))
     {Return(35)}

     //System Memory Byte data
    Or(SMBY,0xff,BRSL)
    Not(BRSL,BRSL)
```

```
        if(LNotEqual(BRSL,0xffffff00))
         {Return(36)}

        //System Memory Word Data
        Or(SMWD,0xffff,WRSL)
        Not(WRSL,WRSL)
        if(LNotEqual(WRSL,0xffff0000))
         {Return(37)}

        //System Memory DWord Data
        Or(SMDW,0xffffffff,DRSL)
        Not(DRSL,DRSL)
        if(LNotEqual(DRSL,0x00000000))
         {Return(38)}

        Return(0)
      }//NNOT


      Method(TEST)
      {

        Store ("++++++++ NBitOps Test", Debug)

        Store(NNDB(2,2),RSLT)
        if(LNotEqual(RSLT,0))
          {Return(RSLT)}

        Store(NNOR(2,2),RSLT)
        if(LNotEqual(RSLT,0))
          {Return(RSLT)}


    Store(NNOT(2,2),RSLT)
        if(LNotEqual(RSLT,0))
          {Return(RSLT)}


        Return(0)
      }

    }//Device NBIT

//
// test ShftOp.asl
//
//ShiftRightTerm    := ShiftRight(
//  Source, //TermArg=>Integer
```

```
//  ShiftCount  //TermArg=>Integer
//  Result  //Nothing | SuperName
//) => Integer
//Source and ShiftCount are evaluated as integer data types. Source is shifted right with the most significant bit
//zeroed ShiftCount times. The result is optionally stored into Result.

//ShiftLeft(
//  Source, //TermArg=>Integer
//  ShiftCount  //TermArg=>Integer
//  Result  //Nothing | SuperName
//) => Integer
//Source and ShiftCount are evaluated as integer data types. Source is shifted left with the least significant
//bit zeroed ShiftCount times. The result is optionally stored into Result.

//If the Control method is success Zero is returned else a non-zero number is returned
  Device (SHFT)
  {//SHFT

     //Create System Memory Operation Region and field overlays
      OperationRegion (RAM, SystemMemory, 0x400000, 0x100)
     Field (RAM, AnyAcc, NoLock, Preserve)
     {
        SMDW,   32, //  32-bit DWORD
        SMWD,   16, //  16-bit WORD
        SMBY,   8,  //  8-bit BYTE
     }// Field(RAM)


     Name(SHFC,0x00)

     //And with Byte Data
     Name (BYT1, 0xff)
     Name (BRSL, 0x00)

     //And with Word Data
     Name (WRD1, 0xffff)
     Name (WRSL, 0x0000)

     //And with DWord Data
     Name (DWD1, 0xffffffff)
     Name (DRSL, 0x00000000)

     Name(RSLT,1)

     Name(ARSL,0x00)
     Name(LRSL,0x00)

     Method(SLFT,2)
```

```
{//SLFT

  Store(0xffffffff,SMDW)
  Store(0xffff,SMWD)
  Store(0xff,SMBY)


  //Arg0-> 2 & Arg1->2
  ShiftLeft(Arg0,Arg1,ARSL)
  if(LNotEqual(ARSL,8))
  {Return(11)}

   Store(Arg0,local0)
   Store(Arg1,Local1)

   //Local0->8 and Local1->2
    ShiftLeft(Local0,Local1,LRSL)
      if(LNotEqual(LRSL,8))
   {Return(12)}

  Store(2,SHFC)
  //Byte data
  ShiftLeft(BYT1,SHFC,BRSL)
  if(LNotEqual(BRSL,0x3FC))
   {Return(13)}

  Store(4,SHFC)
  //Word Data
   ShiftLeft(WRD1,SHFC,WRSL)
  if(LNotEqual(WRSL,0xFFFF0))
   {Return(14)}

  Store(8,SHFC)
  //DWord Data
  ShiftLeft(DWD1,SHFC,DRSL)
  if(LNotEqual(DRSL,0xFFFFFF00))
   {Return(15)}


   //System Memory Byte data
  Store(4,SHFC)
  ShiftLeft(SMBY,SHFC,BRSL)
  if(LNotEqual(BRSL,0xFF0))
  {Return(16)}

  //Word Data
  Store(4,SHFC)
  ShiftLeft(SMWD,SHFC,WRSL)
```

```
        if(LNotEqual(WRSL,0xffff0))
         {Return(17)}

        //DWord Data
        Store(8,SHFC)
        ShiftLeft(SMDW,SHFC,DRSL)

if(LNotEqual(DRSL,0xFFFFFF00))
           {Return(18)}

        Return(0)

      }//SLFT

      Method(SRGT,2)
      {//SRGT
        //And with Byte Data
        Store (0xff,BYT1)
        Store (0x00,BRSL)

        //And with Word Data
        Store (0xffff,WRD1)
        Store (0x0000,WRSL)

        //And with DWord Data
        Store(0xffffffff,DWD1)
        Store (0x00000000,DRSL)

        //Reinitialize the result objects
        Store(0x00,ARSL)
        Store(0x00,LRSL)

        Store(0xffffffff,SMDW)
        Store(0xffff,SMWD)
        Store(0xff,SMBY)

        //Arg0-> 2 & Arg1->2
        ShiftRight(Arg0,Arg1,ARSL)
        if(LNotEqual(ARSL,0))
        {Return(21)}

         Store(Arg0,local0)
         Store(Arg1,Local1)

         //Local0->8 and Local1->2
         ShiftRight(Local0,Local1,LRSL)
           if(LNotEqual(LRSL,0))
         {Return(22)}
```

```
        Store(2,SHFC)
         //Byte data
        ShiftRight(BYT1,SHFC,BRSL)
        if(LNotEqual(BRSL,0x3F))
         {Return(23)}

        Store(4,SHFC)
        //Word Data
         ShiftRight(WRD1,SHFC,WRSL)
        if(LNotEqual(WRSL,0xFFF))
         {Return(24)}

        Store(8,SHFC)
        //DWord Data
        ShiftRight(DWD1,SHFC,DRSL)
        if(LNotEqual(DRSL,0xFFFFFF))
         {Return(25)}

        //System Memory Byte data
        Store(4,SHFC)
        ShiftRight(SMBY,SHFC,BRSL)
        if(LNotEqual(BRSL,0xF))
        {Return(26)}

        //Word Data
        Store(4,SHFC)
        ShiftRight(SMWD,SHFC,WRSL)
        if(LNotEqual(WRSL,0xFFF))
         {Return(27)}

        //DWord Data
        Store(8,SHFC)
        ShiftRight(SMDW,SHFC,DRSL)
        if(LNotEqual(DRSL,0xFFFFFF))
           {Return(28)}

        Return(0)
      }//SRGT

      //Test method called from
amlexec
      Method(TEST)
      {
        Store ("++++++++ ShftOp Test", Debug)

        Store(SLFT(2,2),RSLT)
        if(LNotEqual(RSLT,0))
```

```
            {Return(RSLT)}
          Store(SRGT(2,2),RSLT)
          if(LNotEqual(RSLT,0))
            {Return(RSLT)}
          Return(0)
        }

    }//Device SHFT

//
// test Xor.asl and slightly modified
//
//This code tests the XOR opcode term
//Syntax of XOR term
//          XOr(
//                Source1  //TermArg=>BufferTerm
//                Source2  //TermArg=>Integer
//                Result //NameString
//             )
//"Source1" and "Source2" are evaluated as integers, a bit-wise XOR is performed, and the result is optionally stored
in
// Result
  Device (XORD)
  {
     //This Method tests XOr operator for all the data types i.e. BYTE, WORD and DWORD
     Method (TEST,, Serialized)
     {
        Store ("++++++++ Xor Test", Debug)

        //Overlay in system memory

        OperationRegion (RAM, SystemMemory, 0x800000, 256)
        Field (RAM, ByteAcc, NoLock, Preserve)
        {
           RES1,   1,  //Offset
           BYT1,   8,  //First BYTE
           BYT2,   8,  //Second BYTE
           RBYT,   8,  //Result Byte
           RES2,   1,  //Offset
           WRD1,   16, //First WORD field
           WRD2,   16, //Second WORD field
           RWRD,   16, //RSLT WORD field
           RES3,   1,  //Offset
           DWD1,   32, //First Dword
           DWD2,   32, //Second Dword
           RDWD,   32, //Result Dword
           RES4,   1,  //Offset
        }
```

```
// Store bits in the single bit fields for checking
//  at the end
Store(1, RES1)
Store(1, RES2)
Store(1, RES3)
Store(1, RES4)

// Check the stored single bits
if(LNotEqual(RES1, 1))
{
   Return(1)
 }

if(LNotEqual(RES2, 1))
{
   Return(1)
}

if(LNotEqual(RES3, 1))
{
   Return(1)
}

if(LNotEqual(RES4, 1))
{
   Return(1)
}

//*************************************************
// (BYT1) Bit1 ->0 and (BYT2)Bit2 -> 0 condition
Store(0x00,BYT1)
Store(0x00,BYT2)
XOr(BYT1,BYT2,Local0)
Store (Local0, RBYT)
if(LNotEqual(RBYT,0))
{   Return(1)}

// (BYT1) Bit1 ->1 and (BYT2)Bit2 -> 1 condition
Store(0xff,BYT1)
Store(0xff,BYT2)
XOr(BYT1,BYT2,Local0)
Store (Local0, RBYT)
if(LNotEqual(RBYT,0))
{   Return(1)}

// (BYT1) Bit1 ->1 and (BYT)Bit2 -> 0 condition
Store(0x55,BYT1)
```

```
 Store(0xAA,BYT2)
 XOr(BYT1,BYT2,Local0)

Store (Local0, RBYT)
 if(LNotEqual(RBYT,0xFF))
 {   Return(1)}

 //(BYT1) Bit1 ->0 and (BYT2)Bit2 -> 1 condition
 Store(0xAA,BYT1)
 Store(0x55,BYT2)
 XOr(BYT1,BYT2,Local0)
 Store (Local0, RBYT)
 if(LNotEqual(RBYT,0xFF))
 {   Return(1)}

 Store(0x12,BYT1)
 Store(0xED,BYT2)

 XOr(BYT1,BYT2,Local0)
 Store (Local0, RBYT)
 if(LNotEqual(RBYT,0xFF))
 {
    Return(1)
 }

 // Store known values for checking later
 Store(0x12, BYT1)
 if(LNotEqual(BYT1, 0x12))
 {
    Return(1)
 }

 Store(0xFE, BYT2)
 if(LNotEqual(BYT2, 0xFE))
 {
    Return(1)
 }

 Store(0xAB, RBYT)
 if(LNotEqual(RBYT, 0xAB))
 {
    Return(1)
 }

 //*************************************************
  // (WRD1) Bit1 ->0 and (WRD2)Bit2 -> 0 condition
 Store(0x0000,WRD1)
 Store(0x0000,WRD2)
```

```
XOr(WRD1,WRD2,RWRD)
if(LNotEqual(RWRD,0))
{   Return(1)}

// (WRD1) Bit1 ->1 and (WRD2)Bit2 -> 1 condition
Store(0xffff,WRD1)
Store(0xffff,WRD2)
XOr(WRD1,WRD2,RWRD)
if(LNotEqual(RWRD,0))
{   Return(1)}

// (WRD1) Bit1 ->1 and (WRD2)Bit2 -> 0 condition
Store(0x5555,WRD1)
Store(0xAAAA,WRD2)
XOr(WRD1,WRD2,RWRD)
if(LNotEqual(RWRD,0xFFFF))
{   Return(1)}

//(WRD1) Bit1 ->0 and (WRD2)Bit2 -> 1 condition
Store(0xAAAA,WRD1)
Store(0x5555,WRD2)
XOr(WRD1,WRD2,RWRD)
if(LNotEqual(RWRD,0xFFFF))
{   Return(1)}

Store(0x1234,WRD1)
Store(0xEDCB,WRD2)
XOr(WRD1,WRD2,RWRD)
 if(LNotEqual(RWRD,0xFFFF))
{   Return(1)}

// Store known values for checking later
Store(0x1234, WRD1)
if(LNotEqual(WRD1, 0x1234))
{
   Return(1)
}

Store(0xFEDC, WRD2)
if(LNotEqual(WRD2, 0xFEDC))
{
   Return(1)
}

Store(0x87AB, RWRD)
if(LNotEqual(RWRD, 0x87AB))
{
   Return(1)
```

```
}

//*************************************************
// (DWD1) Bit1 ->0 and (DWD2)Bit2 -> 0 condition
Store(0x00000000,DWD1)
Store(0x00000000,DWD2)
XOr(DWD1,DWD2,RDWD)
if(LNotEqual(RDWD,0))
{   Return(1)}

// (DWD1) Bit1 ->1 and (DWD2)Bit2 -> 1 condition
Store(0xffffffff,DWD1)
Store(0xffffffff,DWD2)
XOr(DWD1,DWD2,RDWD)
if(LNotEqual(RDWD,0))
 {   Return(1)}

// (DWD1) Bit1 ->1 and (DWD2)Bit2 -> 0 condition
Store(0x55555555,DWD1)
Store(0xAAAAAAAA,DWD2)
XOr(DWD1,DWD2,RDWD)
if(LNotEqual(RDWD,0xFFFFFFFF))
{   Return(1)}

//(DWD1) Bit1 ->0 and (DWD2)Bit2 -> 1 condition
Store(0xAAAAAAAA,DWD1)
Store(0x55555555,DWD2)
XOr(DWD1,DWD2,RDWD)
if(LNotEqual(RDWD,0xFFFFFFFF))
{   Return(1)}

// (DWD1) Bit1 ->1 and (DWD2)Bit2 -> 0 condition
Store(0x12345678,DWD1)
Store(0xEDCBA987,DWD2)
XOr(DWD1,DWD2,RDWD)
if(LNotEqual(RDWD,0xFFFFFFFF))
{   Return(1)}

Store(0x12345678,DWD1)
if(LNotEqual(DWD1,0x12345678))
{
   Return(1)
}

Store(0xFEDCBA98,DWD2)
if(LNotEqual(DWD2,0xFEDCBA98))
{
```

```
   Return(1)
}

 Store(0x91827364,RDWD)
if(LNotEqual(RDWD,0x91827364))
{
   Return(1)
}

//*****************************************************
// Check the stored single bits
if(LNotEqual(RES1, 1))
{
   Return(1)
}

if(LNotEqual(RES2, 1))
{
   Return(1)
}

if(LNotEqual(RES3, 1))
{
   Return(1)
}

if(LNotEqual(RES4, 1))
{
   Return(1)
}

// Change all of the single bit fields to zero
Store(0, RES1)
Store(0, RES2)
Store(0, RES3)
Store(0, RES4)

// Now, check all of the fields

// Byte
if(LNotEqual(BYT1, 0x12))
{
   Return(1)
}

if(LNotEqual(BYT2, 0xFE))
{
```

```
Return(1)
        }

        if(LNotEqual(RBYT, 0xAB))
        {
           Return(1)
        }

        // Word
        if(LNotEqual(WRD1, 0x1234))
        {
           Return(1)
        }

        if(LNotEqual(WRD2, 0xFEDC))
        {
           Return(1)
        }

        if(LNotEqual(RWRD, 0x87AB))
        {
           Return(1)
        }

        // Dword
        if(LNotEqual(DWD1, 0x12345678))
        {
           Return(1)
        }

        if(LNotEqual(DWD2, 0xFEDCBA98))
        {
           Return(1)
        }

        if(LNotEqual(RDWD, 0x91827364))
        {
           Return(1)
        }

        // Bits
        if(LNotEqual(RES1, 0))
        {
           Return(1)
        }

        if(LNotEqual(RES2, 0))
        {
```

```
            Return(1)
        }

        if(LNotEqual(RES3, 0))
        {

    Return(1)
        }

        if(LNotEqual(RES4, 0))
        {
            Return(1)
        }


        Return(0)
    }   //  TEST
  }   //  XORD

//
// test CrBytFld.asl
//
//  CrBytFld test
//      Test for CreateByteField.
//      Tests creating byte field overlay of buffer stored in Local0.
//      Tests need to be added for Arg0 and Name buffers.
//
  Device (CRBF)
  {   //  Test device name
      Method (TEST)
      {
          Store ("++++++++ CrBytFld Test", Debug)

          //  Local0 is uninitialized buffer with 4 elements
          Store (Buffer (4) {}, Local0)

          //  create Byte Field named BF0 based on Local0 element 0
          CreateByteField (Local0, 0, BF0)

          //  validate CreateByteField did not alter Local0
          Store (ObjectType (Local0), Local1) //  Local1 = Local0 object type
          If (LNotEqual (Local1, 3))  //  Buffer object type value is 3
              {   Return (2)  }


          //  store something into BF0
          Store (1, BF0)
```

```
        //  validate Store did not alter Local0 object type
        Store (ObjectType (Local0), Local1) //  Local1 = Local0 object type
        If (LNotEqual (Local1, 3))  //  Buffer object type value is 3
           {   Return (3)  }

        //  verify that the Store into BF0 was successful
        If (LNotEqual (BF0, 1))
           {   Return (4)  }


        //  create Byte Field named BF1 based on Local0 element 1
        CreateByteField (Local0, 1, BF1)

        //  validate CreateByteField did not alter Local0
        Store (ObjectType (Local0), Local1) //  Local1 = Local0 object type
        If (LNotEqual (Local1, 3))  //  Buffer object type value is 3
           {   Return (10) }

        //  store something into BF1
        Store (5, BF1)

        //  validate Store did not alter Local0 object type
        Store (ObjectType (Local0), Local1)
//  Local1 = Local0 object type
        If (LNotEqual (Local1, 3))  //  Buffer object type value is 3
           {   Return (11) }

        //  verify that the Store into BF1 was successful
        If (LNotEqual (BF1, 5))
           {   Return (12) }

        //  verify that the Store into BF1 did not alter BF0
        If (LNotEqual (BF0, 1))
           {   Return (13) }


        //  store something into BF0
        Store (0xFFFF, BF0)

        //  verify that the Store into BF0 was successful
        If (LNotEqual (BF0, 0xFF))
           {   Return (20) }

        //  verify that the Store into BF0 did not alter BF1
        If (LNotEqual (BF1, 5))
           {   Return (21) }
```

```
        Return (0)
      }  // TEST
    }  // CRBF

//
// test IndexOp4.asl
//
//  IndexOp4 test
//      This is just a subset of the many RegionOp/Index Field test cases.
//      Tests access of index fields smaller than 8 bits.
//
    Device (IDX4)
    {  // Test device name

      // MADM:   Misaligned Dynamic RAM SystemMemory OperationRegion
      //         Tests OperationRegion memory access using misaligned BYTE,
      //         WORD, and DWORD field element accesses. Validation is performed
      //         using both misaligned field entries and aligned field entries.
      //
      //         MADM returns 0 if all test cases pass or non-zero identifying
      //         the failing test case for debug purposes. This non-zero numbers
      //         are not guaranteed to be in perfect sequence (i.e., test case
      //         index), but are guaranteed to be unique so the failing test
      //         case can be uniquely identified.
      //
      Method (MADM, 1, Serialized)    // Misaligned Dynamic RAM SystemMemory OperationRegion
      // Arg0    --  SystemMemory OperationRegion base address
      {  // MADM:   Misaligned Dynamic RAM SystemMemory OperationRegion
        OperationRegion (RAM, SystemMemory, Arg0, 0x100)
        Field (RAM, DwordAcc, NoLock, Preserve)
        {  // aligned field definition (for verification)
          DWD0,   32, //  aligned DWORD field
          DWD1,   32      //  aligned DWORD field
        }
        Field (RAM, ByteAcc, NoLock, Preserve)
        {  // bit access field definition
          BIT0,   1,      //  single bit field entry
          BIT1,   1,      //  single bit field entry
          BIT2,   1,      //  single bit field entry
          BIT3,   1,      //  single bit field entry
          BIT4,   1,      //  single bit field entry
          BIT5,   1,      //  single bit field entry
          BIT6,   1,      //  single bit field entry
          BIT7,   1,      //  single bit field entry
          BIT8,   1,      //  single bit field entry
          BIT9,   1,      //  single bit field entry
```

```
        BITA,   1,      //  single bit field entry
        BITB,   1,      //  single bit field entry
        BITC,   1,      //  single bit field entry
        BITD,   1,      //  single bit field entry
        BITE,   1,      //  single bit field entry
        BITF,   1,      //  single bit field entry
        BI10,   1,      //  single bit field entry
        BI11,   1,      //  single bit field entry
        BI12,   1,      //  single bit field entry
        BI13,   1,      //  single bit field entry
        BI14,   1,      //  single bit field entry
        BI15,   1,      //  single bit field entry
        BI16,   1,      //  single bit field entry
        BI17,   1,      //  single bit field entry
        BI18,   1,      //  single bit field entry
        BI19,   1,      //  single bit field entry
        BI1A,   1,      //  single bit field entry
        BI1B,   1,      //  single bit field entry
        BI1C,   1,      //  single bit field entry
        BI1D,   1,      //  single bit field entry
        BI1E,   1,      //  single bit field entry
        BI1F,   1       //  single bit field entry
    }   //  bit access field definition

    Field (RAM, ByteAcc, NoLock, Preserve)
    {   //  two-bit access field definition
        B2_0,   2,      //  single bit field entry
        B2_1,   2,      //  single bit field entry
        B2_2,   2,      //  single bit field entry
        B2_3,   2,      //  single bit field entry
        B2_4,   2,      //  single bit field entry
        B2_5,   2,      //  single bit field entry
        B2_6,   2,      //  single bit field entry
        B2_7,   2,      //  single bit field entry
        B2_8,   2,      //  single bit field entry
        B2_9,
2,      //  single bit field entry
        B2_A,   2,      //  single bit field entry
        B2_B,   2,      //  single bit field entry
        B2_C,   2,      //  single bit field entry
        B2_D,   2,      //  single bit field entry
        B2_E,   2,      //  single bit field entry
        B2_F,   2       //  single bit field entry
    }   //  bit access field definition

    //  initialize memory contents using aligned field entries
    Store (0x5AA55AA5, DWD0)
    Store (0x5AA55AA5, DWD1)
```

```
        // set memory contents to known values using misaligned field entries
        Store (0, BIT0)
          // verify memory contents using misaligned field entries
          If (LNotEqual (BIT0, 0))
            {  Return (1)  }
          // verify memory contents using aligned field entries
          If (LNotEqual (DWD0, 0x5AA55AA4))
            {  Return
(2)  }

        // set memory contents to known values using misaligned field entries
        Store (1, BIT1)
          // verify memory contents using misaligned field entries
          If (LNotEqual (BIT1, 1))
            {  Return (3)  }
          // verify memory contents using aligned field entries
          If (LNotEqual (DWD0, 0x5AA55AA6))
            {  Return (4)  }

        // set memory contents to known values using misaligned field entries
        Store (0, BIT2)
          // verify memory contents using misaligned field entries
          If (LNotEqual (BIT2, 0))
            {  Return (5)  }
          // verify memory contents using aligned field entries
          If (LNotEqual (DWD0, 0x5AA55AA2))
            {  Return (6)  }

        // set memory contents to known values using misaligned field entries
        Store (1, BIT3)
          // verify memory
contents using misaligned field entries
          If (LNotEqual (BIT3, 1))
            {  Return (7)  }
          // verify memory contents using aligned field entries
          If (LNotEqual (DWD0, 0x5AA55AAA))
            {  Return (8)  }

        // set memory contents to known values using misaligned field entries
        Store (1, BIT4)
          // verify memory contents using misaligned field entries
          If (LNotEqual (BIT4, 1))
            {  Return (9)  }
          // verify memory contents using aligned field entries
          If (LNotEqual (DWD0, 0x5AA55ABA))
            {  Return (10) }
```

```
        // set memory contents to known values using misaligned field entries
        Store (0, BIT5)
          // verify memory contents using misaligned field entries
          If (LNotEqual (BIT5, 0))
            { Return (11) }
          // verify memory
contents using aligned field entries
          If (LNotEqual (DWD0, 0x5AA55A9A))
            { Return (12) }

        // set memory contents to known values using misaligned field entries
        Store (1, BIT6)
          // verify memory contents using misaligned field entries
          If (LNotEqual (BIT6, 1))
            { Return (13) }
          // verify memory contents using aligned field entries
          If (LNotEqual (DWD0, 0x5AA55ADA))
            { Return (14) }

        // set memory contents to known values using misaligned field entries
        Store (0, BIT7)
          // verify memory contents using misaligned field entries
          If (LNotEqual (BIT7, 0))
            { Return (15) }
          // verify memory contents using aligned field entries
          If (LNotEqual (DWD0, 0x5AA55A5A))
            { Return (16) }

        // set memory
contents to known values using misaligned field entries
        Store (1, BIT8)
          // verify memory contents using misaligned field entries
          If (LNotEqual (BIT8, 1))
            { Return (17) }
          // verify memory contents using aligned field entries
          If (LNotEqual (DWD0, 0x5AA55B5A))
            { Return (18) }

        // set memory contents to known values using misaligned field entries
        Store (0, BIT9)
          // verify memory contents using misaligned field entries
          If (LNotEqual (BIT9, 0))
            { Return (19) }
          // verify memory contents using aligned field entries
          If (LNotEqual (DWD0, 0x5AA5595A))
            { Return (20) }

        // set memory contents to known values using misaligned field entries
```

```
        Store (1, BITA)
            // verify memory contents using misaligned field
entries
            If (LNotEqual (BITA, 1))
                { Return (21) }
            // verify memory contents using aligned field entries
            If (LNotEqual (DWD0, 0x5AA55D5A))
                { Return (22) }

        // set memory contents to known values using misaligned field entries
        Store (0, BITB)
            // verify memory contents using misaligned field entries
            If (LNotEqual (BITB, 0))
                { Return (23) }
            // verify memory contents using aligned field entries
            If (LNotEqual (DWD0, 0x5AA5555A))
                { Return (24) }

        // set memory contents to known values using misaligned field entries
        Store (0, BITC)
            // verify memory contents using misaligned field entries
            If (LNotEqual (BITC, 0))
                { Return (25) }
            // verify memory contents using aligned field
entries
            If (LNotEqual (DWD0, 0x5AA5455A))
                { Return (26) }

        // set memory contents to known values using misaligned field entries
        Store (1, BITD)
            // verify memory contents using misaligned field entries
            If (LNotEqual (BITD, 1))
                { Return (27) }
            // verify memory contents using aligned field entries
            If (LNotEqual (DWD0, 0x5AA5655A))
                { Return (28) }

        // set memory contents to known values using misaligned field entries
        Store (0, BITE)
            // verify memory contents using misaligned field entries
            If (LNotEqual (BITE, 0))
                { Return (29) }
            // verify memory contents using aligned field entries
            If (LNotEqual (DWD0, 0x5AA5255A))
                { Return (30) }

        // set memory contents to known values using
```

```
misaligned field entries
        Store (1, BITF)
           //  verify memory contents using misaligned field entries
           If (LNotEqual (BITF, 1))
              {   Return (31) }
           //  verify memory contents using aligned field entries
           If (LNotEqual (DWD0, 0x5AA5A55A))
              {   Return (32) }

        //  set memory contents to known values using misaligned field entries
        Store (0, BI10)
           //  verify memory contents using misaligned field entries
           If (LNotEqual (BI10, 0))
              {   Return (33) }
           //  verify memory contents using aligned field entries
           If (LNotEqual (DWD0, 0x5AA4A55A))
              {   Return (34) }

        //  set memory contents to known values using misaligned field entries
        Store (1, BI11)
           //  verify memory contents using misaligned field entries
           If (LNotEqual
(BI11, 1))
              {   Return (35) }
           //  verify memory contents using aligned field entries
           If (LNotEqual (DWD0, 0x5AA6A55A))
              {   Return (36) }

        //  set memory contents to known values using misaligned field entries
        Store (0, BI12)
           //  verify memory contents using misaligned field entries
           If (LNotEqual (BI12, 0))
              {   Return (37) }
           //  verify memory contents using aligned field entries
           If (LNotEqual (DWD0, 0x5AA2A55A))
              {   Return (38) }

        //  set memory contents to known values using misaligned field entries
        Store (1, BI13)
           //  verify memory contents using misaligned field entries
           If (LNotEqual (BI13, 1))
              {   Return (39) }
           //  verify memory contents using aligned field entries
           If (LNotEqual
(DWD0, 0x5AAAA55A))
              {   Return (40) }

        //  set memory contents to known values using misaligned field entries
```

```
Store (1, BI14)
   //  verify memory contents using misaligned field entries
   If (LNotEqual (BI14, 1))
      {   Return (41) }
   //  verify memory contents using aligned field entries
   If (LNotEqual (DWD0, 0x5ABAA55A))
      {   Return (42) }

//  set memory contents to known values using misaligned field entries
Store (0, BI15)
   //  verify memory contents using misaligned field entries
   If (LNotEqual (BI15, 0))
      {   Return (43) }
   //  verify memory contents using aligned field entries
   If (LNotEqual (DWD0, 0x5A9AA55A))
      {   Return (44) }

//  set memory contents to known values using misaligned field entries

Store (1, BI16)
   //  verify memory contents using misaligned field entries
   If (LNotEqual (BI16, 1))
      {   Return (45) }
   //  verify memory contents using aligned field entries
   If (LNotEqual (DWD0, 0x5ADAA55A))
      {   Return (46) }

//  set memory contents to known values using misaligned field entries
Store (0, BI17)
   //  verify memory contents using misaligned field entries
   If (LNotEqual (BI17, 0))
      {   Return (47) }
   //  verify memory contents using aligned field entries
   If (LNotEqual (DWD0, 0x5A5AA55A))
      {   Return (48) }

//  set memory contents to known values using misaligned field entries
Store (1, BI18)
   //  verify memory contents using misaligned field entries
   If (LNotEqual (BI18, 1))

{   Return (49) }
   //  verify memory contents using aligned field entries
   If (LNotEqual (DWD0, 0x5B5AA55A))
      {   Return (50) }

//  set memory contents to known values using misaligned field entries
Store (0, BI19)
```

```
    // verify memory contents using misaligned field entries
    If (LNotEqual (BI19, 0))
        {   Return (51) }
    // verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0x595AA55A))
        {   Return (52) }

// set memory contents to known values using misaligned field entries
Store (1, BI1A)
    // verify memory contents using misaligned field entries
    If (LNotEqual (BI1A, 1))
        {   Return (53) }
    // verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0x5D5AA55A))

      {   Return (54) }

// set memory contents to known values using misaligned field entries
Store (0, BI1B)
    // verify memory contents using misaligned field entries
    If (LNotEqual (BI1B, 0))
        {   Return (55) }
    // verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0x555AA55A))
        {   Return (56) }

// set memory contents to known values using misaligned field entries
Store (0, BI1C)
    // verify memory contents using misaligned field entries
    If (LNotEqual (BI1C, 0))
        {   Return (57) }
    // verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0x455AA55A))
        {   Return (58) }

// set memory contents to known values using misaligned field entries
Store (1, BI1D)

// verify memory contents using misaligned field entries
    If (LNotEqual (BI1D, 1))
        {   Return (59) }
    // verify memory contents using aligned field entries
    If (LNotEqual (DWD0, 0x655AA55A))
        {   Return (60) }

// set memory contents to known values using misaligned field entries
Store (0, BI1E)
    // verify memory contents using misaligned field entries
```

```
            If (LNotEqual (BI1E, 0))
                {   Return (61) }
            //  verify memory contents using aligned field entries
            If (LNotEqual (DWD0, 0x255AA55A))
                {   Return (62) }

        //  set memory contents to known values using misaligned field entries
        Store (1, BI1F)
            //  verify memory contents using misaligned field entries
            If (LNotEqual (BI1F, 1))
                {   Return (63) }

         //  verify memory contents using aligned field entries
            If (LNotEqual (DWD0, 0xA55AA55A))
                {   Return (64) }



        //  set memory contents to known values using misaligned field entries
        Store (3, B2_0)
            //  verify memory contents using misaligned field entries
            If (LNotEqual (B2_0, 3))
                {   Return (65) }
            //  verify memory contents using aligned field entries
            If (LNotEqual (DWD0, 0xA55AA55B))
                {   Return (66) }

        //  set memory contents to known values using misaligned field entries
        Store (1, B2_1)
            //  verify memory contents using misaligned field entries
            If (LNotEqual (B2_1, 1))
                {   Return (67) }
            //  verify memory contents using aligned field entries
            If (LNotEqual (DWD0, 0xA55AA557))
                {   Return (68)
}

        //  set memory contents to known values using misaligned field entries
        Store (0, B2_2)
            //  verify memory contents using misaligned field entries
            If (LNotEqual (B2_2, 0))
                {   Return (69) }
            //  verify memory contents using aligned field entries
            If (LNotEqual (DWD0, 0xA55AA547))
                {   Return (70) }

        //  set memory contents to known values using misaligned field entries
        Store (3, B2_3)
            //  verify memory contents using misaligned field entries
```

```
            If (LNotEqual (B2_3, 3))
                {   Return (71) }
            //  verify memory contents using aligned field entries
            If (LNotEqual (DWD0, 0xA55AA5C7))
                {   Return (72) }

        //  set memory contents to known values using misaligned field entries
        Store (3, B2_4)
            //  verify memory contents
using misaligned field entries
            If (LNotEqual (B2_4, 3))
                {   Return (73) }
            //  verify memory contents using aligned field entries
            If (LNotEqual (DWD0, 0xA55AA7C7))
                {   Return (74) }

        //  set memory contents to known values using misaligned field entries
        Store (0, B2_5)
            //  verify memory contents using misaligned field entries
            If (LNotEqual (B2_5, 0))
                {   Return (75) }
            //  verify memory contents using aligned field entries
            If (LNotEqual (DWD0, 0xA55AA3C7))
                {   Return (76) }

        //  set memory contents to known values using misaligned field entries
        Store (1, B2_6)
            //  verify memory contents using misaligned field entries
            If (LNotEqual (B2_6, 1))
                {   Return (77) }
            //  verify memory contents
using aligned field entries
            If (LNotEqual (DWD0, 0xA55A93C7))
                {   Return (78) }

        //  set memory contents to known values using misaligned field entries
        Store (1, B2_7)
            //  verify memory contents using misaligned field entries
            If (LNotEqual (B2_7, 1))
                {   Return (79) }
            //  verify memory contents using aligned field entries
            If (LNotEqual (DWD0, 0xA55A53C7))
                {   Return (80) }

        //  set memory contents to known values using misaligned field entries
        Store (0, B2_8)
            //  verify memory contents using misaligned field entries
            If (LNotEqual (B2_8, 0))
```

```
            {   Return (81) }
        //  verify memory contents using aligned field entries
        If (LNotEqual (DWD0, 0xA55853C7))
            {   Return (82) }

    //  set memory contents
to known values using misaligned field entries
    Store (1, B2_9)
        //  verify memory contents using misaligned field entries
        If (LNotEqual (B2_9, 1))
            {   Return (83) }
        //  verify memory contents using aligned field entries
        If (LNotEqual (DWD0, 0xA55453C7))
            {   Return (84) }

    //  set memory contents to known values using misaligned field entries
    Store (2, B2_A)
        //  verify memory contents using misaligned field entries
        If (LNotEqual (B2_A, 2))
            {   Return (85) }
        //  verify memory contents using aligned field entries
        If (LNotEqual (DWD0, 0xA56453C7))
            {   Return (86) }

    //  set memory contents to known values using misaligned field entries
    Store (2, B2_B)
        //  verify memory contents using misaligned field entries
         If (LNotEqual (B2_B, 2))
            {   Return (87) }
        //  verify memory contents using aligned field entries
        If (LNotEqual (DWD0, 0xA5A453C7))
            {   Return (88) }

    //  set memory contents to known values using misaligned field entries
    Store (3, B2_C)
        //  verify memory contents using misaligned field entries
        If (LNotEqual (B2_C, 3))
            {   Return (89) }
        //  verify memory contents using aligned field entries
        If (LNotEqual (DWD0, 0xA7A453C7))
            {   Return (90) }

    //  set memory contents to known values using misaligned field entries
    Store (3, B2_D)
        //  verify memory contents using misaligned field entries
        If (LNotEqual (B2_D, 3))
            {   Return (91) }
        //  verify memory contents using aligned field entries
```

```
            If (LNotEqual (DWD0, 0xAFA453C7))
              {   Return (92) }

        //  set memory contents to known values using misaligned field entries
        Store (1, B2_E)
          //  verify memory contents using misaligned field entries
          If (LNotEqual (B2_E, 1))
            {   Return (93) }
          //  verify memory contents using aligned field entries
          If (LNotEqual (DWD0, 0x9FA453C7))
            {   Return (94) }

        //  set memory contents to known values using misaligned field entries
        Store (0, B2_F)
          //  verify memory contents using misaligned field entries
          If (LNotEqual (B2_F, 0))
            {   Return (95) }
          //  verify memory contents using aligned field entries
          If (LNotEqual (DWD0, 0x1FA453C7))
            {   Return (96) }


        Return (0)  //  pass
      }   //  MADM:   Misaligned
 Dynamic RAM SystemMemory OperationRegion

      Method (TEST)
      {
        Store ("++++++++ IndexOp4 Test", Debug)

        //  MADM (Misaligned Dynamic RAM SystemMemory OperationRegion) arguments:
        //      Arg0    --  SystemMemory OperationRegion base address
        Store (MADM (0x800000), Local0)
        If (LNotEqual (Local0, 0))      //  MADM returns zero if successful
          {   Return (Local0) }       //  failure:    return MADM error code

        Return (Local0)
      }   //  TEST
    }   //  IDX4

//
// test Event.asl
//
//  EventOp, ResetOp, SignalOp, and WaitOp test cases.
//
  Device (EVNT)
  {
    Event (EVNT)    //  event synchronization object
```

```
    Method (TEVN, 1)
    //  Arg0:   time to Wait for event in milliseconds
    {   //  TEVN control method to test ResetOp, SignalOp, and WaitOp
        //  reset EVNT to initialization (zero) state
        Reset (EVNT)

        //  prime EVNT
with two outstanding signals
        Signal (EVNT)
        Signal (EVNT)


        //  acquire existing signal
        Store (Wait (EVNT, Arg0), Local0)

        //  validate Local0 is a Number
        Store (ObjectType (Local0), Local1)
        If (LNotEqual (Local1, 1))  //  Number is type 1
            {   Return (0x21)   }       //  Local1 indicates Local0 is not a Number

        If (LNotEqual (Local0, 0))  //  Number is type 1
            {   Return (0x22)   }       //  timeout occurred without acquiring signal

        Store ("Acquire 1st existing signal PASS", Debug)


        //  acquire existing signal
        Store (Wait (EVNT, Arg0), Local0)

        //  validate Local0 is a Number
        Store (ObjectType (Local0), Local1)
        If (LNotEqual (Local1, 1))  //  Number is type 1
            {   Return (0x31)   }       //  Local1 indicates Local0 is not a Number

        If (LNotEqual (Local0, 0))
//  Number is type 1
            {   Return (0x32)   }       //  timeout occurred without acquiring signal

        Store ("Acquire 2nd existing signal PASS", Debug)


        //  ensure WaitOp timeout test cases do not hang
        if (LEqual (Arg0, 0xFFFF))
            {   Store (0xFFFE, Arg0)    }

        //  acquire non-existing signal
        Store (Wait (EVNT, Arg0), Local0)
```

```
        // validate Local0 is a Number
        Store (ObjectType (Local0), Local1)
        If (LNotEqual (Local1, 1)) // Number is type 1
          {  Return (0x41)  }      // Local1 indicates Local0 is not a Number

        If (LEqual (Local0, 0))    // Number is type 1
          {  Return (0x42)  }      // non-existent signal was acquired

        Store ("Acquire signal timeout PASS", Debug)


        // prime EVNT with two outstanding signals
        Signal (EVNT)
        Signal (EVNT)

        // reset EVNT to initialization
(zero) state
        Reset (EVNT)

        // acquire non-existing signal
        Store (Wait (EVNT, Arg0), Local0)

        // validate Local0 is a Number
        Store (ObjectType (Local0), Local1)
        If (LNotEqual (Local1, 1)) // Number is type 1
          {  Return (0x51)  }      // Local1 indicates Local0 is not a Number

        If (LEqual (Local0, 0))    // Number is type 1
          {  Return (0x52)  }      // non-existent signal was acquired

        Store ("Reset signal PASS", Debug)


        // acquire non-existing signal using Lvalue timeout
        Store (Wait (EVNT, Zero), Local0)

        // validate Local0 is a Number
        Store (ObjectType (Local0), Local1)
        If (LNotEqual (Local1, 1)) // Number is type 1
          {  Return (0x61)  }      // Local1 indicates Local0 is not a Number

        If (LEqual (Local0, 0))    // Number is type 1

       {  Return (0x62)  }      // non-existent signal was acquired

        Store ("Zero Lvalue PASS", Debug)
```

```
        //  acquire non-existing signal using Lvalue timeout
        Store (Wait (EVNT, One), Local0)

        //  validate Local0 is a Number
        Store (ObjectType (Local0), Local1)
        If (LNotEqual (Local1, 1))  //  Number is type 1
           {   Return (0x71)   }       //  Local1 indicates Local0 is not a Number

        If (LEqual (Local0, 0))     //  Number is type 1
           {   Return (0x72)   }       //  non-existent signal was acquired

        Store ("One Lvalue PASS", Debug)

        //  Lvalue Event test cases
    // ILLEGAL SOURCE OPERAND        Store (EVNT, Local2)

        //  validate Local2 is an Event
        Store (ObjectType (EVNT), Local1)
        If (LNotEqual (Local1, 7))  //  Event is type 7
           {   Return (0x81)   }       //  Local1 indicates Local0 is not a Number

         //  reset EVNT to initialization (zero) state
        Reset (EVNT)

        //  prime EVNT with two outstanding signals
        Signal (EVNT)

        //  acquire existing signal
        Store (Wait (EVNT, Arg0), Local0)

        //  validate Local0 is a Number
        Store (ObjectType (Local0), Local1)
        If (LNotEqual (Local1, 1))  //  Number is type 1
           {   Return (0x82)   }       //  Local1 indicates Local0 is not a Number

        If (LNotEqual (Local0, 0))  //  Number is type 1
           {   Return (0x83)   }       //  timeout occurred without acquiring signal

        Store ("Acquire Lvalue existing signal PASS", Debug)


        //  acquire non-existing signal
        Store (Wait (EVNT, Arg0), Local0)

        //  validate Local0 is a Number
        Store (ObjectType (Local0), Local1)
        If (LNotEqual (Local1, 1))  //  Number is type 1
```

```
            {   Return (0x84)   }
        //  Local1 indicates Local0 is not a Number

            If (LEqual (Local0, 0))     //  Number is type 1
               {   Return (0x85)   }       //  non-existent signal was acquired

            Store ("Acquire Lvalue signal timeout PASS", Debug)


            Return (0)  //  success
        }   //  TEVN control method to test ResetOp, SignalOp, and WaitOp

        Method (TEST)
        {
            Store ("++++++++ Event Test", Debug)

            Store (TEVN (100), Local0)

            Return (Local0)
        }   //  TEST
    }   //  EVNT

//
// test SizeOfLv.asl
//
//  Test for SizeOf (Lvalue)
//
//  This next section will contain the packages that the SizeOfOp will be
//  exercised on. The first one, PKG0, is a regular package of 3 elements.
//  The 2nd one, PKG1, is a nested package with 3 packages inside it, each
//  with 3 elements. It is expected that SizeOf operator will return the
//  same value for these two packages since they both have 3 elements. The
//  final
 package, PKG2, has 4 elements and the SizeOf operator is expected
//  to return different results for this package.

    Name (PKG0,
        Package (3)
        {0x0123, 0x4567, 0x89AB}
    )   //  PKG0

    Name (PKG1,
        Package (3)
        {
            Package (3) {0x0123, 0x4567, 0x89AB},
            Package (3) {0xCDEF, 0xFEDC, 0xBA98},
            Package (3) {0x7654, 0x3210, 0x1234}
        }
```

```
  )  //  PKG1

  Name (PKG2,
     Package (4)
     {0x0123, 0x4567, 0x89AB, 0x8888}
  )  //  PKG2

  Name (PKG3,
     Package (5)
     {0x0123, 0x4567, 0x89AB, 0x8888, 0x7777}
  )  //  PKG3

//  End Packages    ************************************************************

//  The following section will declare the data strings that will be used to
//  exercise the SizeOf operator. STR0 and STR1 are expected to be equal,
//  STR2 is expected to have a different SizeOf value than STR0 and STR1.

  Name (STR0, "ACPI permits very flexible methods of expressing a system")

   Name (STR1, "MIKE permits very flexible methods of expressing a system")

  Name (STR2, "Needless to say, Mike and ACPI are frequently at odds")

//  This string is being made in case we want to do a SizeOf comparison
//  between strings and packages or buffers
  Name (STR3, "12345")

//  End Strings     ************************************************************

//  The following section will declare the buffers that will be used to exercise
//  the SizeOf operator.

  Name (BUF0, Buffer (10) {})
  Name (BUF1, Buffer (10) {})
  Name (BUF2, Buffer (8)  {})
  Name (BUF3, Buffer (5)  {})

//  End Buffers     ************************************************************
  Device (SZLV)
  {

     Method (CMPR, 2)
     {
        //  CMPR is passed two arguments. If unequal, return 1 to indicate
        //  that, otherwise return 0 to indicate SizeOf each is equal.

        Store (0x01, Local0)
```

```
    if (LEqual (SizeOf(Arg0), SizeOf(Arg1)))
     {
       Store (0x00, Local0)
     }

     return (Local0)
  }  //  CMPR


  Method (TEST)
  {

     Store ("++++++++ SizeOfLv Test", Debug)

     //  TBD:    SizeOf ("string")
     //          SizeOf (Buffer)
     //          SizeOf (Package)
     //          SizeOf (String)
     //          SizeOf (STR0)   --  where Name (STR0,...) -- lot's of cases
     //             buffer, string, package,
     //          SizeOf (METH) -- where METH control method returns
     //             buffer, string, package,

     //  TBD:    SLOC [SizeOf (Local0)] -- dup SARG

     //  Compare the elements that we expect to be the same. Exit out with an error
     //  code on the first failure.
     if (LNotEqual (0x00, CMPR (STR0, STR1)))
     {
       Return (0x01)
     }

     if (LNotEqual (0x00, CMPR (STR3, BUF3)))

{
       Return (0x02)
     }

     if (LNotEqual (0x00, CMPR (STR3, PKG3)))
     {
       Return (0x03)
     }

     //  In the following section, this test will cover the SizeOf
     //  operator for Local values.
     //  In this case, both Local0 and Local1 should have the same Size
     Store (STR0, Local0)
```

```
        Store (STR1, Local1)

        if (LNotEqual (SizeOf (Local0), SizeOf (Local1)))
        {
           Return (0x04)
        }

        //  Now create a case where Local0 and Local1 are different
        Store (STR2, Local1)

        if (LEqual (SizeOf (Local0), SizeOf (Local1)))
        {
           Return (0x05)
        }

        //  Finally, check for the return of SizeOf for a known Buffer. Just
        //  in case we magically pass above cases due to all Buffers being Zero
        //  bytes in size, or Infinity, etc.
        if (LNotEqual
(0x05, SizeOf (BUF3)))
        {
           Return (0x06)
        }

        Return (0)
     }   //  TEST
  }   //  SZLV


//
// test BytField.asl
//
//  BytField test
//      This is just a subset of the many RegionOp/Index Field test cases.
//      Tests access of TBD.
//
   Scope (\_SB)    //  System Bus
   {   //  _SB system bus
      Device (BYTF)
      {   //  Test device name
         Method (TEST)
         {
            Store ("++++++++ BytField Test", Debug)

            Return (\_TZ.C19B.RSLT)
         }   //  TEST
      }   //  BYTF
```

```
    Device (C005)
    {   //  Device C005
        Device (C013)
        {   //  Device C013
        }   //  Device C013
    }   //  Device C005

    Method (C115)
    {   //  C115 control method
        Acquire (\_GL, 0xFFFF)
        Store (\_SB.C005.C013.C058.C07E, Local0)
        Release (\_GL)
        And (Local0, 16, Local0)
        Store
(ShiftRight (Local0, 4, ), Local1)
        If (LEqual (Local1, 0))
            {   Return (1)  }
        Else
            {   Return (0)  }
    }   //  C115 control method
  }   //  _SB system bus

  OperationRegion (C018, SystemIO, 0x5028, 4)
  Field (C018, AnyAcc, NoLock, Preserve)
  {   //  Field overlaying C018
    C019,   32
  }   //  Field overlaying C018

  OperationRegion (C01A, SystemIO, 0x5030, 4)
  Field (C01A, ByteAcc, NoLock, Preserve)
  {   //  Field overlaying C01A
    C01B,   8,
    C01C,   8,
    C01D,   8,
    C01E,   8
  }   //  Field overlaying C01A

  Mutex (\C01F, 0)
  Name (\C020, 0)
  Name (\C021, 0)

  Method (\C022, 0)
  {   //  \C022 control method
    Acquire (\C01F, 0xFFFF)
    If (LEqual (\C021, 0))
    {
        Store (C019, Local0)
        And (Local0, 0xFFFEFFFE, Local0)
```

```
      Store (Local0, C019)
      Increment (\C021)
    }
    Release (\C01F)
  }  //  \C022 control method

Scope (\_SB.C005.C013)
{  //  Scope \_SB.C005.C013
    Device (C058)
    {  //  Device C058
      Name (_HID, "*PNP0A06")

      OperationRegion (C059, SystemIO, 0xE0, 2)
      Field (C059, ByteAcc, NoLock, Preserve)
      {  //  Field overlaying C059
        C05A,   8,
        C05B,   8
      }  //  Field overlaying C059

      OperationRegion (C05C, SystemIO, 0xE2, 2)
      Field (C05C, ByteAcc, NoLock, Preserve)
      {  //  Field overlaying C05C
        C05D,   8,
        C05E,   8
      }  //  Field overlaying C05C
      IndexField (C05D, C05E, ByteAcc, NoLock, Preserve)
      {  //  IndexField overlaying C05D/C05E
        ,      0x410,  //  skip
        C05F,   8,
        C060,   8,
        C061,   8,
        C062,   8,
        C063,   8,
        C064,   8,

      C065,   8,
        C066,   8,
        C067,   8,
        C068,   8,
        C069,   8,
        C06A,   8,
        C06B,   8,
        C06C,   8,
        C06D,   8,
        C06E,   8,
        ,      0x70,      //  skip
        C06F,   8,
        C070,   8,
```

```
        C071,   8,
        C072,   8,
        C073,   8,
        C074,   8,
        C075,   8,
        C076,   8,
        C077,   8,
        C078,   8,
        C079,   8,
        C07A,   8,
        C07B,   8,
        C07C,   8,
        C07D,   8,
        C07E,   8
    }   //  IndexField overlaying C05D/C05E

    OperationRegion (C07F, SystemIO, 0xE4, 2)
    Field (C07F, ByteAcc, NoLock, Preserve)
    {   //  Field overlaying C07F
        C080,   8,
        C081,   8

}   //  Field overlaying C07F

    OperationRegion (C082, SystemIO, 0xE0, 1)
    Field (C082, ByteAcc, NoLock, Preserve)
    {   //  Field overlaying C082
        C083,   8
    }   //  Field overlaying C082

    OperationRegion (C084, SystemIO, 0xFF, 1)
    Field (C084, ByteAcc, NoLock, Preserve)
    {   //  Field overlaying C084
        C085,   8
    }   //  Field overlaying C084

    OperationRegion (C086, SystemIO, 0xFD, 1)
    Field (C086, ByteAcc, NoLock, Preserve)
    {   //  Field overlaying C086
        C087,   8
    }   //  Field overlaying C086

    Mutex (C088, 0)
    Mutex (C089, 0)
    Mutex (C08A, 0)
    Mutex (C08B, 0)
    Mutex (C08C, 0)
    Mutex (C08D, 0)
```

```
        Name (C08E, 0xFFFFFFFD)
        Name (C08F, 0)

        Method (C0AA, 4)
        {   //  C0AA control method

 Store (Buffer (4) {}, Local7)
            CreateByteField (Local7, 0, C0AB)
            CreateByteField (Local7, 1, C0AC)
            CreateByteField (Local7, 2, C0AD)
            CreateByteField (Local7, 3, C0AE)
            Acquire (^C08B, 0xFFFF)
            Acquire (\_GL, 0xFFFF)
            \C022 ()
            Store (1, \_SB.C005.C013.C058.C06B)
            While (LNot (LEqual (0, \_SB.C005.C013.C058.C06B)))
               {   Stall (100) }
            Store (Arg3, \_SB.C005.C013.C058.C06E)
            Store (Arg2, \_SB.C005.C013.C058.C06D)
            Store (Arg1, \_SB.C005.C013.C058.C06C)
            Store (Arg0, \_SB.C005.C013.C058.C06B)
            While (LNot (LEqual (0, \_SB.C005.C013.C058.C06B)))
               {   Stall (100) }
            Store (\_SB.C005.C013.C058.C06E, C0AB)
            Store (\_SB.C005.C013.C058.C06D, C0AC)
            Store (\_SB.C005.C013.C058.C06C, C0AD)

Store (\_SB.C005.C013.C058.C06B, C0AE)
            If (LNot (LEqual (Arg0, 23)))
            {
               Store (2, \_SB.C005.C013.C058.C06B)
               Stall (100)
            }
            Release (\_GL)
            Release (^C08B)
            Return (Local7)
        }   //  C0AA control method
    }   //  Device C058
}   //  Scope \_SB.C005.C013

Scope (\_TZ)
{   //  \_TZ thermal zone scope
    Name (C18B, Package (2)
    {
        Package (2)
        {
            Package (5) {0x05AC, 0x0CD2, 0x0D68, 0x0DE0, 0x0E4E},
```

```
            Package (5) {0x0D04, 0x0D9A, 0x0DFE, 0x0E80, 0x0FA2}
        },
        Package (2)
        {
            Package (5) {0x05AC, 0x0CD2, 0x0D68, 0x0DE0, 0x0E4E},
            Package (5) {0x0D04, 0x0D9A, 0x0DFE, 0x0E80, 0x0FA2}
        }
    }) // C18B

    Name (C18C, Package (2)
    {
        Package (2)
        {

    Package (3) {0x64, 0x4B, 0x32},
            Package (3) {0x64, 0x4B, 0x32}
        }
    }) // C81C

    Name (C18D, 0)
    Name (C18E, 0)
    Name (C18F, 0)
    Name (C190, 0)
    Name (C191, 3)
    Name (C192, 0)
    Name (C193, 1)
    Name (C194, 2)
    Mutex (C195, 0)
    Name (C196, 1)
    Name (C197, 0x0B9C)
    Name (C198, 0x0B9C)
    Name (C199, 0xFFFFFFFD)
    Name (C19A, 0)

    Device (C19B)
    {   // Device C19B
        Name (RSLT, 0) // default to zero

        Method (XINI)
        {   // _INI control method (Uses Global Lock -- can't run under AcpiExec)
            Store (\_SB.C115, C19A)
            \_TZ.C19C._SCP (0)
            Subtract (0x0EB2, 0x0AAC, Local1)   // Local1 = AACh - EB2h
            Divide (Local1, 10, Local0, Local2) // Local0 = Local1 / 10
                                                // Local2 = Local1 % 10

      \_SB.C005.C013.C058.C0AA (14, Local2, 0, 0)
            Store
```

```
            (DerefOf (Index (DerefOf (Index (\_TZ.C18C, C19A, )), 0, )), C18D)
         Store
            (DerefOf (Index (DerefOf (Index (\_TZ.C18C, C19A, )), 1, )), C18E)
         Store
            (DerefOf (Index (DerefOf (Index (\_TZ.C18C, C19A, )), 2, )), C18F)

         Store (1, RSLT) //  set RSLT to 1 if _INI control method completes
      }   //  _INI control method

      //  PowerResource (C19D) {...}
   }   //  Device C19B

   ThermalZone (C19C)
   {
      Method (_SCP, 1)
      {   //  _SCP control method
         Store (Arg0, Local0)
         If (LEqual (Local0, 0))
         {
            Store (0, \_TZ.C192)
            Store (1, \_TZ.C193)
            Store (2, \_TZ.C194)
            Store (3, \_TZ.C191)
         }
         Else
         {

            Store (0, \_TZ.C191)
            Store (1, \_TZ.C192)
            Store (2, \_TZ.C193)
            Store (3, \_TZ.C194)
         }
      }   //  _SCP control method
   }   //  ThermalZone C19C
}   //  \_TZ thermal zone scope


//
// test DwrdFld.asl
//
   Name (BUFR, buffer(10) {0,0,0,0,0,0,0,0,0,0} )

   Device (DWDF)
   {
      Method (TEST)
      {
         Store ("++++++++ DwrdFld Test", Debug)
```

```
        CreateByteField (BUFR, 0, BYTE)
        Store (0xAA, BYTE)

        CreateWordField (BUFR, 1, WORD)
        Store (0xBBCC, WORD)

        CreateDWordField (BUFR, 3, DWRD)
        Store (0xDDEEFF00, DWRD)

        CreateByteField (BUFR, 7, BYT2)
        Store (0x11, BYT2)

        CreateWordField (BUFR, 8, WRD2)
        Store (0x2233, WRD2)

        Return (0)

    }   //  End Method TEST
  }   //  Device DWDF

  //
  // test DivAddx.asl
  //
  Name (B1LO,
0xAA)
  Name (B1HI, 0xBB)

  Method (MKW_, 2)
  {   //  This control method will take two bytes and make them into a WORD

    Multiply (B1HI, 256, Local0)    //  Make high byte.....high
    Or (Local0, B1LO, Local0)       //  OR in the low byte
    Return (Local0)                 //  Return the WORD

  }   //  MKW_

  Device (DVAX)
  {
    Method (TEST)
    {

        Store ("++++++++ DivAddx Test", Debug)

        Store (25, B1LO)
        Store (0, B1HI)

        //  We'll multiply 25 * 3 to get 75, add 99 to it then divide
        //  by 100. We expect to get 74 for the remainder and 1 for
```

```
        // the quotient.
        Divide(
            Add (Multiply (3, MKW_ (B1LO, B1HI)), 0x63),
                    // Dividend,
            100,        // Divisor
            Local4,     // Remainder
            Local2)     // Quotient

        If (LAnd (LEqual (74, Local4), LEqual (1, Local2)))

       {   // Indicate Pass
            Store (0x00, Local0)
        }

        Else
        {   // Indicate Fail
            Store (0x01, Local0)
        }

        Return (Local0)
    }   // End Method TEST
  }   // Device DVAX

//
// test IndexFld.asl (IndexOp6.asl)
//
//  IndexFld test
//      This is just a subset of the many RegionOp/Index Field test cases.
//      Tests index field element AccessAs macro.
//      Also tests name resolution of index field elements with same names
//      but different namespace scopes.
//
  Device (IDX6)
  {   // Test device name

      OperationRegion (SIO, SystemIO, 0x100, 2)
      Field (SIO, ByteAcc, NoLock, Preserve)
      {
          INDX,   8,
          DATA,   8
      }
      IndexField (INDX, DATA, AnyAcc, NoLock, WriteAsOnes)
      {
          AccessAs (ByteAcc, 0),
          IFE0,   8,
          IFE1,   8,
          IFE2,   8,
          IFE3,   8,
```

```
        IFE4,
 8,
        IFE5,   8,
        IFE6,   8,
        IFE7,   8,
        IFE8,   8,
        IFE9,   8,
      }

      Device (TST_)
      {   //  TST_:   provides a different namespace scope for IFE0 and IFE1
        OperationRegion (SIO2, SystemIO, 0x100, 2)
        Field (SIO2, ByteAcc, NoLock, Preserve)
        {
          IND2,   8,
          DAT2,   8
        }
        IndexField (IND2, DAT2, AnyAcc, NoLock, WriteAsOnes)
        {
          IFE0,   8,  //  duplicate IndexField name with different scope
          IFE1,   8
        }
      }   //  TST_:   provides a different namespace scope for IFE0 and IFE1

      Method (TEST)
      {
        Store ("++++++++ IndexOp6 Test", Debug)

        Store (IFE0, Local0)
        Store (IFE1, Local1)
        Store (IFE2, Local2)

        //  validate name resolution of IndexFields with different scopes
        Store (\IDX6.IFE0, Local3)
         Store (\IDX6.IFE1, Local4)
        //  verioading of namespace can resolve following names
        Store (\IDX6.TST_.IFE0, Local5)
        Store (\IDX6.TST_.IFE1, Local6)

        Return (0)
      }   //  TEST
    }   //  IDX6

//
// test IndexOp5.asl
//
//  IndexOp5 test
//      This is just a subset of the many RegionOp/Index Field test cases.
```

```
//      Tests copying string into buffer then performing IndexOp on result.
//
  Device (IDX5)
  {   //  Test device name

      Name (OSFL, 0)  //  0 == Windows 98, 1 == Windows NT

      //  MCTH is a control method to compare two strings. It returns
      //  zero if the strings mismatch, or 1 if the strings match.
      //  This exercises the test case of copying a string into a buffer
      //  and performing an IndexOp on the resulting buffer.
      Method (MCTH, 2, Serialized)    //  Control Method to compare two strings
      {   //  MCTH:   Control Method to compare two strings

 //  Arg0:       first string to compare
          //  Arg1:       second string to compare
          //  Return: zero if strings mismatch, 1 if strings match

          //  check if first string's length is less than second string's length
          If (LLess (SizeOf (Arg0), SizeOf (Arg1)))
             {   Return (0)  }

          //  increment length to include NULL termination character
          Add (SizeOf (Arg0), 1, Local0)  //  Local0 = strlen(Arg0) + 1

          //  create two buffers of size Local0 [strlen(Arg0)+1]
          Name (BUF0, Buffer (Local0) {})
          Name (BUF1, Buffer (Local0) {})

          //  copy strings into buffers
          Store (Arg0, BUF0)
          Store (Arg1, BUF1)

          //  validate BUF0 and BUF1 are still buffers
          Store (ObjectType (BUF0), Local1)
          If (LNotEqual (Local1, 3))  //  Buffer is type 3
             {   Return (20) }
          Store (ObjectType (BUF1), Local1)
          If
 (LNotEqual (Local1, 3))  //  Buffer is type 3
             {   Return (21) }

          // Decrement because the Index base below is zero based
          //  while Local0 length is one based.
          Decrement (Local0)

          While (Local0)
          {   //  loop through all BUF0 buffer elements
```

```
            Decrement (Local0)

            //  check if BUF0[n] == BUF1[n]
            If (LEqual (DerefOf (Index (BUF0, Local0, )),
                  DerefOf (Index (BUF1, Local0, ))))
               {   }   //  this is how the code was really implemented
            Else
               {   Return (Zero)   }
         }   //  loop through all BUF0 buffer elements

         Return (One)    //  strings / buffers match
      }   //  MCTH:   Control Method to compare two strings


      Method (TEST)
      {
         Store ("++++++++ IndexOp5 Test", Debug)

         If (MCTH (\_OS, "Microsoft Windows NT"))
            {   Store
(1, OSFL) }

         If (LNotEqual (OSFL, 1))
            {   Return (11) }

         Return (0)
      }   //  TEST
   }   //  IDX5

//
// test IndexOp.asl
//
   Scope (\_SB)    //  System Bus
   {   //  _SB system bus

      Method (C097)
         {   Return (1)  }

      Device (PCI2)
      {   //  Root PCI Bus
         Name (_HID, EISAID("PNP0A03"))
         Name (_ADR, 0x00000000)
         Name (_CRS, Buffer(26)  {"\_SB_.PCI2._CRS....."})
         Method (_STA)   {Return (0x0F)}

         Device (ISA)
         {   //  ISA bridge
            Name (_ADR, 0x00030000)     //  ISA bus ID
```

```
        Device (EC0)
        {   //  Embedded Controller
          Name (_GPE, 0)             //  EC use GPE0
          Name (_ADR, 0x0030000)  //  PCI address

          Method (_STA,0)         //  EC Status
            {   Return(0xF) }       //  EC is functioning


Name (_CRS, ResourceTemplate()
              {
                IO (Decode16, 0x62, 0x62, 1, 1)
                IO (Decode16, 0x66, 0x66, 1, 1)
              }
            )

          //  create EC's region and field
            OperationRegion (RAM, SystemMemory, 0x400000, 0x100)
            Field (RAM, AnyAcc, NoLock, Preserve)
            {
              //  AC information
              ADP,    1,      //  AC Adapter 1:On-line, 0:Off-line
              AFLT,   1,      //  AC Adapter Fault  1:Fault  0:Normal
              BAT0,   1,      //  BAT0  1:present, 0:not present
              ,       1,      //  reserved
              ,       28, //  filler to force DWORD alignment

              //  CMBatt information
              BPU0,   32, //  Power Unit
              BDC0,   32, //  Designed Capacity

      BFC0,   32, //  Last Full Charge Capacity
              BTC0,   32, //  Battery Technology
              BDV0,   32, //  Design Voltage
              BST0,   32, //  Battery State
              BPR0,   32, //  Battery Present Rate
                        //  (Designed Capacity)x(%)/{(h)x100}
              BRC0,   32, //  Battery Remaining Capacity
                        //  (Designed Capacity)(%)^100
              BPV0,   32, //  Battery Present Voltage
              BTP0,   32, //  Trip Point
              BCW0,   32, //  Design capacity of Warning
              BCL0,   32, //  Design capacity of Low
              BCG0,   32, //  capacity granularity 1
              BG20,   32, //  capacity granularity 2
              BMO0,   32, //  Battery model number field
              BIF0,   32, //  OEM Information(00h)
```

```
            BSN0,   32, //  Battery Serial Number
              BTY0,   32, //  Battery Type (e.g., "Li-Ion")
              BTY1,   32      //  Battery Type (e.g., "Li-Ion")
            }   //  Field
          }   //  EC0: Embedded Controller
        }   //  ISA bridge
      }   //  PCI2 Root PCI Bus

      Device (IDX0)
      {   //  Test device name
        Name (_HID, EISAID ("PNP0C0A"))     //  Control Method Battey ID
        Name (_PCL, Package() {\_SB})
        Method (_STA)
        {
          //  _STA bits 0-3 indicate existence of battery slot
          //  _STA bit 4 indicates battery (not) present
          If (\_SB.PCI2.ISA.EC0.BAT0)
            {   Return (0x1F)   }   //  Battery present
          else
            {   Return (0x0F)   }   //  Battery not present
        }   //  _STA

        Method (_BIF,, Serialized)
        {
          Name (BUFR,
Package(13) {})
          Store (\_SB.PCI2.ISA.EC0.BPU0, Index (BUFR,0))  //  Power Unit
          Store (\_SB.PCI2.ISA.EC0.BDC0, Index (BUFR,1))  //  Designed Capacity
          Store (\_SB.PCI2.ISA.EC0.BFC0, Index (BUFR,2))  //  Last Full Charge Capa.
          Store (\_SB.PCI2.ISA.EC0.BTC0, Index (BUFR,3))  //  Battery Technology
          Store (\_SB.PCI2.ISA.EC0.BDV0, Index (BUFR,4))  //  Designed Voltage
          Store (\_SB.PCI2.ISA.EC0.BCW0, Index (BUFR,5))  //  Designed warning level
          Store (\_SB.PCI2.ISA.EC0.BCL0, Index (BUFR,6))  //  Designed Low level
          Store (\_SB.PCI2.ISA.EC0.BCG0, Index (BUFR,7))  //  Capacity granularity 1
          Store (\_SB.PCI2.ISA.EC0.BG20, Index (BUFR,8))  //  Capacity granularity 2

          Store ("", Index (BUFR,9))                      //  Model Number

          Store ("", Index (BUFR,10))                     //  Serial Number

          Store
("LiOn", Index (BUFR,11))                 //  Battery Type

          Store ("Chicony", Index (BUFR,12))              //  OEM Information

          Return (BUFR)
        }   //  _BIF
```

```
        Method (_BST,, Serialized)
        {
            Name (BUFR, Package(4) {1, 0x100, 0x76543210, 0x180})
            Return (BUFR)
        }   //  _BST

        Method (_BTP,1)
        {
            Store (arg0, \_SB.PCI2.ISA.EC0.BTP0)    //  Set Battery Trip point
        }

        Method (TEST,, Serialized)
        {

            Store ("++++++++ IndexOp Test", Debug)

            //  test storing into uninitialized package elements
            Name (PBUF, Package(4) {})  //  leave uninitialized
            Store (0x01234567, Index (PBUF,0))
            Store (0x89ABCDEF, Index (PBUF,1))
            Store (0xFEDCBA98, Index (PBUF,2))
            Store (0x76543210, Index (PBUF,3))


//  verify values stored into uninitialized package elements
            If (LNotEqual (DerefOf (Index (PBUF,0)), 0x01234567))
                {   Return (0x10)   }

            If (LNotEqual (DerefOf (Index (PBUF,1)), 0x89ABCDEF))
                {   Return (0x11)   }

            If (LNotEqual (DerefOf (Index (PBUF,2)), 0xFEDCBA98))
                {   Return (0x12)   }

            If (LNotEqual (DerefOf (Index (PBUF,3)), 0x76543210))
                {   Return (0x13)   }


            //  store _BIF package return value into Local0
            Store (_BIF, Local0)

            //  save Local0 object type value into Local1
            Store (ObjectType (Local0), Local1)

            //  validate Local0 is a Package
            If (LNotEqual (Local1, 4))  //  Package type is 4
                {   Return (0x21)   }   //  failure
```

```
            //  test storing into buffer field elements
            Name (BUFR, Buffer(16)
                {   //  initial values
                  00, 00, 00, 00, 00, 00, 00, 00,
                  00, 00, 00, 00, 00, 00, 00, 00,
                }
            )   //  BUFR
            //  test storing into buffer field elements
            Store (0x01234567, Index (BUFR,0))  //  should only store 0x67
            Store (0x89ABCDEF, Index (BUFR,4))  //  should only store 0xEF
            Store (0xFEDCBA98, Index (BUFR,8))  //  should only store 0x98
            Store (0x76543210, Index (BUFR,12)) //  should only store 0x10

            //  verify storing into buffer field elements
            If (LNotEqual (DerefOf (Index (BUFR,0)), 0x67))
               {   Return (0x30)   }

            If (LNotEqual (DerefOf (Index (BUFR,1)), 0))
               {   Return (0x31)   }

            If (LNotEqual (DerefOf (Index (BUFR,4)), 0xEF))
               {   Return (0x34)   }

            If (LNotEqual (DerefOf
 (Index (BUFR,8)), 0x98))
               {   Return (0x38)   }

            If (LNotEqual (DerefOf (Index (BUFR,12)), 0x10))
               {   Return (0x3C)   }


            Return (0)  //  pass
         }   //  TEST
      }   //  IDX0
   }   //  _SB system bus

//
// test BitIndex.asl
//
//  BitIndex test
//  This is a test case for accessing fields defined as single bits in
//  memory. This is done by creating two index fields that overlay the
//  same DWORD in memory. One field accesses the DWORD as a DWORD, the
//  other accesses individual bits of the same DWORD field in memory.
//
   Scope (\_SB)    //  System Bus
```

```
{   //  _SB system bus
    OperationRegion (RAM, SystemMemory, 0x800000, 0x100)
    Field (RAM, AnyAcc, NoLock, Preserve)
    {   //  Any access
        TREE,   3,
        WRD0,   16,
        WRD1,   16,
        WRD2,   16,
        WRD3,   16,
        WRD4,   16,
        DWRD,   32, //  DWORD field
     }
    Field (RAM, AnyAcc, NoLock, Preserve)
    {   //  Any access
        THRE,   3,
        WD00,   16,
        WD01,   16,
        WD02,   16,
        WD03,   16,
        WD04,   16,
        BYT0,   8,  //  Start off with a BYTE
        BIT0,   1,  //  single-bit field
        BIT1,   1,  //  single-bit field
        BIT2,   1,  //  single-bit field
        BIT3,   1,  //  single-bit field
        BIT4,   1,  //  single-bit field
        BIT5,   1,  //  single-bit field
        BIT6,   1,  //  single-bit field
        BIT7,   1,  //  single-bit field
        BIT8,   1,  //  single-bit field
        BIT9,   1,  //  single-bit field
        BITA,   1,  //  single-bit field
        BITB,   1,  //  single-bit field
        BITC,   1,  //  single-bit field
        BITD,   1,  //  single-bit field
        BITE,   1,  //  single-bit field
        BITF,   1,  //  single-bit field
         BYTZ,   8,  //  End with a BYTE for a total of 32 bits
    }

    Device (BITI)
    {   //  Test device name

        Method (MBIT)   //  Test single bit memory accesses
        {

            If (LNotEqual (DWRD, 0x00))
            {
```

```
        Store (0xFF00, Local0)
    }
    Else
    {
        //  Prime Local0 with 0...assume passing condition
        Store (0, Local0)

        //  set memory contents to known values using DWORD field
        Store (0x5A5A5A5A, DWRD)

        //  Given the value programmed into DWRD, only the odd bits
        //  of the lower nibble should be set. BIT1, BIT3 should be set.
        //  BIT0 and BIT2 should be clear

        If (BIT0)
        {
            Or (Local0, 0x01, Local0)
        }

        If (LNot (BIT1))

{
            Or (Local0, 0x02, Local0)
        }

        If (BIT2)
        {
            Or (Local0, 0x04, Local0)
        }

        If (LNot (BIT3))
        {
            Or (Local0, 0x08, Local0)
        }

        //  Now check the upper nibble. Only the "even" bits should
        //  be set. BIT4, BIT6. BIT5 and BIT7 should be clear.
        If (LNot (BIT4))
        {
            Or (Local0, 0x10, Local0)
        }

        If (BIT5)
        {
            Or (Local0, 0x20, Local0)
        }

        If (LNot (BIT6))
```

```
            {
               Or (Local0, 0x40, Local0)
            }

            If (BIT7)
            {
               Or (Local0, 0x80, Local0)

      }
         }  //  End Else DWRD zeroed out

         Return (Local0)
       }  //  MBIT:   Test single bit memory accesses

       Method (TEST)
       {

         Store ("++++++++ BitIndex Test", Debug)

         //  Zero out DWRD
         Store (0x00000000, DWRD)

         //  MBIT returns zero if successful
         //  This may be causing problems -- Return (MBIT)
         Store (MBIT, Local0)

         Return (Local0)
       }  //  TEST
     }  //  BITI
  }  //  _SB system bus

//
// test IndexOp3.asl
//
//  Additional IndexOp test cases to support ACPICMB (control method battery
//  test) on Compaq laptops. Test cases include storing a package into
//  an IndexOp target and validating that changing source and destination
//  package contents are independent of each other.
//
  Scope (\_SB)    //  System Bus
  {  //  _SB system bus

    Name (C174, 13)
    Name (C175,
 8)

    Device (C158)
    {  //  C158:   AC Adapter device
```

```
        Name (_HID, "ACPI0003") //  AC Adapter device
        Name (_PCL, Package (1) {\_SB})

        Method (_PSR)
        {
            Acquire (\_GL, 0xFFFF)
            Release (\_GL)
            And (Local0, 1, Local0) //  Local0 &= 1
            Return (Local0)
        }  //  _PSR
    }  //  C158:   AC Adapter device

    Name (C176, Package (4) {"Primary", "MultiBay", "DockRight", "DockLeft"})

    Name (C177, Package (4) {0x99F5, 0x99F5, 0x995F, 0x995F})

    Name (C178, Package (4)
    {
        Package (4) {0, 0, 0x966B, 0x4190},
        Package (4) {0, 0, 0x966B, 0x4190},
        Package (4) {0, 0, 0x966B, 0x4190},
        Package (4) {0, 0, 0x966B, 0x4190}
    })  //  C178

    Name (C179, Package (4) {0, 0, 0x966B, 0x4190})

    Name (C17A, Package (4)
    {
        Package (3) {0, 0, 0},
        Package (3)
{0, 0, 0},
        Package (3) {0, 0, 0},
        Package (3) {0, 0, 0}
    })  //  C17A

    Method (C17B, 1, Serialized)
    {   //  C17B:   _BIF implementation
        Name (C17C, Package (13)
        {   //  C17C:   _BIF control method return package
            0,              //  Power Unit (0 ==> mWh and mW)
            0x99F5,         //  Design Capacity
            0x99F5,         //  Last Full Charge Capacity
            1,              //  Battery Technology (1 ==> rechargeable)
            0x3840,         //  Design Voltage
            0x1280,         //  Design Capacity of Warning
            0x0AC7,         //  Design Capacity of Low
            1,              //  Battery Capacity Granularity 1 (Low -- Warning)
            1,              //  Battery Capacity Granularity 2 (Warning -- Full)
```

```
            "2891",         //  Model Number (ASCIIZ)
            "(-Unknown-)",  //  Serial Number
(ASCIIZ)
            "LIon",         //  Battery Type (ASCIIZ)
            0               //  OEM Information (ASCIIZ)
        }) //  C17C:   _BIF control method return package

        And (Arg0, 7, Local0)                   //  Local0 = Arg0 & 7

        ShiftRight (Local0, 1, Local4)          //  Local4 = Local0 >> 1

        Store (C179, Index (C178, Local4, ))    //  C178->Local4 = C179

        //  verify source and destination packages can be altered independent
        //  of each other (i.e., changing one's contents does NOT change other's
        //  contents)
        Store (0x1234, Index (C179, 2, ))               //  C179[2] = 0x1234
        Store (DerefOf (Index (C179, 2, )), Local2) //  Local2 = C179[2]
        if (LNotEqual (Local2, 0x1234))
            {   Return (0x1234) }
                                                //  Local2 = C178[0,2]
        Store (DerefOf (Index (DerefOf
(Index (C178, 0, )), 2, )), Local2)
        if (LNotEqual (Local2, 0x966B))
            {   Return (0x1234) }

        // Restore data to allow iterative execution
        Store (0x966B, Index (C179, 2, ))               //  C179[2] = 0x966B

                                                //  C178[0,3] = 0x5678
        Store (0x5678, Index (DerefOf (Index (C178, 0, )), 3, ))
                                                //  Local2 = C178[0,3]
        Store (DerefOf (Index (DerefOf (Index (C178, 0, )), 3, )), Local2)
        if (LNotEqual (Local2, 0x5678))
            {   Return (0x5678) }

        Store (DerefOf (Index (C179, 3, )), Local2) //  Local2 = C179[3]
        if (LNotEqual (Local2, 0x4190))
            {   Return (0x5678) }

        // Restore data to allow iterative execution
        Store (0x4190, Index (DerefOf (Index (C178, 0, )), 3, ))    //  C179[2] = 0x4190


      Return (C17C)
    }   //  C17B:   _BIF implementation

    Device (C154)
```

```
    {   //  C154:   Battery 0
        Name (_HID, "*PNP0C0A")     //  Control Method Battey ID
        Name (_UID, 0)              //  first instance

        Method (_BIF)
        {   //  _BIF
            Return (C17B (48))
        }   //  _BIF
    }   //  C154:   Battery 0

    Device (IDX3)
    {
        Method (LCLB,, Serialized)
        {   //  LCLB control method: test Index(Local#) where Local# is buffer
            //  Local0 is index counter
            //  Local1 is buffer
            //  Local2 receives BUFR[Local0] via Deref(Index(Local1...))
            //  Local3 is Local1 or Local2 object type
            //  Local4 is return error code

            Name (BUFR, Buffer ()   {0, 1, 2, 3, 4, 5, 6, 7, 8, 9})

            //  save PKG into Local1
            Store (BUFR, Local1)

            //  save Local2
object type value into Local3
            Store (ObjectType (Local1), Local3)

            //  validate Local1 is a Buffer
            If (LNotEqual (Local3, 3))      //  Buffer type is 3
                {   Return (0x9F)   }



            Store (0, Local0)
            While (LLess (Local0, 5))
            {   //  While (Local0 < 5)
                //  Local2 = Local1[Local0]
                Store (DerefOf (Index (Local1, Local0, )), Local2)

                //  save Local2 object type value into Local3
                Store (ObjectType (Local2), Local3)

                //  validate Local2 is a Number
                If (LNotEqual (Local3, 1))      //  Number type is 1
                    {   Return (0x9E)   }

                //  validate Local1[Local0] value == Local0
```

```
            If (LNotEqual (Local0, Local2))
            {   //  Local0 != Local2 == PKG[Local0]
                //  Local4 = 0x90
+ loop index (Local0)
                Add (0x90, Local0, Local4)

                //  return 0x90 + loop index
                Return (Local4)
            }

            Increment (Local0)
        }   //  While (Local0 < 5)

        Store ("DerefOf(Index(LocalBuffer,,)) PASS", Debug)

        Return (0)  //  Pass
    }   //  LCLB control method: test Index(Local#) where Local# is buffer

    Method (LCLP,, Serialized)
    {   //  LCLP control method: test Index(Local#) where Local# is package
        //  Local0 is index counter
        //  Local1 is package
        //  Local2 receives PKG[Local0] via Deref(Index(Local1...))
        //  Local3 is Local1 or Local2 object type
        //  Local4 is return error code

        Name (PKG, Package ()   {0, 1, 2, 3, 4, 5, 6, 7, 8, 9})

        //  save PKG into Local1
        Store (PKG, Local1)

        //  save Local2 object type value into Local3
        Store (ObjectType (Local1), Local3)

        //  validate Local1 is a Package
        If (LNotEqual (Local3, 4))      //  Package type is 4
            {   Return (0x8F)   }


        Store (0, Local0)
        While (LLess (Local0, 5))
        {   //  While (Local0 < 5)
            //  Local2 = Local1[Local0]
            Store (DerefOf (Index (Local1, Local0, )), Local2)

            //  save Local2 object type value into Local3
            Store (ObjectType (Local2), Local3)
```

```
            //  validate Local2 is a Number
            If (LNotEqual (Local3, 1))      //  Number type is 1
               {   Return (0x8E)   }

            //  validate Local1[Local0] value == Local0
            If (LNotEqual (Local0, Local2))
            {   //  Local0 != Local2 == PKG[Local0]

           //  Local4 = 0x80 + loop index (Local0)
               Add (0x80, Local0, Local4)

               //  return 0x80 + loop index
               Return (Local4)
            }

            Increment (Local0)
         }   //  While (Local0 < 5)

         Store ("DerefOf(Index(LocalPackage,,)) PASS", Debug)

         Return (0)  //  Pass
      }   //  LCLP control method: test Index(Local#) where Local# is package

      Method (TEST)
      {

         Store ("++++++++ IndexOp3 Test", Debug)

         //  store _BIF package return value into Local0
         Store (\_SB.C154._BIF, Local0)

         //  save Local0 object type value into Local1
         Store (ObjectType (Local0), Local1)

         //  validate Local0 is a Package
         If (LNotEqual (Local1, 4))      //  Package type is 4
         {   //  failure: did not return a Package
(type 4)
            //  if Local0 is a Number, it contains an error code
            If (LEqual (Local1, 1))     //  Number type is 1
               {   Return (Local0) }   //  return Local0 error code
            Else                        //  Local0 is not a Number
               {   Return (1)  }          //  return default error code
         }   //  failure: did not return a Package (type 4)

         //  save LCLB control method return value into Local2
         Store (LCLB, Local2)
         If (LNotEqual (Local2, 0))
```

```
            {   Return (Local2) }   //  return failure code

            //  save LCLP control method return value into Local2
            Store (LCLP, Local2)
            If (LNotEqual (Local2, 0))
               {   Return (Local2) }   //  return failure code

            Return (0)  //  Pass
         }   //  TEST
      }   //  IDX3:   Test device name
   }   //  _SB system bus

//
// MTL developed test to exercise Indexes into buffers
//
   Device(IDX7)
   {

      Name (PKG4, Package() {
            0x2,
            "A short string",
            Buffer() {0xA, 0xB, 0xC, 0xD},
            0x1234,
            Package() {IDX7, 0x3}
            })

      //
      // Generic Test method
      //
      // This test returns 0xE (14) - ObjectType = Buffer Field
      Method(TST1,, Serialized)
      {
         Name (DEST, Buffer ()                        //  62 characters plus NULL
            {"Destination buffer that is longer than the short source buffer"})

         //  verify object type returned by Index(Buffer,Element,)
         Store (Index (DEST, 2, ), Local1)
         Store (ObjectType (Local1), Local2)
         If (LEqual(Local2, 14))
         {
            Return(0)
         }
         Else
         {
            Return(0x1)
         }
```

```
    }

    Method(TST2,, Serialized)
    {
        Name (BUF0, Buffer() {0x1, 0x2, 0x3, 0x4, 0x5})
        Store(0x55, Index(BUF0, 2))
        Store(DerefOf(Index(BUF0, 2)), Local0)
        If (LEqual(Local0, 0x55))
        {
            Return(0)
        }
        Else
        {
            Return(0x2)
        }


    }

    Method(TST3,, Serialized)
    {
        Name (BUF1, Buffer() {0x1, 0x2, 0x3, 0x4, 0x5})
        Store(Index(BUF1, 1), Local0)
        Store(DerefOf(Local0), Local1)
        If (LEqual(Local1, 0x2))
        {
            Return(0)
        }
        Else
        {
            Return(0x3)
        }

    }

    Method(TST4)
    {
        // Index (PKG4, 0) is a Number
        Store (Index (PKG4, 0), Local0)
        Store (ObjectType(Local0), Local1)
        If (LEqual(Local1, 0x1))
        {
            Return(0)

}
        Else
        {
            Return(0x4)
```

```
        }

    }

    Method(TST5)
    {
        // Index (PKG4, 1) is a String
        Store (Index (PKG4, 1), Local0)
        Store (ObjectType(Local0), Local1)
        If (LEqual(Local1, 0x2))
        {
            Return(0)
        }
        Else
        {
            Return(0x5)
        }

    }

    Method(TST6)
    {
        // Index (PKG4, 2) is a Buffer
        Store (Index (PKG4, 2), Local0)
        Store (ObjectType(Local0), Local1)
        If (LEqual(Local1, 0x3))
        {
            Return(0)
        }
        Else
        {
            Return(0x6)
        }

    }

    Method(TST7)
    {
        // Index (PKG4, 3) is a Number
        Store (Index (PKG4, 3), Local0)
        Store (ObjectType(Local0), Local1)
        If (LEqual(Local1, 0x1))
        {

Return(0)
        }
        Else
        {
```

```
        Return(0x7)
    }

}

Method(TST8)
{
    // Index (PKG4, 4) is a Package
    Store (Index (PKG4, 4), Local0)
    Store (ObjectType(Local0), Local1)
    If (LEqual(Local1, 0x4))
    {
        Return(0)
    }
    Else
    {
        Return(0x8)
    }

}

Method(TST9)
{
    // DerefOf (Index (PKG4, 0)) is a Number
    Store (DerefOf (Index (PKG4, 0)), Local0)
    If (LEqual(Local0, 0x2))
    {
        Return(0)
    }
    Else
    {
        Return(0x9)
    }

}

Method(TSTA)
{
    // DerefOf (Index (PKG4, 1)) is a String
    Store (DerefOf (Index (PKG4, 1)), Local0)
    Store (SizeOf(Local0), Local1)
    If (LEqual(Local1, 0xE))
    {

        Return(0)
    }
    Else
    {
```

```
            Return(0xA)
        }

    }

    Method(TSTB)
    {
        // DerefOf (Index (PKG4, 2)) is a Buffer
        Store (DerefOf (Index (PKG4, 2)), Local0)
        Store (SizeOf(Local0), Local1)
        If (LEqual(Local1, 0x4))
        {
            Return(0)
        }
        Else
        {
            Return(0xB)
        }

    }

    Method(TSTC)
    {
        // DerefOf (Index (PKG4, 3)) is a Number
        Store (DerefOf (Index (PKG4, 3)), Local0)
        If (LEqual(Local0, 0x1234))
        {
            Return(0)
        }
        Else
        {
            Return(0xC)
        }

    }

    Method(TSTD)
    {
        // DerefOf (Index (PKG4, 4)) is a Package
        Store (DerefOf (Index (PKG4, 4)), Local0)
        Store (SizeOf(Local0), Local1)
        If (LEqual(Local1,
0x2))
        {
            Return(0)
        }
        Else
        {
```

```
            Return(0xD)
        }

    }

    Method(TSTE)
    {
        // DerefOf (Index (PKG4, 2)) is a Buffer
        Store (DerefOf (Index (PKG4, 2)), Local0)
        // DerefOf (Index (Local0, 1)) is a Number
        Store (DerefOf (Index (Local0, 1)), Local1)
        If (LEqual(Local1, 0xB))
        {
            Return(0)
        }
        Else
        {
            Return(0xE)
        }

    }

    Method (TSTF,, Serialized)
    {
        Name (SRCB, Buffer (12) {}) //  12 characters
        Store ("Short Buffer", SRCB)

        Name (DEST, Buffer ()                   //  62 characters plus NULL
            {"Destination buffer that is longer than the short source buffer"})

        //  overwrite DEST contents, starting at buffer position 2
        Store (SRCB, Index (DEST,
2))

        //
        //  The DEST buffer element should be replaced with the last element of
        //      the SRCB element (i.e. 's'->'r')
        Store (DerefOf (Index (DEST, 2)), Local0)

        If (LNotEqual (Local0, 0x72))       //  'r'
        {
            //  DEST element does not match the value from SRCB
            Return(Or(Local0, 0x1000))
        }

        Return(0)
    }
```

```
    Method (TSTG,, Serialized)
    {

        Name (SRCB, Buffer (12) {}) //  12 characters
        Store ("Short Buffer", SRCB)

        Name (DEST, Buffer ()                   //  62 characters plus NULL
            {"Destination buffer that is longer than the short source buffer"})

        //  overwrite DEST contents, starting at buffer position 2
        Store (SRCB, Index (DEST, 2))

        //
        // The next element of DEST should be unchanged
        //
        Store (DerefOf (Index (DEST,
3)), Local0)

        If (LNotEqual (Local0, 0x74))       //  't'
        {
            //  DEST has been changed
            Return(Or(Local0, 0x2000))
        }

        //
        // The next element of DEST should be unchanged
        //
        Store (DerefOf (Index (DEST, 4)), Local0)

        If (LNotEqual (Local0, 0x69))       //  'i'
        {
            //  DEST has been changed
            Return(Or(Local0, 0x2100))
        }

        //
        // The next element of DEST should be unchanged
        //
        Store (DerefOf (Index (DEST, 5)), Local0)

        If (LNotEqual (Local0, 0x6E))       //  'n'
        {
            //  DEST has been changed
            Return(Or(Local0, 0x2200))
        }

        //
        // The next element of DEST should be unchanged
```

```
        //
        Store (DerefOf (Index (DEST, 6)), Local0)

        If (LNotEqual (Local0, 0x61))
    //  'a'
        {
           //  DEST has been changed
           Return(Or(Local0, 0x2300))
        }

        //
        // The next element of DEST should be unchanged
        //
        Store (DerefOf (Index (DEST, 7)), Local0)

        If (LNotEqual (Local0, 0x74))       //  't'
        {
           //  DEST has been changed
           Return(Or(Local0, 0x2400))
        }

        //
        //  Verify DEST elements beyond end of SRCB buffer copy
        //  have not been changed
        Store (DerefOf (Index (DEST, 14)), Local0)

        If (LNotEqual (Local0, 0x66))       // 'f'
        {
           //  DEST has been changed
           Return(Or(Local0, 0x2400))
        }

        Return(0)
    }

    //
    // This test shows that MS ACPI.SYS stores only the lower 8-bits of a 32-bit
    //  number into the index'ed buffer
    //
    Method (TSTH,,
Serialized)
    {
        // Create a Destination Buffer
        Name (DBUF, Buffer () {"abcdefghijklmnopqrstuvwxyz"})

        // Store a number > UINT8 into an index of the buffer
        Store (0x12345678, Index(DBUF, 2))
```

```
        // Check the results
        Store (DerefOf (Index (DBUF, 2)), Local0)
        If (LNotEqual (Local0, 0x78))   // 0x78
        {
            Return(Or(Local0, 0x3000))
        }

        Store (DerefOf (Index (DBUF, 3)), Local0)
        If (LNotEqual (Local0, 0x64))   // 'd'
        {
            Return(Or(Local0, 0x3100))
        }

        Store (DerefOf (Index (DBUF, 4)), Local0)
        If (LNotEqual (Local0, 0x65))   // 'e'
        {
            Return(Or(Local0, 0x3200))
        }

        Store (DerefOf (Index (DBUF, 5)), Local0)
        If (LNotEqual (Local0, 0x66))   // 'f'
        {
            Return(Or(Local0, 0x3300))
        }


    Return(0)
    }

    Method (TSTI,, Serialized)
    {
        // Create a Destination Buffer
        Name (DBUF, Buffer () {"abcdefghijklmnopqrstuvwxyz"})

        // Store a String into an index of the buffer
        Store ("ABCDEFGH", Index(DBUF, 2))

        // Check the results
        Store (DerefOf (Index (DBUF, 2)), Local0)
        If (LNotEqual (Local0, 0x48))   // 'H'
        {
            Return(Or(Local0, 0x4000))
        }

        Store (DerefOf (Index (DBUF, 3)), Local0)
        If (LNotEqual (Local0, 0x64))   // 'd'
        {
            Return(Or(Local0, 0x4100))
```

```
        }

        Store (DerefOf (Index (DBUF, 4)), Local0)
        If (LNotEqual (Local0, 0x65))   // 'e'
        {
            Return(Or(Local0, 0x4200))
        }

        Store (DerefOf (Index (DBUF, 5)), Local0)
        If (LNotEqual (Local0, 0x66))   // 'f'
        {
            Return(Or(Local0,
0x4300))
        }

        Return(0)
    }

    Method(TSTJ,, Serialized)
    {
        // Create a Destination Buffer
        Name (DBUF, Buffer () {"abcdefghijklmnopqrstuvwxyz"})

        // Store a number > UINT8 into an index of the buffer
        Store (0x1234, Index(DBUF, 2))

        // Check the results
        Store (DerefOf (Index (DBUF, 2)), Local0)
        If (LNotEqual (Local0, 0x34))   // 0x34
        {
            Return(Or(Local0, 0x3000))
        }

        Store (DerefOf (Index (DBUF, 3)), Local0)
        If (LNotEqual (Local0, 0x64))   // 'd'
        {
            Return(Or(Local0, 0x3100))
        }

        Store (DerefOf (Index (DBUF, 4)), Local0)
        If (LNotEqual (Local0, 0x65))   // 'e'
        {
            Return(Or(Local0, 0x3200))
        }

        Store (DerefOf (Index (DBUF, 5)), Local0)
        If (LNotEqual (Local0, 0x66))   // 'f'
```

```
  {
        Return(Or(Local0, 0x3300))
      }

      Return(0)
    }

    Method(TSTK,, Serialized)
    {
      // Create a Destination Buffer
      Name (DBUF, Buffer () {"abcdefghijklmnopqrstuvwxyz"})

      // Store a number > UINT8 into an index of the buffer
      Store (0x123456, Index(DBUF, 2))

      // Check the results
      Store (DerefOf (Index (DBUF, 2)), Local0)
      If (LNotEqual (Local0, 0x56))   // 0x56
      {
        Return(Or(Local0, 0x3000))
      }

      Store (DerefOf (Index (DBUF, 3)), Local0)
      If (LNotEqual (Local0, 0x64))   // 'd'
      {
        Return(Or(Local0, 0x3100))
      }

      Store (DerefOf (Index (DBUF, 4)), Local0)
      If (LNotEqual (Local0, 0x65))   // 'e'
      {
        Return(Or(Local0, 0x3200))
      }

      Store (DerefOf (Index (DBUF, 5)), Local0)
      If (LNotEqual
(Local0, 0x66))   // 'f'
      {
        Return(Or(Local0, 0x3300))
      }

      Return(0)
    }

    Method(TSTL,, Serialized)
    {
      // Create a Destination Buffer
      Name (DBUF, Buffer () {"abcdefghijklmnopqrstuvwxyz"})
```

```
        // Store a number > UINT8 into an index of the buffer
        Store (0x12, Index(DBUF, 2))

        // Check the results
        Store (DerefOf (Index (DBUF, 2)), Local0)
        If (LNotEqual (Local0, 0x12))   // 0x12
        {
            Return(Or(Local0, 0x3000))
        }

        Store (DerefOf (Index (DBUF, 3)), Local0)
        If (LNotEqual (Local0, 0x64))   // 'd'
        {
            Return(Or(Local0, 0x3100))
        }

        Store (DerefOf (Index (DBUF, 4)), Local0)
        If (LNotEqual (Local0, 0x65))   // 'e'
        {
            Return(Or(Local0, 0x3200))
        }

        Store (DerefOf (Index (DBUF,
5)), Local0)
        If (LNotEqual (Local0, 0x66))   // 'f'
        {
            Return(Or(Local0, 0x3300))
        }

        Return(0)
    }

    Method(TEST)
    {
        Store ("++++++++ IndexOp7 Test", Debug)

        Store(TST1(), Local0)
        if (LGreater (Local0, 0))
        {
            Return(Local0)
        }

        Store(TST2(), Local0)
        if (LGreater (Local0, 0))
        {
            Return(Local0)
        }
```

```
        Store(TST3(), Local0)
        if (LGreater (Local0, 0))
        {
            Return(Local0)
        }

        Store(TST4(), Local0)
        if (LGreater (Local0, 0))
        {
            Return(Local0)
        }

        Store(TST5(), Local0)
        if (LGreater (Local0, 0))
        {
            Return(Local0)
        }

        Store(TST6(), Local0)
        if (LGreater (Local0, 0))

    {
            Return(Local0)
        }

        Store(TST7(), Local0)
        if (LGreater (Local0, 0))
        {
            Return(Local0)
        }

        Store(TST8(), Local0)
        if (LGreater (Local0, 0))
        {
            Return(Local0)
        }

        Store(TST9(), Local0)
        if (LGreater (Local0, 0))
        {
            Return(Local0)
        }

        Store(TSTA(), Local0)
        if (LGreater (Local0, 0))
        {
            Return(Local0)
```

```
        }

        Store(TSTB(), Local0)
        if (LGreater (Local0, 0))
        {
           Return(Local0)
        }

        Store(TSTC(), Local0)
        if (LGreater (Local0, 0))
        {
           Return(Local0)
        }

        Store(TSTD(), Local0)
        if (LGreater (Local0, 0))
        {
           Return(Local0)
        }

        Store(TSTE(),
Local0)
        if (LGreater (Local0, 0))
        {
           Return(Local0)
        }

  /* No longer ACPI compliant */
  /*
        Store(TSTF(), Local0)
        if (LGreater (Local0, 0))
        {
           Return(Local0)
        }
  */

        Store(TSTG(), Local0)
        if (LGreater (Local0, 0))
        {
           Return(Local0)
        }

        Store(TSTH(), Local0)
        if (LGreater (Local0, 0))
        {
           Return(Local0)
        }
```

```
  /* No longer ACPI compliant */
  /*
        Store(TSTI(), Local0)
        if (LGreater (Local0, 0))
        {
           Return(Local0)
        }
  */
        Store(TSTJ(), Local0)
        if (LGreater (Local0, 0))
        {
           Return(Local0)
        }

        Store(TSTK(), Local0)
        if (LGreater (Local0, 0))
        {
           Return(Local0)
        }


      Store(TSTL(), Local0)
        if (LGreater (Local0, 0))
        {
           Return(Local0)
        }

        Return(Local0)

      }

  } // Device(IDX7)

//
// test MatchOp.asl
//
//  MatchOp test cases that utilize nested DerefOf(Index(...)) to validate
//  MatchOp, DerefOfOp, and IndexOp of nested packages.
//
  Device (MTCH)
  {

     Method (TEST,, Serialized)
     {
        Store ("++++++++ MatchOp Test", Debug)

        Name (TIM0, Package ()
           {
```

```
            Package ()  {0x78, 0xB4, 0xF0, 0x0384},
            Package ()  {0x23, 0x21, 0x10, 0},
            Package ()  {0x0B, 9, 4, 0},
            Package ()  {0x70, 0x49, 0x36, 0x27, 0x19},
            Package ()  {0, 1, 2, 1, 2},
            Package ()  {0, 0, 0, 1, 1},
            Package ()  {4, 3, 2, 0},
            Package ()  {2, 1, 0, 0}
          })  //  TIM0

        Name (TMD0, Buffer
(20) {0xFF, 0xFF, 0xFF, 0xFF })
        CreateDWordField (TMD0, 0, PIO0)    //  0xFFFFFFFF
        CreateDWordField (TMD0, 4, DMA0)
        CreateDWordField (TMD0, 8, PIO1)
        CreateDWordField (TMD0, 12, DMA1)
        CreateDWordField (TMD0, 16, CHNF)


        //  validate PIO0 value
        Store (PIO0, Local3)

        //  save Local3 object type value into Local2
        Store (ObjectType (Local3), Local2)

        //  validate Local3 is a Number
        If (LNotEqual (Local2, 1))  //  Number type is 1
          {   Return (2)  }   //  failure

        //  validate Local3 Number value
        If (LNotEqual (Local3, 0xFFFFFFFF)) //  Number value 0xFFFFFFFF
          {   Return (3)  }   //  failure

        Store ("DWordField PASS", Debug)


        Store (0, Local5)
        Store (Match (DerefOf (Index (TIM0, 1, )), MLE, Local5, MTR, 0, 0), Local6)

        //  save Local6 object type value into Local2
         Store (ObjectType (Local6), Local2)

        //  validate Local6 is a Number
        If (LNotEqual (Local2, 1))  //  Number type is 1
          {   Return (4)  }   //  failure

        Store ("Match(DerefOf(Index(TIM0,1)),... PASS", Debug)
```

```
    //  validate following produces a nested package to validate
    //  that MatchOp did not corrupt SearchPackage (TIM0)
    Store (DerefOf (Index (TIM0, 1, )), Local4)

    //  save Local4 object type value into Local2
    Store (ObjectType (Local4), Local2)

    //  validate Local4 is a Package
    If (LNotEqual (Local2, 4))  //  Package type is 4
       {   Return (5)  }   //  failure

    Store ("DerefOf(Index(TIM0,1)),... PASS", Debug)


    And (Match (DerefOf (Index (TIM0, 0, )), MGE, PIO0, MTR, 0, 0), 3, Local0)

    //  save Local0 object type value into Local2
    Store (ObjectType (Local0), Local2)


  //  validate Local0 is a Number
    If (LNotEqual (Local2, 1))  //  Number type is 1
       {   Return (6)  }   //  failure

    //  validate Local0 Number value
    If (LNotEqual (Local0, 3))  //  Number value 3
       {   Return (7)  }   //  failure

    Store ("And(Match(DerefOf(Index(TIM0,0)),... PASS", Debug)


    //  again, validate following produces a nested package
    Store (DerefOf (Index (TIM0, 1, )), Local4)

    //  save Local4 object type value into Local2
    Store (ObjectType (Local4), Local2)

    //  validate Local4 is a Package
    If (LNotEqual (Local2, 4))  //  Package type is 4
       {   Return (8)  }   //  failure

    Store ("DerefOf(Index(TIM0,1)),... PASS again", Debug)


    //  again, validate following produces a nested package
    Store (DerefOf (Index (TIM0, 1, )), Local4)
```

```
        //  save Local4 object type value
into Local2
        Store (ObjectType (Local4), Local2)

        //  validate Local4 is a Package
        If (LNotEqual (Local2, 4))  //  Package type is 4
           {   Return (9)  }   //  failure

        Store ("DerefOf(Index(TIM0,1)),... PASS again", Debug)


        //  test nested DerefOf(Index) operators
        Store (DerefOf (Index (DerefOf (Index (TIM0, 1, )), Local0, )), Local1)

        //  save Local1 object type value into Local2
        Store (ObjectType (Local1), Local2)

        //  validate Local1 is a Number
        If (LNotEqual (Local2, 1))  //  Number type is 1
           {   Return (10) }   //  failure

        //  zero indicates pass, non-zero is an error code
        If (LNotEqual (Local1, 0))
           {   Return (11) }   //  failure

        Store ("DerefOf(Index(DerefOf(Index(TIM0,1)),... PASS", Debug)


        //  again, validate following produces a nested package
        Store
(DerefOf (Index (TIM0, 1, )), Local4)

        //  save Local4 object type value into Local2
        Store (ObjectType (Local4), Local2)

        //  validate Local4 is a Package
        If (LNotEqual (Local2, 4))  //  Package type is 4
           {   Return (12) }   //  failure

        Store ("DerefOf(Index(TIM0,1)),... PASS again", Debug)


        //  retest nested DerefOf(Index) operators
        Store (DerefOf (Index (DerefOf (Index (TIM0, 1, )), Local0, )), Local1)

        //  save Local1 object type value into Local2
        Store (ObjectType (Local1), Local2)
```

```
        //  validate Local1 is a Number
        If (LNotEqual (Local2, 1))  //  Number type is 1
           {   Return (13) }   //  failure

        //  zero indicates pass, non-zero is an error code
        If (LNotEqual (Local1, 0))
           {   Return (14) }   //  failure

        Store ("DerefOf(Index(DerefOf(Index(TIM0,1)),... PASS again", Debug)


         //  again, validate following produces a nested package
        Store (DerefOf (Index (TIM0, 1, )), Local4)

        //  save Local4 object type value into Local2
        Store (ObjectType (Local4), Local2)

        //  validate Local4 is a Package
        If (LNotEqual (Local2, 4))  //  Package type is 4
           {   Return (15) }   //  failure

        Store ("DerefOf(Index(TIM0,1)),... PASS again", Debug)


        Return (0)  //  pass
     }   //  TEST
  }   // MTCH

//
// test WhileBrk.asl
//
//  This code tests the Break term and While term
//
//  Syntax of Break term
//     BreakTerm := Break
//  The break operation causes the current package execution to complete.
//
//  Syntax of While Term
//     WhileTerm   := While(
//        Predicate   //TermArg=>Integer
//     ) {TermList}
//  Predicate is evaluated as an integer.
//  If the integer is non-zero, the list of terms in TermList is executed.
//  The operation repeats
 until the Predicate evaluates to zero.
//
// MTL NOTE: This test has been modified to reflect ACPI 2.0 break
// NOTE: This test, when run under the MS ACPI.SYS grinds the system to
```

```
// a halt.
//
  Device (WHLB)
  {
    Name (CNT0, 0)
    Name (CNT1, 0)

    Method (TEST)
    {
      // Check Break statement nested in If nested in While nested in
      // While only exits inner-most While loop
      Store (0, CNT0)

      While (LLess (CNT0, 4))
      {
        Store (0, CNT1)
        While (LLess (CNT1, 10))
        {
          if (LEqual (CNT1, 1))
          {
            Break       // exit encompassing loop
          }

          Increment (CNT1)
        }

        If (LNotEqual (CNT1, 1))
        {
          // failure
          Return (7)
        }

        Increment (CNT0)

}

      // Verify Break only exited inner-most While loop

      If (LNotEqual (CNT0, 4))
      {
        // failure
        Return (8)
      }

      Store ("While/While/If/Break PASS", Debug)

      Store ("++++++++ WhileBrk Test", Debug)
```

```
// Check Break statement nested in While
Store (0, CNT0)

While (LLess (CNT0, 10))
{
   Break      // exit encompassing package
   Increment (CNT0)
}

If (LNotEqual (CNT0, 0))    // instruction after Break executed
{
   Return (4)
}


Store (0, CNT0)

// Test While Term
While (LLess (CNT0, 10))
{
   Increment (CNT0)
}

// Check if the while loop was executed until the condition is satisfied.
If (LNotEqual (CNT0, 10))
{
   Return (1)

}


// While loop in a reverse order
While (LGreater (CNT0, 0))
{
   Decrement (CNT0)
}

// Check if the while loop was executed until the condition is satisfied.
If (LNotEqual (CNT0, 0))
{
   Return (2)
}


Store ("While/Break PASS", Debug)


// Check Break statement nested in If nested in While
```

```
        Store (0, CNT0)

        While (LLess (CNT0, 10))
        {
           if (LEqual (CNT0, 5))
           {
              Break       //  exit encompassing Package (If)

              //  if we execute the next instruction,
              //  Break did not exit the loop
              Store (20, CNT0)    //  exit While loop with value larger
                                  //  than above
           }

           Increment (CNT0)    //  check if Break exited both If and
While
        }   //  While

        If (LGreater (CNT0, 19))
        {   //  instruction after Break inside IfOp executed
           Return (5)
        }

        //
        // Break will exit out of the while loop, therefore
        //  the CNT0 counter should still Increment until 5
        //
        If (LNotEqual (CNT0, 5))
        {   //  instruction after Break inside WhileOp executed
           Return (6)
        }
        Store ("While/If/Break PASS", Debug)


        //  All the conditions passed
        Return (0)
     }   //  TEST
  }   //  WHLB


//
// test IndexOp2.asl
//
//  Additional IndexOp test cases to support ACPICMB (control method battery
//  test) on Toshiba Portege 7020CT. Test cases include appropriate bit
//  shifting of Field elements and reading Field elements greater than 64 bits.
//
// MTL NOTE: This test has been modified slightly from the original test
```

```
// to take into account ACPI
 specification limitations.
//
  Scope (\_SB)    // System Bus
  {   // _SB system bus

    Device (MEM)
    {   // MEM
      Name (_HID, 0x010CD041)
      Name (_STA, 0x0F)

      OperationRegion (SMEM, SystemMemory, 0x800000, 0x100)
      Field (SMEM, AnyAcc, NoLock, Preserve)
      {   // Field: SMEM overlay using 32-bit field elements
        SMD0,   32, //  32-bits
        SMD1,   32,     //  32-bits
        SMD2,   32,     //  32-bits
        SMD3,   32  //  32-bits
      }   // Field: SMEM overlay using 32-bit field elements
      Field (SMEM, AnyAcc, NoLock, Preserve)
      {   // Field: SMEM overlay using greater than 32-bit field elements
        SME0,   69, //  larger than an integer (32 or 64)
        SME1,   97  //  larger than an integer
      }   // Field: SMEM overlay using greater than 32-bit field elements

      OperationRegion (SRAM, SystemMemory,
0x100B0000, 0xF000)
      Field (SRAM, AnyAcc, NoLock, Preserve)
      {   // Field: SRAM overlay
          ,   0x34000,    // skip
        IEAX,   0x20,
        IEBX,   0x20,
        IECX,   0x20,
        IEDX,   0x20,
        IESI,   0x20,
        IEDI,   0x20,
        IEBP,   0x20,
          ,   0x20,
        OEAX,   0x20,
        OEBX,   0x20,
        OECX,   0x20,
        OEDX,   0x20,
        OESI,   0x20,
        OEDI,   0x20,
        OEBP,   0x20,
          ,   0x618,  //  skip
        ACST,   1,
        BES1,   1,
```

```
    BES2,   1,
      ,  5,        // skip
    BMN1,   0x68,
    BSN1,   0x58,
    BTP1,   0x48,
    BPU1,   0x20,
    BDC1,   0x20,
    BLF1,   0x20,
    BTC1,   0x20,

  BDV1,   0x20,
    BST1,   0x20,
    BPR1,   0x20,
    BRC1,   0x20,
    BPV1,   0x20,
      ,  0x20,
    BCW1,   0x20,
    BCL1,   0x20,
    BG11,   0x20,
    BG21,   0x20,
    BOI1,   0x20,
      ,  0x530,  // skip
    BMN2,   0x68,
    BSN2,   0x58,
    BTP2,   0x48,
    BPU2,   0x20,
    BDC2,   0x20,
    BLF2,   0x20,
    BTC2,   0x20,
    BDV2,   0x20,
    BST2,   0x20,
    BPR2,   0x20,
    BRC2,   0x20,
    BPV2,   0x20,
      ,  0x20,
    BCW2,   0x20,
    BCL2,   0x20,
    BG12,   0x20,
    BG22,   0x20,
    BOI2,   0x20,
      ,  0x518,  // skip
    AC01,   0x10,
    AC11,
0x10,
    PSV1,   0x10,
    CRT1,   0x10,
    TMP1,   0x10,
    AST1,   0x10,
```

```
AC21,   0x10,
AC31,   0x10,
AC02,   0x10,
AC12,   0x10,
PSV2,   0x10,
CRT2,   0x10,
TMP2,   0x10,
AST2,   0x10,
AC22,   0x10,
AC32,   0x10,
AC03,   0x10,
AC13,   0x10,
PSV3,   0x10,
CRT3,   0x10,
TMP3,   0x10,
AST3,   0x10,
AC23,   0x10,
AC33,   0x10,
   ,   0x80,       //  skip
TMPF,   0x10,
   ,   0x570,  //  skip
FANH,   1,
FANL,   7,
TF11,   1,
TF21,   1,
TF31,   1,
   ,   1,
TF10,   1,
TF20,   1,
 TF30,   1,
   ,   1,
TP11,   1,
TP21,   1,
TP31,   1,
   ,   0x6D,   //  109
GP50,   1,
GP51,   1,
GP52,   1,
GP53,   1,
   ,   4,
GP60,   1,
GP61,   1,
GP62,   1,
GP63,   1,
GP64,   1,
GP65,   1,
GP66,   1,
   ,   1,
```

```
            GP70,   1,
            GP71,   1,
            GP72,   1,
            GP73,   1,
            GP74,   1,
            GP75,   1,
            GP76,   1,
              ,   1,
            WED0,   1,
            WED1,   1,
            WED2,   1,
            WED3,   1,
            WED4,   1,
              ,   3,
            SBL0,   1,
            SBL1,   1,
            SBL2,   1,

SBL3,   1,
              ,   4,
            LIDS,   1,
            VALF,   1,
              ,   2,
            DCKI,   1,
            DCKF,   1,
            BT1F,   1,
            BT2F,   1,
              ,   0x7D0,  //  skip
            HKCD,   8,
              ,   8,
            DLID,   0x20,
            DSRN,   0x20,
              ,   0x20,
            BDID,   0x20,
            DSPW,   1,
            VGAF,   1,
            VWE0,   1,
            VWE1,   1,
            PPSC,   1,
            SPSC,   1,
            EWLD,   1,
            EWPS,   1,
              ,   0x1768, //  skip
            PRES,   0x8000
          }   //  Field:  SRAM overlay
        }   //  MEM

        Device (BAT1)
```

```
    {   // BAT1
        Name (_HID, EISAID ("PNP0C0A"))     // Control Method Battey ID
        Name (_UID, 1)
        Name (_PCL, Package (1) {\_SB})

        Method
(_STA)
        {   // _STA
            If (\_SB.MEM.BES1)
                {   Return (0x1F)   }   // battery present
            Else
                {   Return (0x0F)   }   // battery not present
        }   // _STA

        Method (_BIF,, Serialized)
        {   // _BIF
            Name (BUFR, Package (13)    {})

            Store (\_SB.MEM.BPU1, Index (BUFR, 0))
            Store (\_SB.MEM.BDC1, Index (BUFR, 1))
            Store (\_SB.MEM.BLF1, Index (BUFR, 2))
            Store (\_SB.MEM.BTC1, Index (BUFR, 3))
            Store (\_SB.MEM.BDV1, Index (BUFR, 4))
            Store (\_SB.MEM.BCW1, Index (BUFR, 5))
            Store (\_SB.MEM.BCL1, Index (BUFR, 6))
            Store (\_SB.MEM.BG11, Index (BUFR, 7))
            Store (\_SB.MEM.BG21, Index (BUFR, 8))
            Store (\_SB.MEM.BMN1, Index (BUFR, 9))
            Store (\_SB.MEM.BSN1, Index (BUFR, 10))
            Store (\_SB.MEM.BTP1,
Index (BUFR, 11))
            Store (\_SB.MEM.BOI1, Index (BUFR, 12))

            Return (BUFR)
        }   // _BIF
    }   // BAT1

    Device (IDX2)
    {
        Method (B2IB,, Serialized)
        {   // B2IB:   store from Buffer into Index'ed Buffer

            Name (SRCB, Buffer ()   {"Short Buffer"})   // 12 characters plus NULL

            Name (DEST, Buffer ()                       // 62 characters plus NULL
                {"Destination buffer that is longer than the short source buffer"})
```

```
            //  verify object type returned by Index(Buffer,Element,)

            Store (Index (DEST, 2, ), Local1)
            Store (ObjectType (Local1), Local2)

            If (LNotEqual (Local2, 14))     //  Buffer Field is type 14
            {
               //  Local2 indicates Local1 is not a Buffer Field

               Return (0x61)
            }

            //  verify object type
and value returned by DerefOf(Index(Buffer,Element,))
            //  should return Number containing element value

            Store (DerefOf (Local1), Local3)
            Store (ObjectType (Local3), Local4)

            If (LNotEqual (Local4, 1))          //  Number is type 1
            {
               //  Local2 indicates Local1 is not a Number
               Return (0x62)
            }
            Else
            {
               If (LNotEqual (Local3, 0x73))       //  expect 's' element from DEST
               {
                  Return (0x63)
               }
            }

            Store ("DerefOf(Index(Buffer,,)) PASS", Debug)



            //
            // The following sections have been rewritten because storing into
            // an Indexed buffer only changes one byte - the FIRST byte of the
            // buffer is written to the source index. This is the ONLY byte

         // written -- as per ACPI 2.0
            //
            // Overwrite DEST contents, at buffer position 2 [only]

            Store (SRCB, Index (DEST, 2, ))

            //
            // Check that the next byte is not changed
```

```
        //
        Store (DerefOf (Index (DEST, 3, )), Local0)
        If (LNotEqual (Local0, 0x74))       //  't'
        {
           //  DEST element is not matching original value
           If (LEqual (Local0, 0x68))
           {
              //  DEST element was altered to 'h'
              Return (0x68)
           }
           Else
           {
              // DEST element is an unknown value
              Return (0x69)
           }
        }

        //
        // Check that the elements beyond the SRCB buffer copy
        //  have not been altered.

//
        Store (DerefOf (Index (DEST, 14)), Local0)

        //
        // This should be an 'f'.
        //
        If (LNotEqual (Local0, 0x66))
        {
           //  DEST element was zero'd by buffer copy
           If (LEqual (Local0, 0))
           {
              //  DEST element is zero
              Return (0x6A)
           }
           Else
           {
              //  DEST element is unknown value
              Return (0x6B)
           }
        }

        Store ("Store(SRCB,Index(Buffer,,)) PASS", Debug)

        //
        //  verify altering SRCB does NOT alter DEST
        //
        Store (0x6A, Index (SRCB, 1))   //  SRCB = "Sjort Buffer"
```

```
        Store (DerefOf (Index (SRCB, 1)), Local0)

        If (LNotEqual (Local0, 0x6A))       //  'j'

    {
        //  SRCB element is unaltered
        Return (0x71)
      }

      Store (DerefOf (Index (DEST, 3)), Local0) // DEST = "Destination buffer that...

      If (LNotEqual (Local0, 0x74))       //  't'
      {
        //  DEST element is altered
        If (LEqual (Local0, 0x6A))  //  'j'
        {
          //  SRCB change altered DEST element
          Return (0x72)
        }
        Else
        {
          //  DEST element is unknown value
          Return (0x73)
        }
      }

      //  verify altering DEST does NOT alter SRCB

      Store (0x6B, Index (DEST, 4, )) //  DEST = "DeSkination buffer..."

      Store (DerefOf (Index (DEST, 4, )), Local0)

      If (LNotEqual (Local0, 0x6B))       //  'k'

{
        //  DEST element is unaltered
        Return (0x74)
      }

      Store (DerefOf (Index (SRCB, 2, )), Local0)

      If (LNotEqual (Local0, 0x6F))       //  'o'
      {   //  SRC element is altered
        If (LEqual (Local0, 0x6B))  //  'k'
        {
          //  DEST change altered SRCB element
          Return (0x75)
```

```
        }
        Else
        {
            //  SRCB element is unknown value
            Return (0x76)
        }
    }

    Store ("SRCB and DEST independent PASS", Debug)


    // verify string can be written to Index target/destination
    // Only FIRST byte is written

    Store ("New Buff", Index (DEST, 2, ))   //  DEST = "DeNkination buffer..."

    Store (DerefOf (Index (DEST, 2, )), Local0)

     If (LNotEqual (Local0, 0x4E))       //  'N'
    {
        //  DEST element is unaltered
        Return (0x81)
    }

    Store (DerefOf (Index (DEST, 6, )), Local0)

    If (LNotEqual (Local0, 0x61))       //  'a'
    {
        //  DEST element is unaltered
        Return (0x82)
    }

    Store (DerefOf (Index (DEST, 10, )), Local0)

    If (LNotEqual (Local0, 0x6E))       //  'n'
    {
        //  DEST element is unaltered
        Return (0x83)
    }

    Store ("Store(String,Index) PASS", Debug)


    Return (0)  //  pass
}   //  B2IB:   store from Buffer into Index'ed Buffer

Method (FB2P,, Serialized)
{   //  FB2P:   store from Field Buffer into Index'ed Package
```

```
        Name (DEST, Package (2) {})


    //  initialize memory using 32-bit field elements
        Store (0x01234567, \_SB.MEM.SMD0)
        Store (0x89ABCDEF, \_SB.MEM.SMD1)
        Store (0xFEDCBA98, \_SB.MEM.SMD2)
        Store (0x76543210, \_SB.MEM.SMD3)

        //  move greater than 64-bit buffers into DEST package
        Store (\_SB.MEM.SME0, Index (DEST, 0))
        Store (\_SB.MEM.SME1, Index (DEST, 1))

        //  validate DEST contents
        Store (DerefOf (Index (DEST, 0, )), Local0)
        Store (DerefOf (Index (DEST, 1, )), Local1)

        //  verify Local0 and Local1 are Buffers
        Store (ObjectType (Local0), Local2)
        if (LNotEqual (Local2, 3))  //  Buffer type is 3
        {
           Return (0x11)
        }

        Store (ObjectType (Local1), Local3)
        if (LNotEqual (Local3, 3))  //  Buffer type is 3
        {

Return (0x12)
        }

        //  validate DEST buffer contents
        Store (DerefOf (Index (DerefOf (Index (DEST, 0)), 0)), Local4)
        If (LNotEqual (Local4, 0x67))
        {
           Return (0x13)
        }

        Store (DerefOf (Index (DerefOf (Index (DEST, 0)), 1)), Local4)
        If (LNotEqual (Local4, 0x45))
        {
           Return (0x14)
        }

        Store (DerefOf (Index (DerefOf (Index (DEST, 0)), 4)), Local4)
        If (LNotEqual (Local4, 0xEF))
        {
           Return (0x15)
```

```
        }

        Store (DerefOf (Index (DerefOf (Index (DEST, 0, )), 5, )), Local4)
        If (LNotEqual (Local4, 0xCD))
        {
           Return (0x16)
        }

        Store ("Store(Mem,PkgElement) PASS", Debug)


        //  validate changing source \_SB.MEM.SMD* does
not impact DEST
        Store (0x12345678, \_SB.MEM.SMD0)

        Store (DerefOf (Index (DerefOf (Index (DEST, 0, )), 0, )), Local5)
        If (LNotEqual (Local5, 0x67))
        {
           Return (0x21)
        }

        Store (DerefOf (Index (DerefOf (Index (DEST, 0, )), 1, )), Local5)
        If (LNotEqual (Local5, 0x45))
        {
           Return (0x22)
        }

        //  validate changing DEST does not impact source \_SB.MEM.SMD*
        Store (0x30, Index (DerefOf (Index (DEST, 0)), 0))

        Store (DerefOf(Index (DerefOf (Index (DEST, 0)), 0)), Local5)
        If (LNotEqual (Local5, 0x30))
        {
           Return (0x23)
        }

        //
        // This section was modified from the original iPCO code because
        //  it attempted to compare two buffers. This is not allowed until

      //  ACPI v2.0, so the test has been modified to just check the
        //  changed \_SB.MEM.SMD0
        //
        Store (\_SB.MEM.SMD0, Local5)

        If(LNotEqual(Local5, 0x12345678))
        {
           Return (0x24)
```

```
        }

        Store ("Mem and Pkg independent PASS", Debug)


        Return (0)
    }   //  FB2P:   store from Field Buffer into Index'ed Package

    Method (TEST)
    {
        Store ("++++++++ IndexOp2 Test", Debug)

        //  store _BIF package return value into Local0

        Store (\_SB.BAT1._BIF, Local0)

        //  save Local0 object type value into Local1
        Store (ObjectType (Local0), Local1)

        //  validate Local0 is a Package
        If (LNotEqual (Local1, 4))  //  Package type is 4
        {
            //  failure
            Return (2)

}

        //  validate source and destination buffers are independent of each
        //  of each other (i.e., changing one's contents does not change
        //  other's contents) using B2IB (store from Buffer into Index'ed
        //  Buffer) and FB2P (store from Field Buffer into Index'ed Package)

        //  call B2IB (store from Buffer into Index'ed Buffer)
        Store (B2IB, Local2)    //  Local2 is B2IB return value

        //  save Local2 object type value into Local3
        Store (ObjectType (Local2), Local3)

        //  validate Local2 is a Number
        If (LNotEqual (Local3, 1))  //  Number type is 1
        {
            //  failure
            Return (4)
        }

        //  zero indicates pass, non-zero is an error code
        If (LNotEqual (Local2, 0))
        {
```

```
                // return B2IB error code

            Return (Local2)
                }

                // call FB2P (store from Field Buffer into Index'ed Package)
                Store (FB2P, Local2)    // Local2 is FB2P return value

                // save Local2 object type value into Local3
                Store (ObjectType (Local2), Local3)

                // validate Local2 is a Number
                If (LNotEqual (Local3, 1))  // Number type is 1
                {
                    // failure
                    Return (5)
                }

                // zero indicates pass, non-zero is an error code
                If (LNotEqual (Local2, 0))
                {
                    // return FB2P error code
                    Return (Local2)
                }


                Return (0)
            }   // TEST
        }   // IDX2:   Test device name
    }   // _SB system bus

//
// test SizeOf.asl
//
//  Test for SizeOf
//      test cases include following SizeOf arguments:
//          buffer, buffer
 field;
//          control method argument, control method local variable;
//          control method return values;
//          direct string, string;
//          package;
//          buffer, package, and string package elements
//
// MTL NOTE: This test has been modified to remove any SizeOf(Index(Buff,...
//  calls because it is not legal to perform a SizeOf operation on a Buffer Field.
//  This test has also been extended to test additional Package element sizes.
//
```

```
  Device (SIZO)
  {
     //  SAR0 control method validates SizeOf(Arg)
     //      SAR0 should only be called by SARG
     Method (SAR0, 2)
     //  Arg0    object to determine size of
     //  Arg1    expected Arg length
     {   //  SAR0:   SizeOf(Arg) test control method
        //  Local0  Arg0 length
        //  Local1  Local0 object type

        //  Store first string size (Arg0) into Local7
        Store (SizeOf (Arg0), Local0)

        //  save Local0 object type value
into Local1
        Store (ObjectType (Local0), Local1)

        //  validate Local0 is a Number
        If (LNotEqual (Local1, 1))      //  Number type is 1
           {   Return (0x21)   }

        //  If strings are not of equal size, return error code
        If (LNotEqual (Local0, Arg1))
           {   Return (0x22)   }

        Return (0)
     }   //  SAR0:   SizeOf(Arg) test control method

     Method (SARG,, Serialized)
     {   //  SARG:   SizeOf(Arg) test control method
        Name (BUFR, Buffer (12) {}) //  uninitialized Buffer
        Name (BUF1, Buffer() {0x01, 0x02, 0x03, 0x04, 0x05})
        Name (PKG0, Package (4) {}) //  uninitialized Package
        Name (STR0, "String")
        Name (PKG1, Package (4)
        {
           BUFR,
           "String2",
           STR0,
           PKG0
        })  //  PKG1

        Name (PKG2, Package (4)
        {
           Buffer
(15) {},
           "String 1",
```

```
        Package (2) {}
    }) // PKG2

    // Namespace entry buffer reference
    Store (SAR0 (BUFR, 12), Local0)

    // save Local0 object type value into Local1
    Store (ObjectType (Local0), Local1)

    // validate Local0 is a Number
    If (LNotEqual (Local1, 1))     // Number type is 1
    {
        Return (0x23)
    }

    If (LNotEqual (Local0, 0))     // Local0 is SAR0 return error code
    {
        Return (Local0)
    }

    Store ("SizeOf(Arg=BUFR) PASS", Debug)


    // Namespace entry package reference
    Store (SAR0 (PKG0, 4), Local0)

    // save Local0 object type value into Local1
    Store (ObjectType (Local0), Local1)

    // validate Local0 is a Number
    If (LNotEqual (Local1, 1))     // Number type is 1
    {

Return (0x24)
    }

    If (LNotEqual (Local0, 0))     // Local0 is SAR0 return error code
    {
        Return (Local0)
    }

    Store ("SizeOf(Arg=PKG0) PASS", Debug)


    // Namespace entry string reference
    Store (SAR0 (STR0, 6), Local0)

    // save Local0 object type value into Local1
```

```
        Store (ObjectType (Local0), Local1)

        //  validate Local0 is a Number
        If (LNotEqual (Local1, 1))      //  Number type is 1
        {
           Return (0x25)
        }

        If (LNotEqual (Local0, 0))      //  Local0 is SAR0 return error code
        {
           Return (Local0)
        }

        Store ("SizeOf(Arg=STR0) PASS", Debug)


        //  direct string reference
        Store (SAR0 ("String", 6), Local0)

        //  save Local0 object type value into Local1
        Store (ObjectType (Local0), Local1)

        //  validate
Local0 is a Number
        If (LNotEqual (Local1, 1))      //  Number type is 1
        {
           Return (0x26)
        }

        If (LNotEqual (Local0, 0))      //  Local0 is SAR0 return error code
        {
           Return (Local0)
        }

        Store ("SizeOf(Arg=String) PASS", Debug)

        Store (0x55, Index (BUF1, 2))

        /*****************************************************
        //
        // This section is commented because it is illegal to
        //  perform a SizeOf operation on a Buffer Field
        //
        //  Namespace BufferField reference
        Store (SAR0 (Index (BUFR, 2, ), 10), Local0)

        //  save Local0 object type value into Local1
        Store (ObjectType (Local0), Local1)
```

```
        //  validate Local0 is a Number
        If (LNotEqual (Local1, 1))      //  Number type is 1
           {   Return (0x27)   }

        If (LNotEqual
(Local0, 0))      //  Local0 is SAR0 return error code
           {   Return (Local0) }

        Store ("SizeOf(Arg=BufferField) PASS", Debug)
        ****************************************************/

        //  Namespace BufferPackageElement reference
        //
        Store (SAR0 (Index(PKG1, 0), 12), Local0)

        //  save Local0 object type value into Local1
        Store (ObjectType (Local0), Local1)

        //  validate Local0 is a Number
        If (LNotEqual (Local1, 1))      //  Number type is 1
        {
           Return (0x28)
        }

        If (LNotEqual (Local0, 0))      //  Local0 is SAR0 return error code
        {
           Return (Local0)
        }

        Store ("SizeOf(Arg=PackageBuffer NTE Reference Element) PASS", Debug)


        //  Namespace StringPackageElement reference
        Store (SAR0 (Index (PKG1, 1, ), 7), Local0)

        //  save Local0 object type
value into Local1
        Store (ObjectType (Local0), Local1)

        //  validate Local0 is a Number
        If (LNotEqual (Local1, 1))      //  Number type is 1
        {
           Return (0x29)
        }

        If (LNotEqual (Local0, 0))      //  Local0 is SAR0 return error code
        {
```

```
        Return (Local0)
    }

    Store ("SizeOf(Arg=Package String Element) PASS", Debug)


    // Namespace StringPackageElement reference
    Store (SAR0 (Index (PKG1, 2, ), 6), Local0)

    // save Local0 object type value into Local1
    Store (ObjectType (Local0), Local1)

    // validate Local0 is a Number
    If (LNotEqual (Local1, 1))      // Number type is 1
    {
        Return (0x2A)
    }

    If (LNotEqual (Local0, 0))      // Local0 is SAR0 return error code
    {
        Return (Local0)
    }

    Store ("SizeOf(Arg=Package
String NTE Reference Element) PASS", Debug)


    // Namespace PackagePackageElement reference
    Store (SAR0 (Index (PKG1, 3, ), 4), Local0)

    // save Local0 object type value into Local1
    Store (ObjectType (Local0), Local1)

    // validate Local0 is a Number
    If (LNotEqual (Local1, 1))      // Number type is 1
    {
        Return (0x2B)
    }

    If (LNotEqual (Local0, 0))      // Local0 is SAR0 return error code
    {
        Return (Local0)
    }

    Store ("SizeOf(Arg=Package Package NTE Reference Element) PASS", Debug)

    // Package Buffer Element
    Store (SAR0 (Index (PKG2, 0), 15), Local0)
```

```
    //  save Local0 object type value into Local1
    Store (ObjectType (Local0), Local1)

    //  validate Local0 is a Number
    If (LNotEqual (Local1, 1))      //  Number type is 1

{
       Return (0x2B)
    }

    If (LNotEqual (Local0, 0))      //  Local0 is SAR0 return error code
    {
       Return (Local0)
    }

    Store ("SizeOf(Arg=Package Buffer Element) PASS", Debug)

    // Package String Element
    Store (SAR0 (Index (PKG2, 1), 8), Local0)

    //  save Local0 object type value into Local1
    Store (ObjectType (Local0), Local1)

    //  validate Local0 is a Number
    If (LNotEqual (Local1, 1))      //  Number type is 1
    {
       Return (0x2B)
    }

    If (LNotEqual (Local0, 0))      //  Local0 is SAR0 return error code
    {
       Return (Local0)
    }

    Store ("SizeOf(Arg=Package String Element) PASS", Debug)

    // Package Package Element
    Store (SAR0 (Index (PKG2, 2), 2), Local0)

    //  save Local0 object type value into Local1

  Store (ObjectType (Local0), Local1)

    //  validate Local0 is a Number
    If (LNotEqual (Local1, 1))      //  Number type is 1
    {
       Return (0x2B)
```

```
    }

    If (LNotEqual (Local0, 0))      //  Local0 is SAR0 return error code
    {
      Return (Local0)
    }

    Store ("SizeOf(Arg=Package Package Element) PASS", Debug)

    Store ("SizeOf(Arg) PASS", Debug)

    Return (0)
}   //  SARG:   SizeOf(Arg) test control method

Method (SBUF,, Serialized)
{   //  SBUF:   SizeOf(Buffer) test control method
    Name (BUFR, Buffer (12) {})

    //  store size of BUFR buffer into Local0
    Store (SizeOf (BUFR), Local0)

    //  save Local0 object type value into Local1
    Store (ObjectType (Local0), Local1)

    //  validate Local0 is a Number
    If (LNotEqual (Local1, 1))      //  Number type is 1
     {
      Return (0x31)
    }

    If (LNotEqual (Local0, 12))     //  BUFR size is 12
    {
      Return (0x32)
    }

    Store ("SizeOf(BUFR) PASS", Debug)

    Return (0)
}   //  SBUF:   SizeOf(Buffer) test control method


/*****************************************************
//
// This section is commented because it is illegal to
//  perform a SizeOf operation on a Buffer Field
//
Method (SIND)
{   //  SIND:   SizeOf(Index(,)) test control method
```

```
    Name (BUFR, Buffer (12) {})

    //  store size of Index(BUFR,2,) buffer into Local0
    Store (SizeOf (Index (BUFR, 2, )), Local0)

    //  save Local0 object type value into Local1
    Store (ObjectType (Local0), Local1)

    //  validate Local0 is a Number
    If (LNotEqual (Local1, 1))      //  Number type is 1
    {

  Return (0x41)
    }

    If (LNotEqual (Local0, 10))     //  12 - 2 = 10
    {
       Return (0x42)
    }

    Store ("SizeOf(Index(BUFR,,)) PASS", Debug)

    //  TBD:    strings and packages

    Return (0)
}   //  SIND:   SizeOf(Index(,,)) test control method
**************************************************/

Method (SLOC,, Serialized)
{   //  SLOC:   SizeOf(Local) test control method
    Name (BUFR, Buffer (12) {}) //  uninitialized Buffer
    Name (STR0, "String")
    Name (PKG0, Package (4) {}) //  uninitialized Package


    //  store BUFR Buffer into Local2
    Store (BUFR, Local2)

    //  store size of BUFR buffer into Local0
    Store (SizeOf (Local2), Local0)

    //  save Local0 object type value into Local1
    Store (ObjectType (Local0), Local1)

    //  validate Local0 is a Number

   If (LNotEqual (Local1, 1))      //  Number type is 1
    {
```

```
        Return (0x51)
    }

    If (LNotEqual (Local0, 12)) //  BUFR size is 12
    {
        Return (0x52)
    }

    Store ("SizeOf(Local2=Buffer) PASS", Debug)


    //  store STR0 string into Local2
    Store (STR0, Local2)

    //  store size of STR0 buffer into Local0
    Store (SizeOf (Local2), Local0)

    //  save Local0 object type value into Local1
    Store (ObjectType (Local0), Local1)

    //  validate Local0 is a Number
    If (LNotEqual (Local1, 1))      //  Number type is 1
    {
        Return (0x53)
    }

    If (LNotEqual (Local0, 6))      //  STR0 size is 6
    {
        Return (0x54)
    }

    Store ("SizeOf(Local2=String) PASS", Debug)


    //  store PKG0 Package into Local2
    Store (PKG0,
Local2)

    //  store size of PKG0 buffer into Local0
    Store (SizeOf (Local2), Local0)

    //  save Local0 object type value into Local1
    Store (ObjectType (Local0), Local1)

    //  validate Local0 is a Number
    If (LNotEqual (Local1, 1))      //  Number type is 1
    {
        Return (0x55)
```

```
        }

        If (LNotEqual (Local0, 4))      //  PKG0 size is 4
        {
           Return (0x56)
        }

        Store ("SizeOf(Local2=Package) PASS", Debug)


        Return (0)
    }   //  SLOC:   SizeOf(Local) test control method

    Method (TEST)
    {
        Store ("++++++++ SizeOf Test", Debug)

        //  Store current operating system string into Local0
        Store (_OS, Local0)

        Store (SizeOf (_OS), Local3)

        //  save Local3 object type value into Local4
        Store (ObjectType (Local3), Local4)

        //  validate
Local3 is a Number
        If (LNotEqual (Local4, 1))  //  Number type is 1
        {
           //  failure
           Return (0x61)
        }

        //  Store current operating system string into Local0
        //  This verifies above SizeOf(_OS) did not corrupt ACPI namespace
        Store (_OS, Local0)

        //  Store SARG [Validate SizeOf(Arg)] return value into Local1
        Store (SARG, Local1)

        //  save Local1 object type value into Local2
        Store (ObjectType (Local1), Local2)

        //  validate Local1 is a Number
        If (LNotEqual (Local2, 1))  //  Number type is 1
        {
           //  failure
           Return (0x62)
```

```
        }

        //  zero indicates pass, non-zero is an error code
        If (LNotEqual (Local1, 0))
        {
           //  return SARG error code
           Return (Local1)
        }


        //  Store SBUF [Validate
SizeOf(Buffer)] return value into Local1
        Store (SBUF, Local1)

        //  save Local1 object type value into Local2
        Store (ObjectType (Local1), Local2)

        //  validate Local1 is a Number
        If (LNotEqual (Local2, 1))  //  Number type is 1
        {
           //  failure
           Return (0x63)
        }

        //  zero indicates pass, non-zero is an error code
        If (LNotEqual (Local1, 0))
        {
           //  return SBUF error code
           Return (Local1)
        }

        /*****************************************************
        //
        // This section is commented because it is illegal to
        //  perform a SizeOf operation on a Buffer Field
        //
        //  Store SIND [verify SizeOf(Index(,,))] return value into Local1
        Store (SIND, Local1)

        //  save Local1 object type value into Local2
        Store (ObjectType
(Local1), Local2)

        //  validate Local1 is a Number
        If (LNotEqual (Local2, 1))  //  Number type is 1
        {
           //  failure
           Return (0x64)
```

```
        }

        //  zero indicates pass, non-zero is an error code
        If (LNotEqual (Local1, 0))
        {
           //  return SARG error code
           Return (Local1)
        }
        *****************************************************/

        //  Store SLOC [verify SizeOf(Local)] return value into Local1
        Store (SLOC, Local1)

        //  save Local1 object type value into Local2
        Store (ObjectType (Local1), Local2)

        //  validate Local1 is a Number
        If (LNotEqual (Local2, 1))  //  Number type is 1
        {
           //  failure
           Return (0x65)
        }

        //  zero indicates pass, non-zero is an error code
        If (LNotEqual (Local1, 0))
         {
           //  return SLOC error code
           Return (Local1)
        }


        //  TBD:    SizeOf (METH) -- where METH control method returns
        //             buffer, BufferField, string, package, package element


        Return (0)
     }   //  TEST
  }   //  SIZO

//
// test SmiShare.asl
//
  Scope (\_SB)    //  System Bus
  {   //  _SB system bus
     //  Declare an OpRegion in Memory starting at offset 0x400000 that is 10 bytes long
     OperationRegion(RAM1, SystemMemory, 0x400000, 0xA)

     Field (RAM1, AnyAcc, NoLock, Preserve)
```

```
    {
        BI1T, 1,        // Create some bits in memory to access
        BI2T, 2,
        BI3T, 3,
        LST2, 2
    }   //  End Field RAM1

    Field (RAM1, WordAcc, NoLock, WriteAsZeros)
    {
        WRD, 16
    }   //  End 2nd Field RAM1

    Field (RAM1, ByteAcc, NoLock, WriteAsOnes)
    {
        BYTE, 8
    }   //
End 3rd Field RAM1

    Field (RAM1, ByteAcc, NoLock, Preserve)
    {
        SMIC, 8,
        SMID, 8
    }

    Device (MBIT)
    {
        Method (_INI)
        {
            Store (0, BI1T)
            Store (3, BI2T)
            Store (7, BI3T)
            Store (0, LST2)
        }   //  End _INI Method
    }   //  End Device MBIT

    Device (MWRD)
    {
        Method (_INI)
        {
            Store (0, WRD)
        }   //  End _INI Method
    }   //  End Device MWRD

    Device (MBYT)
    {
        Method (_INI)
        {
            Store (0, BYTE)
```

```
            Store (0xC, SMIC)
            Store (0xD, SMID)
        }   //  End _INI Method
    }   //  End Device MBYT

 /*
    //  Declare an OpRegion in Memory starting at offset 0x400000 that is 10 bytes long
    OperationRegion(\RAM1, SystemMemory, 0x400000, 0xA)

    Field (\RAM1, AnyAcc,
NoLock, Preserve)
    {
        BI1T, 1,        // Create some bits in memory to access
        BI2T, 2,
        BI3T, 3,
        LST2, 2
    }   //  End Field RAM1

    Field (\RAM1, WordAcc, NoLock, WriteAsZeros)
    {
        WRD, 16
    }   //  End 2nd Field RAM1

    Field (\RAM1, ByteAcc, NoLock, WriteAsOnes)
    {
        BYTE, 8
    }   //  End 3rd Field RAM1

    Field (\RAM1, ByteAcc, NoLock, Preserve)
    {
        SMIC, 8,
        SMID, 8
    }
 */
    Method (SMIX)
    {
        Return (BYTE)
    }   //  End SMIX

    Method (EVNT)
    {
        Store (SMIX, Local0)

        Notify (\_SB_, 0x29)
        If (And (Local0, 0x01))
        {   Notify (\_SB_.SMIS, 0x21)}

        If (And (Local0, 0x02))
```

```
        {   Notify (\_SB_.SMIS, 0x22)}

        If (And (Local0, 0x04))
        {   Notify (\_SB_.SMIS, 0x24)}

        If (And (Local0, 0x08))
         {   Notify (\_SB_.SMIS, 0x28)}

    }   //  End Method EVNT

    Method (NTFY)
    {
        Notify (\_SB_, 1)
        Notify (\_TZ_.TZ1, 2)
        Notify (\_PR_.CPU0, 3)

        Notify (\_SB_, 0x81)
        Notify (\_TZ_.TZ1, 0x82)
        Notify (\_PR_.CPU0, 0x83)
    }

    Device (SMIS)
    {
        Method (BINK)
        {
            Store (0, Local0)               //  Zero out Local0

            If (LNotEqual (SMID, 0xD))
            {   Or (0x80, Local0, Local0)}

            If (LNotEqual (SMIC, 0xC))
            {   Or (0x40, Local0, Local0)}

            If (LNotEqual (BYTE, 0))
            {   Or (0x20, Local0, Local0)}

            If (LNotEqual (WRD, 0))
            {   Or (0x10, Local0, Local0)}

            If (LNotEqual (LST2, 0))
            {   Or (0x8, Local0, Local0)}

            If (LNotEqual (BI3T, 0x7))
            {   Or (0x4, Local0,
Local0)}

            If (LNotEqual (BI2T, 0x3))
            {   Or (0x2, Local0, Local0)}
```

```
        If (LNotEqual (BI1T, 0))
        {   Or (0x1, Local0, Local0)}

        Return (Local0)
    }   //  End Method BINK

    Method (TEST)
    {
        Store ("++++++++ SmiShare Test", Debug)

        //  Expect EVNT to generate Notify value we just previously
        //  stored in BYTE

        Store (0x20, BYTE)
        EVNT ()
        Store (0x21, BYTE)
        EVNT ()
        Store (0x22, BYTE)
        EVNT ()
        Store (0x23, BYTE)
        EVNT ()

        NTFY ()
        Return (0)  //  pass
    }   //  End Method TEST
}   //  Device SMIS

Device(CNDT)
{
    Method(TEST)
    {
        If (ECOK)
        {
            return("Broken")
        }
         Else
        {
            return("Works")
        }
    }

    Method(ECOK)
    {
        Return(0x0)
    }
}
```

```
  }  //  _SB system bus


/* Test a very big buffer */

  Name(WQAB, Buffer(6756)
  {
     0x46,0x4F,0x4D,0x42,0x01,0x00,0x00,0x00,
     0x54,0x1A,0x00,0x00,0xBA,0xAD,0x00,0x00,
     0x44,0x53,0x00,0x01,0x1A,0x7D,0xDA,0x54,
     0x98,0xBD,0x92,0x00,0x01,0x06,0x18,0x42,
     0x10,0x47,0x10,0x92,0x46,0x62,0x02,0x89,
     0x80,0x90,0x18,0x18,0x14,0x81,0x85,0x00,
     0x49,0x02,0x88,0xC4,0x41,0xE1,0x20,0xD4,
     0x9F,0x40,0x7E,0x05,0x20,0x74,0x28,0x40,
     0xA6,0x00,0x83,0x02,0x9C,0x22,0x88,0xA0,
     0x57,0x01,0x36,0x05,0x98,0x14,0x60,0x51,
     0x80,0x76,0x01,0x96,0x05,0xE8,0x16,0x20,
     0x1D,0x96,0x88,0x04,0x47,0x89,0x01,0x47,
     0xE9,0xC4,0x16,0x6E,0xD8,0xE0,0x85,0xA2,
     0x68,0x06,0x51,0x12,0x94,0x8B,0x20,0x5D,
     0x10,0x52,0x2E,0xC0,0x37,0x82,0x06,0x10,
      0xA5,0x77,0x01,0xB6,0x05,0x98,0x86,0x27,
     0xD2,0x20,0xE4,0x60,0x08,0x54,0xCE,0x80,
     0x20,0x69,0x44,0x21,0x1E,0xA7,0x44,0x08,
     0x0A,0x84,0x90,0xD4,0xF1,0xA0,0xA0,0x71,
     0x88,0xAD,0xCE,0x46,0x93,0xA9,0x74,0x7E,
     0x48,0x82,0x70,0xC6,0x2A,0x7E,0x3A,0x9A,
     0xD0,0xD9,0x9C,0x60,0xE7,0x18,0x72,0x3C,
     0x48,0xF4,0x20,0xB8,0x00,0x0F,0x1C,0x2C,
     0x34,0x84,0x22,0x6B,0x80,0xC1,0x8C,0xDD,
     0x63,0xB1,0x0B,0x4E,0x0A,0xEC,0x61,0xB3,
     0x01,0x19,0xA2,0x24,0x38,0xD4,0x11,0xC0,
     0x12,0x05,0x98,0x1F,0x87,0x0C,0x0F,0x95,
     0x8C,0x25,0x24,0x1B,0xAB,0x87,0xC2,0xA5,
     0x40,0x68,0x6C,0x27,0xED,0x19,0x45,0x2C,
     0x79,0x4A,0x82,0x49,0xE0,0x51,0x44,0x36,
     0x1A,0x27,0x28,0x1B,0x1A,0x25,0x03,0x42,
     0x9E,0x05,0x58,0x07,0x26,0x04,0x76,0x2F,
     0xC0,0x9A,0x00,0x73,0xB3,0x90,0xB1,0xB9,
     0xE8,0xFF,0x0F,0x71,0xB0,0x31,0xDA,0x9A,
     0xAE,0x90,0xC2,0xC4,0x88,0x12,0x2C,0x5E,
      0xC5,0xC3,0x10,0xCA,0x93,0x42,0xA8,0x48,
     0x95,0xA1,0x68,0xB4,0x51,0x2A,0x14,0xE0,
     0x4C,0x80,0x30,0x5C,0x1D,0x03,0x82,0x46,
     0x88,0x15,0x29,0x56,0xFB,0x83,0x20,0xF1,
     0x2D,0x40,0x54,0x01,0xA2,0x48,0xA3,0x41,
     0x9D,0x03,0x3C,0x5C,0x0F,0xF5,0xF0,0x3D,
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0xF6,0x93,0x0C,0x72,0x90,0x67,0xF1,0xA8,
0x70,0x9C,0x06,0x49,0xE0,0x0B,0x80,0x4F,
0x08,0x1E,0x38,0xDE,0x35,0xA0,0x66,0x7C,
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0xB8,0x13,0x38,0x44,0x06,0xE8,0x49,0x3D,
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0x0A,0xCD,0x5E,0x12,0x08,0xC1,0xF1,0xF8,
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0x1A,0x99,0xA1,0x3D,0xCA,0xD3,0x8A,0x19,
0xF2,0x31,0xC1,0x04,0x16,0x0B,0x21,0x05,
0x10,0x1A,0x0F,0xF8,0x6F,0x00,0x8F,0x17,
0xBE,0x12,0xC4,0xF6,0x80,0x12,0x0C,0x0B,
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0xF1,0xC0,0xE0,0x03,0xE2,0xEF,0x1F,0xA7,
0xEC,0x11,0x9C,0xA9,0x01,0x7D,0x1C,0xF0,
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0x81,0x7D,0x10,0x38,0x9F,0xE7,0x44,0xB0,
0x8E,0x9A,0x1F,0x6D,0xF8,0xF8,0x39,0xF8,
0x5B,0xC1,0x03,0xA5,0x8F,0x45,0x21,0x1E,
0x91,0xF8,0x39,0x11,0x5C,0x26,0xCE,0x89,
0x40,0xE2,0xD0,0x0B,0xE3,0xB4,0x80,0x1B,
0x88,0xCF,0x94,0xD8,0x29,0x9F,0x08,0x3B,
0x97,0x60,0x46,0x07,0xAE,0xCB,0xBD,0x47,
0x07,0xFE,0x93,0x00,0x1E,0xEB,0xFF,0xFF,
0x78,0x07,0xBE,0x93,0xBA,0xEF,0x26,0xBE,
0xC8,0xF8,0x50,0xF4,0x7C,0x07,0xF8,0x0F,
0x77,0xB8,0x43,0xC5,0x39,0xDF,0x01,0xD2,
0xFE,0xFF,0xE7,0x3B,0x60,0x79,0xB6,0x7E,
0xBE,0x03,0xBB,0xC8,0xF3,0x1D,0x40,0xAC,
0xFF,0xFF,0xF9,0x0E,0xB0,0x73,0x46,0xC3,
0x9D,0xEF,0xC0,0x76,0xB4,0x01,0xCC,0x4D,
0xE3,0xD1,0x06,0xDC,0xC3,0x85,0x3D,0x0C,
0xAE,0xD0,0xA6,0x4F,0x8D,0x46,0xAD,0x1A,
0x94,0xA9,0x51,0xE6,0xFF,0xDF,0xA0,0x56,
0x9F,0x4A,0x8D,0x19,0xCB,0x0E,0xA5,0x80,
0x8F,0x0A,0x8D,0xCD,0xF2,0x28,0x04,0x62,
0x31,0xAF,0x06,0x81,0x38,0x2C,0x08,0x8D,
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0x10,0x88,0x23,0x83,0x50,0xA1,0x3A,0x40,
0x58,0x4C,0x10,0x1A,0xCA,0x07,0x08,0x93,
0xFE,0x48,0x10,0x20,0x31,0x02,0xC2,0xC2,
0xBD,0xBF,0x04,0x62,0x69,0xEF,0x09,0x81,
0x58,0x88,0x15,0x10,0x16,0x17,0x84,0x86,
0xD3,0x02,0xC2,0x24,0x99,0x01,0x61,0x81,
0x40,0xA8,0x7C,0x35,0x20,0x4C,0xA4,0x1B,
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0x26,0xC3,0x0F,0x08,0x0B,0x0D,0x42,0xA3,
0x3D,0x30,0x04,0x48,0x0C,0x81,0xB0,0xF8,

0x8E,0x40,0x98,0xF8,0x57,0x91,0x40,0x9C,
0xDF,0x12,0xC4,0x4D,0x69,0x88,0x35,0x01,
0x31,0x0D,0x9E,0x80,0x98,0x22,0x10,0x01,
0x39,0xF6,0xD3,0x43,0x40,0xD6,0x60,0x0A,
0x88,0x45,0x07,0x11,0x90,0x85,0xA8,0x02,
0x62,0x79,0x5D,0x01,0xB1,0xF0,0x20,0x02,

0x72,0xE6,0x97,0x9F,0x80,0xAC,0xE0,0xA5,
0xF3,0x10,0xC0,0xDE,0x10,0x81,0x48,0x72,
0x10,0x01,0x39,0xB0,0x2F,0x20,0x16,0x1F,
0x44,0x40,0xCE,0xFA,0x28,0x14,0x90,0x83,
0x83,0x68,0x10,0xE4,0x6B,0x26,0x20,0xA7,
0x07,0x11,0x10,0xF9,0x04,0x05,0x21,0x6A,
0xBD,0x81,0x30,0x3D,0x8F,0x42,0x0D,0x85,
0x80,0x50,0xE5,0xEA,0xCE,0x31,0x2C,0x07,
0x08,0xCD,0x05,0x22,0x30,0xAB,0x70,0x07,
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0xEA,0x92,0x07,0xC4,0x12,0x80,0xD0,0x54,
0x20,0x34,0x25,0x88,0x00,0xAD,0xCA,0x1E,
0x10,0x53,0x0A,0x42,0x95,0x83,0xD0,0x74,
0x20,0x54,0xB6,0xBE,0xC3,0x02,0x05,0x11,
0x90,0xA3,0x83,0x50,0xE1,0xFE,0x40,0x98,
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0xF2,0xB2,0x13,0x90,0xF5,0x81,0x50,0xBD,
0x20,0x02,0x73,0x36,0x20,0x9A,0x17,0x84,
0xE6,0x07,0xA3,0x5A,0x8D,0x02,0x31,0xFD,
0x20,0x34,0x0F,0x88,0xC0,0xAC,0xE0,0xF9,
0x71,0xC0,0x0C,0x84,0xAA,0x04,0x11,0x98,
0x73,0x01,0xD1,0xAC,0x20,0x34,0x3B,0x18,
0xD5,0xFE,0x0F,0xD1,0x00,0x08,0x08,0xCD,
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0x1A,0x41,0xA8,0x66,0x10,0x81,0x39,0x27,
0x10,0xCD,0x0E,0x42,0x95,0xFD,0x4D,0x82,
0x91,0x8C,0x0F,0xD0,0x40,0x24,0x37,0x08,
0xD5,0xF1,0x0C,0x0A,0x46,0x74,0x83,0x08,
0xC8,0x59,0x40,0x68,0x36,0x30,0x9A,0x4C,
0xED,0x91,0x80,0xBA,0x05,0x61,0xE9,0x41,
0x68,0x3A,0xBB,0x83,0xA7,0x20,0x54,0x81,
0x5E,0x30,0xA6,0x19,0x44,0x87,0x05,0x02,
0x42,0x73,0x81,0x51,0x1D,0xAF,0x96,0x40,
0x44,0x1B,0x08,0xD5,0x0A,0xA2,0x81,0x93,
0x1F,0x53,0x10,0x92,0x14,0x84,0xFC,0xFF,
0x07,0xAA,0xC7,0x9C,0x40,0xAC,0xFA,0x5B,
0x25,0x50,0x27,0x01,0xA1,0xC9,0x40,0x74,
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0x29,0x88,0xC0,0xAC,0xF4,0x63,0xA4,0x23,
0x05,0x51,0x7D,0xBC,0xA0,0x20,0x34,0xD1,
0x3B,0x2C,0x08,0x7B,0xB8,0x69,0xA8,0xE4,
0x59,0xA5,0xA1,0x12,0x10,0x9A,0x0D,0x44,
0xC7,0x04,0xF2,0xAA,0x79,0x4C,0x60,0x20,
0x54,0x2F,0x08,0xCD,0x01,0x42,0x13,0x83,
0x08,0xD4,0xA9,0xBF,0x37,0x1A,0x2A,0xF9,

```
    0x5B,0x09,0xC4,0xCA,0x5E,0x69,0x02,0xB1,
    0xDE,0xA7,0x4E,0x20,0xE6,0x1D,0x98,0xA9,
    0x05,0xA1,0xEA,0x41,0x04,0xE6,0xB4,0x40,
    0x54,0x81,0x78,0x10,0xA6,0x08,0x44,0x60,
    0x4E,0x02,0x44,0xD3,0x81,0xD0,0xEC,0x60,
    0x54,0xE7,0xA3,0x4D,0x40,0xD6,0x0E,0x42,
    0xB3,0x80,0x08,0xCC,0x59,0x1E,0x69,0x02,
    0xB1,0x92,0x2F,0x9D,0x0E,0x24,0x04,0x84,
     0x26,0xD3,0x7F,0x68,0xA1,0x05,0x80,0x99,
    0x84,0x04,0x20,0x4C,0x16,0x88,0x0E,0x27,
    0xD6,0x08,0x22,0x40,0xC7,0x01,0xA3,0xD1,
    0x40,0x68,0x5C,0x40,0x9A,0x1D,0x90,0x2A,
    0x6D,0x00,0xC6,0x54,0x83,0xD0,0x24,0x20,
    0x02,0x74,0x2C,0x10,0x01,0x5A,0x74,0x04,
    0x30,0x16,0x01,0x84,0x46,0x05,0xA1,0xC9,
    0x2A,0x80,0xB2,0x9C,0x20,0x1A,0x20,0xC9,
    0x30,0x60,0x0A,0x42,0x33,0x81,0xD0,0x8C,
    0x20,0x54,0x7C,0x07,0x10,0x16,0x04,0x84,
    0x86,0x03,0xD1,0x00,0xFE,0xFF,0x8F,0x0C,
    0x02,0xD1,0x00,0x9C,0x23,0xC4,0x61,0x85,
    0x82,0xD0,0xF4,0x20,0x34,0x6C,0x09,0x50,
    0x16,0x1D,0x44,0xC7,0x23,0x92,0x02,0x8C,
    0x05,0x02,0xA1,0x31,0x41,0x68,0x6C,0x10,
    0x1A,0x29,0x06,0x28,0x13,0x54,0xE3,0x50,
    0x44,0x7B,0x80,0x31,0x99,0x20,0x54,0x36,
    0x88,0xC0,0x1C,0x14,0x88,0x86,0x07,0xA1,
    0x62,0x82,0x00,0x52,0x10,0x01,0x12,0x20,
    0x1A,0x1E,0x84,0x8A,0x29,0x32,0x74,0x0A,
     0x42,0x55,0x24,0x39,0x9A,0x50,0x10,0x1D,
    0x4D,0x08,0x08,0xCD,0x07,0x46,0x75,0x35,
    0x39,0x6E,0x50,0x10,0xAA,0x1D,0x84,0x06,
    0x05,0xA1,0x39,0xA2,0x80,0xB2,0xEC,0x20,
    0x02,0xB2,0x9E,0x2A,0x87,0x0A,0x0A,0x22,
    0x30,0xA7,0x02,0xA2,0x49,0x41,0xA8,0x8E,
    0x2C,0x47,0x0A,0x9A,0x06,0x84,0x25,0x06,
    0xA1,0xC9,0xDA,0x80,0xB0,0x0C,0x75,0x0E,
    0x24,0x14,0x84,0xE6,0x04,0xA1,0x4A,0xF2,
    0x0C,0x8F,0x82,0xE8,0x38,0x42,0x80,0x68,
    0x7A,0x10,0xAA,0xA6,0xCF,0x00,0x28,0x88,
    0x06,0x40,0x40,0x68,0x4E,0x30,0xAA,0xA8,
    0xD1,0xD1,0x84,0x82,0x50,0xDD,0x2F,0x4E,
    0x81,0xF8,0xFF,0x0F,
  })  // END MBUF

} //end DefinitionBlock
```

Found in path(s):
* /acpica-unix-20210105-tar-gz/acpica-unix-20210105/tests/misc/grammar.asl

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

```
NoEcho('
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*
* Module Name: aslsupport.y - Bison/Yacc C support functions
*
*****************************************************************************/

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*
*****************************************************************************/

')

/*****************************************************************************
*
* Local support functions
*
*****************************************************************************/

/*! [Begin] no source code translation */
int
AslCompilerwrap(void)
{
 return (1);
}
/*! [End] no source code translation !*/


void *
AslLocalAllocate (
  unsigned int        Size)
{
  void                *Mem;


  DbgPrint (ASL_PARSE_OUTPUT,
     "\nAslLocalAllocate: Expanding Stack to %u\n\n", Size);

  Mem = ACPI_ALLOCATE_ZEROED (Size);
  if (!Mem)
```

```
 {
    AslCommonError (ASL_ERROR, ASL_MSG_MEMORY_ALLOCATION,
      AslGbl_CurrentLineNumber, AslGbl_LogicalLineNumber,
      AslGbl_InputByteCount, AslGbl_CurrentColumn,
      AslGbl_Files[ASL_FILE_INPUT].Filename, NULL);
    exit (1);
  }

  return (Mem);
}

ACPI_PARSE_OBJECT *
AslDoError (
  void)
{

  return (TrCreateLeafOp (PARSEOP_ERRORNODE));
}


/*******************************************************************************
*
* FUNCTION:    UtGetOpName
*
* PARAMETERS:  ParseOpcode        - Parser keyword ID
*
* RETURN:      Pointer to the opcode name
*
* DESCRIPTION: Get the ascii name of the parse opcode
*
******************************************************************************/

char *
UtGetOpName (
  UINT32                ParseOpcode)
{
#ifdef ASL_YYTNAME_START
  /*
   * First entries (ASL_YYTNAME_START) in yytname are special reserved names.
   * Ignore first 8 characters of the name
   */
  return ((char *) yytname
      [(ParseOpcode - ASL_FIRST_PARSE_OPCODE) + ASL_YYTNAME_START] + 8);
#else
  return ("[Unknown parser generator]");
#endif
}
```

Found in path(s):
* /acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/aslsupport.y
No license file was found, but licenses were detected in source scan.

```
%{
/******************************************************************************
*
* Module Name: dtparser.y - Bison input file for table compiler parser
*
*****************************************************************************/

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*****************************************************************************/

#include "aslcompiler.h"

#define _COMPONENT          DT_COMPILER
      ACPI_MODULE_NAME    ("dtparser")

void *                  AslLocalAllocate (unsigned int Size);

/* Bison/yacc configuration */

#undef alloca
#define alloca              AslLocalAllocate

int                     DtParserlex (void);
int                     DtParserparse (void);
void                    DtParsererror (char const *msg);
extern char             *DtParsertext;
extern DT_FIELD         *AslGbl_CurrentField;

UINT64                  DtParserResult; /*
 Expression return value */

/* Bison/yacc configuration */

#define yytname             DtParsername
#define YYDEBUG             1           /* Enable debug output */
#define YYERROR_VERBOSE     1           /* Verbose error messages */
#define YYFLAG              -32768

/* Define YYMALLOC/YYFREE to prevent redefinition errors  */
```

```
#define YYMALLOC        malloc
#define YYFREE          free
%}

%union
{
   UINT64           value;
   UINT32           op;
}

/*! [Begin] no source code translation */

%type  <value>  Expression

%token <op>    OP_EXP_EOF
%token <op>    OP_EXP_NEW_LINE
%token <op>    OP_EXP_NUMBER
%token <op>    OP_EXP_HEX_NUMBER
%token <op>    OP_EXP_DECIMAL_NUMBER
%token <op>    OP_EXP_LABEL
%token <op>    OP_EXP_PAREN_OPEN
%token <op>    OP_EXP_PAREN_CLOSE

%left <op>     OP_EXP_LOGICAL_OR
%left <op>     OP_EXP_LOGICAL_AND
%left <op>     OP_EXP_OR
%left <op>     OP_EXP_XOR
%left <op>     OP_EXP_AND
%left <op>     OP_EXP_EQUAL
 OP_EXP_NOT_EQUAL
%left <op>     OP_EXP_GREATER OP_EXP_LESS OP_EXP_GREATER_EQUAL OP_EXP_LESS_EQUAL
%left <op>     OP_EXP_SHIFT_RIGHT OP_EXP_SHIFT_LEFT
%left <op>     OP_EXP_ADD OP_EXP_SUBTRACT
%left <op>     OP_EXP_MULTIPLY OP_EXP_DIVIDE OP_EXP_MODULO
%right <op>    OP_EXP_ONES_COMPLIMENT OP_EXP_LOGICAL_NOT

%%

/*
*  Operator precedence rules (from K&R)
*
*  1)     ( )
*  2)     ! ~ (unary operators that are supported here)
*  3)     *   /   %
*  4)     +   -
*  5)     >>  <<
*  6)     <   >   <=  >=
```

```
* 7)     == !=
* 8)     &
* 9)     ^
* 10)    |
* 11)    &&
* 12)    ||
*/
Value
  : Expression OP_EXP_NEW_LINE                { DtParserResult=$1; return 0; } /* End of line (newline) */
  | Expression OP_EXP_EOF                     { DtParserResult=$1; return 0; } /* End of string (0) */
  ;

Expression

    /* Unary operators */

  : OP_EXP_LOGICAL_NOT        Expression        { $$ = DtDoOperator ($2, OP_EXP_LOGICAL_NOT,
   $2);}
  | OP_EXP_ONES_COMPLIMENT    Expression        { $$ = DtDoOperator ($2,
OP_EXP_ONES_COMPLIMENT, $2);}

    /* Binary operators */

  | Expression OP_EXP_MULTIPLY        Expression  { $$ = DtDoOperator ($1, OP_EXP_MULTIPLY,       $3);}
  | Expression OP_EXP_DIVIDE          Expression  { $$ = DtDoOperator ($1, OP_EXP_DIVIDE,         $3);}
  | Expression OP_EXP_MODULO          Expression  { $$ = DtDoOperator ($1, OP_EXP_MODULO,         $3);}
  | Expression OP_EXP_ADD             Expression  { $$ = DtDoOperator ($1, OP_EXP_ADD,            $3);}
  | Expression OP_EXP_SUBTRACT        Expression  { $$ = DtDoOperator ($1, OP_EXP_SUBTRACT,
$3);}
  | Expression OP_EXP_SHIFT_RIGHT     Expression  { $$ = DtDoOperator ($1, OP_EXP_SHIFT_RIGHT,
$3);}
  | Expression OP_EXP_SHIFT_LEFT      Expression  { $$ = DtDoOperator ($1, OP_EXP_SHIFT_LEFT,     $3);}
  | Expression OP_EXP_GREATER         Expression  { $$ = DtDoOperator ($1, OP_EXP_GREATER,
     $3);}
  | Expression OP_EXP_LESS            Expression  { $$ = DtDoOperator ($1, OP_EXP_LESS,           $3);}
  | Expression OP_EXP_GREATER_EQUAL   Expression  { $$ = DtDoOperator ($1,
OP_EXP_GREATER_EQUAL,   $3);}
  | Expression OP_EXP_LESS_EQUAL      Expression  { $$ = DtDoOperator ($1, OP_EXP_LESS_EQUAL,
$3);}
  | Expression OP_EXP_EQUAL           Expression  { $$ = DtDoOperator ($1, OP_EXP_EQUAL,          $3);}
  | Expression OP_EXP_NOT_EQUAL       Expression  { $$ = DtDoOperator ($1, OP_EXP_NOT_EQUAL,
$3);}
  | Expression OP_EXP_AND             Expression  { $$ = DtDoOperator ($1, OP_EXP_AND,            $3);}
  | Expression OP_EXP_XOR             Expression  { $$ = DtDoOperator ($1, OP_EXP_XOR,            $3);}
  | Expression OP_EXP_OR              Expression  { $$ = DtDoOperator ($1, OP_EXP_OR,             $3);}
  | Expression OP_EXP_LOGICAL_AND     Expression  { $$ = DtDoOperator ($1, OP_EXP_LOGICAL_AND,
$3);}
  | Expression
```

```
 OP_EXP_LOGICAL_OR       Expression  { $$ = DtDoOperator ($1, OP_EXP_LOGICAL_OR,      $3);}

    /* Parentheses: '(' Expression ')' */

  | OP_EXP_PAREN_OPEN         Expression
     OP_EXP_PAREN_CLOSE                      { $$ = $2;}

    /* Label references (prefixed with $) */

  | OP_EXP_LABEL                          { $$ = DtResolveLabel (DtParsertext);}

    /*
     * All constants for the data table compiler are in hex, whether a (optional) 0x
     * prefix is present or not. For example, these two input strings are equivalent:
     *    1234
     *    0x1234
     */

    /* Non-prefixed hex number */

  | OP_EXP_NUMBER                         { $$ = DtDoConstant (DtParsertext);}

    /* Standard hex number (0x1234) */

  | OP_EXP_HEX_NUMBER                     { $$ = DtDoConstant (DtParsertext);}

    /* Possible TBD: Decimal number with prefix (0d1234) - Not supported this time */

  | OP_EXP_DECIMAL_NUMBER
                  { $$ = DtDoConstant (DtParsertext);}
  ;
%%

/*! [End] no source code translation !*/

/*
* Local support functions, including parser entry point
*/
#define PR_FIRST_PARSE_OPCODE   OP_EXP_EOF
#define PR_YYTNAME_START        3


/******************************************************************************
*
* FUNCTION:    DtParsererror
*
* PARAMETERS:  Message             - Parser-generated error message
*
```

```
* RETURN:      None
*
* DESCRIPTION: Handler for parser errors
*
*****************************************************************************/

void
DtParsererror (
  char const              *Message)
{
  DtError (ASL_ERROR, ASL_MSG_SYNTAX,
     AslGbl_CurrentField, (char *) Message);
}


/******************************************************************************
*
* FUNCTION:    DtGetOpName
*
* PARAMETERS:  ParseOpcode         - Parser token (OP_EXP_*)
*
* RETURN:      Pointer to the opcode name
*
* DESCRIPTION: Get the ascii
 name of the parse opcode for debug output
*
*****************************************************************************/

char *
DtGetOpName (
  UINT32                  ParseOpcode)
{
#ifdef ASL_YYTNAME_START
  /*
   * First entries (PR_YYTNAME_START) in yytname are special reserved names.
   * Ignore first 6 characters of name (OP_EXP_)
   */
  return ((char *) yytname
     [(ParseOpcode - PR_FIRST_PARSE_OPCODE) + PR_YYTNAME_START] + 6);
#else
  return ("[Unknown parser generator]");
#endif
}


/******************************************************************************
*
* FUNCTION:    DtEvaluateExpression
```

```
*
* PARAMETERS:  ExprString          - Expression to be evaluated. Must be
*                                    terminated by either a newline or a NUL
*                                    string terminator
*
* RETURN:      64-bit value for the expression
*
* DESCRIPTION: Main entry point for the DT expression parser
*
*****************************************************************************/

UINT64
DtEvaluateExpression
(
  char                *ExprString)
{

  DbgPrint (ASL_DEBUG_OUTPUT,
     "**** Input expression: %s  (Base 16)\n", ExprString);

  /* Point lexer to the input string */

  if (DtInitLexer (ExprString))
  {
     DtError (ASL_ERROR, ASL_MSG_COMPILER_INTERNAL,
        AslGbl_CurrentField, "Could not initialize lexer");
     return (0);
  }

  /* Parse/Evaluate the input string (value returned in DtParserResult) */

  DtParserparse ();
  DtTerminateLexer ();

  DbgPrint (ASL_DEBUG_OUTPUT,
     "**** Parser returned value: %u (%8.8X%8.8X)\n",
     (UINT32) DtParserResult, ACPI_FORMAT_UINT64 (DtParserResult));

  return (DtParserResult);
}

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*
* Module Name: asltokens.y - Bison/Yacc token types
*
***/

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*
*****************************************************************************/

')

/*****************************************************************************
*
* Token types: These are returned by the lexer
*
* NOTE: This list MUST match the AslKeywordMapping table found
*       in aslmap.c EXACTLY!  Double check any changes!
```

```
*
*****************************************************************************/

/*
* Most tokens are defined to return <i>, which is a UINT64.
*
* These tokens return <s>, a pointer to the associated lexed string:
*
*  PARSEOP_NAMESEG
*  PARSEOP_NAMESTRING
*  PARSEOP_STRING_LITERAL
*  PARSEOP_STRUCTURE_NAMESTRING
 */
%token <i> PARSEOP_ACCESSAS
%token <i> PARSEOP_ACCESSATTRIB_BLOCK
%token <i> PARSEOP_ACCESSATTRIB_BLOCK_CALL
%token <i> PARSEOP_ACCESSATTRIB_BYTE
%token <i> PARSEOP_ACCESSATTRIB_BYTES
%token <i> PARSEOP_ACCESSATTRIB_QUICK
%token <i> PARSEOP_ACCESSATTRIB_RAW_BYTES
%token <i> PARSEOP_ACCESSATTRIB_RAW_PROCESS
%token <i> PARSEOP_ACCESSATTRIB_SND_RCV
%token <i> PARSEOP_ACCESSATTRIB_WORD
%token <i> PARSEOP_ACCESSATTRIB_WORD_CALL
%token <i> PARSEOP_ACCESSTYPE_ANY
%token <i> PARSEOP_ACCESSTYPE_BUF
%token <i> PARSEOP_ACCESSTYPE_BYTE
%token <i> PARSEOP_ACCESSTYPE_DWORD
%token <i> PARSEOP_ACCESSTYPE_QWORD
%token <i> PARSEOP_ACCESSTYPE_WORD
%token <i> PARSEOP_ACQUIRE
%token <i> PARSEOP_ADD
%token <i> PARSEOP_ADDRESSINGMODE_7BIT
%token <i> PARSEOP_ADDRESSINGMODE_10BIT
%token <i> PARSEOP_ADDRESSTYPE_ACPI
%token <i> PARSEOP_ADDRESSTYPE_MEMORY
%token <i> PARSEOP_ADDRESSTYPE_NVS
%token <i> PARSEOP_ADDRESSTYPE_RESERVED
%token <i> PARSEOP_ALIAS
%token <i> PARSEOP_AND
%token <i> PARSEOP_ARG0
%token
 <i> PARSEOP_ARG1
%token <i> PARSEOP_ARG2
%token <i> PARSEOP_ARG3
%token <i> PARSEOP_ARG4
%token <i> PARSEOP_ARG5
%token <i> PARSEOP_ARG6
```

%token <i> PARSEOP_BANKFIELD
%token <i> PARSEOP_BITSPERBYTE_EIGHT
%token <i> PARSEOP_BITSPERBYTE_FIVE
%token <i> PARSEOP_BITSPERBYTE_NINE
%token <i> PARSEOP_BITSPERBYTE_SEVEN
%token <i> PARSEOP_BITSPERBYTE_SIX
%token <i> PARSEOP_BREAK
%token <i> PARSEOP_BREAKPOINT
%token <i> PARSEOP_BUFFER
%token <i> PARSEOP_BUSMASTERTYPE_MASTER
%token <i> PARSEOP_BUSMASTERTYPE_NOTMASTER
%token <i> PARSEOP_BYTECONST
%token <i> PARSEOP_CASE
%token <i> PARSEOP_CLOCKPHASE_FIRST
%token <i> PARSEOP_CLOCKPHASE_SECOND
%token <i> PARSEOP_CLOCKPOLARITY_HIGH
%token <i> PARSEOP_CLOCKPOLARITY_LOW
%token <i> PARSEOP_CONCATENATE
%token <i> PARSEOP_CONCATENATERESTEMPLATE
%token <i> PARSEOP_CONDREFOF
%token <i> PARSEOP_CONNECTION
%token <i> PARSEOP_CONTINUE
%token <i> PARSEOP_COPYOBJECT
%token <i> PARSEOP_CREATEBITFIELD
%token <i> PARSEOP_CREATEBYTEFIELD
%token <i> PARSEOP_CREATEDWORDFIELD
%token
 <i> PARSEOP_CREATEFIELD
%token <i> PARSEOP_CREATEQWORDFIELD
%token <i> PARSEOP_CREATEWORDFIELD
%token <i> PARSEOP_DATABUFFER
%token <i> PARSEOP_DATATABLEREGION
%token <i> PARSEOP_DEBUG
%token <i> PARSEOP_DECODETYPE_POS
%token <i> PARSEOP_DECODETYPE_SUB
%token <i> PARSEOP_DECREMENT
%token <i> PARSEOP_DEFAULT
%token <i> PARSEOP_DEFAULT_ARG
%token <i> PARSEOP_DEFINITION_BLOCK
%token <i> PARSEOP_DEREFOF
%token <i> PARSEOP_DEVICE
%token <i> PARSEOP_DEVICEPOLARITY_HIGH
%token <i> PARSEOP_DEVICEPOLARITY_LOW
%token <i> PARSEOP_DIVIDE
%token <i> PARSEOP_DMA
%token <i> PARSEOP_DMATYPE_A
%token <i> PARSEOP_DMATYPE_COMPATIBILITY
%token <i> PARSEOP_DMATYPE_B

%token <i> PARSEOP_DMATYPE_F
%token <i> PARSEOP_DWORDCONST
%token <i> PARSEOP_DWORDIO
%token <i> PARSEOP_DWORDMEMORY
%token <i> PARSEOP_DWORDSPACE
%token <i> PARSEOP_EISAID
%token <i> PARSEOP_ELSE
%token <i> PARSEOP_ELSEIF
%token <i> PARSEOP_ENDDEPENDENTFN
%token <i> PARSEOP_ENDIAN_BIG
%token <i> PARSEOP_ENDIAN_LITTLE
%token
<i> PARSEOP_ENDTAG
%token <i> PARSEOP_ERRORNODE
%token <i> PARSEOP_EVENT
%token <i> PARSEOP_EXTENDEDIO
%token <i> PARSEOP_EXTENDEDMEMORY
%token <i> PARSEOP_EXTENDEDSPACE
%token <i> PARSEOP_EXTERNAL
%token <i> PARSEOP_FATAL
%token <i> PARSEOP_FIELD
%token <i> PARSEOP_FINDSETLEFTBIT
%token <i> PARSEOP_FINDSETRIGHTBIT
%token <i> PARSEOP_FIXEDDMA
%token <i> PARSEOP_FIXEDIO
%token <i> PARSEOP_FLOWCONTROL_HW
%token <i> PARSEOP_FLOWCONTROL_NONE
%token <i> PARSEOP_FLOWCONTROL_SW
%token <i> PARSEOP_FROMBCD
%token <i> PARSEOP_FUNCTION
%token <i> PARSEOP_GPIO_INT
%token <i> PARSEOP_GPIO_IO
%token <i> PARSEOP_I2C_SERIALBUS
%token <i> PARSEOP_I2C_SERIALBUS_V2
%token <i> PARSEOP_IF
%token <i> PARSEOP_INCLUDE
%token <i> PARSEOP_INCLUDE_END
%token <i> PARSEOP_INCREMENT
%token <i> PARSEOP_INDEX
%token <i> PARSEOP_INDEXFIELD
%token <i> PARSEOP_INTEGER
%token <i> PARSEOP_INTERRUPT
%token <i> PARSEOP_INTLEVEL_ACTIVEBOTH
%token <i> PARSEOP_INTLEVEL_ACTIVEHIGH
%token <i> PARSEOP_INTLEVEL_ACTIVELOW
%token <i>
PARSEOP_INTTYPE_EDGE
%token <i> PARSEOP_INTTYPE_LEVEL

%token <i> PARSEOP_IO
%token <i> PARSEOP_IODECODETYPE_10
%token <i> PARSEOP_IODECODETYPE_16
%token <i> PARSEOP_IORESTRICT_IN
%token <i> PARSEOP_IORESTRICT_NONE
%token <i> PARSEOP_IORESTRICT_OUT
%token <i> PARSEOP_IORESTRICT_PRESERVE
%token <i> PARSEOP_IRQ
%token <i> PARSEOP_IRQNOFLAGS
%token <i> PARSEOP_LAND
%token <i> PARSEOP_LEQUAL
%token <i> PARSEOP_LGREATER
%token <i> PARSEOP_LGREATEREQUAL
%token <i> PARSEOP_LLESS
%token <i> PARSEOP_LLESSEQUAL
%token <i> PARSEOP_LNOT
%token <i> PARSEOP_LNOTEQUAL
%token <i> PARSEOP_LOAD
%token <i> PARSEOP_LOADTABLE
%token <i> PARSEOP_LOCAL0
%token <i> PARSEOP_LOCAL1
%token <i> PARSEOP_LOCAL2
%token <i> PARSEOP_LOCAL3
%token <i> PARSEOP_LOCAL4
%token <i> PARSEOP_LOCAL5
%token <i> PARSEOP_LOCAL6
%token <i> PARSEOP_LOCAL7
%token <i> PARSEOP_LOCKRULE_LOCK
%token <i> PARSEOP_LOCKRULE_NOLOCK
%token <i> PARSEOP_LOR
%token <i> PARSEOP_MATCH
%token <i> PARSEOP_MATCHTYPE_MEQ
%token <i> PARSEOP_MATCHTYPE_MGE
%token
<i> PARSEOP_MATCHTYPE_MGT
%token <i> PARSEOP_MATCHTYPE_MLE
%token <i> PARSEOP_MATCHTYPE_MLT
%token <i> PARSEOP_MATCHTYPE_MTR
%token <i> PARSEOP_MAXTYPE_FIXED
%token <i> PARSEOP_MAXTYPE_NOTFIXED
%token <i> PARSEOP_MEMORY24
%token <i> PARSEOP_MEMORY32
%token <i> PARSEOP_MEMORY32FIXED
%token <i> PARSEOP_MEMTYPE_CACHEABLE
%token <i> PARSEOP_MEMTYPE_NONCACHEABLE
%token <i> PARSEOP_MEMTYPE_PREFETCHABLE
%token <i> PARSEOP_MEMTYPE_WRITECOMBINING
%token <i> PARSEOP_METHOD

%token <i> PARSEOP_METHODCALL
%token <i> PARSEOP_MID
%token <i> PARSEOP_MINTYPE_FIXED
%token <i> PARSEOP_MINTYPE_NOTFIXED
%token <i> PARSEOP_MOD
%token <i> PARSEOP_MULTIPLY
%token <i> PARSEOP_MUTEX
%token <i> PARSEOP_NAME
%token <s> PARSEOP_NAMESEG
%token <s> PARSEOP_NAMESTRING
%token <i> PARSEOP_NAND
%token <i> PARSEOP_NOOP
%token <i> PARSEOP_NOR
%token <i> PARSEOP_NOT
%token <i> PARSEOP_NOTIFY
%token <i> PARSEOP_OBJECTTYPE
%token <i> PARSEOP_OBJECTTYPE_BFF
%token <i> PARSEOP_OBJECTTYPE_BUF
%token <i> PARSEOP_OBJECTTYPE_DDB
%token
<i> PARSEOP_OBJECTTYPE_DEV
%token <i> PARSEOP_OBJECTTYPE_EVT
%token <i> PARSEOP_OBJECTTYPE_FLD
%token <i> PARSEOP_OBJECTTYPE_INT
%token <i> PARSEOP_OBJECTTYPE_MTH
%token <i> PARSEOP_OBJECTTYPE_MTX
%token <i> PARSEOP_OBJECTTYPE_OPR
%token <i> PARSEOP_OBJECTTYPE_PKG
%token <i> PARSEOP_OBJECTTYPE_POW
%token <i> PARSEOP_OBJECTTYPE_PRO
%token <i> PARSEOP_OBJECTTYPE_STR
%token <i> PARSEOP_OBJECTTYPE_THZ
%token <i> PARSEOP_OBJECTTYPE_UNK
%token <i> PARSEOP_OFFSET
%token <i> PARSEOP_ONE
%token <i> PARSEOP_ONES
%token <i> PARSEOP_OPERATIONREGION
%token <i> PARSEOP_OR
%token <i> PARSEOP_PACKAGE
%token <i> PARSEOP_PACKAGE_LENGTH
%token <i> PARSEOP_PARITYTYPE_EVEN
%token <i> PARSEOP_PARITYTYPE_MARK
%token <i> PARSEOP_PARITYTYPE_NONE
%token <i> PARSEOP_PARITYTYPE_ODD
%token <i> PARSEOP_PARITYTYPE_SPACE
%token <i> PARSEOP_PINCONFIG
%token <i> PARSEOP_PINFUNCTION
%token <i> PARSEOP_PINGROUP

%token <i> PARSEOP_PINGROUPCONFIG
%token <i> PARSEOP_PINGROUPFUNCTION
%token <i> PARSEOP_PIN_NOPULL
%token
<i> PARSEOP_PIN_PULLDEFAULT
%token <i> PARSEOP_PIN_PULLDOWN
%token <i> PARSEOP_PIN_PULLUP
%token <i> PARSEOP_POWERRESOURCE
%token <i> PARSEOP_PROCESSOR
%token <i> PARSEOP_QWORDCONST
%token <i> PARSEOP_QWORDIO
%token <i> PARSEOP_QWORDMEMORY
%token <i> PARSEOP_QWORDSPACE
%token <i> PARSEOP_RANGETYPE_ENTIRE
%token <i> PARSEOP_RANGETYPE_ISAONLY
%token <i> PARSEOP_RANGETYPE_NONISAONLY
%token <i> PARSEOP_RAW_DATA
%token <i> PARSEOP_READWRITETYPE_BOTH
%token <i> PARSEOP_READWRITETYPE_READONLY
%token <i> PARSEOP_REFOF
%token <i> PARSEOP_REGIONSPACE_CMOS
%token <i> PARSEOP_REGIONSPACE_EC
%token <i> PARSEOP_REGIONSPACE_FFIXEDHW
%token <i> PARSEOP_REGIONSPACE_GPIO
%token <i> PARSEOP_REGIONSPACE_GSBUS
%token <i> PARSEOP_REGIONSPACE_IO
%token <i> PARSEOP_REGIONSPACE_IPMI
%token <i> PARSEOP_REGIONSPACE_MEM
%token <i> PARSEOP_REGIONSPACE_PCC
%token <i> PARSEOP_REGIONSPACE_PCI
%token <i> PARSEOP_REGIONSPACE_PCIBAR
%token <i> PARSEOP_REGIONSPACE_PRM
%token <i> PARSEOP_REGIONSPACE_SMBUS
%token
<i> PARSEOP_REGISTER
%token <i> PARSEOP_RELEASE
%token <i> PARSEOP_RESERVED_BYTES
%token <i> PARSEOP_RESET
%token <i> PARSEOP_RESOURCETEMPLATE
%token <i> PARSEOP_RESOURCETYPE_CONSUMER
%token <i> PARSEOP_RESOURCETYPE_PRODUCER
%token <i> PARSEOP_RETURN
%token <i> PARSEOP_REVISION
%token <i> PARSEOP_SCOPE
%token <i> PARSEOP_SERIALIZERULE_NOTSERIAL
%token <i> PARSEOP_SERIALIZERULE_SERIAL
%token <i> PARSEOP_SHARETYPE_EXCLUSIVE
%token <i> PARSEOP_SHARETYPE_EXCLUSIVEWAKE

%token <i> PARSEOP_SHARETYPE_SHARED
%token <i> PARSEOP_SHARETYPE_SHAREDWAKE
%token <i> PARSEOP_SHIFTLEFT
%token <i> PARSEOP_SHIFTRIGHT
%token <i> PARSEOP_SIGNAL
%token <i> PARSEOP_SIZEOF
%token <i> PARSEOP_SLAVEMODE_CONTROLLERINIT
%token <i> PARSEOP_SLAVEMODE_DEVICEINIT
%token <i> PARSEOP_SLEEP
%token <i> PARSEOP_SPI_SERIALBUS
%token <i> PARSEOP_SPI_SERIALBUS_V2
%token <i> PARSEOP_STALL
%token <i> PARSEOP_STARTDEPENDENTFN
%token <i> PARSEOP_STARTDEPENDENTFN_NOPRI
%token <i> PARSEOP_STOPBITS_ONE
%token <i> PARSEOP_STOPBITS_ONEPLUSHALF
%token
 <i> PARSEOP_STOPBITS_TWO
%token <i> PARSEOP_STOPBITS_ZERO
%token <i> PARSEOP_STORE
%token <s> PARSEOP_STRING_LITERAL
%token <i> PARSEOP_SUBTRACT
%token <i> PARSEOP_SWITCH
%token <i> PARSEOP_THERMALZONE
%token <i> PARSEOP_TIMER
%token <i> PARSEOP_TOBCD
%token <i> PARSEOP_TOBUFFER
%token <i> PARSEOP_TODECIMALSTRING
%token <i> PARSEOP_TOHEXSTRING
%token <i> PARSEOP_TOINTEGER
%token <i> PARSEOP_TOSTRING
%token <i> PARSEOP_TOUUID
%token <i> PARSEOP_TRANSLATIONTYPE_DENSE
%token <i> PARSEOP_TRANSLATIONTYPE_SPARSE
%token <i> PARSEOP_TYPE_STATIC
%token <i> PARSEOP_TYPE_TRANSLATION
%token <i> PARSEOP_UART_SERIALBUS
%token <i> PARSEOP_UART_SERIALBUS_V2
%token <i> PARSEOP_UNICODE
%token <i> PARSEOP_UNLOAD
%token <i> PARSEOP_UPDATERULE_ONES
%token <i> PARSEOP_UPDATERULE_PRESERVE
%token <i> PARSEOP_UPDATERULE_ZEROS
%token <i> PARSEOP_VAR_PACKAGE
%token <i> PARSEOP_VENDORLONG
%token <i> PARSEOP_VENDORSHORT
%token <i> PARSEOP_WAIT
%token <i> PARSEOP_WHILE

%token <i> PARSEOP_WIREMODE_FOUR
%token
 <i> PARSEOP_WIREMODE_THREE
%token <i> PARSEOP_WORDBUSNUMBER
%token <i> PARSEOP_WORDCONST
%token <i> PARSEOP_WORDIO
%token <i> PARSEOP_WORDSPACE
%token <i> PARSEOP_XFERSIZE_8
%token <i> PARSEOP_XFERSIZE_16
%token <i> PARSEOP_XFERSIZE_32
%token <i> PARSEOP_XFERSIZE_64
%token <i> PARSEOP_XFERSIZE_128
%token <i> PARSEOP_XFERSIZE_256
%token <i> PARSEOP_XFERTYPE_8
%token <i> PARSEOP_XFERTYPE_8_16
%token <i> PARSEOP_XFERTYPE_16
%token <i> PARSEOP_XOR
%token <i> PARSEOP_ZERO

/* ToPld macro */

%token <i> PARSEOP_TOPLD
%token <i> PARSEOP_PLD_REVISION
%token <i> PARSEOP_PLD_IGNORECOLOR
%token <i> PARSEOP_PLD_RED
%token <i> PARSEOP_PLD_GREEN
%token <i> PARSEOP_PLD_BLUE
%token <i> PARSEOP_PLD_WIDTH
%token <i> PARSEOP_PLD_HEIGHT
%token <i> PARSEOP_PLD_USERVISIBLE
%token <i> PARSEOP_PLD_DOCK
%token <i> PARSEOP_PLD_LID
%token <i> PARSEOP_PLD_PANEL
%token <i> PARSEOP_PLD_VERTICALPOSITION
%token <i> PARSEOP_PLD_HORIZONTALPOSITION
%token <i> PARSEOP_PLD_SHAPE
%token <i> PARSEOP_PLD_GROUPORIENTATION
%token
 <i> PARSEOP_PLD_GROUPTOKEN
%token <i> PARSEOP_PLD_GROUPPOSITION
%token <i> PARSEOP_PLD_BAY
%token <i> PARSEOP_PLD_EJECTABLE
%token <i> PARSEOP_PLD_EJECTREQUIRED
%token <i> PARSEOP_PLD_CABINETNUMBER
%token <i> PARSEOP_PLD_CARDCAGENUMBER
%token <i> PARSEOP_PLD_REFERENCE
%token <i> PARSEOP_PLD_ROTATION
%token <i> PARSEOP_PLD_ORDER

```
%token <i> PARSEOP_PLD_RESERVED
%token <i> PARSEOP_PLD_VERTICALOFFSET
%token <i> PARSEOP_PLD_HORIZONTALOFFSET

/*
* C-style expression parser. These must appear after all of the
* standard ASL operators and keywords.
*
* Note: The order of these tokens implements the precedence rules
* (low precedence to high). See aslrules.y for an exhaustive list.
*/
%right <i> PARSEOP_EXP_EQUALS
        PARSEOP_EXP_ADD_EQ
        PARSEOP_EXP_SUB_EQ
        PARSEOP_EXP_MUL_EQ
        PARSEOP_EXP_DIV_EQ
        PARSEOP_EXP_MOD_EQ
        PARSEOP_EXP_SHL_EQ
        PARSEOP_EXP_SHR_EQ
        PARSEOP_EXP_AND_EQ
        PARSEOP_EXP_XOR_EQ
         PARSEOP_EXP_OR_EQ

%left <i>  PARSEOP_EXP_LOGICAL_OR
%left <i>  PARSEOP_EXP_LOGICAL_AND
%left <i>  PARSEOP_EXP_OR
%left <i>  PARSEOP_EXP_XOR
%left <i>  PARSEOP_EXP_AND
%left <i>  PARSEOP_EXP_EQUAL
        PARSEOP_EXP_NOT_EQUAL
%left <i>  PARSEOP_EXP_GREATER
        PARSEOP_EXP_LESS
        PARSEOP_EXP_GREATER_EQUAL
        PARSEOP_EXP_LESS_EQUAL
%left <i>  PARSEOP_EXP_SHIFT_RIGHT
        PARSEOP_EXP_SHIFT_LEFT
%left <i>  PARSEOP_EXP_ADD
        PARSEOP_EXP_SUBTRACT
%left <i>  PARSEOP_EXP_MULTIPLY
        PARSEOP_EXP_DIVIDE
        PARSEOP_EXP_MODULO

%right <i> PARSEOP_EXP_NOT
        PARSEOP_EXP_LOGICAL_NOT

%left <i>  PARSEOP_EXP_INCREMENT
        PARSEOP_EXP_DECREMENT
```

```
%left <i>  PARSEOP_OPEN_PAREN
        PARSEOP_CLOSE_PAREN

/* Brackets for Index() support */

%left <i>  PARSEOP_EXP_INDEX_LEFT
%right <i> PARSEOP_EXP_INDEX_RIGHT

/* Macros */

%token <i> PARSEOP_PRINTF
%token <i> PARSEOP_FPRINTF
%token <i> PARSEOP_FOR

/* Structures
 */

%token <i> PARSEOP_STRUCTURE
%token <s> PARSEOP_STRUCTURE_NAMESTRING
%token <i> PARSEOP_STRUCTURE_TAG
%token <i> PARSEOP_STRUCTURE_ELEMENT
%token <i> PARSEOP_STRUCTURE_INSTANCE
%token <i> PARSEOP_STRUCTURE_REFERENCE
%token <i> PARSEOP_STRUCTURE_POINTER

/* Top level */

%token <i> PARSEOP_ASL_CODE


/*******************************************************************************
*
* Tokens below are not in the aslmap.c file
*
*******************************************************************************/


/* Tokens below this are not in the aslmap.c file */

/* Specific parentheses tokens are not used at this time */
        /* PARSEOP_EXP_PAREN_OPEN */
        /* PARSEOP_EXP_PAREN_CLOSE */

/* ASL+ variable creation */

%token <i> PARSEOP_INTEGER_TYPE
%token <i> PARSEOP_STRING_TYPE
%token <i> PARSEOP_BUFFER_TYPE
```

%token <i> PARSEOP_PACKAGE_TYPE
%token <i> PARSEOP_REFERENCE_TYPE

/*
* Special functions. These should probably stay at the end of this
* table.
*/
%token
 <i> PARSEOP___DATE__
%token <i> PARSEOP___FILE__
%token <i> PARSEOP___LINE__
%token <i> PARSEOP___PATH__
%token <i> PARSEOP___METHOD__

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NoEcho('
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* Module Name: aslhelpers.y - helper and option terms
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*****************************************************************************/

')


/******************************************************************************
*
* ASL Helper Terms
*
*****************************************************************************/

OptionalBusMasterKeyword
  : ','                         {$$ = TrCreateLeafOp (
                                    PARSEOP_BUSMASTERTYPE_MASTER);}
  | ',' PARSEOP_BUSMASTERTYPE_MASTER     {$$ = TrCreateLeafOp (
                                    PARSEOP_BUSMASTERTYPE_MASTER);}
```

```
  | ',' PARSEOP_BUSMASTERTYPE_NOTMASTER   {$$ = TrCreateLeafOp
(
                                PARSEOP_BUSMASTERTYPE_NOTMASTER);}
  ;

OptionalAccessAttribTerm
  :                         {$$ = NULL;}
  | ','                     {$$ = NULL;}
  | ',' ByteConstExpr           {$$ = $2;}
  | ',' AccessAttribKeyword     {$$ = $2;}
  ;

OptionalAccessSize
  :                         {$$ = TrCreateValuedLeafOp (
                              PARSEOP_BYTECONST, 0);}
  | ','                     {$$ = TrCreateValuedLeafOp (
                              PARSEOP_BYTECONST, 0);}
  | ',' ByteConstExpr           {$$ = $2;}
  ;

OptionalAccessTypeKeyword   /* Default: AnyAcc */
  :                         {$$ = TrCreateLeafOp (
                              PARSEOP_ACCESSTYPE_ANY);}
  | ','                     {$$ = TrCreateLeafOp (
                              PARSEOP_ACCESSTYPE_ANY);}
  | ',' AccessTypeKeyword       {$$ = $2;}
  ;

OptionalAddressingMode
   : ','                    {$$ = NULL;}
  | ',' AddressingModeKeyword    {$$ = $2;}
  ;

OptionalAddressRange
  :                         {$$ = NULL;}
  | ','                     {$$ = NULL;}
  | ',' AddressKeyword          {$$ = $2;}
  ;

OptionalBitsPerByte
  : ','                     {$$ = NULL;}
  | ',' BitsPerByteKeyword      {$$ = $2;}
  ;

OptionalBuffer_Last
  :                         {$$ = NULL;}
  | ','                     {$$ = NULL;}
  | ',' RawDataBufferTerm       {$$ = $2;}
```

```
  ;

OptionalByteConstExpr
  :                         {$$ = NULL;}
  | ','                     {$$ = NULL;}
  | ',' ByteConstExpr       {$$ = $2;}
  ;

OptionalDecodeType
  : ','                     {$$ = NULL;}
  | ',' DecodeKeyword       {$$ = $2;}
  ;

OptionalDevicePolarity
  : ','                     {$$ = NULL;}
  | ',' DevicePolarityKeyword
 {$$ = $2;}
  ;

OptionalDWordConstExpr
  :                         {$$ = NULL;}
  | ','                     {$$ = NULL;}
  | ',' DWordConstExpr      {$$ = $2;}
  ;

OptionalEndian
  : ','                     {$$ = NULL;}
  | ',' EndianKeyword       {$$ = $2;}
  ;

OptionalFlowControl
  : ','                     {$$ = NULL;}
  | ',' FlowControlKeyword  {$$ = $2;}
  ;

OptionalIoRestriction
  : ','                     {$$ = NULL;}
  | ',' IoRestrictionKeyword {$$ = $2;}
  ;

OptionalListString
  :                         {$$ = TrCreateValuedLeafOp (
                              PARSEOP_STRING_LITERAL,
                              ACPI_TO_INTEGER (""));}   /* Placeholder is a NULL string */
  | ','                     {$$ = TrCreateValuedLeafOp (
                              PARSEOP_STRING_LITERAL,
                              ACPI_TO_INTEGER (""));}
```

```
  /* Placeholder is a NULL string */
  | ',' TermArg                {$$ = $2;}
  ;

OptionalLockRuleKeyword     /* Default: NoLock */
  :                          {$$ = TrCreateLeafOp (
                                PARSEOP_LOCKRULE_NOLOCK);}
  | ','                      {$$ = TrCreateLeafOp (
                                PARSEOP_LOCKRULE_NOLOCK);}
  | ',' LockRuleKeyword          {$$ = $2;}
  ;

OptionalMaxType
  : ','                      {$$ = NULL;}
  | ',' MaxKeyword               {$$ = $2;}
  ;

OptionalMemType
  : ','                      {$$ = NULL;}
  | ',' MemTypeKeyword           {$$ = $2;}
  ;

OptionalMinType
  : ','                      {$$ = NULL;}
  | ',' MinKeyword               {$$ = $2;}
  ;

OptionalNameString
  :                          {$$ = NULL;}
  | ','                      {$$ = NULL;}
  | ',' NameString               {$$ = $2;}
  ;

OptionalNameString_Last
   :                          {$$ = NULL;}
  | ','                      {$$ = NULL;}
  | ',' NameString               {$$ = $2;}
  ;

OptionalNameString_First
  :                          {$$ = TrCreateLeafOp (
                                PARSEOP_ZERO);}
  | NameString                   {$$ = $1;}
  ;

OptionalObjectTypeKeyword
  :                          {$$ = TrCreateLeafOp (
                                PARSEOP_OBJECTTYPE_UNK);}
```

```
  | ',' ObjectTypeKeyword        {$$ = $2;}
  ;

OptionalParityType
  : ','                        {$$ = NULL;}
  | ',' ParityTypeKeyword      {$$ = $2;}
  ;

OptionalQWordConstExpr
  :                            {$$ = NULL;}
  | ','                        {$$ = NULL;}
  | ',' QWordConstExpr         {$$ = $2;}
  ;

OptionalRangeType
  : ','                        {$$ = NULL;}
  | ',' RangeTypeKeyword       {$$ = $2;}
  ;

OptionalReadWriteKeyword
  :
                               {$$ = TrCreateLeafOp (
                                    PARSEOP_READWRITETYPE_BOTH);}
  | PARSEOP_READWRITETYPE_BOTH       {$$ = TrCreateLeafOp (
                                    PARSEOP_READWRITETYPE_BOTH);}
  | PARSEOP_READWRITETYPE_READONLY   {$$ = TrCreateLeafOp (
                                    PARSEOP_READWRITETYPE_READONLY);}
  ;

OptionalResourceType_First
  :                            {$$ = TrCreateLeafOp (
                                  PARSEOP_RESOURCETYPE_CONSUMER);}
  | ResourceTypeKeyword        {$$ = $1;}
  ;

OptionalResourceType
  :                            {$$ = TrCreateLeafOp (
                                  PARSEOP_RESOURCETYPE_CONSUMER);}
  | ','                        {$$ = TrCreateLeafOp (
                                  PARSEOP_RESOURCETYPE_CONSUMER);}
  | ',' ResourceTypeKeyword    {$$ = $2;}
  ;

/* Same as above except default
 is producer */
OptionalProducerResourceType
  :                            {$$ = TrCreateLeafOp (
                                  PARSEOP_RESOURCETYPE_PRODUCER);}
```

```
  | ','                     {$$ = TrCreateLeafOp (
                                PARSEOP_RESOURCETYPE_PRODUCER);}
  | ',' ResourceTypeKeyword       {$$ = $2;}
  ;

OptionalSlaveMode
  : ','                     {$$ = NULL;}
  | ',' SlaveModeKeyword          {$$ = $2;}
  ;

OptionalShareType
  :                         {$$ = NULL;}
  | ','                     {$$ = NULL;}
  | ',' ShareTypeKeyword          {$$ = $2;}
  ;

OptionalShareType_First
  :                         {$$ = NULL;}
  | ShareTypeKeyword              {$$ = $1;}
  ;

OptionalStopBits
  : ','                     {$$ = NULL;}
  | ',' StopBitsKeyword           {$$ = $2;}
  ;

OptionalStringData
  :                         {$$ = NULL;}
  | ','
    {$$ = NULL;}
  | ',' StringData                {$$ = $2;}
  ;

OptionalSyncLevel           /* Default: 0 */
  :                         {$$ = TrCreateValuedLeafOp (
                                PARSEOP_BYTECONST, 0);}
  | ','                     {$$ = TrCreateValuedLeafOp (
                                PARSEOP_BYTECONST, 0);}
  | ',' ByteConstExpr             {$$ = $2;}
  ;

OptionalTranslationType_Last
  :                         {$$ = NULL;}
  | ','                     {$$ = NULL;}
  | ',' TranslationKeyword        {$$ = $2;}
  ;

OptionalType
```

```
  :                         {$$ = NULL;}
  | ','                     {$$ = NULL;}
  | ',' TypeKeyword             {$$ = $2;}
  ;

OptionalType_Last
  :                         {$$ = NULL;}
  | ','                     {$$ = NULL;}
  | ',' TypeKeyword             {$$ = $2;}
  ;

OptionalUpdateRuleKeyword   /* Default: Preserve */

 :                        {$$ = TrCreateLeafOp (
                              PARSEOP_UPDATERULE_PRESERVE);}
  | ','                     {$$ = TrCreateLeafOp (
                              PARSEOP_UPDATERULE_PRESERVE);}
  | ',' UpdateRuleKeyword       {$$ = $2;}
  ;

OptionalWireMode
  : ','                     {$$ = NULL;}
  | ',' WireModeKeyword         {$$ = $2;}
  ;

OptionalWordConstExpr
  : ','                     {$$ = NULL;}
  | ',' WordConstExpr           {$$ = $2;}
  ;

OptionalXferSize
  :                         {$$ = TrCreateValuedLeafOp (
                              PARSEOP_XFERSIZE_32, 2);}
  | ','                     {$$ = TrCreateValuedLeafOp (
                              PARSEOP_XFERSIZE_32, 2);}
  | ',' XferSizeKeyword         {$$ = $2;}
  ;
```

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*****************************************************************************/

#include "aslcompiler.h"
#include "prparser.y.h"

/* Buffer to pass strings to the parser */

#define STRING_SETUP    strcpy (AslGbl_StringBuffer, PrParsertext);\
  PrParserlval.str = AslGbl_StringBuffer

#define _COMPONENT          ACPI_COMPILER
     ACPI_MODULE_NAME    ("prscanner")


/* Local prototypes */

static char
PrDoCommentType1 (
  void);

static char
PrDoCommentType2 (
  void);
%}

%option noyywrap

Number          [0-9a-fA-F]+
```

```
HexNumber       0[xX][0-9a-fA-F]+
WhiteSpace      [ \t\v\r]+
NewLine         [\n]
Identifier      [a-zA-Z][0-9a-zA-Z]*

%%
"/*"
          { if (!PrDoCommentType1 ()) {yyterminate ();} }
"//"          { if (!PrDoCommentType2 ()) {yyterminate ();} }

\(              return (EXPOP_PAREN_OPEN);
\)              return (EXPOP_PAREN_CLOSE);
\~              return (EXPOP_ONES_COMPLIMENT);
\!              return (EXPOP_LOGICAL_NOT);
\*              return (EXPOP_MULTIPLY);
\/              return (EXPOP_DIVIDE);
\%              return (EXPOP_MODULO);
\+              return (EXPOP_ADD);
\-              return (EXPOP_SUBTRACT);
">>"            return (EXPOP_SHIFT_RIGHT);
"<<"            return (EXPOP_SHIFT_LEFT);
\<              return (EXPOP_LESS);
\>              return (EXPOP_GREATER);
"<="            return (EXPOP_LESS_EQUAL);
">="            return (EXPOP_GREATER_EQUAL);
"=="            return (EXPOP_EQUAL);
"!="            return (EXPOP_NOT_EQUAL);
\&              return (EXPOP_AND);
\^              return (EXPOP_XOR);
\|              return (EXPOP_OR);
"&&"            return (EXPOP_LOGICAL_AND);
"||"
          return (EXPOP_LOGICAL_OR);

"defined"       return (EXPOP_DEFINE);
{Identifier}    {STRING_SETUP; return (EXPOP_IDENTIFIER);}

<<EOF>>         return (EXPOP_EOF); /* null end-of-string */

{Number}        return (EXPOP_NUMBER);
{HexNumber}     return (EXPOP_HEX_NUMBER);
{NewLine}       return (EXPOP_NEW_LINE);
{WhiteSpace}    /* Ignore */

.               return (EXPOP_EOF);
%%

/*
```

```
* Local support functions
*/
static YY_BUFFER_STATE        LexBuffer;


/**************************************************************************
*
* FUNCTION:    PrInitLexer
*
* PARAMETERS:  String             - Input string to be parsed
*
* RETURN:      TRUE if parser returns NULL. FALSE otherwise.
*
* DESCRIPTION: Initialization routine for lexer. The lexer needs
*              a buffer to handle strings instead of a file.
*
**************************************************************************/

int
PrInitLexer (
  char                *String)
{

  LexBuffer
 = yy_scan_string (String);
  return (LexBuffer == NULL);
}


/**************************************************************************
*
* FUNCTION:    PrTerminateLexer
*
* PARAMETERS:  None
*
* RETURN:      None
*
* DESCRIPTION: Termination routine for thelexer.
*
**************************************************************************/

void
PrTerminateLexer (
  void)
{

  yy_delete_buffer (LexBuffer);
}
```

```
/*****************************************************************************
*
* FUNCTION:    PrDoCommentType1
*
* PARAMETERS:  none
*
* RETURN:      none
*
* DESCRIPTION: Process a new legacy comment. Just toss it.
*
*****************************************************************************/

static char
PrDoCommentType1 (
  void)
{
  int               c;


Loop:
  while (((c = input ()) != '*') && (c != EOF))
  {
  }
  if (c == EOF)
  {
     return (FALSE);
  }

  if (((c = input ()) != '/') && (c != EOF))
  {
      unput (c);
     goto Loop;
  }
  if (c == EOF)
  {
     return (FALSE);
  }

  return (TRUE);
}


/*****************************************************************************
*
* FUNCTION:    PrDoCommentType2
*
```

```
* PARAMETERS:  none
*
* RETURN:      none
*
* DESCRIPTION: Process a new "//" comment. Just toss it.
*
*****************************************************************************/

static char
PrDoCommentType2 (
  void)
{
  int               c;


  while (((c = input ()) != '\n') && (c != EOF))
  {
  }
  if (c == EOF)
  {
     return (FALSE);
  }

  return (TRUE);
}
```

Found in path(s):
* /acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/prparser.l
No license file was found, but licenses were detected in source scan.

```
%{
/******************************************************************************
*
* Module Name: dtparser.l - Flex input file for table compiler lexer
*
*****************************************************************************/

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*****************************************************************************/

#include "aslcompiler.h"
#include "dtparser.y.h"
```

```
#define YY_NO_INPUT     /* No file input, we use strings only */

#define _COMPONENT          ACPI_COMPILER
      ACPI_MODULE_NAME    ("dtscanner")
%}

%option noyywrap
%option nounput

Number          [0-9a-fA-F]+
HexNumber       0[xX][0-9a-fA-F]+
DecimalNumber   0[dD][0-9]+
LabelRef        $[a-zA-Z][0-9a-zA-Z]*
WhiteSpace      [ \t\v\r]+
NewLine         [\n]

%%

\(              return (OP_EXP_PAREN_OPEN);
\)              return (OP_EXP_PAREN_CLOSE);
\~              return (OP_EXP_ONES_COMPLIMENT);
\!
      return (OP_EXP_LOGICAL_NOT);
\*              return (OP_EXP_MULTIPLY);
\/              return (OP_EXP_DIVIDE);
\%              return (OP_EXP_MODULO);
\+              return (OP_EXP_ADD);
\-              return (OP_EXP_SUBTRACT);
">>"            return (OP_EXP_SHIFT_RIGHT);
"<<"            return (OP_EXP_SHIFT_LEFT);
\<              return (OP_EXP_LESS);
\>              return (OP_EXP_GREATER);
"<="            return (OP_EXP_LESS_EQUAL);
">="            return (OP_EXP_GREATER_EQUAL);
"=="            return (OP_EXP_EQUAL);
"!="            return (OP_EXP_NOT_EQUAL);
\&              return (OP_EXP_AND);
\^              return (OP_EXP_XOR);
\|              return (OP_EXP_OR);
"&&"            return (OP_EXP_LOGICAL_AND);
"||"            return (OP_EXP_LOGICAL_OR);
<<EOF>>         return (OP_EXP_EOF); /* null end-of-string */

{LabelRef}      return (OP_EXP_LABEL);
{Number}        return (OP_EXP_NUMBER);
{HexNumber}     return (OP_EXP_HEX_NUMBER);
{NewLine}       return (OP_EXP_NEW_LINE);
```

```
{WhiteSpace}
   /* Ignore */

.               return (OP_EXP_EOF);

%%

/*
* Local support functions
*/
static YY_BUFFER_STATE        LexBuffer;

/******************************************************************************
*
* FUNCTION:    DtInitLexer, DtTerminateLexer
*
* PARAMETERS:  String              - Input string to be parsed
*
* RETURN:      None
*
* DESCRIPTION: Initialization and termination routines for lexer. Lexer needs
*              a buffer to handle strings instead of a file.
*
******************************************************************************/

int
DtInitLexer (
  char                  *String)
{
  LexBuffer = yy_scan_string (String);
  return (LexBuffer == NULL);
}

void
DtTerminateLexer (
  void)
{
  yy_delete_buffer (LexBuffer);
}
```

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

```
NoEcho('
/******************************************************************************
*
* Module Name: aslresources.y - Bison/Yacc production rules for resources
```

```
*                       - Keep this file synched with the
*                         CvParseOpBlockType function in cvcompiler.c
*
*****************************************************************************/

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*
*****************************************************************************/

')


/*****************************************************************************
*
* ASL Resource Template Terms
*
*****************************************************************************/

/*
* Note: Create two default nodes to allow conversion to a Buffer AML opcode
* Also, insert the EndTag at the end of the template.
*/
ResourceTemplateTerm
  : PARSEOP_RESOURCETEMPLATE      {COMMENT_CAPTURE_OFF;}
      OptionalParentheses
     '{'
     ResourceMacroList '}'       {$$ = TrCreateOp (PARSEOP_RESOURCETEMPLATE,4,
                                    TrCreateLeafOp (PARSEOP_DEFAULT_ARG),
                                    TrCreateLeafOp (PARSEOP_DEFAULT_ARG),
                                    $5,
                                    TrCreateLeafOp (PARSEOP_ENDTAG));
                                 COMMENT_CAPTURE_ON;}
  ;

OptionalParentheses
  :                          {$$ = NULL;}
  | PARSEOP_OPEN_PAREN
     PARSEOP_CLOSE_PAREN         {$$ = NULL;}
  ;

ResourceMacroList
  :                          {$$ = NULL;}
  | ResourceMacroList
     ResourceMacroTerm           {$$ = TrLinkPeerOp ($1,$2);}
  ;
```

```
ResourceMacroTerm
  : DMATerm                    {}
  | DWordIOTerm                {}
  | DWordMemoryTerm            {}
  | DWordSpaceTerm             {}
  | EndDependentFnTerm
  {}
  | ExtendedIOTerm             {}
  | ExtendedMemoryTerm         {}
  | ExtendedSpaceTerm          {}
  | FixedDmaTerm               {}
  | FixedIOTerm                {}
  | GpioIntTerm                {}
  | GpioIoTerm                 {}
  | I2cSerialBusTerm           {}
  | I2cSerialBusTermV2         {}
  | InterruptTerm              {}
  | IOTerm                     {}
  | IRQNoFlagsTerm             {}
  | IRQTerm                    {}
  | Memory24Term               {}
  | Memory32FixedTerm          {}
  | Memory32Term               {}
  | PinConfigTerm              {}
  | PinFunctionTerm            {}
  | PinGroupTerm               {}
  | PinGroupConfigTerm         {}
  | PinGroupFunctionTerm       {}
  | QWordIOTerm                {}
  | QWordMemoryTerm            {}
  | QWordSpaceTerm             {}
  | RegisterTerm               {}
  | SpiSerialBusTerm
        {}
  | SpiSerialBusTermV2         {}
  | StartDependentFnNoPriTerm  {}
  | StartDependentFnTerm       {}
  | UartSerialBusTerm          {}
  | UartSerialBusTermV2        {}
  | VendorLongTerm             {}
  | VendorShortTerm            {}
  | WordBusNumberTerm          {}
  | WordIOTerm                 {}
  | WordSpaceTerm              {}
  ;

DMATerm
```

```
  : PARSEOP_DMA
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_DMA);}
    DMATypeKeyword
    OptionalBusMasterKeyword
    ',' XferTypeKeyword
    OptionalNameString_Last
    PARSEOP_CLOSE_PAREN '{'
      ByteList '}'              {$$ = TrLinkOpChildren ($<n>3,5,$4,$5,$7,$8,$11);}
  | PARSEOP_DMA
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

DWordIOTerm
  : PARSEOP_DWORDIO
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_DWORDIO);}
    OptionalResourceType_First
     OptionalMinType
    OptionalMaxType
    OptionalDecodeType
    OptionalRangeType
    ',' DWordConstExpr
    ',' DWordConstExpr
    ',' DWordConstExpr
    ',' DWordConstExpr
    ',' DWordConstExpr
    OptionalByteConstExpr
    OptionalStringData
    OptionalNameString
    OptionalType
    OptionalTranslationType_Last
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,15,
                          $4,$5,$6,$7,$8,$10,$12,$14,$16,$18,$19,$20,$21,$22,$23);}
  | PARSEOP_DWORDIO
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

DWordMemoryTerm
  : PARSEOP_DWORDMEMORY
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_DWORDMEMORY);}
    OptionalResourceType_First
    OptionalDecodeType
    OptionalMinType
    OptionalMaxType
    OptionalMemType
    ',' OptionalReadWriteKeyword
    ','
```

```
DWordConstExpr
    ',' DWordConstExpr
    ',' DWordConstExpr
    ',' DWordConstExpr
    ',' DWordConstExpr
    OptionalByteConstExpr
    OptionalStringData
    OptionalNameString
    OptionalAddressRange
    OptionalType_Last
    PARSEOP_CLOSE_PAREN        {$$ = TrLinkOpChildren ($<n>3,16,
                               $4,$5,$6,$7,$8,$10,$12,$14,$16,$18,$20,$21,$22,$23,$24,$25);}
  | PARSEOP_DWORDMEMORY
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

DWordSpaceTerm
  : PARSEOP_DWORDSPACE
    PARSEOP_OPEN_PAREN         {$<n>$ = TrCreateLeafOp (PARSEOP_DWORDSPACE);}
    ByteConstExpr              {UtCheckIntegerRange ($4, 0xC0, 0xFF);}
    OptionalResourceType
    OptionalDecodeType
    OptionalMinType
    OptionalMaxType
    ',' ByteConstExpr
    ',' DWordConstExpr
    ',' DWordConstExpr
    ',' DWordConstExpr
    ',' DWordConstExpr
     ',' DWordConstExpr
    OptionalByteConstExpr
    OptionalStringData
    OptionalNameString_Last
    PARSEOP_CLOSE_PAREN        {$$ = TrLinkOpChildren ($<n>3,14,
                               $4,$6,$7,$8,$9,$11,$13,$15,$17,$19,$21,$22,$23,$24);}
  | PARSEOP_DWORDSPACE
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

EndDependentFnTerm
  : PARSEOP_ENDDEPENDENTFN
    PARSEOP_OPEN_PAREN
    PARSEOP_CLOSE_PAREN        {$$ = TrCreateLeafOp (PARSEOP_ENDDEPENDENTFN);}
  | PARSEOP_ENDDEPENDENTFN
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
```

```
  ;

ExtendedIOTerm
  : PARSEOP_EXTENDEDIO
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_EXTENDEDIO);}
      OptionalResourceType_First
      OptionalMinType
      OptionalMaxType
      OptionalDecodeType
      OptionalRangeType
      ',' QWordConstExpr
      ',' QWordConstExpr
       ',' QWordConstExpr
      ',' QWordConstExpr
      ',' QWordConstExpr
      OptionalQWordConstExpr
      OptionalNameString
      OptionalType
      OptionalTranslationType_Last
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,14,
                                  $4,$5,$6,$7,$8,$10,$12,$14,$16,$18,$19,$20,$21,$22);}
  | PARSEOP_EXTENDEDIO
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

ExtendedMemoryTerm
  : PARSEOP_EXTENDEDMEMORY
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_EXTENDEDMEMORY);}
      OptionalResourceType_First
      OptionalDecodeType
      OptionalMinType
      OptionalMaxType
      OptionalMemType
      ',' OptionalReadWriteKeyword
      ',' QWordConstExpr
      ',' QWordConstExpr
      ',' QWordConstExpr
      ',' QWordConstExpr
      ',' QWordConstExpr
      OptionalQWordConstExpr
      OptionalNameString

     OptionalAddressRange
      OptionalType_Last
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,15,
                                  $4,$5,$6,$7,$8,$10,$12,$14,$16,$18,$20,$21,$22,$23,$24);}
  | PARSEOP_EXTENDEDMEMORY
```

```
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

ExtendedSpaceTerm
  : PARSEOP_EXTENDEDSPACE PARSEOP_OPEN_PAREN     {$<n>$ = TrCreateLeafOp
(PARSEOP_EXTENDEDSPACE);}
    ByteConstExpr             {UtCheckIntegerRange ($4, 0xC0, 0xFF);}
    OptionalResourceType
    OptionalDecodeType
    OptionalMinType
    OptionalMaxType
    ',' ByteConstExpr
    ',' QWordConstExpr
    ',' QWordConstExpr
    ',' QWordConstExpr
    ',' QWordConstExpr
    ',' QWordConstExpr
    OptionalQWordConstExpr
    OptionalNameString_Last
    PARSEOP_CLOSE_PAREN                    {$$ = TrLinkOpChildren ($<n>3,13,
                        $4,$6,$7,$8,$9,$11,$13,$15,$17,$19,$21,$22,$23);}
  | PARSEOP_EXTENDEDSPACE
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN                {$$ = AslDoError(); yyclearin;}
  ;

FixedDmaTerm
  : PARSEOP_FIXEDDMA
    PARSEOP_OPEN_PAREN        {$<n>$ = TrCreateLeafOp (PARSEOP_FIXEDDMA);}
    WordConstExpr             /* 04: DMA RequestLines */
    ',' WordConstExpr         /* 06: DMA Channels */
    OptionalXferSize          /* 07: DMA TransferSize */
    OptionalNameString        /* 08: DescriptorName */
    PARSEOP_CLOSE_PAREN                    {$$ = TrLinkOpChildren ($<n>3,4,$4,$6,$7,$8);}
  | PARSEOP_FIXEDDMA
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN                {$$ = AslDoError(); yyclearin;}
  ;

FixedIOTerm
  : PARSEOP_FIXEDIO
    PARSEOP_OPEN_PAREN        {$<n>$ = TrCreateLeafOp (PARSEOP_FIXEDIO);}
    WordConstExpr
    ',' ByteConstExpr
    OptionalNameString_Last
```

```
  PARSEOP_CLOSE_PAREN                   {$$ = TrLinkOpChildren ($<n>3,3,$4,$6,$7);}
  | PARSEOP_FIXEDIO
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN             {$$ = AslDoError(); yyclearin;}
  ;

GpioIntTerm
  : PARSEOP_GPIO_INT
      PARSEOP_OPEN_PAREN        {$<n>$ = TrCreateLeafOp (PARSEOP_GPIO_INT);}
      InterruptTypeKeyword      /* 04: InterruptType */
      ',' InterruptLevel        /* 06: InterruptLevel */
      OptionalShareType         /* 07: SharedType */
      ',' PinConfigByte         /* 09: PinConfig */
      OptionalWordConstExpr     /* 10: DebounceTimeout */
      ',' StringData            /* 12: ResourceSource */
      OptionalByteConstExpr     /* 13: ResourceSourceIndex */
      OptionalResourceType      /* 14: ResourceType */
      OptionalNameString        /* 15: DescriptorName */
      OptionalBuffer_Last       /* 16: VendorData */
      PARSEOP_CLOSE_PAREN '{'
        DWordConstExpr
  '}'   {$$ = TrLinkOpChildren ($<n>3,11,
                          $4,$6,$7,$9,$10,$12,$13,$14,$15,$16,$19);}
  | PARSEOP_GPIO_INT
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

GpioIoTerm
  : PARSEOP_GPIO_IO
      PARSEOP_OPEN_PAREN        {$<n>$ = TrCreateLeafOp (PARSEOP_GPIO_IO);}
      OptionalShareType_First   /* 04: SharedType */
      ',' PinConfigByte         /* 06: PinConfig */
      OptionalWordConstExpr     /* 07: DebounceTimeout */
      OptionalWordConstExpr     /* 08: DriveStrength */
      OptionalIoRestriction     /* 09: IoRestriction */
      ',' StringData            /* 11: ResourceSource */
      OptionalByteConstExpr     /* 12: ResourceSourceIndex */
      OptionalResourceType      /* 13: ResourceType */
      OptionalNameString        /* 14: DescriptorName */
      OptionalBuffer_Last       /* 15: VendorData */
      PARSEOP_CLOSE_PAREN '{'
        DWordList '}'           {$$ = TrLinkOpChildren ($<n>3,11,
                          $4,$6,$7,$8,$9,$11,$12,$13,$14,$15,$18);}
  | PARSEOP_GPIO_IO
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN             {$$ = AslDoError(); yyclearin;}
  ;
```

```
I2cSerialBusTerm
  : PARSEOP_I2C_SERIALBUS
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_I2C_SERIALBUS);}
    WordConstExpr               /* 04: SlaveAddress */
    OptionalSlaveMode           /* 05: SlaveMode */
    ',' DWordConstExpr          /* 07: ConnectionSpeed */
    OptionalAddressingMode      /* 08: AddressingMode */
    ',' StringData              /* 10: ResourceSource */
    OptionalByteConstExpr       /* 11: ResourceSourceIndex */
    OptionalResourceType        /* 12: ResourceType */
    OptionalNameString          /* 13: DescriptorName */
    OptionalBuffer_Last         /* 14: VendorData */
    PARSEOP_CLOSE_PAREN
 {$$ = TrLinkOpChildren ($<n>3,10,
                         $4,$5,$7,$8,$10,$11,$12,$13,
                         TrCreateLeafOp (PARSEOP_DEFAULT_ARG),$14);}
  | PARSEOP_I2C_SERIALBUS
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

I2cSerialBusTermV2
  : PARSEOP_I2C_SERIALBUS_V2
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_I2C_SERIALBUS_V2);}
    WordConstExpr               /* 04: SlaveAddress */
    OptionalSlaveMode           /* 05: SlaveMode */
    ',' DWordConstExpr          /* 07: ConnectionSpeed */
    OptionalAddressingMode      /* 08: AddressingMode */
    ',' StringData              /* 10: ResourceSource */
    OptionalByteConstExpr       /* 11: ResourceSourceIndex */
    OptionalResourceType        /* 12: ResourceType */
    OptionalNameString          /* 13: DescriptorName */
    OptionalShareType           /* 14: Share */

   OptionalBuffer_Last          /* 15: VendorData */
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,10,
                         $4,$5,$7,$8,$10,$11,$12,$13,$14,$15);}
  | PARSEOP_I2C_SERIALBUS_V2
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

InterruptTerm
  : PARSEOP_INTERRUPT
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_INTERRUPT);}
    OptionalResourceType_First
    ',' InterruptTypeKeyword
```

```
      ',' InterruptLevel
      OptionalShareType
      OptionalByteConstExpr
      OptionalStringData
      OptionalNameString_Last
      PARSEOP_CLOSE_PAREN '{'
        DWordList '}'          {$$ = TrLinkOpChildren ($<n>3,8,
                                $4,$6,$8,$9,$10,$11,$12,$15);}
    | PARSEOP_INTERRUPT
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
    ;

IOTerm
    : PARSEOP_IO
      PARSEOP_OPEN_PAREN
        {$<n>$ = TrCreateLeafOp (PARSEOP_IO);}
      IODecodeKeyword
      ',' WordConstExpr
      ',' WordConstExpr
      ',' ByteConstExpr
      ',' ByteConstExpr
      OptionalNameString_Last
      PARSEOP_CLOSE_PAREN        {$$ = TrLinkOpChildren ($<n>3,6,$4,$6,$8,$10,$12,$13);}
    | PARSEOP_IO
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
    ;

IRQNoFlagsTerm
    : PARSEOP_IRQNOFLAGS
      PARSEOP_OPEN_PAREN         {$<n>$ = TrCreateLeafOp (PARSEOP_IRQNOFLAGS);}
      OptionalNameString_First
      PARSEOP_CLOSE_PAREN '{'
        ByteList '}'           {$$ = TrLinkOpChildren ($<n>3,2,$4,$7);}
    | PARSEOP_IRQNOFLAGS
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
    ;

IRQTerm
    : PARSEOP_IRQ
      PARSEOP_OPEN_PAREN         {$<n>$ = TrCreateLeafOp (PARSEOP_IRQ);}
      InterruptTypeKeyword
      ',' InterruptLevel
      OptionalShareType
       OptionalNameString_Last
      PARSEOP_CLOSE_PAREN '{'
```

```
        ByteList '}'            {$$ = TrLinkOpChildren ($<n>3,5,$4,$6,$7,$8,$11);}
  | PARSEOP_IRQ
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

Memory24Term
  : PARSEOP_MEMORY24
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_MEMORY24);}
      OptionalReadWriteKeyword
      ',' WordConstExpr
      ',' WordConstExpr
      ',' WordConstExpr
      ',' WordConstExpr
      OptionalNameString_Last
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,6,$4,$6,$8,$10,$12,$13);}
  | PARSEOP_MEMORY24
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

Memory32FixedTerm
  : PARSEOP_MEMORY32FIXED
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_MEMORY32FIXED);}
      OptionalReadWriteKeyword
      ',' DWordConstExpr
      ',' DWordConstExpr
       OptionalNameString_Last
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,4,$4,$6,$8,$9);}
  | PARSEOP_MEMORY32FIXED
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

Memory32Term
  : PARSEOP_MEMORY32
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_MEMORY32);}
      OptionalReadWriteKeyword
      ',' DWordConstExpr
      ',' DWordConstExpr
      ',' DWordConstExpr
      ',' DWordConstExpr
      OptionalNameString_Last
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,6,$4,$6,$8,$10,$12,$13);}
  | PARSEOP_MEMORY32
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;
```

```
PinConfigTerm
  : PARSEOP_PINCONFIG
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_PINCONFIG);}
      OptionalShareType_First     /* 04: SharedType */
      ',' ByteConstExpr           /* 06: PinConfigType */
      ','
   DWordConstExpr          /* 08: PinConfigValue */
      ',' StringData              /* 10: ResourceSource */
      OptionalByteConstExpr       /* 11: ResourceSourceIndex */
      OptionalResourceType        /* 12: ResourceType */
      OptionalNameString          /* 13: DescriptorName */
      OptionalBuffer_Last         /* 14: VendorData */
      PARSEOP_CLOSE_PAREN '{'
         DWordList '}'            {$$ = TrLinkOpChildren ($<n>3,9,
                                  $4,$6,$8,$10,$11,$12,$13,$14,$17);}
    | PARSEOP_PINCONFIG
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
    ;

PinFunctionTerm
  : PARSEOP_PINFUNCTION
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_PINFUNCTION);}
      OptionalShareType_First     /* 04: SharedType */
      ',' PinConfigByte           /* 06: PinConfig */
      ',' WordConstExpr           /* 08: FunctionNumber */
      ',' StringData              /* 10: ResourceSource
   */
      OptionalByteConstExpr       /* 11: ResourceSourceIndex */
      OptionalResourceType        /* 12: ResourceType */
      OptionalNameString          /* 13: DescriptorName */
      OptionalBuffer_Last         /* 14: VendorData */
      PARSEOP_CLOSE_PAREN '{'
         DWordList '}'            {$$ = TrLinkOpChildren ($<n>3,9,
                                  $4,$6,$8,$10,$11,$12,$13,$14,$17);}
    | PARSEOP_PINFUNCTION
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
    ;

PinGroupTerm
  : PARSEOP_PINGROUP
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_PINGROUP);}
      StringData                  /* 04: ResourceLabel */
      OptionalProducerResourceType /* 05: ResourceType */
      OptionalNameString          /* 06: DescriptorName */
      OptionalBuffer_Last         /* 07: VendorData */
```

```
      PARSEOP_CLOSE_PAREN '{'
        DWordList '}'          {$$ = TrLinkOpChildren
($<n>3,5,$4,$5,$6,$7,$10);}
  | PARSEOP_PINGROUP
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

PinGroupConfigTerm
  : PARSEOP_PINGROUPCONFIG
      PARSEOP_OPEN_PAREN         {$<n>$ = TrCreateLeafOp (PARSEOP_PINGROUPCONFIG);}
      OptionalShareType_First     /* 04: SharedType */
      ',' ByteConstExpr           /* 06: PinConfigType */
      ',' DWordConstExpr          /* 08: PinConfigValue */
      ',' StringData              /* 10: ResourceSource */
      OptionalByteConstExpr       /* 11: ResourceSourceIndex */
      ',' StringData              /* 13: ResourceSourceLabel */
      OptionalResourceType        /* 14: ResourceType */
      OptionalNameString          /* 15: DescriptorName */
      OptionalBuffer_Last         /* 16: VendorData */
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,9,
                                  $4,$6,$8,$10,$11,$13,$14,$15,$16);}
  | PARSEOP_PINGROUPCONFIG
       PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

PinGroupFunctionTerm
  : PARSEOP_PINGROUPFUNCTION
      PARSEOP_OPEN_PAREN         {$<n>$ = TrCreateLeafOp (PARSEOP_PINGROUPFUNCTION);}
      OptionalShareType_First     /* 04: SharedType */
      ',' WordConstExpr           /* 06: FunctionNumber */
      ',' StringData              /* 08: ResourceSource */
      OptionalByteConstExpr       /* 09: ResourceSourceIndex */
      ',' StringData              /* 11: ResourceSourceLabel */
      OptionalResourceType        /* 12: ResourceType */
      OptionalNameString          /* 13: DescriptorName */
      OptionalBuffer_Last         /* 14: VendorData */
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,8,
                                  $4,$6,$8,$9,$11,$12,$13,$14);}
  | PARSEOP_PINGROUPFUNCTION
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError();
yyclearin;}
  ;

QWordIOTerm
  : PARSEOP_QWORDIO
```

```
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_QWORDIO);}
    OptionalResourceType_First
    OptionalMinType
    OptionalMaxType
    OptionalDecodeType
    OptionalRangeType
    ',' QWordConstExpr
    ',' QWordConstExpr
    ',' QWordConstExpr
    ',' QWordConstExpr
    ',' QWordConstExpr
    OptionalByteConstExpr
    OptionalStringData
    OptionalNameString
    OptionalType
    OptionalTranslationType_Last
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,15,
                            $4,$5,$6,$7,$8,$10,$12,$14,$16,$18,$19,$20,$21,$22,$23);}
  | PARSEOP_QWORDIO
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

QWordMemoryTerm
  : PARSEOP_QWORDMEMORY
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_QWORDMEMORY);}
    OptionalResourceType_First
     OptionalDecodeType
    OptionalMinType
    OptionalMaxType
    OptionalMemType
    ',' OptionalReadWriteKeyword
    ',' QWordConstExpr
    ',' QWordConstExpr
    ',' QWordConstExpr
    ',' QWordConstExpr
    ',' QWordConstExpr
    OptionalByteConstExpr
    OptionalStringData
    OptionalNameString
    OptionalAddressRange
    OptionalType_Last
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,16,
                            $4,$5,$6,$7,$8,$10,$12,$14,$16,$18,$20,$21,$22,$23,$24,$25);}
  | PARSEOP_QWORDMEMORY
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;
```

```
QWordSpaceTerm
  : PARSEOP_QWORDSPACE
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_QWORDSPACE);}
    ByteConstExpr               {UtCheckIntegerRange ($4, 0xC0, 0xFF);}
    OptionalResourceType
    OptionalDecodeType
    OptionalMinType

  OptionalMaxType
    ',' ByteConstExpr
    ',' QWordConstExpr
    ',' QWordConstExpr
    ',' QWordConstExpr
    ',' QWordConstExpr
    ',' QWordConstExpr
    OptionalByteConstExpr
    OptionalStringData
    OptionalNameString_Last
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,14,
                                $4,$6,$7,$8,$9,$11,$13,$15,$17,$19,$21,$22,$23,$24);}
  | PARSEOP_QWORDSPACE
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

RegisterTerm
  : PARSEOP_REGISTER
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_REGISTER);}
    AddressSpaceKeyword
    ',' ByteConstExpr
    ',' ByteConstExpr
    ',' QWordConstExpr
    OptionalAccessSize
    OptionalNameString_Last
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,6,$4,$6,$8,$10,$11,$12);}
  | PARSEOP_REGISTER
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN
  {$$ = AslDoError(); yyclearin;}
  ;

SpiSerialBusTerm
  : PARSEOP_SPI_SERIALBUS
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_SPI_SERIALBUS);}
    WordConstExpr               /* 04: DeviceSelection */
    OptionalDevicePolarity      /* 05: DevicePolarity */
    OptionalWireMode            /* 06: WireMode */
```

```
    ',' ByteConstExpr          /* 08: DataBitLength */
    OptionalSlaveMode          /* 09: SlaveMode */
    ',' DWordConstExpr         /* 11: ConnectionSpeed */
    ',' ClockPolarityKeyword   /* 13: ClockPolarity */
    ',' ClockPhaseKeyword      /* 15: ClockPhase */
    ',' StringData             /* 17: ResourceSource */
    OptionalByteConstExpr      /* 18: ResourceSourceIndex */
    OptionalResourceType       /* 19: ResourceType */
    OptionalNameString         /* 20: DescriptorName */
    OptionalBuffer_Last        /* 21: VendorData */
    PARSEOP_CLOSE_PAREN
   {$$ = TrLinkOpChildren ($<n>3,14,
                           $4,$5,$6,$8,$9,$11,$13,$15,$17,$18,$19,$20,
                           TrCreateLeafOp (PARSEOP_DEFAULT_ARG),$21);}
  | PARSEOP_SPI_SERIALBUS
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

SpiSerialBusTermV2
  : PARSEOP_SPI_SERIALBUS_V2
    PARSEOP_OPEN_PAREN         {$<n>$ = TrCreateLeafOp (PARSEOP_SPI_SERIALBUS_V2);}
    WordConstExpr              /* 04: DeviceSelection */
    OptionalDevicePolarity     /* 05: DevicePolarity */
    OptionalWireMode           /* 06: WireMode */
    ',' ByteConstExpr          /* 08: DataBitLength */
    OptionalSlaveMode          /* 09: SlaveMode */
    ',' DWordConstExpr         /* 11: ConnectionSpeed */
    ',' ClockPolarityKeyword   /* 13: ClockPolarity */
    ',' ClockPhaseKeyword      /* 15: ClockPhase */
    ',' StringData             /* 17: ResourceSource
*/
    OptionalByteConstExpr      /* 18: ResourceSourceIndex */
    OptionalResourceType       /* 19: ResourceType */
    OptionalNameString         /* 20: DescriptorName */
    OptionalShareType          /* 21: Share */
    OptionalBuffer_Last        /* 22: VendorData */
    PARSEOP_CLOSE_PAREN        {$$ = TrLinkOpChildren ($<n>3,14,
                           $4,$5,$6,$8,$9,$11,$13,$15,$17,$18,$19,$20,$21,$22);}
  | PARSEOP_SPI_SERIALBUS_V2
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

StartDependentFnNoPriTerm
  : PARSEOP_STARTDEPENDENTFN_NOPRI
    PARSEOP_OPEN_PAREN         {$<n>$ = TrCreateLeafOp (PARSEOP_STARTDEPENDENTFN_NOPRI);}
    PARSEOP_CLOSE_PAREN '{'
```

```
    ResourceMacroList '}'       {$$ = TrLinkOpChildren ($<n>3,1,$6);}
  | PARSEOP_STARTDEPENDENTFN_NOPRI
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}

;

StartDependentFnTerm
  : PARSEOP_STARTDEPENDENTFN
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_STARTDEPENDENTFN);}
    ByteConstExpr
    ',' ByteConstExpr
    PARSEOP_CLOSE_PAREN '{'
    ResourceMacroList '}'       {$$ = TrLinkOpChildren ($<n>3,3,$4,$6,$9);}
  | PARSEOP_STARTDEPENDENTFN
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

UartSerialBusTerm
  : PARSEOP_UART_SERIALBUS
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_UART_SERIALBUS);}
    DWordConstExpr              /* 04: ConnectionSpeed */
    OptionalBitsPerByte         /* 05: BitsPerByte */
    OptionalStopBits            /* 06: StopBits */
    ',' ByteConstExpr           /* 08: LinesInUse */
    OptionalEndian              /* 09: Endianness */
    OptionalParityType          /* 10: Parity */
    OptionalFlowControl         /* 11: FlowControl */
    ',' WordConstExpr
     /* 13: Rx BufferSize */
    ',' WordConstExpr           /* 15: Tx BufferSize */
    ',' StringData              /* 17: ResourceSource */
    OptionalByteConstExpr       /* 18: ResourceSourceIndex */
    OptionalResourceType        /* 19: ResourceType */
    OptionalNameString          /* 20: DescriptorName */
    OptionalBuffer_Last         /* 21: VendorData */
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,15,
                                $4,$5,$6,$8,$9,$10,$11,$13,$15,$17,$18,$19,$20,
                                TrCreateLeafOp (PARSEOP_DEFAULT_ARG),$21);}
  | PARSEOP_UART_SERIALBUS
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

UartSerialBusTermV2
  : PARSEOP_UART_SERIALBUS_V2
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_UART_SERIALBUS_V2);}
```

```
    DWordConstExpr              /* 04: ConnectionSpeed */
    OptionalBitsPerByte
     /* 05: BitsPerByte */
    OptionalStopBits            /* 06: StopBits */
    ',' ByteConstExpr           /* 08: LinesInUse */
    OptionalEndian              /* 09: Endianness */
    OptionalParityType          /* 10: Parity */
    OptionalFlowControl         /* 11: FlowControl */
    ',' WordConstExpr           /* 13: Rx BufferSize */
    ',' WordConstExpr           /* 15: Tx BufferSize */
    ',' StringData              /* 17: ResourceSource */
    OptionalByteConstExpr       /* 18: ResourceSourceIndex */
    OptionalResourceType        /* 19: ResourceType */
    OptionalNameString          /* 20: DescriptorName */
    OptionalShareType           /* 21: Share */
    OptionalBuffer_Last         /* 22: VendorData */
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,15,
                            $4,$5,$6,$8,$9,$10,$11,$13,$15,$17,$18,$19,$20,$21,$22);}
  | PARSEOP_UART_SERIALBUS_V2
    PARSEOP_OPEN_PAREN
     error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

VendorLongTerm
  : PARSEOP_VENDORLONG
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_VENDORLONG);}
    OptionalNameString_First
    PARSEOP_CLOSE_PAREN '{'
       ByteList '}'             {$$ = TrLinkOpChildren ($<n>3,2,$4,$7);}
  | PARSEOP_VENDORLONG
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

VendorShortTerm
  : PARSEOP_VENDORSHORT
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_VENDORSHORT);}
    OptionalNameString_First
    PARSEOP_CLOSE_PAREN '{'
       ByteList '}'             {$$ = TrLinkOpChildren ($<n>3,2,$4,$7);}
  | PARSEOP_VENDORSHORT
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

WordBusNumberTerm
  : PARSEOP_WORDBUSNUMBER
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_WORDBUSNUMBER);}
```

```
      OptionalResourceType_First
      OptionalMinType
      OptionalMaxType
      OptionalDecodeType
      ',' WordConstExpr
      ',' WordConstExpr
      ',' WordConstExpr
      ',' WordConstExpr
      ',' WordConstExpr
      OptionalByteConstExpr
      OptionalStringData
      OptionalNameString_Last
      PARSEOP_CLOSE_PAREN        {$$ = TrLinkOpChildren ($<n>3,12,
                                 $4,$5,$6,$7,$9,$11,$13,$15,$17,$18,$19,$20);}
    | PARSEOP_WORDBUSNUMBER
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
    ;

WordIOTerm
    : PARSEOP_WORDIO
      PARSEOP_OPEN_PAREN         {$<n>$ = TrCreateLeafOp (PARSEOP_WORDIO);}
      OptionalResourceType_First
      OptionalMinType
      OptionalMaxType
      OptionalDecodeType
      OptionalRangeType
      ',' WordConstExpr
      ',' WordConstExpr
      ',' WordConstExpr
      ',' WordConstExpr
      ',' WordConstExpr
      OptionalByteConstExpr
      OptionalStringData
      OptionalNameString
      OptionalType
      OptionalTranslationType_Last
      PARSEOP_CLOSE_PAREN        {$$ = TrLinkOpChildren ($<n>3,15,
                                 $4,$5,$6,$7,$8,$10,$12,$14,$16,$18,$19,$20,$21,$22,$23);}
    | PARSEOP_WORDIO
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
    ;

WordSpaceTerm
    : PARSEOP_WORDSPACE
      PARSEOP_OPEN_PAREN         {$<n>$ = TrCreateLeafOp (PARSEOP_WORDSPACE);}
      ByteConstExpr              {UtCheckIntegerRange ($4, 0xC0, 0xFF);}
```

```
    OptionalResourceType
    OptionalDecodeType
    OptionalMinType
    OptionalMaxType
    ',' ByteConstExpr
    ',' WordConstExpr
    ',' WordConstExpr
    ',' WordConstExpr
    ',' WordConstExpr
    ',' WordConstExpr
    OptionalByteConstExpr
    OptionalStringData
    OptionalNameString_Last
    PARSEOP_CLOSE_PAREN
      {$$ = TrLinkOpChildren ($<n>3,14,
                          $4,$6,$7,$8,$9,$11,$13,$15,$17,$19,$21,$22,$23,$24);}
  | PARSEOP_WORDSPACE
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;
```

Found in path(s):
* /acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/aslresources.y
No license file was found, but licenses were detected in source scan.

---

05 January 2021. Summary of changes for version 20210105:

This release is available at https://acpica.org/downloads

1) ACPICA kernel-resident subsystem:

Updated all copyrights to 2021. This affects all ACPICA source code
modules.

2) iASL Compiler/Disassembler and ACPICA tools:

ASL test suite (ASLTS): Updated all copyrights to 2021.

Tools and utilities: Updated all signon copyrights to 2021.

iASL Table Compiler: Removed support for obsolete ACPI tables: VRTC,
MTMR. Al Stone.

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17 December 2020. Summary of changes for version 20201217:

This release is available at https://acpica.org/downloads

1) ACPICA kernel-resident subsystem:

Note: The implementation of ACPI 6.4 is underway, and is expected to be
mostly finished next month, when ACPI 6.4 is released.

From qzed:- fixed-ae-class-macros. Fix exception code class checks. Added

several new macros, such as ACPI_CNTL_EXCEPTION(Status) in order to
enable this.

AcpiExec/iASL/AcpiHelp: Added a few changes for support of GCC 10.2.0.
These included a few casts, as well as a null pointer check.

Fix -Wfallthrough: GCC 7.1 gained -Wimplicit-fallthrough to warn on
implicit fallthrough, as well as __attribute__((__fallthrough__)) and
comments to explicitly denote that cases of fallthrough were intentional.
Clang also supports this warning and statement attribute, but not the
comment form. Added a new macro, ACPI_FALLTHROUGH to support this feature
of GCC. With assistance from @nickdesaulniers.

2) iASL Compiler/Disassembler and ACPICA tools:

Added improvement to method call analysis by saving the return type and
relaxing certain cases of type checking.

iASL Table Compiler: Improved info messages. Added a message to the -T
option for when the default template (DSDT) is used.
Also added a note for when multiple SSDTs are created with a DSDT that
the SSDTs
 are created in the same file as the DSDT.

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13 November 2020. Summary of changes for version 20201113:

This release is available at https://acpica.org/downloads

1) ACPICA kernel-resident subsystem:

Interpreter: fixed a memory leak by using use existing buffer in _HID
repair. There was a memory leak that occurred when a _CID object is
defined as a package containing string objects. When _CID is checked for

any possible repairs, it calls a helper function to repair _HID (because _CID basically contains multiple _HID entries). The _HID repair function assumes that string objects are standalone objects that are not contained inside of any packages. The _HID repair function replaced the string object with a brand new object and attempted to delete the old object by decrementing the reference count of the old object. Strings inside of packages have a reference count of 2 so the _HID repair function leaves this object in a dangling state
and causes a memory leak. Instead of
allocating a brand new object and removing the old object, use the existing object when repairing the _HID object.

Added function trace macros to improve namespace debugging. The namespace repair mechanism does not have function tracing macros. Add several trace macros to improve debuggability.

Handle "orphan" _REG methods for GPIO OpRegions. Before this change AcpiEvExecuteRegMethods() had special handling to handle "orphan" (no matching OpRegion declared) _REG methods for EC nodes. On Intel Cherry Trail devices there are 2 possible ACPI OpRegions for accessing GPIOs. The standard GeneralPurposeIo OpRegion and the Cherry Trail - specific UserDefined 0x9X OpRegions. Having 2 different types of OpRegions leads to potential issues with checks for OpRegion availability, or in other words checks if _REG has been called for the OpRegion which the ACPI code wants to use. Except for the "orphan" EC handling, ACPICA core does not call _REG
on an ACPI node which does not define an OpRegion matching the type being registered; and the reference design DSDT, from which most Cherry Trail DSDTs are derived, does not define GeneralPurposeIo, nor UserDefined(0x93) OpRegions for the GPO2 (UID 3) device, because no pins were assigned ACPI controlled functions in the reference design. Together this leads to the perfect storm, at least on the Cherry Trail based Medion Akayo E1239T. This design does use a GPO2 pin from its ACPI code and has added the Cherry Trail specific UserDefined(0x93) opregion to its GPO2 ACPI node to access this pin. But it uses a "has _REG been called" availability check for the standard GeneralPurposeIo OpRegion. This clearly is a bug in the DSDT, but this does work under Windows. This issue leads to the intel vbtn driver reporting the device always being in tablet-mode at boot, even if it is in laptop mode. Which in turn causes userspace to ignore touchpad events. So in other words, this issue
causes
the touchpad to not work at boot. This change fixes this by extending the "orphan" _REG method handling to also apply to GPIO address-space handlers.

2) iASL Compiler/Disassembler and ACPICA tools:

iASL: Added more info to namespace dump file (-ln option). In a separate
section of the dump file (after the main namespace dump), emit the full
pathname for each namespace node, its type, and the ASL filename and line
number where it is declared.

AcpiHelp: Added an option to display/decode iASL exceptions. Option is: -
x [Hex Value] where "Hex Value" is the iASL exception code. If Hex Value
is omitted, all iASL exceptions are displayed.

iASL: Use StringLiteral instead of StringData for some ASL macros. The
use of the stringData rule allows for some "string" oriented opcodes
(Such as ToString, ToHexString, etc.) None of which make sense with the
macros in question. This change modifies the StringData part of the rule
for these macros to a simple string literal - thus
disallowing the use
of ToString, ToHexString, etc.
The following ASL operators (macros) are affected:
EisaId
Fprintf
Printf
ToUuid
Unicode
Note: The MS compiler requires the use of string literals for these
operators also.

iASL: Added a remark for an unknown UUID: ASL_MSG_UUID_NOT_FOUND. Search
the list of "known" UUIDs for the input to the ToUUID macro.

Added 5 new UUIDs to the known UUID table. All related to NVDIMM and the
NFIT table.

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25 September 2020. Summary of changes for version 20200925:

This release is available at https://acpica.org/downloads

1) ACPICA kernel-resident subsystem:

Preserve memory opregion mappings. The ACPICA's strategy with respect to
the handling of memory mappings associated with memory operation regions
is to avoid mapping the entire region at once which may be problematic at
least in principle (for example, it may lead to conflicts with
overlapping mappings having different attributes created by
drivers). It
may also be wasteful, because memory opregions on some systems take up

vastchunks of address space while the fields in those regions actually
accessed by AML are sparsely distributed.

For this reason, a one-page "window" is mapped for a given opregion on
the first memory access through it and if that "window" does not cover an
address range accessed through that opregion subsequently, it is unmapped
and a new "window" is mapped to replace it. Next, if the new "window" is
not sufficient to access memory through the opregion in question in the
future, it will be replaced with yet another "window" and so on. That
may lead to a suboptimal sequence of memory mapping and unmapping
operations, for example if two fields in one opregion separated from each
other by a sufficiently wide chunk of unused address space are accessed
in an alternating pattern.

Added support for 64 bit risc-v compilation. Useful for acpica tools and
incorporating ACPICA into the Firmware
 Test Suite. Colin Ian King
<colin.king@canonical.com>.

Added support for SMBus predefined names (from SMBus Control Method
Interface Specification, Version 1.0, December 10, 1999. New predefined
names:
  _SBA
  _SBI
  _SBR
  _SBT
  _SBW

AML Disassembler: Added a new command, "All <NameSeg>". This command will
evaluate all objects in the current namespace whose NameString contains
the input NameSeg as the last element of the NameString. Useful for
debugging.

2) iASL Compiler/Disassembler and ACPICA tools:

iASL: fixed a crash that occurred when predefined objects return packages
with lengths that exceed the initializer list.

iASL: added more detail to external resolution error message when
compiling multiple definition blocks.

iASL: added a remark for an attempt to create a nameseg or namestring
containing lower-case letters. This should prevent declaring multiple
namesegs or namestrings in an attempt to refer to different objects (with
different cases), but
 actually refer to the same object(s).

iASL: improve alias analysis by saving object type. If the alias is a
method type, the parameter count is also recorded.

AcpiExec: Increase the default loop timeout value. Was 1 second, is now
10 seconds. Prevents unnecessary timeouts when executing control methods
from the command line.

AcpiHelp/disassembler: Added a bunch of "known" UUIDs to the internal
list. Includes:
  Memory Device
  Generic Buttons Device
  NVDIMM Root Device
  Control Method Battery
  Device Graphs for _DSD method
  Hierarchical Data Extension
....ARM CoreSight Graph

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17 July 2020. Summary of changes for version 20200717:

This release is available at https://acpica.org/downloads

1) ACPICA kernel-resident subsystem:

Do not increment OperationRegion reference counts for field units. Recent
server firmware has revealed that this reference count can overflow on
large servers that declare many field units (thousands)
 under the same
OperationRegion. This occurs because each field unit declaration will add
a reference count to the source OperationRegion. This release solves the
reference count overflow for OperationRegion objects by preventing
fieldUnits from incrementing their parent OperationRegion's reference
count.

Replaced one-element arrays with flexible-arrays, which were introduced
in C99.

Restored the readme file containing the directions for generation of
ACPICA from source on MSVC 2017. Updated the file for MSVC 2017. File is
located at: generate/msvc2017/readme.txt

2) iASL Compiler/Disassembler and ACPICA tools:

iASL: Fixed a regression found in version 20200214. Prevent iASL from
emitting an extra byte of garbage data when control methods declared a

single parameter type without using braces. This extra byte is known to
cause a blue screen on the Windows AML interpreter.

iASL: Made a change to allow external declarations to specify the type of
a named object even
 when some name segments are not defined.
This change allows the following ASL code to compile (When DEV0 is not
defined or not defined yet):

```
  External (\_SB.DEV0.OBJ1, IntObj)
  External (\_SB.DEV0, DeviceObj)
```

iASL: Fixed a problem where method names in "Alias ()" statement could be
misinterpreted. They are now interpreted correctly as method invocations.

iASL: capture a method parameter count (Within the Method info segment,
as well as the argument node) when using parameter type lists.

---

28 May 2020. Summary of changes for version 20200528:

1) ACPICA kernel-resident subsystem:

Removed old/obsolete Visual Studio files which were used to build the
Windows versions of the ACPICA tools. Since we have moved to Visual
Studio 2017, we are no longer supporting Visual Studio 2006 and 2009
project files. The new subdirectory and solution file are located at:

```
  acpica/generate/msvc2017/AcpiComponents.sln
```

2) iASL Compiler/Disassembler
 and ACPICA tools:

iASL: added support for a new OperationRegion Address Space (subtype):
PlatformRtMechanism. Support for this new keyword is being released for
early prototyping. It will appear in the next release of the ACPI
specification.

iASL: do not optimize the NameString parameter of the CondRefOf operator.
In the previous iASL compiler release, the NameString parameter of the
CondRefOf was optimized. There is evidence that some implementations of
the AML interpreter do not perform the recursive search-to-parent search
during the execution of the CondRefOf operator. Therefore, the CondRefOf
operator behaves differently when the NameString parameter is a single

name segment (a NameSeg) as opposed to a full NamePath (starting at the
root scope) or a NameString containing parent prefixes.

iASL: Prevent an inadvertent remark message. This change prevents a
remark if within a control method the following exist:
1) An Operation Region is defined, and
2) A Field operator
 is defined that refers to the region.
This happens because at the top level, the Field operator does not
actually create a new named object, it simply references the operation
region.

Removed support for the acpinames utility. The acpinames was a simple
utility used to populate and display the ACPI namespace without executing
any AML code. However, ACPICA now supports executable opcodes outside of
control methods. This means that executable AML opcodes such as If and
Store opcodes need to be executed during table load. Therefore, acpinames
would need to be updated to match the same behavior as the acpiexec
utility and since acpiexec can already dump the entire namespace (via the
'namespace' command), we no longer have the need to maintain acpinames.

  In order to dump the contents of the ACPI namespace using acpiexec,
execute the following command from the command line:

    acpiexec -b "n" [aml files]

---

30 April 2020. Summary
 of changes for version 20200430:

1) ACPICA kernel-resident subsystem:

Cleaned up the coding style of a couple of global variables
(AcpiGbl_NextCmdNum and AcpiProtocolLengths) caught by static analyzers.
AcpiProtocolLengths was made static, and the definition of
AcpiGbl_NextCmdNum was moved to acglobal.h.

2) iASL Compiler/Disassembler and ACPICA tools:

iASL DataTable Compiler: Fixed a segfault on errors that aren't directly
associated with a field.

Disassembler: has been made more resilient so that it will continue to
parse AML even if the AML generates ACPI namespace errors. This enables
iASL to disassemble some AML that may have been compiled using older

versions of iASL that no longer compile with newer versions of iASL.

iASL: Fixed the required parameters for _NIH and _NIG. Previously, there was a mixup where _NIG required one parameter and _NIH required zero parameters. This change swaps these parameter requirements. Now it is required that _NIH must be called
with one parameter and _NIG requires
zero parameters.

iASL: Allow use of undefined externals as long as they are protected by an if (CondRefOf (...)) block when compiling multiple definition blocks.

iASL: Fixed the type override behavior of named objects that are declared as External. External declarations will no longer override the type of the actual definition if it already exists.

AcpiNames: Added setargv.obj to the MSVC 2017 link sequence to enable command line wildcard support on Windows. Note: the AcpiNames utility is essentially redundant with the AcpiExec utility (using the "namespace" command) and is therefore deprecated. It will be removed in future releases of ACPICA.

Disassembler: ignore AE_ALREADY_EXISTS status when parsing create* operators. The disassembler is intended to emit existing ASL code as-is. Therefore, error messages emitted during disassembly should be ignored or handled in a way such that the disassembler can continue to parse the AML. This
change ignores AE_ALREADY_EXISTS errors during the deferred Op parsing for create operators in order to complete parsing ASL termlists.

iASL DataTable Compiler: IVRS table: fix potentially uninitialized variable warning. Some compilers catch potential uninitialized variables. This is done by examining branches of if/else statements. This change replaces an "else if" with an "else" to fix the uninitialized variable warning.

---
26 March 2020. Summary of changes for version 20200326:

1) ACPICA kernel-resident subsystem:

Performed a code clean-up to prevent build errors on early versions of GCC-10.

Added the NHLT table signature. iASL data table compiler/disassembler support for this table is coming soon.

2) iASL Compiler/Disassembler and ACPICA tools:

AcpiExec: Fixed several problems with the namespace initialization file
(-fi<filename> option). Includes fixes to prevent AE_ALREADY_EXISTS
errors, several seg faults, and enhancements
 to line parsing within the
init file. In addition, each object found in the init file and it's new
value is displayed, as well as any such entries that do not have a
corresponding name in the namespace. For reference, the syntax for the
various supported data types are presented below:
 PCHG 0x777788889999BBBB // Integer
 \DEV1.STR1 "XYZ"   // String
 BUF1 (88 99 AA)   // Buffer
 PKG1 [0x1111 0x2222] // Package
 \BF1 0x7980   // BufferField
 RCRV 0x0123456789ABCDEF // Field Unit

iASL: Added a custom iASL macro __EXPECT__(iASL-Error-Code). This macro
can be used anywhere in a given ASL file to configure iASL to expect an
iASL compiler error code on the line where this macro was placed. If the
error code does not exist, an error is generated. This is intended to be
used for ACPICA's ASL test suite, but can be used by ASL developers as
well.

iASL: table compiler: Implemented IVRS IVHD type 11h parsing. The AMD
IVRS table parsing supported only IVHD type 10h structures.
 Parsing an
IVHD type 11h caused the iasl to report unknown subtable type. Add
necessary structure definition for IVHD type 11h and apply correct
parsing method based on subtable type. Micha? ?ygowski.

iASL: table compiler: Fixed IVRS table IVHD type 10h reserved field name
According to AMD IOMMU Specification Revision 3.05 the reserved field
should be IOMMU Feature Reporting. Change the name of the field to the
correct one. Micha? ?ygowski.

acpiexec: removed redeclaration of AcpiGbl_DbOpt_NoRegionSupport. Patch
based on suggestions by David Seifert and Benjamin Berg.

iASL: table compiler: removed an unused variable (DtCompilerParserResult)
causing linking errors. Patch based on suggestions by David Seifert and
Benjamin Berg.

iASL: table compiler: make LexBuffer static to avoid linking errors in
newer compilers. Patch based on suggestions by David Seifert and Benjamin
Berg.

iASL: fixed type matching between External and Named objects. External
object types can only be expressed
 with ACPI object type values that are
defined in the ACPI spec. However, iASL uses ACPI object type values that
are local to ACPICA in addition to the values defined in the ACPI spec.
This change implements type matching to map some object type values
specific to ACPICA to ones that are defined in the ACPI spec.

iASL: Dropped the type mismatch compiler error that can arise from
External declarations to a warning. This warning can occur when there is
a type difference between the external declaration and the actual object
declaration (when compiling multiple files/modules simultaneously).

iASL: removed an incorrect error message regarding externals. This change
removes an incorrect error that is emitted when a duplicate external
declaration does not contain a type that opens a scope. This is incorrect
because the duplicate external with conflicting types are already caught
by iASL and it doesn't make any sense to enforce what this conflicting
type should be.

AcpiXtract:
 fix AX_IS_TABLE_BLOCK_HEADER macro. This macro needs to be
surrounded by parens. Otherwise, a logical statement that applies a
logical not operator to this macro could result in a computation that
applies the operator to the left side of the logical and but not the
right. Reported-by: John Levon <john.levon@joyent.com>

Fixed a problem with the local version of sprint(): On 32-bit, the
provided sprintf() is non-functional: with a size of ACPI_UINT32_MAX,
String + Size will wrap, meaning End < Start, and
AcpiUtBoundStringOutput() will never output anything as a result. The
symptom seen of this was acpixtract failing to output anything -- with a
custom build that included utprint.c. Signed-off-by: John Levon
<john.levon@joyent.com>

iASL: Changed the "PlatformCommChannel" ASL keyword to "PCC", as per the
ACPI specification.

---
14 February 2020. Summary of changes for version 20200214:

1) ACPICA kernel-resident subsystem:

Enable

sleep button on ACPI legacy wake: Hibernation (S4) is triggered
in a guest when it receives a sleep trigger from the hypervisor. When the
guest resumes from this power state, it does not see the SleepEnabled
bit. In other words, the sleepHibernation (S4) is triggered in a guest
when it receives a sleep trigger from the hypervisor. When the guest
resumes from this power state, it does not see the SleepEnabled bit. In
other words, the sleep button is not enabled on waking from an S4 state.
This causes subsequent invocation of sleep state to fail since the
guest.button is not enabled on waking from an S4 state. This causes
subsequent invocation of sleep state to fail in the guest. Fix this
problem by enabling the sleep button in ACPI legacy wake. From Anchal
Agarwal <anchalag@amazon.com>.

Implemented a new external interface, AcpiAnyGpeStatusSet (). To be used
for checking the status bits of all enabled GPEs in one go. It is needed
to distinguish spurious SCIs from genuine
ones when deciding whether or
not to wake up the system from suspend-to-idle.

Generic Makefiles: replace HOST name with ACPI_HOST: Some machines may be
using HOST in their environment to represent the host name for their
machines. Avoid this problem by renaming this variable from HOST to
ACPI_HOST.

MSVC 2017 project files: Enable multiprocessor generation to improve
build performance.

Added a macro to get the byte width of a Generic Address structure. New
ACPI_ACCESS_BYTE_WIDTH is in addition to the existing
ACPI_ACCESS_BIT_WIDTH. From Mika Westerberg.

2) iASL Compiler/Disassembler and ACPICA tools:

iASL: Implemented full support for the (optional, rarely used) ReturnType
and ParameterTypesList for the Method, Function, and External operators.
For Method declarations, the number of individual ParameterTypes must
match the declaration of the number of arguments (NumArgs). This also
Fixes a problem with the External operator where extra/extraneous bytes
were emitted
in the AML code if the optional ReturnType/ParameterTypes
were specified for a MethodObj declaration.
New error message:
1) Method NumArgs count does not match length of ParameterTypes list

iASL: Implemented detection of type mismatches between External
declarations and named object declarations. Also, detect type mismatches
between multiple External declarations of the same Name.

New error messages:
1) Type mismatch between external declaration and actual object
declaration detected
2) Type mismatch between multiple external declarations detected

iASL: Implemented new error messages for External operators that specify
a ReturnType and/or ParameterTypesList for any object type other than
control methods (MethodObj).
New error messages:
1) Return type is only allowed for Externals declared as MethodObj
2) Parameter type is only allowed for Externals declared as MethodObj

iASL: Implemented two new remark/warning messages for ASL code that
creates named objects from within a control
method. This is very
inefficient since the named object must be created and deleted each time
the method is executed.
New messages:
1) Creation of named objects within a method is highly inefficient, use
globals or method local variables instead (remark)
2) Static OperationRegion should be declared outside control method
(warning)

iASL: Improved illegal forward reference detection by adding support to
detect forward-reference method invocations.

iASL: Detect and issue an error message for NameStrings that contain too
many individual NameSegs (>255). This is an AML limitation that is
defined in the ACPI specification.
New message:
1) NameString contains too many NameSegs (>255)

acpidump: windows: use GetSystemFirmwareTable API for all tables except
SSDT. By using this API, acpidump is able to get all tables in the XSDT

iASL: Removed unused parser file and updated msvc2017 project files.
Removed the obsolete AslCompiler.y from the repository.

iASL: msvc2017: Fixed macros
in the file dependency list to prevent
unnecessary rebuilds. Replace %(Directory) with %(RelativeDir).

Disassembler: Prevent spilling error messages to the output file. All
errors are directed to the console instead. These error messages
prevented re-compilation of the resulting disassembled ASL output file
(.DSL).

---
10 January 2020. Summary of changes for version 20200110:

1) ACPICA kernel-resident subsystem:

Updated all copyrights to 2020. This affects all ACPICA source code modules.

2) iASL Compiler/Disassembler and ACPICA tools:

ASL test suite (ASLTS): Updated all copyrights to 2020.

Tools and utilities: Updated all signon copyrights to 2020.

iASL: fix forward reference analysis for field declarations. Fixes forward reference analysis for field declarations by searching the parent scope for the named object when the object is not present in the current scope.

iASL: Improved the error output for ALREADY_EXISTS errors. Now, the
full pathname of the name that already exists is printed.

iASL: Enhance duplicate Case() detection for buffers. Add check for buffers with no initializer list (these buffers will be filled with zeros at runtime.)

---
13 December 2019. Summary of changes for version 20191213:

1) ACPICA kernel-resident subsystem:

Return a Buffer object for all fields created via the CreateField operator. Previously, an Integer would be returned if the size of the field was less than or equal to the current size of an Integer. Although this goes against the ACPI specification, it provides compatibility with other ACPI implementations. Also updated the ASLTS test suite to reflect this new behavior.

2) iASL Compiler/Disassembler and ACPICA tools:

iASL: Implemented detection of (and throw an error for) duplicate values for Case statements within a single Switch statement. Duplicate Integers, Strings, and Buffers are supported.

iASL: Fix error logging issue
during multiple file compilation --
Switch to the correct input file during error node creation.

iASL: For duplicate named object creation, now emit an error instead
of a warning - since this will cause a runtime error.

AcpiSrc: Add unix line-ending support for non-Windows builds.

iASL: Add an error condition for an attempt to create a NameString
with > 255 NameSegs (the max allowable via the AML definition).

---
18 October 2019. Summary of changes for version 20191018:

1) ACPICA kernel-resident subsystem:

Debugger: added a new command: ?Fields [address space ID]?. This command
dumps the contents of all field units that are defined within the
namespace with a particular address space ID.

Modified the external interface AcpiLoadTable() to return a table index.
This table index can be used for unloading a table for debugging.

```
  ACPI_STATUS
  AcpiLoadTable (
     ACPI_TABLE_HEADER      *Table,
     UINT32                 *TableIndex))
```

Implemented
a new external interface: AcpiUnloadTable() This new function
takes a table index as an argument and unloads the table. Useful for
debugging only.

```
  ACPI_STATUS
  AcpiUnloadTable (
     UINT32                 TableIndex))
```

Ported the AcpiNames utility to use the new table initialization
sequence. The utility was broken before this change. Also, it was
required to include most of the AML interpreter into the utility in order
to process table initialization (module-level code execution.)

Update for results from running Clang V8.0.1. This fixes all "dead
assignment" warnings. There are still several "Dereference of NULL
pointer" warnings, but these have been found to be false positive
warnings.

2) iASL Compiler/Disassembler and ACPICA tools:

iASL: numerous table compiler changes to ensure that the usage of
yacc/bison syntax is POSIX-compliant.

iASL/disassembler: several simple bug fixes in the data table
disassembler.

Acpiexec: expanded the initialization
file (the -fi option) to initialize
strings, buffers, packages, and field units.

---

16 August 2019. Summary of changes for version 20190816:

This release is available at https://acpica.org/downloads

1) ACPICA kernel-resident subsystem:

Modified the OwnerId mechanism to allow for more Owner Ids. The previous
limit was 256 Ids, now it is 4096 Ids. This prevents OWNER_ID_LIMIT
exceptions on machines with a large number of initialization threads,
many CPU cores and nested initialization control methods.

Introduced acpi_dispatch_gpe() as a wrapper around AcpiEvDetectGpe() for
checking if the given GPE (as represented by a GPE device handle and a
GPE number) is currently active and dispatching it (if that's the case)
outside of interrupt context.

Table load: exit the interpreter before initializing objects within the
new table This prevents re-acquiring the interpreter lock when loading
tables

Added the "Windows 2019" string
to the _OSI support (version 1903). Jung-
uk Kim

Macros: removed pointer math on a null pointer. Causes warnings on some
compilers and/or tools. Changed ACPI_TO_POINTER to use ACPI_CAST_PTR
instead of using arithmetic.

Fully deployed the ACPI_PRINTF_LIKE macro. This macro was not being used
across all "printf-like" internal functions. Also, cleanup all calls to
such functions (both in 32-bit mode and 64-bit mode) now that they are

analyzed by the gcc compiler via ACPI_PRINTF_LIKE.

2) iASL Compiler/Disassembler and ACPICA tools:

iASL: implemented a new data table compiler flex/bison front-end. This change is internal and is not intended to result in changes to the compiled code. This new compiler front-end can be invoked using the -tp option for now, until the old mechanism is removed.

ASLTS: Implemented a new data table compiler test suite. This test suite generates all table templates and compile/disassemble/re-compile/binary-compare each file.

iASL: return -1 if
AML files were not generated due to compiler errors

iASL: added a warning on use of the now-legacy ASL Processor () keyword.

iASL: added an error on _UID object declaration that returns a String within a Processor () declaration. A _UID for a processor must be an Integer.

iASL: added a null terminator to name strings that consist only of multiple parent prefixes (^)

iASL: added support to compile both ASL and data table files in a single command.

Updated the tool generation project files that were recently migrated to MSVC 2017 to eliminate all new warnings. The new project files appear in the directory \acpica\generate\msvc2017. This change effectively deprecates the older project files in \acpica\generate\msvc9.

---
03 July 2019. Summary of changes for version 20190703:

1) ACPICA kernel-resident subsystem:

Remove legacy module-level support code. There were still some remnants of the legacy module-level code executions. Since we
no longer support
this option, this is essentially dead code and has been removed from the ACPICA source.

iASL: ensure that _WAK, _PTS, _TTS, and _Sx are declared only at the root

scope. If these named objects are declared outside the root scope, they
will not be invoked by any host Operating System.

Clear status of GPEs on first direct enable. ACPI GPEs (other than the EC
one) can be enabled in two situations. First, the GPEs with existing _Lxx
and _Exx methods are enabled implicitly by ACPICA during system
initialization. Second, the GPEs without these methods (like GPEs listed
by _PRW objects for wakeup devices) need to be enabled directly by the
code that is going to use them (e.g. ACPI power management or device
drivers).

In the former case, if the status of a given GPE is set to start with,
its handler method (either _Lxx or _Exx) needs to be invoked to take care
of the events (possibly) signaled before the GPE was enabled. In the
latter case, however, the first
 caller of AcpiEnableGpe() for a given GPE
should not be expected to care about any events that might be signaled
through it earlier. In that case, it is better to clear the status of
the GPE before enabling it, to prevent stale events from triggering
unwanted actions (like spurious system resume, for example).

For this reason, modify AcpiEvAddGpeReference() to take an additional
boolean argument indicating whether or not the GPE status needs to be
cleared when its reference counter changes from zero to one and make
AcpiEnableGpe() pass TRUE to it through that new argument.

2) iASL Compiler/Disassembler and ACPICA tools:

The tool generation process has been migrated to MSVC 2017, and all
project files have been upgraded. The new project files appear in the
directory \acpica\generate\msvc2017. This change effectively deprecates
the older project files in \acpica\generate\msvc9.

iASL: ensure that _WAK, _PTS, _TTS, and _Sx are declared only at the root
scope. If these named
 objects are declared outside the root scope, they
will not be invoked by any host Operating System

---
09 May 2019. Summary of changes for version 20190509:

1) ACPICA kernel-resident subsystem:

Revert commit 6c43e1a ("ACPICA: Clear status of GPEs before enabling
them") that causes problems with Thunderbolt controllers to occur if a
dock device is connected at init time (the xhci_hcd and thunderbolt

modules crash which prevents peripherals connected through them from
working). Commit 6c43e1a effectively causes commit ecc1165b8b74 ("ACPICA:
Dispatch active GPEs at init time") to get undone, so the problem
addressed by commit ecc1165b8b74 appears again as a result of it.

2) iASL Compiler/Disassembler and ACPICA tools:

Reverted iASL: Additional forward reference detection. This change
reverts forward reference detection for field declarations. The feature
unintentionally emitted AML bytecode with incorrect package lengths for
some ASL
code related to Fields and OperationRegions. This malformed AML
can cause systems to crash
during boot. The malformed AML bytecode is emitted in iASL version
20190329 and 20190405.

iASL: improve forward reference detection. This change improves forward
reference detection for named objects inside of scopes. If a parse object
has the OP_NOT_FOUND_DURING_LOAD set, it means that Op is a reference to
a named object that is declared later in the AML bytecode. This is
allowed if the reference is inside of a method and the declaration is
outside of a method like so:

```
DefinitionBlock(...)
{
  Method (TEST)
  {
     Return (NUM0)
  }
  Name (NUM0,0)
}
```

However, if the declaration and reference are both in the same method or
outside any methods, this is a forward reference and should be marked as
an error because it would result in runtime errors.

```
DefinitionBlock(...)
{
  Name (BUFF, Buffer (NUM0) {}) // Forward reference
  Name (NUM0, 0x0)

  Method (TEST)
  {

     Local0 = NUM1
     Name (NUM1, 0x1) // Forward reference
     return (Local0)
```

```
  }
}
```

iASL: Implemented additional buffer overflow analysis for BufferField declarations. Check if a buffer index argument to a create buffer field operation is beyond the end of the target buffer.

This affects these AML operators:

```
 AML_CREATE_FIELD_OP
 AML_CREATE_BIT_FIELD_OP
 AML_CREATE_BYTE_FIELD_OP
 AML_CREATE_WORD_FIELD_OP
 AML_CREATE_DWORD_FIELD_OP
 AML_CREATE_QWORD_FIELD_OP
```

There are three conditions that must be satisfied in order to allow this validation at compile time:

```
 1) The length of the target buffer must be an integer constant
 2) The index specified in the create* must be an integer constant
 3) For CreateField, the bit length argument must be non-zero.
```

Example:

```
  Name (BUF1, Buffer() {1,2})
  CreateField (BUF1, 7, 9, CF03)  // 3: ERR

dsdt.asl    14:    CreateField (BUF1, 7, 9, CF03)  // 3: ERR
Error   6165 -                     ^ Buffer
 index beyond end of
target buffer
```

---

05 April 2019. Summary of changes for version 20190405:

1) ACPICA kernel-resident subsystem:

Event Manager: History: Commit 18996f2db918 ("ACPICA: Events: Stop unconditionally clearing ACPI IRQs during suspend/resume") was added earlier to stop clearing of event status bits unconditionally on suspend and resume paths. Though this change fixed an issue on suspend path, it introduced regressions on several resume paths. In the case of S0ix, events are enabled as part of device suspend path. If status bits for the events are set when they are enabled, it could result in premature wake from S0ix. If status is cleared for any event that is being enabled so that any stale events are cleared out. In case of S0ix, events are

enabled as part of device suspend path. If status bits for the events are
set when they are enabled, it could result in premature wake from S0ix.

This change ensures that status
 is cleared for any event that is being
enabled so that any stale events are cleared out.

2) iASL Compiler/Disassembler and ACPICA tools:

iASL: Implemented an enhanced multiple file compilation that combines
named objects from all input files to a single namespace. With this
feature, any unresolved external declarations as well as duplicate named
object declarations can be detected during compilation rather than
generating errors much later at runtime. The following commands are
examples that utilize this feature:
  iasl dsdt.asl ssdt.asl
  iasl dsdt.asl ssdt1.asl ssdt2.asl
  iasl dsdt.asl ssdt*.asl

---
29 March 2019. Summary of changes for version 20190329:

1) ACPICA kernel-resident subsystem:

Namespace support: Remove the address nodes from global list after method
termination. The global address list contains pointers to namespace nodes
that represent Operation Regions. This change properly removes Operation
Region namespace
 nodes that are declared dynamically during method
execution.

Linux: Use a different debug default than ACPICA. There was a divergence
between Linux and the ACPICA codebases. In order to resolve this
divergence, Linux now declares its own debug default in aclinux.h

Renamed some internal macros to improve code understanding and
maintenance. The macros below all operate on single 4-character ACPI
NameSegs, not generic strings (old -> new):
  ACPI_NAME_SIZE   -> ACPI_NAMESEG_SIZE
  ACPI_COMPARE_NAME -> ACPI_COMPARE_NAMESEG
  ACPI_MOVE_NAME   -> ACPI_COPY_NAMESEG

Fix for missing comma in array declaration for the AcpiGbl_GenericNotify
table.

Test suite: Update makefiles, add PCC operation region support

2) iASL Compiler/Disassembler and Tools:

iASL: Implemented additional illegal forward reference detection. Now
detect and emit an error upon detection of a forward reference from a
Field to an Operation Region. This will fail at runtime if allowed to
pass the compiler.

AcpiExec:
Add an address list check for dynamic Operation Regions. This
feature performs a sanity test for each node the global address list.
This is done in order to ensure that all dynamic operation regions are
properly removed from the global address list and no dangling pointers
are left behind.

Disassembler: Improved generation of resource pathnames. This change
improves the code that generates resource descriptor and resource tag
pathnames. The original code used a bunch of str* C library functions
that caused warnings on some compilers.

iASL: Removed some uses of strncpy and replaced with memmove. The strncpy
function can overwrite buffers if the calling code is not very careful.
In the case of generating a module/table header, use of memmove is a
better implementation.

3) Status of new features that have not been completed at this time:

iASL: Implementing an enhanced multiple file compilation into a single
namespace feature (Status): This feature will be released
soon, and
allows multiple ASL files to be compiled into the same single namespace.
By doing so, any unresolved external declarations as well as duplicate
named object declarations can be detected during compilation (rather than
later during runtime). The following commands are examples that utilize
this feature:
iasl dsdt.asl ssdt.asl
iasl dsdt.asl ssdt1.asl ssdt2.asl
iasl dsdt.asl ssdt*.asl

ASL tutorial status: Feedback is being gathered internally and the
current plan is to publish this tutorial on the ACPICA website after a
final review by a tech writer.

---
15 February 2019. Summary of changes for version 20190215:

0) Support for ACPI specification version 6.3:

Add PCC operation region support for the AML interpreter. This adds PCC operation region support in the AML interpreter and a default handler for acpiexec. The change also renames the PCC region address space keyword to PlatformCommChannel.

Support for new
predefined methods _NBS, _NCH, _NIC, _NIH, and _NIG.
These methods provide OSPM with health information and device boot status.

PDTT: Add TriggerOrder to the PCC Identifier structure. The field value defines if the trigger needs to be invoked by OSPM before or at the end of kernel crash dump processing/handling operation.

SRAT: Add Generic Affinity Structure subtable. This subtable in the SRAT is used for describing devices such as heterogeneous processors, accelerators, GPUs, and IO devices with integrated compute or DMA engines.

MADT: Add support for statistical profiling in GICC. Statistical profiling extension (SPE) is an architecture-specific feature for ARM.

MADT: Add online capable flag. If this bit is set, system hardware supports enabling this processor during OS runtime.

New Error Disconnect Recover Notification value. There are a number of scenarios where system Firmware in collaboration with hardware may disconnect one or more devices from the rest of the system
for purposes
of error containment. Firmware can use this new notification value to alert OSPM of such a removal.

PPTT: New additional fields in Processor Structure Flags. These flags provide more information about processor topology.

NFIT/Disassembler: Change a field name from "Address Range" to "Region Type".

HMAT updates: make several existing fields to be reserved as well as rename subtable 0 to "memory proximity domain attributes".

GTDT: Add support for new GTDT Revision 3. This revision adds information for the EL2 timer.

iASL: Update the HMAT example template for new fields.

iASL: Add support for the new revision of the GTDT (Rev 3).

1) ACPICA kernel-resident subsystem:

AML Parser: fix the main AML parse loop to correctly skip erroneous extended opcodes. AML opcodes come in two lengths: 1-byte opcodes and 2-byte extended opcodes. If an error occurs during an AML table load, the AML parser will continue loading the table by skipping the offending opcode. This
implements a "load table at any cost" philosophy.

2) iASL Compiler/Disassembler and Tools:

iASL: Add checks for illegal object references, such as a reference outside of method to an object within a method. Such an object is only temporary.

iASL: Emit error for creation of a zero-length operation region. Such a region is rather pointless. If encountered, a runtime error is also implemented in the interpreter.

Debugger: Fix a possible fault with the "test objects" command.

iASL: Makefile: support parent directory filenames containing embedded spaces.

iASL: Update the TPM2 template to revision 4.

iASL: Add the ability to report specific warnings or remarks as errors.

Disassembler: Disassemble OEMx tables as actual AML byte code. Previously, these tables were treated as "unknown table".

iASL: Add definition and disassembly for TPM2 revision 3.

iASL: Add support for TPM2 rev 3 compilation.

---

08 January 2019. Summary of changes for
version 20190108:

1) ACPICA kernel-resident subsystem:

Updated all copyrights to 2019. This affects all source code modules.

2) iASL Compiler/Disassembler and Tools:

ASL test suite (ASLTS): Updated all copyrights to 2019.

Tools: Updated all signon copyrights to 2019.

AcpiExec: Added a new option to dump extra information concerning any
memory leaks detected by the internal object/cache tracking mechanism. -
va

iASL: Updated the table template for the TPM2 table to the newest version
of the table (Revision 4)

---
13 December 2018. Summary of changes for version 20181213:

1) ACPICA Kernel-resident Subsystem:

Fixed some buffer length issues with the GenericSerialBus, related to two
of the bidirectional protocols: AttribRawProcessBytes and AttribRawBytes,
which are rarely seen in the field. For these, the LEN field of the ASL
buffer is now ignored. Hans de Goede

Implemented a new object evaluation trace mechanism for control methods

and data objects. This includes nested control methods. It is
particularly useful for examining the ACPI execution during system
initialization since the output is relatively terse. The flag below
enables the output of the trace via the ACPI_DEBUG_PRINT_RAW interface:
 #define ACPI_LV_EVALUATION   0x00080000

Examples:
 Enter evaluation   : _SB.PCI0._INI (Method)
 Exit evaluation   : _SB.PCI0._INI
 Enter evaluation   : _OSI (Method)
 Exit evaluation   : _OSI
 Enter evaluation   : _SB.PCI0.TEST (Method)
 Nested method call   :   _SB.PCI0.NST1
 Exit nested method   :   _SB.PCI0.NST1
 Exit evaluation   : _SB.PCI0.TEST

Added two recently-defined _OSI strings. See
https://docs.microsoft.com/en-us/windows-hardware/drivers/acpi/winacpi-

osi.
"Windows 2018"
"Windows 2018.2"

Update for buffer-to-string conversions via the ToHexString ASL operator.
A "0x" is now prepended to each of the hex values in the output string.

This provides compatibility with other ACPI implementations. The ACPI
specification is somewhat vague on this issue.
Example output string after conversion:
"0x01,0x02,0x03,0x04,0x05,0x06"

Return a run-time error for TermArg expressions within individual package
elements. Although this is technically supported by the ASL grammar,
other ACPI implementations do not support this either. Also, this fixes a
fault if this type of construct is ever encountered (it never has been).

2) iASL Compiler/Disassembler and Tools:

iASL: Implemented a new compile option (-ww) that will promote individual
warnings and remarks to errors. This is intended to enhance the firmware
build process.

AcpiExec: Implemented a new command-line option (-eo) to support the new
object evaluation trace mechanism described above.

Disassembler: Added support to disassemble OEMx tables as AML/ASL tables
instead of a "unknown table" message.

AcpiHelp: Improved support for the "special" predefined names
such as
_Lxx, _Exx, _EJx, _T_x, etc. For these, any legal hex value can now be
used for "xx" and "x".

---
31 October 2018. Summary of changes for version 20181031:

An Operation Region regression was fixed by properly adding address
ranges to a global list during initialization. This allows OS to
accurately check for overlapping regions between native devices (such as
PCI) and Operation regions as well as checking for region conflicts
between two Operation Regions.

Added support for the 2-byte extended opcodes in the code/feature that
attempts to continue parsing during the table load phase. Skip parsing
Device declarations (and other extended opcodes) when an error occurs

during parsing. Previously, only single-byte opcodes were supported.

Cleanup: Simplified the module-level code support by eliminating a
useless global variable (AcpiGbl_GroupModuleLeveCode).

2) iASL Compiler/Disassembler and Tools:

iASL/Preprocessor: Fixed a
regression where an incorrect use of ACPI_FREE
could cause a fault in the preprocessor. This was an inadvertent side-
effect from moving more allocations/frees to the local cache/memory
mechanism.

iASL: Enhanced error detection by validating that all NameSeg elements
within a NamePatch actually exist. The previous behavior was spotty at
best, and such errors could be improperly ignored at compiler time (never
at runtime, however. There are two new error messages, as shown in the
examples below:

dsdt.asl 33: CreateByteField (TTTT.BXXX, 1, CBF1)
Error 6161 - ^ One or more objects within
the Pathname do not exist (TTTT.BXXX)

dsdt.asl 34: CreateByteField (BUF1, UUUU.INT1, BBBB.CBF1)
Error 6160 - One or more prefix Scopes do not exist ^
(BBBB.CBF1)

iASL: Disassembler/table-compiler: Added support for the static data
table TPM2 revision 3 (an older version of TPM2). The support has been
added for the compiler and the disassembler.

Fixed
compilation of DOS format data table file on Unix/Linux systems.
iASL now properly detects line continuations (\) for DOS format data
table definition language files on when executing on Unix/Linux.

---
03 October 2018. Summary of changes for version 20181003:

2) iASL Compiler/Disassembler and Tools:

Fixed a regression introduced in version 20180927 that could cause the
compiler to fault, especially with NamePaths containing one or more
carats (^). Such as: ^^_SB_PCI0

Added a new remark for the Sleep() operator when the sleep time operand

is larger than one second. This is a very long time for the ASL/BIOS code
and may not be what was intended by the ASL writer.

---
27 September 2018. Summary of changes for version 20180927:

1) ACPICA kernel-resident subsystem:

Updated the GPE support to clear the status of all ACPI events when
entering any/all sleep states in order to avoid premature
 wakeups. In
theory, this may cause some wakeup events to be missed, but the
likelihood of this is small. This change restores the original behavior
of the ACPICA code in order to fix a regression seen from the previous
"Stop unconditionally clearing ACPI IRQs during suspend/resume" change.
This regression could cause some systems to incorrectly wake immediately.

Updated the execution of the _REG methods during initialization and
namespace loading to bring the behavior into closer conformance to the
ACPI specification and other ACPI implementations:

From the ACPI specification 6.2A, section 6.5.4 "_REG (Region):
  "Control methods must assume all operation regions are inaccessible
until the _REG(RegionSpace, 1) method is executed"

  "The exceptions to this rule are:
1. OSPM must guarantee that the following operation regions are always
accessible:
  SystemIO operation regions.
  SystemMemory operation regions when accessing memory returned by the
System Address
 Map reporting interfaces."

Since the state of both the SystemIO and SystemMemory address spaces are
defined by the specification to never change, this ACPICA change ensures
that now _REG is never called on them. This solves some problems seen in
the field and provides compatibility with other ACPI implementations. An
update to the upcoming new version of the ACPI specification will help
clarify this behavior.

Updated the implementation of support for the Generic Serial Bus. For the
"bidirectional" protocols, the internal implementation now automatically
creates a return data buffer of the maximum size (255). This handles the
worst-case for data that is returned from the serial bus handler, and
fixes some problems seen in the field. This new buffer is directly
returned to the ASL. As such, there is no true "bidirectional" buffer,
which matches the ACPI specification. This is the reason for the "double

store" seen in the example ASL code in the specification, shown below:

```
Word
 Process Call (AttribProcessCall):
  OperationRegion(TOP1, GenericSerialBus, 0x00, 0x100)
  Field(TOP1, BufferAcc, NoLock, Preserve)
  {
     FLD1, 8, // Virtual register at command value 1.
  }

  Name(BUFF, Buffer(20){}) // Create GenericSerialBus data buffer
                           // as BUFF
  CreateWordField(BUFF, 0x02, DATA) // DATA = Data (Word)

  Store(0x5416, DATA)              // Save 0x5416 into the data buffer
  Store(Store(BUFF, FLD1), BUFF)    // Invoke a write/read Process Call
transaction
                        // This is the "double store". The write to
                        // FLD1 returns a new buffer, which is stored
                        // back into BUFF with the second Store.
```

2) iASL Compiler/Disassembler and Tools:

iASL: Implemented detection of extraneous/redundant uses of the Offset() operator within a Field Unit list. A remark is now issued for these. For example, the first two of the Offset() operators below
 are extraneous.
Because both the compiler and the interpreter track the offsets automatically, these Offsets simply refer to the current offset and are unnecessary. Note, when optimization is enabled, the iASL compiler will in fact remove the redundant Offset operators and will not emit any AML code for them.

```
  OperationRegion (OPR1, SystemMemory, 0x100, 0x100)
  Field (OPR1)
  {
     Offset (0),     // Never needed
     FLD1, 32,
     Offset (4),     // Redundant, offset is already 4 (bytes)
     FLD2, 8,
     Offset (64),    // OK use of Offset.
     FLD3, 16,
  }
dsdt.asl     14:         Offset (0),
Remark   2158 -                  ^ Unnecessary/redundant use of Offset
operator
```

dsdt.asl 16: Offset (4),
Remark 2158 - ^ Unnecessary/redundant use of Offset operator

---

10 August 2018. Summary of changes for version 20180810:

1) ACPICA kernel-resident subsystem:

Initial ACPI table loading: Attempt to continue loading ACPI tables regardless of malformed AML. Since migrating table initialization to the new module-level code support, the AML interpreter rejected tables upon any ACPI error encountered during table load. This is a problem because non-serious ACPI errors during table load do not necessarily mean that the entire definition block (DSDT or SSDT) is invalid. This change improves the table loading by ignoring some types of errors that can be generated by incorrect AML. This can range from object type errors, scope errors, and index errors.

Suspend/Resume support: Update to stop unconditionally clearing ACPI IRQs during suspend/resume. The status of ACPI events is no longer cleared when entering the ACPI S5 system state (power off) which caused some systems to power up immediately after turning off power in certain situations. This was a functional regression. It was fixed by clearing the status of all ACPI events again when entering S5 (for system-wide suspend or hibernation the clearing of the status of all events is not desirable, as it might cause the kernel to miss wakeup events sometimes). Rafael Wysocki.

2) iASL Compiler/Disassembler and Tools:

AcpiExec: Enhanced the -fi option (Namespace initialization file). Field elements listed in the initialization file were previously initialized after the table load and before executing module-level code blocks. Recent changes in the module-level code support means that the table load becomes a large control method execution. If fields are used within module-level code and we are executing with the -fi option, the initialization values were used to initialize the namespace object(s) only after the table was finished loading. This change Provides an early initialization of objects specified in the initialization file so that field unit values are populated during the table load (not after the load).

AcpiExec: Fixed a small memory leak regression that could result

in
warnings during exit of the utility. These warnings were similar to
these:
  0002D690 Length 0x0006 nsnames-0502 [Not a Descriptor - too small]
  0002CD70 Length 0x002C utcache-0453 [Operand] Integer RefCount 0x0001

---
29 June 2018. Summary of changes for version 20180629:

1) iASL Compiler/Disassembler and Tools:

iASL: Fixed a regression related to the use of the ASL External
statement. Error checking for the use of the External() statement has
been relaxed. Previously, a restriction on the use of External meant that
the referenced named object was required to be defined in a different
table (an SSDT). Thus it would be an error to declare an object as an
external and then define the same named object in the same table. For
example:
  DefinitionBlock (...)
  {
    External (DEV1)
    Device (DEV1){...} // This was an error
  }
However, this behavior has caused regressions in some existing ASL code,
because there
is code that depends on named objects and externals (with
the same name) being declared in the same table. This change will allow
the ASL code above to compile without errors or warnings.

iASL: Implemented ASL language extensions for four operators to make some
of their arguments optional instead of required:
  1) Field (RegionName, AccessType, LockRule, UpdateRule)
  2) BankField (RegionName, BankName, BankValue,
        AccessType, LockRule, UpdateRule)
  3) IndexField (IndexName, DataName,
        AccessType, LockRule, UpdateRule)
For the Field operators above, the AccessType, LockRule, and UpdateRule
are now optional arguments. The default values are:
    AccessType: AnyAcc
    LockRule: NoLock
    UpdateRule: Preserve
  4) Mutex (MutexName, SyncLevel)
For this operator, the SyncLevel argument is now optional. This argument
is rarely used in any meaningful way by ASL code, and thus it makes sense
to make it optional. The default value
is:
    SyncLevel: 0

iASL: Attempted use of the ASL Unload() operator now results in the
following warning:
  "Unload is not supported by all operating systems"
This is in fact very true, and the Unload operator may be completely
deprecated in the near future.

AcpiExec: Fixed a regression for the -fi option (Namespace initialization
file. Recent changes in the ACPICA module-level code support altered the
table load/initialization sequence . This means that the table load has
become a large method execution of the table itself. If Operation Region
Fields are used within any module-level code and the -fi option was
specified, the initialization values were populated only after the table
had completely finished loading (and thus the module-level code had
already been executed). This change moves the initialization of objects
listed in the initialization file to before the table is executed as a
method. Field unit values are now initialized before the table execution
is
 performed.

---
31 May 2018. Summary of changes for version 20180531:

1) ACPICA kernel-resident Subsystem:

Implemented additional support to help ensure that a DSDT or SSDT is
fully loaded even if errors are incurred during the load. The majority of
the problems that are seen is the failure of individual AML operators
that occur during execution of any module-level code (MLC) existing in
the table. This support adds a mechanism to abort the current ASL
statement (AML opcode), emit an error message, and to simply move on to
the next opcode -- instead of aborting the entire table load. This is
different than the execution of a control method where the entire method
is aborted upon any error. The goal is to perform a very "best effort" to
load the ACPI tables. The most common MLC errors that have been seen in
the field are direct references to unresolved ASL/AML symbols (referenced
directly without the use of the CondRefOf operator to validate
 the
symbol). This new ACPICA behavior is now compatible with other ACPI
implementations.

Interpreter: The Unload AML operator is no longer supported for the
reasons below. An AE_NOT_IMPLEMENTED exception is returned.
1) A correct implementation on at least some hosts may not be possible.
2) Other ACPI implementations do not correctly/fully support it.
3) It requires host device driver support which is not known to exist.
  (To properly support namespace unload out from underneath.)

4) This AML operator has never been seen in the field.

Parser: Added a debug option to dump AML parse sub-trees as they are
being executed. Used with ACPI_DEBUG_PRINT, the enabling debug level is
ACPI_DB_PARSE_TREES.

Debugger: Reduced the verbosity for errors incurred during table load and
module-level code execution.

Completed an investigation into adding a namespace node "owner list"
instead of the current "owner ID" associated with namespace nodes. This
list would link together all nodes
 that are owned by an individual
control method. The purpose would be to enhance control method execution
by speeding up cleanup during method exit (all namespace nodes created by
a method are deleted upon method termination.) Currently, the entire
namespace must be searched for matching owner IDs if (and only if) the
method creates named objects outside of the local scope. However, by far
the most common case is that methods create objects locally, not outside
the method scope. There is already an ACPICA optimization in place that
only searches the entire namespace in the rare case of a method creating
objects elsewhere in the namespace. Therefore, it is felt that the
overhead of adding an additional pointer to each namespace node to
implement the owner list makes this feature unnecessary.

2) iASL Compiler/Disassembler and Tools:

iASL, Disassembler, and Template generator: Implemented support for
Revision D of the IORT table. Adds a new subtable that is used to specify

SMMUv3 PMCGs. rmurphy-arm.

Disassembler: Restored correct table header validation for the "special"
ACPI tables -- RSDP and FACS. These tables do not contain a standard ACPI
table header and must be special-cased. This was a regression that has
been present for apparently a long time.

AcpiExec: Reduced verbosity of the local exception handler implemented
within acpiexec. This handler is invoked by ACPICA upon any exceptions
generated during control method execution. A new option was added: -vh
restores the original verbosity level if desired.

AcpiExec: Changed the default base from decimal to hex for the -x option
(set debug level). This simplifies the use of this option and matches the
behavior of the corresponding iASL -x option.

AcpiExec: Restored a force-exit on multiple control-c (sigint)

interrupts. This allows program termination even if other issues cause
the control-c to fail.

ASL test suite (ASLTS): Added tests for the recently implemented package
element
resolution mechanism that allows forward references to named
objects from individual package elements (this mechanism provides
compatibility with other ACPI implementations.)

---
8 May 2018. Summary of changes for version 20180508:

1) ACPICA kernel-resident subsystem:

Completed the new (recently deployed) package resolution mechanism for
the Load and LoadTable ASL/AML operators. This fixes a regression that
was introduced in version 20180209 that could result in an
AE_AML_INTERNAL exception during the loading of a dynamic ACPI/AML table
(SSDT) that contains package objects.

2) iASL Compiler/Disassembler and Tools:

AcpiDump and AcpiXtract: Implemented support for ACPI tables larger than
1 MB. This change allows for table offsets within the acpidump file to be
up to 8 characters. These changes are backwards compatible with existing
acpidump files.

---
27 April 2018. Summary of changes for version
20180427:

1) ACPICA kernel-resident subsystem:

Debugger: Added support for Package objects in the "Test Objects"
command. This command walks the entire namespace and evaluates all named
data objects (Integers, Strings, Buffers, and now Packages).

Improved error messages for the namespace root node. Originally, the root
was referred to by the confusing string "___". This has been replaced by
"Namespace Root" for clarification.

Fixed a potential infinite loop in the AcpiRsDumpByteList function. Colin
Ian King <colin.king@canonical.com>.

2) iASL Compiler/Disassembler and Tools:

iASL: Implemented support to detect and flag illegal forward references.
For compatibility with other ACPI implementations, these references are
now illegal at the root level of the DSDT or SSDTs. Forward references
have always been illegal within control methods. This change should not
affect existing ASL/AML code because of the fact that these references
have always been illegal in the other
ACPI implementation.

iASL: Added error messages for the case where a table OEM ID and OEM
TABLE ID strings are longer than the ACPI-defined length. Previously,
these strings were simply silently truncated.

iASL: Enhanced the -tc option (which creates an AML hex file in C,
suitable for import into a firmware project):
1) Create a unique name for the table, to simplify use of multiple
SSDTs.
2) Add a protection #ifdef in the file, similar to a .h header file.
With assistance from Sami Mujawar, sami.mujawar@arm.com and Evan Lloyd,
evan.lloyd@arm.com

AcpiExec: Added a new option, -df, to disable the local fault handler.
This is useful during debugging, where it may be desired to drop into a
debugger on a fault.

---
13 March 2018. Summary of changes for version 20180313:

1) ACPICA kernel-resident subsystem:

Implemented various improvements to the GPE support:

1) Dispatch all active GPEs at initialization time so that no GPEs are
lost.
2)
Enable runtime GPEs earlier. Some systems expect GPEs to be enabled
before devices are enumerated.
3) Don't unconditionally clear ACPI IRQs during suspend/resume, so that
IRQs are not lost.
4) Add parallel GPE handling to eliminate the possibility of dispatching
the same GPE twice.
5) Dispatch any pending GPEs after enabling for the first time.

AcpiGetObjectInfo - removed support for the _STA method. This was causing

problems on some platforms.

Added a new _OSI string, "Windows 2017.2".

Cleaned up and simplified the module-level code support. These changes
are in preparation for the eventual removal of the legacy MLC support
(deferred execution), replaced by the new MLC architecture which executes
the MLC as a table is loaded (DSDT/SSDTs).

Changed a compile-time option to a runtime option. Changes the option to
ignore ACPI table load-time package resolution errors into a runtime
option. Used only for platforms that generate many AE_NOT_FOUND errors
during boot. AcpiGbl_IgnorePackageResolutionErrors.

Fixed
the ACPI_ERROR_NAMESPACE macro. This change involves putting some
ACPI_ERROR_NAMESPACE parameters inside macros. By doing so, we avoid
compilation errors from unused variables (seen with some compilers).

2) iASL Compiler/Disassembler and Tools:

ASLTS: parallelized execution in order to achieve an (approximately) 2X
performance increase.

ASLTS: Updated to use the iASL __LINE__ and __METHOD__ macros. Improves
error reporting.

---
09 February 2018. Summary of changes for version 20180209:

1) ACPICA kernel-resident subsystem:

Completed the final integration of the recent changes to Package Object
handling and the module-level AML code support. This allows forward
references from individual package elements when the package object is
declared from within module-level code blocks. Provides compatibility
with other ACPI implementations.

The new architecture for the AML module-level code has been completed
and
is now the default for the ACPICA code. This new architecture executes
the module-level code in-line as the ACPI table is loaded/parsed instead
of the previous architecture which deferred this code until after the
table was fully loaded. This solves some ASL code ordering issues and
provides compatibility with other ACPI implementations. At this time,
there is an option to fallback to the earlier architecture, but this

support is deprecated and is planned to be completely removed later this year.

Added a compile-time option to ignore AE_NOT_FOUND exceptions during resolution of named reference elements within Package objects. Although this is potentially a serious problem, it can generate a lot of noise/errors on platforms whose firmware carries around a bunch of unused Package objects. To disable these errors, define ACPI_IGNORE_PACKAGE_RESOLUTION_ERRORS in the OS-specific header. All errors are always reported for ACPICA applications such as AcpiExec.

Fixed a regression related to the explicit type-conversion AML operators (ToXXXX). The regression was introduced early in 2017 but was not seen until recently because these operators are not fully supported by other ACPI implementations and are thus rarely used by firmware developers. The operators are defined by the ACPI specification to not implement the "implicit result object conversion". The regression incorrectly introduced this object conversion for the following explicit conversion operators:

ToInteger
ToString
ToBuffer
ToDecimalString
ToHexString
ToBCD
FromBCD

2) iASL Compiler/Disassembler and Tools:

iASL: Fixed a problem with the compiler constant folding feature as related to the ToXXXX explicit conversion operators. These operators do not support the "implicit result object conversion" by definition. Thus, ASL expressions that use these operators cannot be folded to a simple Store operator because Store implements the implicit conversion. This change uses the CopyObject operator for the ToXXXX operator folding instead. CopyObject is defined to not implement implicit result conversions and is thus appropriate for folding the ToXXXX operators.

iASL: Changed the severity of an error condition to a simple warning for the case where a symbol is declared both locally and as an external symbol. This accommodates existing ASL code.

AcpiExec: The -ep option to enable the new architecture for module-level code has been removed. It is replaced by the -dp option which instead has the opposite effect: it disables the new architecture (the default) and

enables the legacy architecture. When the legacy code is removed in the future, the -dp option will be removed also.

---

05 January 2018. Summary of changes for version 20180105:

1) ACPICA kernel-resident subsystem:

Updated all copyrights to 2018. This affects all source code modules.

Fixed a possible build error caused by an unresolved reference to the AcpiUtSafeStrncpy function.

Removed NULL pointer arithmetic in the various pointer manipulation macros. All "(void *) NULL" constructs are converted to "(void *) 0". This eliminates warnings/errors in newer C compilers. Jung-uk Kim.

Added support for A32 ABI compilation, which uses the ILP32 model. Anuj Mittal.

2) iASL Compiler/Disassembler and Tools:

ASLTS: Updated all copyrights to 2018.

Tools: Updated all signon copyrights to 2018.

AcpiXtract: Fixed a regression related to ACPI table signatures where the signature was truncated to 3 characters (instead of 4).

AcpiExec: Restore the original terminal mode after the use of the -v and -vd options.

ASLTS: Deployed the iASL __METHOD__ macro across the test suite.

---

14 December 2017. Summary of changes for version 20171214:

1) ACPICA kernel-resident subsystem:

Fixed a regression in the external (public) AcpiEvaluateObjectTyped interface where the optional "pathname" argument had inadvertently become a required argument returning an error if omitted (NULL pointer argument).

Fixed two possible memory leaks related to the recently developed "late resolution" of reference objects within ASL Package Object definitions.

Added two recently defined _OSI strings: "Windows 2016" and "Windows 2017". Mario Limonciello.

Implemented and deployed a safer version of the C library function strncpy: AcpiUtSafeStrncpy. The intent is to at least prevent the creation of unterminated strings as a possible result of a standard strncpy.

Cleaned up and restructured the global variable file (acglobal.h). There are many changes, but no functional changes.

2) iASL Compiler/Disassembler and Tools:

iASL Table Compiler: Fixed a problem with the DBG2 ACPI table where the optional OemData field at the end of the table was incorrectly required for proper compilation. It is now correctly an optional field.

ASLTS: The entire suite was converted from standard
ASL to the ASL+
language, using the ASL-to-ASL+ converter which is integrated into the iASL compiler. A binary compare of all output files has verified the correctness of the conversion.

iASL: Fixed the source code build for platforms where "char" is unsigned. This affected the iASL lexer only. Jung-uk Kim.

---
10 November 2017. Summary of changes for version 20171110:

1) ACPICA kernel-resident subsystem:

This release implements full support for ACPI 6.2A:
NFIT - Added a new subtable, "Platform Capabilities Structure"
No other changes to ACPICA were required, since ACPI 6.2A is primarily an errata release of the specification.

Other ACPI table changes:
IORT: Added the SMMUv3 Device ID mapping index. Hanjun Guo
PPTT: Added cache attribute flag definitions to actbl1.h. Jeremy Linton

Utilities: Modified the string/integer conversion functions to use

internal 64-bit divide support instead of a native divide. On 32-bit platforms,
 a 64-bit divide typically requires a library function which
may not be present in the build (kernel or otherwise).

Implemented a targeted error message for timeouts returned from the
Embedded Controller device driver. This is seen frequently enough to
special-case an AE_TIME returned from an EC operation region access:
   "Timeout from EC hardware or EC device driver"

Changed the "ACPI Exception" message prefix to "ACPI Error" so that all
runtime error messages have the identical prefix.

2) iASL Compiler/Disassembler and Tools:

AcpiXtract: Fixed a problem with table header detection within the
acpidump file. Processing a table could be ended early if a 0x40 (@)
appears in the original binary table, resulting in the @ symbol appearing
in the decoded ASCII field at the end of the acpidump text line. The
symbol caused acpixtract to incorrectly think it had reached the end of
the current table and the beginning of a new table.

AcpiXtract: Added an option (-f) to ignore
 some errors during table
extraction. This initial implementation ignores non-ASCII and non-
printable characters found in the acpidump text file.

TestSuite(ASLTS)/AcpiExec: Fixed and restored the memory usage statistics
for ASLTS. This feature is used to track memory allocations from
different memory caches within the ACPICA code. At the end of an ASLTS
run, these memory statistics are recorded and stored in a log file.

Debugger (user-space version): Implemented a simple "Background" command.
Creates a new thread to execute a control method in the background, while
control returns to the debugger prompt to allow additional commands.
   Syntax: Background <Namepath> [Arguments]

---
29 September 2017. Summary of changes for version 20170929:

1) ACPICA kernel-resident subsystem:

Redesigned and implemented an improved ASL While() loop timeout
mechanism. This mechanism is used to prevent infinite loops in the kernel
AML interpreter caused

by either non-responsive hardware or incorrect AML
code. The new implementation uses AcpiOsGetTimer instead of a simple
maximum loop count, and is thus more accurate and constant across
different machines. The default timeout is currently 30 seconds, but this
may be adjusted later.

Renamed the ACPI_AML_INFINITE_LOOP exception to AE_AML_LOOP_TIMEOUT to
better reflect the new implementation of the loop timeout mechanism.

Updated the AcpiGetTimerDuration interface to cleanup the 64-bit support
and to fix an off-by-one error. Jung-uk Kim.

Fixed an EFI build problem by updating the makefiles to for a new file
that was added, utstrsuppt.c

2) iASL Compiler/Disassembler and Tools:

Implemented full support for the PDTT, SDEV, and TPM2 ACPI tables. This
includes support in the table disassembler, compiler, and template
generator.

iASL: Added an exception for an illegal type of recursive method
invocation. If a method creates named objects, the first recursive call
will fail
at runtime. This change adds an error detection at compile time
to catch the problem up front. Note: Marking such a method as
"serialized" will not help with this problem, because the same thread can
acquire the method mutex more than once. Example compiler and runtime
output:

```
Method (MTH1)
{
   Name (INT1, 1)
   MTH1 ()
}

dsdt.asl     22: MTH1 ()
Error    6152 -  ^ Illegal recursive call to method
                 that creates named objects (MTH1)

Previous runtime exception:
  ACPI Error: [INT1] Namespace lookup failure,
  AE_ALREADY_EXISTS (20170831/dswload2-465)
```

iASL: Updated support for External() opcodes to improve namespace
management and error detection. These changes are related to issues seen
with multiple-segment namespace pathnames within External declarations,

such as below:

```
  External(\_SB.PCI0.GFX0, DeviceObj)
  External(\_SB.PCI0.GFX0.ALSI)
```

iASL: Implemented support for multi-line error/warning messages. This enables
more detailed and helpful error messages as below, from the initial deployment for the duplicate names error:

```
  DSDT.iiii   1692:      Device(PEG2) {
  Error    6074 -              ^ Name already exists in scope (PEG2)

      Original name creation/declaration below:
      DSDT.iiii     93:   External(\_SB.PCI0.PEG2, DeviceObj)
```

AcpiXtract: Added additional flexibility to support differing input hex dump formats. Specifically, hex dumps that contain partial disassembly and/or comments within the ACPI table data definition. There exist some dump utilities seen in the field that create this type of hex dump (such as Simics). For example:

```
  DSDT @ 0xdfffd0c0 (10999 bytes)
     Signature DSDT
     Length 10999
     Revision 1
     Checksum 0xf3 (Ok)
     OEM_ID BXPC
     OEM_table_id BXDSDT
     OEM_revision 1
     Creator_id 1280593481
     Creator_revision 537399345
    0000: 44 53 44 54 f7 2a 00 00 01 f3 42 58 50 43 00 00
    ...
     2af0: 5f 4c 30 46 00 a4 01
```

Test suite: Miscellaneous changes/fixes:
  More cleanup and simplification of makefiles
  Continue compilation of test cases after a compile failure
  Do not perform binary compare unless both files actually exist

iASL: Performed some code/module restructuring. Moved all memory allocation functions to new modules. Two new files, aslallocate.c and aslcache.c

---

31 August 2017. Summary of changes for version 20170831:

1) ACPICA kernel-resident subsystem:

Implemented internal support for full 64-bit addresses that appear in all
Generic Address Structure (GAS) structures. Previously, only the lower 32
bits were used. Affects the use of GAS structures in the FADT and other
tables, as well as the GAS structures passed to the AcpiRead and
AcpiWrite public external interfaces that are used by drivers. Lv Zheng.

Added header support for the PDTT ACPI table (Processor Debug Trigger
Table). Full support in
the iASL Data Table Compiler and disassembler is
forthcoming.

2) iASL Compiler/Disassembler and Tools:

iASL/Disassembler: Fixed a problem with the PPTT ACPI table (Processor
Properties Topology Table) where a flag bit was specified in the wrong
bit position ("Line Size Valid", bit 6).

iASL: Implemented support for Octal integer constants as defined by the
ASL language grammar, per the ACPI specification. Any integer constant
that starts with a zero is an octal constant. For example,
  Store (037777, Local0) /* Octal constant */
  Store (0x3FFF, Local0) /* Hex equivalent */
  Store (16383, Local0) /* Decimal equivalent */

iASL: Improved overflow detection for 64-bit string conversions during
compilation of integer constants. "Overflow" in this case means a string
that represents an integer that is too large to fit into a 64-bit value.
Any 64-bit constants within a 32-bit DSDT or SSDT are still truncated to
the low-order 32 bits with a warning, as previously implemented.
Several
new exceptions are defined that indicate a 64-bit overflow, as well as
the base (radix) that was used during the attempted conversion. Examples:
  Local0 = 0xAAAABBBBCCCCDDDDEEEEFFFF   // AE_HEX_OVERFLOW
  Local0 = 01111222233334444555566667777   // AE_OCTAL_OVERFLOW
  Local0 = 11112222333344445555666677778888 // AE_DECIMAL_OVERFLOW

iASL: Added a warning for the case where a ResourceTemplate is declared
with no ResourceDescriptor entries (coded as "ResourceTemplate(){}"). In
this case, the resulting template is created with a single END_TAG
descriptor, which is essentially useless.

iASL: Expanded the -vw option (ignore specific warnings/remarks) to
include compilation error codes as well.

---
28 July 2017. Summary of changes for version 20170728:

1) ACPICA kernel-resident subsystem:

Fixed a regression seen with small resource descriptors that could cause
an inadvertent AE_AML_NO_RESOURCE_END_TAG exception.

AML
 interpreter: Implemented a new feature that allows forward references
from individual named references within package objects that are
contained within blocks of "module-level code". This provides
compatibility with other ACPI implementations and supports existing
firmware that depends on this feature. Example:

```
  Name (ABCD, 1)
  If (ABCD)                   /* An If() at module-level */
  {
     Name (PKG1, Package()
     {
        INT1                  /* Forward reference to object INT1
*/
     })
     Name (INT1, 0x1234)
  }
```

AML Interpreter: Fixed a problem with the Alias() operator where aliases
to some ASL objects were not handled properly. Objects affected are:
Mutex, Event, and OperationRegion.

AML Debugger: Enhanced to properly handle AML Alias objects. These
objects have one level of indirection which was not fully supported by
the debugger.

Table Manager: Added support to detect and ignore duplicate SSDTs within
the XSDT/RSDT. This
 error in the XSDT has been seen in the field.

EFI and EDK2 support:
  Enabled /WX flag for MSVC builds
  Added support for AcpiOsStall, AcpiOsSleep, and AcpiOsGetTimer
  Added local support for 64-bit multiply and shift operations
  Added support to compile acpidump.efi on Windows
  Added OSL function stubs for interfaces not used under EFI

Added additional support for the _DMA predefined name. _DMA returns a

buffer containing a resource template. This change add support within the resource manager (AcpiWalkResourceBuffer) to walk and parse this list of resource descriptors. Lorenzo Pieralisi <lorenzo.pieralisi@arm.com>

2) iASL Compiler/Disassembler and Tools:

iASL: Fixed a problem where the internal input line buffer(s) could overflow if there are very long lines in the input ASL source code file. Implemented buffer management that automatically increases the size of the buffers as necessary.

iASL: Added an option (-vx) to "expect" particular remarks, warnings and errors. If the specified exception is not raised during compilation, the compiler emits an error. This is intended to support the ASL test suite, but may be useful in other contexts.

iASL: Implemented a new predefined macro, __METHOD__, which returns a string containing the name of the current control method that is being compiled.

iASL: Implemented debugger and table compiler support for the SDEI ACPI table (Software Delegated Exception Interface). James Morse <james.morse@arm.com>

Unix/Linux makefiles: Added an option to disable compile optimizations. The disable occurs when the NOOPT flag is set to TRUE. theracermaster@gmail.com

Acpidump: Added support for multiple DSDT and FACS tables. This can occur when there are different tables for 32-bit versus 64-bit.

Enhanced error reporting for the ASL test suite (ASLTS) by removing unnecessary/verbose text, and emit the actual line number where an error has occurred. These changes are intended to improve the usefulness of the test suite.

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29 June 2017. Summary of changes for version 20170629:

1) ACPICA kernel-resident subsystem:

Tables: Implemented a deferred ACPI table verification. This is useful for operating systems where the tables cannot be verified in the early initialization stage due to early memory mapping limitations on some

architectures. Lv Zheng.

Tables: Removed the signature validation for dynamically loaded tables.
Provides compatibility with other ACPI implementations. Previously, only
SSDT tables were allowed, as per the ACPI specification. Now, any table
signature can be used via the Load() operator. Lv Zheng.

Tables: Fixed several mutex issues that could cause errors during table
acquisition. Lv Zheng.

Tables: Fixed a problem where an ACPI warning could be generated if a
null pointer was passed to the AcpiPutTable interface. Lv Zheng.

Tables: Added a mechanism to handle imbalances for the AcpiGetTable and
AcpiPutTable interfaces.
This applies to the "late stage" table loading
when the use of AcpiPutTable is no longer required (since the system
memory manager is fully running and available). Lv Zheng.

Fixed/Reverted a regression during processing of resource descriptors
that contain only a single EndTag. Fixes an AE_AML_NO_RESOURCE_END_TAG
exception in this case.

Headers: IORT/SMMU support: Updated the SMMU models for Revision C of the
I/O Remapping specification. Robin Murphy <robin.murphy@arm.com>

Interpreter: Fixed a possible fault if an Alias operator with an invalid
or duplicate target is encountered during Alias creation in
AcpiExCreateAlias. Alex James <theracermaster@gmail.com>

Added an option to use designated initializers for function pointers.
Kees Cook <keescook@google.com>

2) iASL Compiler/Disassembler and Tools:

iASL: Allow compilation of External declarations with target pathnames
that refer to existing named objects within the table. Erik Schmauss.

iASL: Fixed a regression
when compiling FieldUnits. Fixes an error if a
FieldUnit name also is declared via External in the same table. Erik
Schmauss.

iASL: Allow existing scope names within pathnames used in External
statements. For example:
External (ABCD.EFGH) // ABCD exists, but EFGH is truly external
Device (ABCD)

iASL: IORT ACPI table: Implemented changes required to decode the new Proximity Domain for the SMMUv3 IORT. Disassembler and Data Table compiler. Ganapatrao Kulkarni <ganapatrao.kulkarni@cavium.com>

Disassembler: Don't abort disassembly on errors from External() statements. Erik Schmauss.

Disassembler: fixed a possible fault when one of the Create*Field operators references a Resource Template. ACPICA Bugzilla 1396.

iASL: In the source code, resolved some naming inconsistences across the parsing support. Fixes confusion between "Parse Op" and "Parse Node". Adds a new file, aslparseop.c

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31 May 2017. Summary of changes for version 20170531:

0) ACPI 6.2 support:

The ACPI specification version 6.2 has been released and is available at http://uefi.org/specifications

This version of ACPICA fully supports the ACPI 6.2 specification. Changes are summarized below.

New ACPI tables (Table Compiler/Disassembler/Templates):
  HMAT (Heterogeneous Memory Attributes Table)
  WSMT (Windows SMM Security Mitigation Table)
  PPTT (Processor Properties Topology Table)

New subtables for existing ACPI tables:
  HEST (New subtable, Arch-deferred machine check)
  SRAT (New subtable, Arch-specific affinity structure)
  PCCT (New subtables, Extended PCC subspaces (types 3 and 4))

Simple updates for existing ACPI tables:
  BGRT (two new flag bits)
  HEST (New bit defined for several subtables, GHES_ASSIST)

New Resource Descriptors and Resource macros (Compiler/Disassembler):
  PinConfig()
  PinFunction()
  PinGroup()
  PinGroupConfig()
  PinGroupFunction()

New type for hardware error notification (section
18.3.2.9)

New predefined names/methods (Compiler/Interpreter):
_HMA (Heterogeneous Memory Attributes)
_LSI (Label Storage Information)
_LSR (Label Storage Read)
_LSW (Label Storage Write)

ASL grammar/macro changes (Compiler):
For() ASL macro, implemented with the AML while operator
Extensions to Concatenate operator
Support for multiple definition blocks in same ASL file
Clarification for Buffer operator
Allow executable AML code underneath all scopes (Devices, etc.)
Clarification/change for the _OSI return value
ASL grammar update for reference operators
Allow a zero-length string for AML filename in DefinitionBlock

Miscellaneous:
New device object notification value
Remove a notify value (0x0C) for graceful shutdown
New UUIDs for processor/cache properties and
physical package property
New _HID, ACPI0014 (Wireless Power Calibration Device)

1) ACPICA kernel-resident subsystem:

Added support to disable
ACPI events on hardware-reduced platforms.
Eliminates error messages of the form "Could not enable fixed event". Lv
Zheng

Fixed a problem using Device/Thermal objects with the ObjectType and
DerefOf ASL operators. This support had not been fully/properly
implemented.

Fixed a problem where if a Buffer object containing a resource template
was longer than the actual resource template, an error was generated --
even though the AML is legal. This case has been seen in the field.

Fixed a problem with the header definition of the MADT PCAT_COMPAT flag.
The values for DUAL_PIC and MULTIPLE_APIC were reversed.

Added header file changes for the TPM2 ACPI table. Update to new version
of the TCG specification. Adds a new TPM2 subtable for ARM SMC.

Exported the external interfaces AcpiAcquireMutex and AcpiReleaseMutex. These interfaces are intended to be used only in conjunction with the predefined _DLM method (Device Lock Method). "This object appears in a device scope when AML access
 to the device must be synchronized with the
OS environment".

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

 Current Release:
   Non-Debug Version: 143.1K Code, 60.0K Data, 203.1K Total
   Debug Version: 204.0K Code, 84.3K Data, 288.3K Total
 Previous Release:
   Non-Debug Version: 141.7K Code, 58.5K Data, 200.2K Total
   Debug Version: 207.5K Code, 82.7K Data, 290.2K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Fixed a problem where an External() declaration could not refer to a Field Unit. Erik Schmauss.

Disassembler: Improved support for the Switch/Case operators. This feature will disassemble AML code back to the original Switch operators when possible, instead of an If..Else sequence. David Box

iASL and disassembler: Improved the handling
 of multiple extraneous
parentheses for both ASL input and disassembled ASL output.

Improved the behavior of the iASL compiler and disassembler to detect improper use of external declarations

Disassembler: Now aborts immediately upon detection of an unknown AML opcode. The AML parser has no real way to recover from this, and can result in the creation of an ill-formed parse tree that causes errors later during the disassembly.

All tools: Fixed a problem where the Unix application OSL did not handle control-c correctly. For example, a control-c could incorrectly wake the debugger.

AcpiExec: Improved the Control-C handling and added a handler for segmentation faults (SIGSEGV). Supports both Windows and Unix-like environments.

Reduced the verbosity of the generic unix makefiles. Previously, each compilation displayed the full set of compiler options. This has been eliminated as the options are easily inspected within the makefiles. Each compilation now results in a single
line of output.

---
03 March 2017. Summary of changes for version 20170303:

0) ACPICA licensing:

The licensing information at the start of each source code module has been updated. In addition to the Intel license, the dual GPLv2/BSD license has been added for completeness. Now, a single version of the source code should be suitable for all ACPICA customers. This is the major change for this release since it affects all source code modules.

1) ACPICA kernel-resident subsystem:

Fixed two issues with the common asltypes.h header that could cause problems in some environments: (Kim Jung-uk)
Removed typedef for YY_BUFFER_STATE ?
Fixes an error with earlier versions of Flex.
Removed use of FILE typedef (which is only defined in stdio.h)

2) iASL Compiler/Disassembler and Tools:

Disassembler: fixed a regression introduced in 20170224. A fix for a memory leak related to resource descriptor tags (names) could fault when the
disassembler was generated with 64-bit compilers.

The ASLTS test suite has been updated to implement a new testing architecture. During generation of the suite from ASL source, both the ASL and ASL+ compilers are now validated, as well as the disassembler itself (Erik Schmauss). The architecture executes as follows:

For every ASL source module:
Compile (legacy ASL compilation)
Disassemble the resulting AML to ASL+ source code
Compile the new ASL+ module
Perform a binary compare on the legacy AML and the new ASL+ AML
The ASLTS suite then executes normally using the AML binaries.

---
24 February 2017. Summary of changes for version 20170224:

1) ACPICA kernel-resident subsystem:

Interpreter: Fixed two issues with the control method return value auto-repair feature, where an attempt to double-delete an internal object could result in an ACPICA warning (for _CID repair and others). No fault occurs, however,
because the attempted deletion (actually a release to an internal cache) is detected and ignored via object poisoning.

Debugger: Fixed an AML interpreter mutex issue during the single stepping of control methods. If certain debugger commands are executed during stepping, a mutex acquire/release error could occur. Lv Zheng.

Fixed some issues generating ACPICA with the Intel C compiler by restoring the original behavior and compiler-specific include file in acenv.h. Lv Zheng.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:
Non-Debug Version: 141.7K Code, 58.5K Data, 200.2K Total
Debug Version: 207.5K Code, 82.7K Data, 290.2K Total
Previous Release:
Non-Debug Version: 137.4K Code, 52.6K Data, 190.0K Total
Debug Version: 201.5K
Code, 82.2K Data, 283.7K Total

2) iASL Compiler/Disassembler and Tools:

iASL/Disassembler: A preliminary version of a new ASL-to-ASL+ conversion tool has been designed, implemented, and included in this release. The key feature of this utility is that the original comments within the input ASL file are preserved during the conversion process, and included within the converted ASL+ file -- thus creating a transparent conversion of existing ASL files to ASL+ (ASL 2.0). Erik Schmauss.

Usage: iasl -ca <ASL-filename> // Output is a .dsl file with converted code

iASL/Disassembler: Improved the detection and correct disassembly of

Switch/Case operators. This feature detects sequences of if/elseif/else operators that originated from ASL Switch/Case/Default operators and emits the original operators. David Box.

iASL: Improved the IORT ACPI table support in the following areas. Lv Zheng:
  Clear MappingOffset if the MappingCount is zero.
  Fix the disassembly of the
SMMU GSU interrupt offset.
  Update the template file for the IORT table.

Disassembler: Enhanced the detection and disassembly of resource template/descriptor within a Buffer object. An EndTag descriptor is now required to have a zero second byte, since all known ASL compilers emit this. This helps eliminate incorrect decisions when a buffer is disassembled (false positives on resource templates).

---
19 January 2017. Summary of changes for version 20170119:

1) General ACPICA software:

Entire source code base: Added the 2017 copyright to all source code legal/licensing module headers and utility/tool signons. This includes the standard Linux dual-license header. This affects virtually every file in the ACPICA core subsystem, iASL compiler, all ACPICA utilities, and the ACPICA test suite.

2) iASL Compiler/Disassembler and Tools:

iASL: Removed/fixed an inadvertent remark when a method argument containing a reference is used as a target
 operand within the method (and
never used as a simple argument), as in the example below. Jeffrey Hugo.

```
  dsdt.asl   1507:    Store(0x1, Arg0)
  Remark   2146 -              ^ Method Argument is never used (Arg0)
```

All tools: Removed the bit width of the compiler that generated the tool from the common signon for all user space tools. This proved to be confusing and unnecessary. This includes similar removal of HARDWARE_NAME from the generic makefiles (Thomas Petazzoni). Example below.

```
  Old:
  ASL+ Optimizing Compiler version 20170119-32
  ASL+ Optimizing Compiler version 20170119-64
```

New:
ASL+ Optimizing Compiler version 20170119

---
22 December 2016. Summary of changes for version 20161222:

1) ACPICA kernel-resident subsystem:

AML Debugger: Implemented a new mechanism to simplify and enhance
debugger integration into all environments, including kernel debuggers
and user-space utilities, as well as remote debug
services. This
mechanism essentially consists of new OSL interfaces to support debugger
initialization/termination, as well as wait/notify interfaces to perform
the debugger handshake with the host. Lv Zheng.

New OSL interfaces:
AcpiOsInitializeDebugger (void)
AcpiOsTerminateDebugger (void)
AcpiOsWaitCommandReady (void)
AcpiOsNotifyCommandComplete (void)

New OS services layer:
osgendbg.c -- Example implementation, and used for AcpiExec

Update for Generic Address Space (GAS) support: Although the AccessWidth
and/or BitOffset fields of the GAS are not often used, this change now
fully supports these fields. This affects the internal support for FADT
registers, registers in other ACPI data tables, and the AcpiRead and
AcpiWrite public interfaces. Lv Zheng.

Sleep support: In order to simplify integration of ACPI sleep for the
various host operating systems, a new OSL interface has been introduced.
AcpiOsEnterSleep allows the host
to perform any required operations
before the final write to the sleep control register(s) is performed by
ACPICA. Lv Zheng.

New OSL interface:
AcpiOsEnterSleep(SleepState, RegisterAValue, RegisterBValue)

Called from these internal interfaces:
AcpiHwLegacySleep
AcpiHwExtendedSleep

EFI support: Added a very small EFI/ACPICA example application. Provides

a simple demo for EFI integration, as well as assisting with resolution of issues related to customer ACPICA/EFI integration. Lv Zheng. See:

source/tools/efihello/efihello.c

Local C library: Implemented several new functions to enhance ACPICA portability, for environments where these clib functions are not available (such as EFI). Lv Zheng:

putchar
getchar
strpbrk
strtok
memmove

Fixed a regression where occasionally a valid resource descriptor was incorrectly detected as invalid at runtime, and a AE_AML_NO_RESOURCE_END_TAG was returned.

Fixed a problem with the recently implemented support that enables control method invocations as Target operands to many ASL operators. Warnings of this form: "Needed type [Reference], found [Processor]" were seen at runtime for some method invocations.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:
Non-Debug Version: 141.5K Code, 58.5K Data, 200.0K Total
Debug Version: 201.7K Code, 82.7K Data, 284.4K Total
Previous Release:
Non-Debug Version: 140.5K Code, 58.5K Data, 198.9K Total
Debug Version: 201.3K Code, 82.7K Data, 284.0K Total

2) iASL Compiler/Disassembler and Tools:

Disassembler: Enhanced output by adding the capability to detect and disassemble ASL Switch/Case statements back to the original ASL source code instead of if/else blocks. David Box.

AcpiHelp: Split a large file into separate files based upon functionality/purpose. New files are:

ahaml.c
ahasl.c

---
17 November 2016. Summary of changes for version 20161117:

1) ACPICA kernel-resident subsystem:

Table Manager: Fixed a regression introduced in 20160729, "FADT support cleanup". This was an attempt to remove all references in the source to the FADT version 2, which never was a legal version number. It was skipped because it was an early version of 64-bit support that was eventually abandoned for the current 64-bit support.

Interpreter: Fixed a problem where runtime implicit conversion was incorrectly disabled for the ASL operators below. This brings the behavior into compliance with the ACPI specification:
FromBCD
ToBCD
ToDecimalString
ToHexString
ToInteger
ToBuffer

Table Manager: Added a new public interface, AcpiPutTable, used to release and free an ACPI table returned by AcpiGetTable and related
interfaces. Lv Zheng.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:
Non-Debug Version: 140.5K Code, 58.5K Data, 198.9K Total
Debug Version: 201.3K Code, 82.7K Data, 284.0K Total
Previous Release:
Non-Debug Version: 140.4K Code, 58.1K Data, 198.5K Total
Debug Version: 200.7K Code, 82.1K Data, 282.8K Total

2) iASL Compiler/Disassembler and Tools:

Disassembler: Fixed a regression for disassembly of Resource Template. Detection of templates in the AML stream missed some types of templates.

iASL: Fixed a problem where an Access Size error was returned for the PCC address space when the AccessSize of the GAS register is greater than a

DWORD. Hoan Tran.

iASL: Implemented several grammar changes for the operators below. These

changes are slated for the next version of the ACPI specification:
  RefOf   - Disallow method invocation as an operand
  CondRefOf   - Disallow method invocation as an operand
  DerefOf   - Disallow operands that use the result from operators
that
              do not return a reference (Changed TermArg to
SuperName).

iASL: Control method invocations are now allowed for Target operands, as per the ACPI specification. Removed error for using a control method invocation as a Target operand.

Disassembler: Improved detection of Resource Templates, Unicode, and Strings within Buffer objects. These subtypes do not contain a specific opcode to indicate the originating ASL code, and they must be detected by other means within the disassembler.

iASL: Implemented an optimization improvement for 32-bit ACPI tables (DSDT/SSDT). For the 32-bit case only, compute the optimum integer opcode only after 64-bit to 32-bit truncation. A truncation warning message is

still emitted, however.

AcpiXtract: Implemented handling for both types of line terminators (LF or CR/LF) so that it can accept AcpiDump output files from any system. Peter Wu.

AcpiBin: Added two new options for comparing AML files:
  -a: compare and display ALL mismatches
  -o: start compare at this offset into the second file

---
30 September 2016. Summary of changes for version 20160930:

1) ACPICA kernel-resident subsystem:

Fixed a regression in the internal AcpiTbFindTable function where a non AE_OK exception could inadvertently be returned even if the function did not fail. This problem affects the following operators:
  DataTableRegion
  LoadTable

Fixed a regression in the LoadTable operator where a load to any

namespace location other than the root no longer worked properly.

Increased the maximum loop count value that will result in the
AE_AML_INFINITE_LOOP exception. This is a mechanism that is intended to
prevent infinite
loops within the AML interpreter and thus the host OS
kernel. The value is increased from 0xFFFF to 0xFFFFF loops (65,535 to
1,048,575).

Moved the AcpiGbl_MaxLoopIterations configuration variable to the public
acpixf.h file. This allows hosts to easily configure the maximum loop
count at runtime.

Removed an illegal character in the strtoul64.c file. This character
caused errors with some C compilers.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has a much larger code and data size.

Current Release:
Non-Debug Version: 140.4K Code, 58.1K Data, 198.5K Total
Debug Version: 200.7K Code, 82.1K Data, 282.8K Total
Previous Release:
Non-Debug Version: 140.0K Code, 58.1K Data, 198.1K Total
Debug Version: 200.3K Code, 82.1K Data, 282.4K Total

2) iASL Compiler/Disassembler and Tools:

Disassembler:
Fixed a problem with the conversion of Else{If{ blocks into
the simpler ASL ElseIf keyword. During the conversion, a trailing If
block could be lost and missing from the disassembled output.

iASL: Fixed a missing parser rule for the ObjectType operator. For ASL+,
the missing rule caused a parse error when using the Index operator as an
operand to ObjectType. This construct now compiles properly. Example:
ObjectType(PKG1[4]).

iASL: Correctly handle unresolved symbols in the hardware map file (-lm
option). Previously, unresolved symbols could cause a protection fault.
Such symbols are now marked as unresolved in the map file.

iASL: Implemented support to allow control method invocations as an
operand to the ASL DeRefOf operator. Example:
DeRefOf(MTH1(Local0))

Disassembler: Improved support for the ToPLD ASL macro. Detection of a possible _PLD buffer now includes examination of both the normal buffer length (16 or 20) as well as the surrounding AML package
 length.

Disassembler: Fixed a problem with the decoding of complex expressions within the Divide operator for ASL+. For the case where both the quotient and remainder targets are specified, the entire statement cannot be disassembled. Previously, the output incorrectly contained a mix of ASL- and ASL+ operators. This mixed statement causes a syntax error when compiled. Example:
  Divide (Add (INT1, 6), 128, RSLT, QUOT) // was incorrectly disassembled to:
  Divide (INT1 + 6, 128, RSLT, QUOT)

iASL/Tools: Added support to process AML and non-AML ACPI tables consistently. For the disassembler and AcpiExec, allow all types of ACPI tables (AML and data tables). For the iASL -e option, allow only AML tables (DSDT/SSDT).

---
31 August 2016. Summary of changes for version 20160831:

1) ACPICA kernel-resident subsystem:

Improve support for the so-called "module-level code", which is defined to be math, logical and control AML opcodes
 that appear outside of any
control method. This change improves the support by adding more opcodes that can be executed in the manner. Some other issues have been solved, and the ASL grammar changes to support such code under all scope operators (Device, etc.) are complete. Lv Zheng.

UEFI support: these OSL functions have been implemented. This is an additional step toward supporting the AcpiExec utility natively (with full hardware access) under UEFI. Marcelo Ferreira.
  AcpiOsReadPciConfiguration
  AcpiOsWritePciConfiguration

Fixed a possible mutex error during control method auto-serialization. Lv Zheng.

Updated support for the Generic Address Structure by fully implementing all GAS fields when a 32-bit address is expanded to a 64-bit GAS. Lv Zheng.

Updated the return value for the internal _OSI method. Instead of
0xFFFFFFFF, the "Ones" value is now returned, which is 0xFFFFFFFFFFFFFFFF
for 64-bit ACPI tables. This fixes an incompatibility with other ACPI
implementations,
and will be reflected and clarified in the next version
of the ACPI specification.

Implemented two new table events that can be passed to an ACPICA table
handler. These events are used to indicate a table installation or
uninstallation. These events are used in addition to existed table load
and unload events. Lv Zheng.

Implemented a cleanup for all internal string-to-integer conversions.
Consolidate multiple versions of this functionality and limit possible
bases to either 10 or 16 to simplify the code. Adds a new file,
utstrtoul64.

Cleanup the inclusion order of the various compiler-specific headers.
This simplifies build configuration management. The compiler-specific
headers are now split out from the host-specific headers. Lv Zheng.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has a much
larger code and data size.

Current Release:
Non-Debug Version: 140.1K Code, 58.1K Data, 198.1K Total
Debug Version: 200.3K Code, 82.1K Data, 282.4K Total

2) iASL Compiler/Disassembler and Tools:

iASL/AcpiExec: Added a command line option to display the build date/time
of the tool (-vd). This can be useful to verify that the correct version
of the tools are being used.

AML Debugger: Implemented a new subcommand ("execute predef") to execute
all predefined control methods and names within the current namespace.
This can be useful for debugging problems with ACPI tables and the ACPI
namespace.

---
29 July 2016. Summary of changes for version 20160729:

1) ACPICA kernel-resident subsystem:

Implemented basic UEFI support for the various ACPICA tools. This
includes:
1) An OSL to implement the various AcpiOs* interfaces on UEFI.
2) Support to obtain the ACPI tables on UEFI.
3) Local implementation of required C library functions
 not available on
UEFI.
4) A front-end (main) function for the tools for UEFI-related
initialization.

The initial deployment of this support is the AcpiDump utility executing
as an UEFI application via EDK2 (EDKII, "UEFI Firmware Development Kit").
Current environments supported are Linux/Unix. MSVC generation is not
supported at this time. See the generate/efi/README file for build
instructions. Lv Zheng.

Future plans include porting the AcpiExec utility to execute natively on
the platform with I/O and memory access. This will allow viewing/dump of
the platform namespace and native execution of ACPI control methods that
access the actual hardware. To fully implement this support, the OSL
functions below must be implemented with UEFI interfaces. Any community
help in the implementation of these functions would be appreciated:
  AcpiOsReadPort
  AcpiOsWritePort
  AcpiOsReadMemory
  AcpiOsWriteMemory
  AcpiOsReadPciConfiguration
  AcpiOsWritePciConfiguration

Restructured
 and standardized the C library configuration for ACPICA,
resulting in the various configuration options below. This includes a
global restructuring of the compiler-dependent and platform-dependent
include files. These changes may affect the existing platform-dependent
configuration files on some hosts. Lv Zheng.

The current C library configuration options appear below. For any issues,
it may be helpful to examine the existing compiler-dependent and
platform-dependent files as examples. Lv Zheng.

1) Linux kernel:
  ACPI_USE_STANDARD_HEADERS=n in order not to use system-provided C
library.
  ACPI_USE_SYSTEM_CLIBRARY=y in order not to use ACPICA mini C library.
2) Unix/Windows/BSD applications:
  ACPI_USE_STANDARD_HEADERS=y in order to use system-provided C
library.

ACPI_USE_SYSTEM_CLIBRARY=y in order not to use ACPICA mini C library.
3) UEFI applications:
ACPI_USE_STANDARD_HEADERS=n in order not to use system-provided C library.
ACPI_USE_SYSTEM_CLIBRARY=n
in order to use ACPICA mini C library.
4) UEFI applications (EDK2/StdLib):
ACPI_USE_STANDARD_HEADERS=y in order to use EDK2 StdLib C library.
ACPI_USE_SYSTEM_CLIBRARY=y in order to use EDK2 StdLib C library.

AML interpreter: "module-level code" support. Allows for execution of so-called "executable" AML code (math/logical operations, etc.) outside of control methods not just at the module level (top level) but also within any scope declared outside of a control method - Scope{}, Device{}, Processor{}, PowerResource{}, and ThermalZone{}. Lv Zheng.

Simplified the configuration of the "maximum AML loops" global option by adding a global public variable, "AcpiGbl_MaxLoopIterations" which can be modified at runtime.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and
data size.

Current Release:
Non-Debug Version: 139.1K Code, 22.9K Data, 162.0K Total
Debug Version: 199.0K Code, 81.8K Data, 280.8K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Add full support for the RASF ACPI table (RAS Features Table). Includes disassembler, data table compiler, and header support.

iASL Expand "module-level code" support. Allows for compilation/disassembly of so-called "executable" AML code (math/logical operations, etc.) outside of control methods not just at the module level (top level) but also within any scope declared outside of a control method - Scope{}, Device{}, Processor{}, PowerResource{}, and ThermalZone{}.

AcpiDump: Added support for dumping all SSDTs on newer versions of Windows. These tables are now easily available -- SSDTs are not available through the registry on older versions.

---
27 May 2016. Summary of changes for version 20160527:

1) ACPICA kernel-resident subsystem:

Temporarily
reverted the new arbitrary bit length/alignment support in
AcpiHwRead/AcpiHwWrite for the Generic Address Structure. There have been
a number of regressions with the new code that need to be fully resolved
and tested before this support can be finally integrated into ACPICA.
Apologies for any inconveniences these issues may have caused.

The ACPI message macros are not configurable (ACPI_MSG_ERROR,
ACPI_MSG_EXCEPTION, ACPI_MSG_WARNING, ACPI_MSG_INFO, ACPI_MSG_BIOS_ERROR,
and ACPI_MSG_BIOS_WARNING). Lv Zheng.

Fixed a couple of GCC warnings associated with the use of the -Wcast-qual
option. Adds a new return macro, return_STR. Junk-uk Kim.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has a much larger code and data size.

Current Release:
Non-Debug Version: 136.8K Code, 51.6K Data, 188.4K
Total
Debug Version: 201.5K Code, 82.2K Data, 283.7K Total
Previous Release:
Non-Debug Version: 137.4K Code, 52.6K Data, 190.0K Total
Debug Version: 200.9K Code, 82.2K Data, 283.1K Total

---
22 April 2016. Summary of changes for version 20160422:

1) ACPICA kernel-resident subsystem:

Fixed a regression in the GAS (generic address structure) arbitrary bit
support in AcpiHwRead/AcpiHwWrite. Problem could cause incorrect behavior
and incorrect return values. Lv Zheng. ACPICA BZ 1270.

ACPI 6.0: Added support for new/renamed resource macros. One new argument
was added to each of these macros, and the original name has been
deprecated. The AML disassembler will always disassemble to the new
names. Support for the new macros was added to iASL, disassembler,
resource manager, and the acpihelp utility. ACPICA BZ 1274.

I2cSerialBus -> I2cSerialBusV2
SpiSerialBus -> SpiSerialBusV2
UartSerialBus -> UartSerialBusV2

ACPI
6.0: Added support for a new integer field that was appended to the package object returned by the _BIX method. This adds iASL compile-time and AML runtime error checking. ACPICA BZ 1273.

ACPI 6.1: Added support for a new PCCT subtable, "HW-Reduced Comm Subspace Type2" (Headers, Disassembler, and data table compiler).

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:
Non-Debug Version: 137.4K Code, 52.6K Data, 190.0K Total
Debug Version: 201.5K Code, 82.2K Data, 283.7K Total
Previous Release:
Non-Debug Version: 137.1K Code, 51.5K Data, 188.6K Total
Debug Version: 201.0K Code, 82.0K Data, 283.0K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Implemented an ASL grammar extension to allow/enable executable "module-level
code" to be created and executed under the various operators that create new scopes. This type of AML code is already supported in all known AML interpreters, and the grammar change will appear in the next version of the ACPI specification. Simplifies the conditional runtime creation of named objects under these object types:

Device
PowerResource
Processor
Scope
ThermalZone

iASL: Implemented a new ASL extension, a "For" loop macro to add greater ease-of-use to the ASL language. The syntax is similar to the corresponding C operator, and is implemented with the existing AML While opcode -- thus requiring no changes to existing AML interpreters.

For (Initialize, Predicate, Update) {TermList}

Grammar:
  ForTerm :=
    For (
      Initializer   // Nothing | TermArg => ComputationalData
      Predicate   // Nothing | TermArg => ComputationalData
      Update   // Nothing | TermArg => ComputationalData
) {TermList}

iASL:
 The _HID/_ADR detection and validation has been enhanced to search
under conditionals in order to allow these objects to be conditionally
created at runtime.

iASL: Fixed several issues with the constant folding feature. The
improvement allows better detection and resolution of statements that can
be folded at compile time. ACPICA BZ 1266.

iASL/Disassembler: Fixed a couple issues with the Else{If{}...}
conversion to the ASL ElseIf operator where incorrect ASL code could be
generated.

iASL/Disassembler: Fixed a problem with the ASL+ code disassembly where
sometimes an extra (and extraneous) set of parentheses were emitted for
some combinations of operators. Although this did not cause any problems
with recompilation of the disassembled code, it made the code more
difficult to read. David Box. ACPICA BZ 1231.

iASL: Changed to ignore the unreferenced detection for predefined names
of resource descriptor elements, when the resource descriptor is
created/defined within
 a control method.

iASL: Disassembler: Fix a possible fault with externally declared Buffer
objects.

---
18 March 2016. Summary of changes for version 20160318:

1) ACPICA kernel-resident subsystem:

Added support for arbitrary bit lengths and bit offsets for registers
defined by the Generic Address Structure. Previously, only aligned bit
lengths of 8/16/32/64 were supported. This was sufficient for many years,
but recently some machines have been seen that require arbitrary bit-
level support. ACPICA BZ 1240. Lv Zheng.

Fixed an issue where the _SB._INI method sometimes must be evaluated before any _REG methods are evaluated. Lv Zheng.

Implemented several changes related to ACPI table support (Headers/Disassembler/TableCompiler):
NFIT: For ACPI 6.1, updated to add some additional new fields and constants.
FADT: Updated a warning message and set compliance to ACPI 6.1 (Version 6).
DMAR: Added new constants per the 10/2014 DMAR spec.
IORT:
Added new subtable per the 10/2015 IORT spec.
HEST: For ACPI 6.1, added new constants and new subtable.
DBG2: Added new constants per the 12/2015 DBG2 spec.
FPDT: Fixed several incorrect fields, add the FPDT boot record structure. ACPICA BZ 1249.
ERST/EINJ: Updated disassembler with new "Execute Timings" actions.

Updated header support for the DMAR table to match the current version of the related spec.

Added extensions to the ASL Concatenate operator to allow any ACPI object to be passed as an operand. Any object other than Integer/String/Buffer simply returns a string containing the object type. This extends the usefulness of the Printf macros. Previously, Concatenate would abort the control method if a non-data object was encountered.

ACPICA source code: Deployed the C "const" keyword across the source code where appropriate. ACPICA BZ 732. Joerg Sonnenberger (NetBSD).

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft
Visual C++ 9.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:
Non-Debug Version: 137.1K Code, 51.5K Data, 188.6K Total
Debug Version: 201.0K Code, 82.0K Data, 283.0K Total
Previous Release:
Non-Debug Version: 136.2K Code, 51.5K Data, 187.7K Total
Debug Version: 200.4K Code, 82.0K Data, 282.4K Total

2) iASL Compiler/Disassembler and Tools:

iASL/Disassembler: Improved the heuristic used to determine the number of arguments for an externally defined control method (a method in another

table). Although this is an improvement, there is no deterministic way to "guess" the number of method arguments. Only the ACPI 6.0 External opcode will completely solve this problem as it is deployed (automatically) in newer BIOS code.

iASL/Disassembler: Fixed an ordering issue for emitted External() ASL statements that could cause errors when the disassembled file is compiled. ACPICA BZ 1243. David Box.

iASL: Fixed a regression caused by the merger of the two versions of the local strtoul64. Because of a dependency on a global variable, strtoul64 could return an error for integers greater than a 32-bit value. ACPICA BZ 1260.

iASL: Fixed a regression where a fault could occur for an ASL Return statement if it invokes a control method that is not resolved. ACPICA BZ 1264.

AcpiXtract: Improved input file validation: detection of binary files and non-acpidump text files.

---

12 February 2016. Summary of changes for version 20160212:

1) ACPICA kernel-resident subsystem:

Implemented full support for the ACPI 6.1 specification (released in January). This version of the specification is available at: http://www.uefi.org/specifications

Only a relatively small number of changes were required in ACPICA to support ACPI 6.1, in these areas:
- New predefined names
- New _HID values
- A new subtable for HEST
- A few other header changes for new values

Ensure _SB_._INI is executed before any _REG methods are executed. There appears to be existing BIOS code that relies on this behavior. Lv Zheng.

Reverted a change made in version 20151218 which enabled method invocations to be targets of various ASL operators (SuperName and Target grammar elements). While the new behavior is supported by the ACPI specification, other AML interpreters do not support this behavior and never will. The ACPI specification will be updated for ACPI 6.2 to remove this support. Therefore, the change was reverted to the original ACPICA

behavior.

ACPICA now supports the GCC 6 compiler.

Current Release: (Note: build changes increased sizes)
  Non-Debug Version: 136.2K Code, 51.5K Data, 187.7K Total
  Debug Version: 200.4K Code, 82.0K Data, 282.4K Total
Previous Release:
  Non-Debug Version: 102.7K Code, 28.4K Data, 131.1K Total
  Debug Version: 200.4K Code, 81.9K Data, 282.3K Total

2)
iASL Compiler/Disassembler and Tools:

Completed full support for the ACPI 6.0 External() AML opcode. The compiler emits an external AML opcode for each ASL External statement. This opcode is used by the disassembler to assist with the disassembly of external control methods by specifying the required number of arguments for the method. AML interpreters do not use this opcode. To ensure that interpreters do not even see the opcode, a block of one or more external opcodes is surrounded by an "If(0)" construct. As this feature becomes commonly deployed in BIOS code, the ability of disassemblers to correctly disassemble AML code will be greatly improved. David Box.

iASL: Implemented support for an optional cross-reference output file. The -lx option will create a the cross-reference file with the suffix "xrf". Three different types of cross-reference are created in this file:
- List of object references made from within each control method
- Invocation (caller) list for each
 user-defined control method
- List of references to each non-method object in the namespace

iASL: Method invocations as ASL Target operands are now disallowed and flagged as errors in preparation for ACPI 6.2 (see the description of the problem above).

---
8 January 2016. Summary of changes for version 20160108:

1) ACPICA kernel-resident subsystem:

Updated all ACPICA copyrights and signons to 2016: Added the 2016 copyright to all source code module headers and utility/tool signons. This includes the standard Linux dual-license header. This affects virtually every file in the ACPICA core subsystem, iASL compiler, all ACPICA utilities, and the ACPICA test suite.

Fixed a regression introduced in version 20151218 concerning the execution of so-called module-level ASL/AML code. Namespace objects created under a module-level If() construct were not properly/fully entered into the namespace and could cause an interpreter fault when accessed.

Example
Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:
Non-Debug Version: 102.7K Code, 28.4K Data, 131.1K Total
Debug Version: 200.4K Code, 81.9K Data, 282.4K Total
Previous Release:
Non-Debug Version: 102.6K Code, 28.4K Data, 131.0K Total
Debug Version: 200.3K Code, 81.9K Data, 282.3K Total

2) iASL Compiler/Disassembler and Tools:

Fixed a problem with the compilation of the GpioIo and GpioInt resource descriptors. The _PIN field name was incorrectly defined to be an array of 32-bit values, but the _PIN values are in fact 16 bits each. This would cause incorrect bit width warnings when using Word (16-bit) fields to access the descriptors.

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18 December 2015. Summary of changes for version 20151218:

1)
ACPICA kernel-resident subsystem:

Implemented per-AML-table execution of "module-level code" as individual ACPI tables are loaded into the namespace during ACPICA initialization. In other words, any module-level code within an AML table is executed immediately after the table is loaded, instead of batched and executed after all of the tables have been loaded. This provides compatibility with other ACPI implementations. ACPICA BZ 1219. Bob Moore, Lv Zheng, David Box.

To fully support the feature above, the default operation region handlers for the SystemMemory, SystemIO, and PCI_Config address spaces are now installed before any ACPI tables are loaded. This enables module-level code to access these address spaces during the table load and module-level code execution phase. ACPICA BZ 1220. Bob Moore, Lv Zheng, David

Box.

Implemented several changes to the internal _REG support in conjunction with the changes above. Also, changes to the AcpiExec/AcpiNames/Examples

utilities for the changes above. Although these tools were changed, host operating systems that simply use the default handlers for SystemMemory, SystemIO, and PCI_Config spaces should not require any update. Lv Zheng.

For example, in the code below, DEV1 is conditionally added to the namespace by the DSDT via module-level code that accesses an operation region. The SSDT references DEV1 via the Scope operator. DEV1 must be created immediately after the DSDT is loaded in order for the SSDT to successfully reference DEV1. Previously, this code would cause an AE_NOT_EXIST exception during the load of the SSDT. Now, this code is fully supported by ACPICA.

```
  DefinitionBlock ("", "DSDT", 2, "Intel", "DSDT1", 1)
  {
     OperationRegion (OPR1, SystemMemory, 0x400, 32)
     Field (OPR1, AnyAcc, NoLock, Preserve)
     {
        FLD1, 1
     }
     If (FLD1)
     {
        Device (\DEV1)
        {
        }
     }
  }
  DefinitionBlock ("",
 "SSDT", 2, "Intel", "SSDT1", 1)
  {
     External (\DEV1, DeviceObj)
     Scope (\DEV1)
     {
     }
  }
```

Fixed an AML interpreter problem where control method invocations were not handled correctly when the invocation was itself a SuperName argument to another ASL operator. In these cases, the method was not invoked. ACPICA BZ 1002. Affects the following ASL operators that have a SuperName argument:

  Store
  Acquire, Wait
  CondRefOf, RefOf

Decrement, Increment
Load, Unload
Notify
Signal, Release, Reset
SizeOf

Implemented automatic String-to-ObjectReference conversion support for packages returned by predefined names (such as _DEP). A common BIOS error is to add double quotes around an ObjectReference namepath, which turns the reference into an unexpected string object. This support detects the problem and corrects it before the package is returned to the caller that invoked the method. Lv Zheng.

Implemented extensions to the Concatenate operator. Concatenate now accepts any type of object, it is not restricted to simply Integer/String/Buffer. For objects other than these 3 basic data types, the argument is treated as a string containing the name of the object type. This expands the utility of Concatenate and the Printf/Fprintf macros. ACPICA BZ 1222.

Cleaned up the output of the ASL Debug object. The timer() value is now optional and no longer emitted by default. Also, the basic data types of Integer/String/Buffer are simply emitted as their values, without a data type string -- since the data type is obvious from the output. ACPICA BZ 1221.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:
Non-Debug Version: 102.6K Code, 28.4K Data, 131.0K Total
Debug Version:
200.3K Code, 81.9K Data, 282.3K Total
Previous Release:
Non-Debug Version: 102.0K Code, 28.3K Data, 130.3K Total
Debug Version: 199.6K Code, 81.8K Data, 281.4K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Fixed some issues with the ASL Include() operator. This operator was incorrectly defined in the iASL parser rules, causing a new scope to be opened for the code within the include file. This could lead to several issues, including allowing ASL code that is technically illegal and not supported by AML interpreters. Note, this does not affect the

related #include preprocessor operator. ACPICA BZ 1212.

iASL/Disassembler: Implemented support for the ASL ElseIf operator. This operator is essentially an ASL macro since there is no AML opcode associated with it. The code emitted by the iASL compiler for ElseIf is an Else opcode followed immediately by an If opcode. The disassembler will now emit an ElseIf if it finds an Else immediately followed by an If.
This simplifies the decoded ASL, especially for deeply nested If..Else and large Switch constructs. Thus, the disassembled code more closely follows the original source ASL. ACPICA BZ 1211. Example:

```
Old disassembly:
    Else
    {
        If (Arg0 == 0x02)
        {
            Local0 = 0x05
        }
    }

New disassembly:
    ElseIf (Arg0 == 0x02)
    {
        Local0 = 0x05
    }
```

AcpiExec: Added support for the new module level code behavior and the early region installation. This required a small change to the initialization, since AcpiExec must install its own operation region handlers.

AcpiExec: Added support to make the debug object timer optional. Default is timer disabled. This cleans up the debug object output -- the timer data is rarely used.

AcpiExec: Multiple ACPI tables are now loaded in the order that they appear on the command line. This can be important when there are interdependencies/references between
the tables.

iASL/Templates. Add support to generate template files with multiple SSDTs within a single output file. Also added ommand line support to specify the number of SSDTs (in addition to a single DSDT). ACPICA BZ 1223, 1225.

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24 November 2015. Summary of changes for version 20151124:

1) ACPICA kernel-resident subsystem:

Fixed a possible regression for a previous update to FADT handling. The FADT no longer has a fixed table ID, causing some issues with code that was hardwired to a specific ID. Lv Zheng.

Fixed a problem where the method auto-serialization could interfere with the current SyncLevel. This change makes the auto-serialization support transparent to the SyncLevel support and management.

Removed support for the _SUB predefined name in AcpiGetObjectInfo. This interface is intended for early access to the namespace during the initial namespace device discovery walk. The _SUB method has been seen to access operation
regions in some cases, causing errors because the
operation regions are not fully initialized.

AML Debugger: Fixed some issues with the terminate/quit/exit commands that can cause faults. Lv Zheng.

AML Debugger: Add thread ID support so that single-step mode only applies to the AML Debugger thread. This prevents runtime errors within some kernels. Lv Zheng.

Eliminated extraneous warnings from AcpiGetSleepTypeData. Since the _Sx methods that are invoked by this interface are optional, removed warnings emitted for the case where one or more of these methods do not exist. ACPICA BZ 1208, original change by Prarit Bhargava.

Made a major pass through the entire ACPICA source code base to standardize formatting that has diverged a bit over time. There are no functional changes, but this will of course cause quite a few code differences from the previous ACPICA release.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft
Visual C++ 9.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:
Non-Debug Version: 102.0K Code, 28.3K Data, 130.3K Total
Debug Version: 199.6K Code, 81.8K Data, 281.4K Total
Previous Release:
Non-Debug Version: 101.7K Code, 27.9K Data, 129.6K Total
Debug Version: 199.3K Code, 81.4K Data, 280.7K Total

2) iASL Compiler/Disassembler and Tools:

iASL/acpiexec/acpixtract/disassembler: Added support to allow multiple definition blocks within a single ASL file and the resulting AML file. Support for this type of file was also added to the various tools that use binary AML files: acpiexec, acpixtract, and the AML disassembler. The example code below shows two definition blocks within the same file:

```
  DefinitionBlock ("dsdt.aml", "DSDT", 2, "Intel", "Template",
0x12345678)
  {
  }
  DefinitionBlock ("", "SSDT", 2, "Intel", "Template", 0xABCDEF01)

  {
  }
```

iASL: Enhanced typechecking for the Name() operator. All expressions for the value of the named object must be reduced/folded to a single constant at compile time, as per the ACPI specification (the AML definition of Name()).

iASL: Fixed some code indentation issues for the -ic and -ia options (C and assembly headers). Now all emitted code correctly begins in column 1.

iASL: Added an error message for an attempt to open a Scope() on an object defined in an SSDT. The DSDT is always loaded into the namespace first, so any attempt to open a Scope on an SSDT object will fail at runtime.

---

30 September 2015. Summary of changes for version 20150930:

1) ACPICA kernel-resident subsystem:

Debugger: Implemented several changes and bug fixes to assist support for the in-kernel version of the AML debugger. Lv Zheng.
- Fix the "predefined" command for in-kernel debugger.
- Do not enter debug command loop for the help and version commands.
-
Disallow "execute" command during execution/single-step of a method.

Interpreter: Updated runtime typechecking for all operators that have target operands. The operand is resolved and validated that it is legal. For example, the target cannot be a non-data object such as a Device,

Mutex, ThermalZone, etc., as per the ACPI specification.

Debugger: Fixed the double-mutex user I/O handshake to work when local deadlock detection is enabled.

Debugger: limited display of method locals and arguments (LocalX and ArgX) to only those that have actually been initialized. This prevents lines of extraneous output.

Updated the definition of the NFIT table to correct the bit polarity of one flag: ACPI_NFIT_MEM_ARMED --> ACPI_NFIT_MEM_NOT_ARMED

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and
data size.

Current Release:
Non-Debug Version: 101.7K Code, 27.9K Data, 129.6K Total
Debug Version: 199.3K Code, 81.4K Data, 280.7K Total
Previous Release:
Non-Debug Version: 101.3K Code, 27.7K Data, 129.0K Total
Debug Version: 198.6K Code, 80.9K Data, 279.5K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Improved the compile-time typechecking for operands of many of the ASL operators:

-- Added an option to disable compiler operand/operator typechecking (-ot).

-- For the following operators, the TermArg operands are now validated when possible to be Integer data objects: BankField, OperationRegion, DataTableRegion, Buffer, and Package.

-- Store (Source, Target): Both the source and target operands are resolved and checked that the operands are both legal. For example, neither operand can be a non-data object such as a Device, Mutex, ThermalZone, etc. Note, as per the ACPI specification, the CopyObject operator can be used to store an
object to any type of target object.

-- Store (Source, Target): If the source is a Package object, the target must be a Package object, LocalX, ArgX, or Debug. Likewise, if the target is a Package, the source must also be a Package.

-- Store (Source, Target): A warning is issued if the source and target resolve to the identical named object.

-- Store (Source, <method invocation>): An error is generated for the target method invocation, as this construct is not supported by the AML interpreter.

-- For all ASL math and logic operators, the target operand must be a data object (Integer, String, Buffer, LocalX, ArgX, or Debug). This includes the function return value also.

-- External declarations are also included in the typechecking where possible. External objects defined using the UnknownObj keyword cannot be typechecked, however.

iASL and Disassembler: Added symbolic (ASL+) support for the ASL Index operator:
- Legacy code: Index(PKG1, 3)
- New ASL+ code: PKG1[3]
This
completes the ACPI 6.0 ASL+ support as it was the only operator not supported.

iASL: Fixed the file suffix for the preprocessor output file (.i). Two spaces were inadvertently appended to the filename, causing file access and deletion problems on some systems.

ASL Test Suite (ASLTS): Updated the master makefile to generate all possible compiler output files when building the test suite -- thus exercising these features of the compiler. These files are automatically deleted when the test suite exits.

---
18 August 2015. Summary of changes for version 20150818:

1) ACPICA kernel-resident subsystem:

Fix a regression for AcpiGetTableByIndex interface causing it to fail. Lv Zheng. ACPICA BZ 1186.

Completed development to ensure that the ACPICA Disassembler and Debugger are fully standalone components of ACPICA. Removed cross-component dependences. Lv Zheng.

The max-number-of-AML-loops is now runtime configurable (previously was compile-time

only). This is essentially a loop timeout to force-abort
infinite AML loops. ACPCIA BZ 1192.

Debugger: Cleanup output to dump ACPI names and namepaths without any
trailing underscores. Lv Zheng. ACPICA BZ 1135.

Removed unnecessary conditional compilations across the Debugger and
Disassembler components where entire modules could be left uncompiled.

The aapits test is deprecated and has been removed from the ACPICA git
tree. The test has never been completed and has not been maintained, thus
becoming rather useless. ACPICA BZ 1015, 794.

A batch of small changes to close bugzilla and other reports:
- Remove duplicate code for _PLD processing. ACPICA BZ 1176.
- Correctly cleanup after a ACPI table load failure. ACPICA BZ 1185.
- iASL: Support POSIX yacc again in makefile. Jung-uk Kim.
- ACPI table support: general cleanup and simplification. Lv Zheng, Bob
Moore.
- ACPI table support: fix for a buffer read overrun in AcpiTbFindTable.
ACPICA BZ 1184.
- Enhance parameter validation
for DataTableRegion and LoadTable ASL/AML
operators.
- Debugger: Split debugger initialization/termination interfaces. Lv
Zheng.
- AcpiExec: Emit OemTableId for SSDTs during the load phase for table
identification.
- AcpiExec: Add debug message during _REG method phase during table
load/init.
- AcpiNames: Fix a regression where some output was missing and no longer
emitted.
- Debugger: General cleanup and simplification. Lv Zheng.
- Disassembler: Cleanup use of several global option variables. Lv Zheng.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has a much larger code and data size.

Current Release:
Non-Debug Version: 101.3K Code, 27.7K Data, 129.0K Total
Debug Version: 198.6K Code, 80.9K Data, 279.5K Total
Previous Release:
Non-Debug Version: 100.9K Code, 24.5K Data, 125.4K Total
Debug Version: 197.8K Code, 81.5K Data, 279.3K Total

2) iASL Compiler/Disassembler and Tools:

AcpiExec: Fixed a problem where any more than 32 ACPI tables in the XSDT
were not handled properly and caused load errors. Now, properly invoke
and use the ACPICA auto-reallocate mechanism for ACPI table data
structures. ACPICA BZ 1188

AcpiNames: Add command-line wildcard support for ACPI table files. ACPICA
BZ 1190.

AcpiExec and AcpiNames: Add -l option to load ACPI tables only. For
AcpiExec, this means that no control methods (like _REG/_INI/_STA) are
executed during initialization. ACPICA BZ 1187, 1189.

iASL/Disassembler: Implemented a prototype "listing" mode that emits AML
that corresponds to each disassembled ASL statement, to simplify
debugging. ACPICA BZ 1191.

Debugger: Add option to the "objects" command to display a summary of the
current namespace objects (Object type and count). This is displayed if
the command is entered with no arguments.

AcpiNames: Add
-x option to specify debug level, similar to AcpiExec.

---

17 July 2015. Summary of changes for version 20150717:

1) ACPICA kernel-resident subsystem:

Improved the partitioning between the Debugger and Disassembler
components. This allows the Debugger to be used standalone within kernel
code without the Disassembler (which is used for single stepping also).
This renames and moves one file, dmobject.c to dbobject.c. Lv Zheng.

Debugger: Implemented a new command to trace the execution of control
methods (Trace). This is especially useful for the in-kernel version of
the debugger when file I/O may not be available for method trace output.
See the ACPICA reference for more information. Lv Zheng.

Moved all C library prototypes (used for the local versions of these
functions when requested) to a new header, acclib.h
Cleaned up the use of non-ANSI C library functions. These functions are
implemented locally in ACPICA. Moved all such functions
to a common
source file, utnonansi.c

Debugger: Fixed a problem with the "!!" command (get last command executed) where the debugger could enter an infinite loop and eventually crash.

Removed the use of local macros that were used for some of the standard C library functions to automatically cast input parameters. This mostly affected the is* functions where the input parameter is defined to be an int. This required a few modifications to the main ACPICA source code to provide casting for these functions and eliminate possible compiler warnings for these parameters.

Across the source code, added additional status/error checking to resolve issues discovered by static source code analysis tools such as Coverity.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current
Release:
Non-Debug Version: 100.9K Code, 24.5K Data, 125.4K Total
Debug Version: 197.8K Code, 81.5K Data, 279.3K Total
Previous Release:
Non-Debug Version: 100.6K Code, 27.6K Data, 128.2K Total
Debug Version: 196.2K Code, 81.0K Data, 277.2K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Fixed a regression where the device map file feature no longer worked properly when used in conjunction with the disassembler. It only worked properly with the compiler itself.

iASL: Implemented a new warning for method LocalX variables that are set but never used (similar to a C compiler such as gcc). This also applies to ArgX variables that are not defined by the parent method, and are instead (legally) used as local variables.

iASL/Preprocessor: Finished the pass-through of line numbers from the preprocessor to the compiler. This ensures that compiler errors/warnings have the correct original line numbers and filenames, regardless of any #include files.

iASL/Preprocessor:
Fixed a couple of issues with comment handling and the pass-through of comments to the preprocessor output file (which becomes the compiler input file). Also fixed a problem with // comments that

appear after a math expression.

iASL: Added support for the TCPA server table to the table compiler and
template generator. (The client table was already previously supported)

iASL/Preprocessor: Added a permanent #define of the symbol "__IASL__" to
identify the iASL compiler.

Cleaned up the use of the macros NEGATIVE and POSITIVE which were defined
multiple times. The new names are ACPI_SIGN_NEGATIVE and
ACPI_SIGN_POSITIVE.

AcpiHelp: Update to expand help messages for the iASL preprocessor
directives.

---
19 June 2015. Summary of changes for version 20150619:

Two regressions in version 20150616 have been addressed:

Fixes some problems/issues with the C library macro removal (ACPI_STRLEN,
etc.) This update changes ACPICA
 to only use the standard headers for
functions, or the prototypes for the local versions of the C library
functions. Across the source code, this required some additional casts
for some Clib invocations for portability. Moved all local prototypes to
a new file, acclib.h

Fixes several problems with recent changes to the handling of the FACS
table that could cause some systems not to boot.

---
16 June 2015. Summary of changes for version 20150616:

1) ACPICA kernel-resident subsystem:

Across the entire ACPICA source code base, the various macros for the C
library functions (such as ACPI_STRLEN, etc.) have been removed and
replaced by the standard C library names (strlen, etc.) The original
purpose for these macros is no longer applicable. This simplification
reduces the number of macros used in the ACPICA source code
significantly, improving readability and maintainability.

Implemented support for a new ACPI table, the OSDT. This table,

the
"override" SDT, can be loaded directly by the host OS at boot time. It enables the replacement of existing namespace objects that were installed via the DSDT and/or SSDTs. The primary purpose for this is to replace buggy or incorrect ASL/AML code obtained via the BIOS. The OSDT is slated for inclusion in a future version of the ACPI Specification. Lv Zheng/Bob Moore.

Added support for systems with (improperly) two FACS tables -- a "32-bit" table (via FADT 32-bit legacy field) and a "64-bit" table (via the 64-bit X field). This change will support both automatically. There continues to be systems found with this issue. This support requires a change to the AcpiSetFirmwareWakingVector interface. Also, a public global variable has been added to allow the host to select which FACS is desired (AcpiGbl_Use32BitFacsAddresses). See the ACPICA reference for more details Lv Zheng.

Added a new feature to allow for systems that do not contain an FACS. Although this is already
supported on hardware-reduced platforms, the
feature has been extended for all platforms. The reasoning is that we do not want to abort the entire ACPICA initialization just because the system is seriously buggy and has no FACS.

Fixed a problem where the GUID strings for NFIT tables (in acuuid.h) were not correctly transcribed from the ACPI specification in ACPICA version 20150515.

Implemented support for the _CLS object in the AcpiGetObjectInfo external interface.

Updated the definitions of the TCPA and TPM2 ACPI tables to the more recent TCG ACPI Specification, December 14, 2014. Table disassembler and compiler also updated. Note: The TCPA "server" table is not supported by the disassembler/table-compiler at this time.

ACPI 6.0: Added definitions for the new GIC version field in the MADT.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the
debug output trace mechanism and
has a much larger code and data size.

Current Release:
Non-Debug Version: 100.6K Code, 27.6K Data, 128.2K Total
Debug Version: 196.2K Code, 81.0K Data, 277.2K Total
Previous Release:

Non-Debug Version: 99.9K Code, 27.5K Data, 127.4K Total
Debug Version: 195.2K Code, 80.8K Data, 276.0K Total

2) iASL Compiler/Disassembler and Tools:

Disassembler: Fixed a problem with the new symbolic operator disassembler where incorrect ASL code could be emitted in some cases for the "non-commutative" operators -- Subtract, Divide, Modulo, ShiftLeft, and ShiftRight. The actual problem cases seem to be rather unusual in common ASL code, however. David Box.

Modified the linux version of acpidump to obtain ACPI tables from not just /dev/mem (which may not exist) and /sys/firmware/acpi/tables. Lv Zheng.

iASL: Fixed a problem where the user preprocessor output file (.i) contained extra data that was not expected. The compiler was using this
file as a temporary file and passed through #line directives in order to keep compiler error messages in sync with the input file and line number across multiple include files. The (.i) is no longer a temporary file as the compiler uses a new, different file for the original purpose.

iASL: Fixed a problem where comments within the original ASL source code file were not passed through to the preprocessor output file, nor any listing files.

iASL: Fixed some issues for the handling of the "#include" preprocessor directive and the similar (but not the same) "Include" ASL operator.

iASL: Add support for the new OSDT in both the disassembler and compiler.

iASL: Fixed a problem with the constant folding support where a Buffer object could be incorrectly generated (incorrectly formed) during a conversion to a Store() operator.

AcpiHelp: Updated for new NFIT GUIDs, "External" AML opcode, and new description text for the _REV predefined name. _REV now permanently returns
2, as per the ACPI 6.0 specification.

Debugger: Enhanced the output of the Debug ASL object for references produced by the Index operator. For Buffers and strings, only output the actual byte pointed to by the index. For packages, only print the single package element decoded by the index. Previously, the entire buffer/string/package was emitted.

iASL/Table-compiler: Fixed a regression where the "generic" data types
were no longer recognized, causing errors.

---

15 May 2015. Summary of changes for version 20150515:

This release implements most of ACPI 6.0 as described below.

1) ACPICA kernel-resident subsystem:

Implemented runtime argument checking and return value checking for all
new ACPI 6.0 predefined names. This includes: _BTH, _CR3, _DSD, _LPI,
_MTL, _PRR, _RDI, _RST, _TFP, _TSN.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The
debug
 version of the code includes the debug output trace mechanism and
has a much larger code and data size.

 Current Release:
   Non-Debug Version: 99.9K Code, 27.5K Data, 127.4K Total
   Debug Version: 195.2K Code, 80.8K Data, 276.0K Total
 Previous Release:
   Non-Debug Version: 99.1K Code, 27.3K Data, 126.4K Total
   Debug Version: 192.8K Code, 79.9K Data, 272.7K Total

2) iASL Compiler/Disassembler and Tools:

iASL compiler: Added compile-time support for all new ACPI 6.0 predefined
names (argument count validation and return value typechecking.)

iASL disassembler and table compiler: implemented support for all new
ACPI 6.0 tables. This includes: DRTM, IORT, LPIT, NFIT, STAO, WPBT, XENV.

iASL disassembler and table compiler: Added ACPI 6.0 changes to existing
tables: FADT, MADT.

iASL preprocessor: Added a new directive to enable inclusion of binary
blobs into ASL code. The new directive is #includebuffer. It takes a
binary file as input and emits a named
 ascii buffer object into the ASL
code.

AcpiHelp: Added support for all new ACPI 6.0 predefined names.

AcpiHelp: Added a new option, -d, to display all iASL preprocessor
directives.

AcpiHelp: Added a new option, -t, to display all known/supported ACPI
tables.

---
10 April 2015. Summary of changes for version 20150410:

Reverted a change introduced in version 20150408 that caused
a regression in the disassembler where incorrect operator
symbols could be emitted.

---
08 April 2015. Summary of changes for version 20150408:

1) ACPICA kernel-resident subsystem:

Permanently set the return value for the _REV predefined name. It now
returns 2 (was 5). This matches other ACPI implementations. _REV will be
deprecated in the future, and is now defined to be 1 for ACPI 1.0, and 2
for ACPI 2.0 and later. It should never be used to differentiate or
identify operating systems.

Added the "Windows 2015" string to
the _OSI support. ACPICA will now
return TRUE to a query with this string.

Fixed several issues with the local version of the printf function.

Added the C99 compiler option (-std=c99) to the Unix makefiles.

Current Release:
Non-Debug Version: 99.9K Code, 27.4K Data, 127.3K Total
Debug Version: 195.2K Code, 80.7K Data, 275.9K Total
Previous Release:
Non-Debug Version: 98.8K Code, 27.3K Data, 126.1K Total
Debug Version: 192.1K Code, 79.8K Data, 271.9K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Implemented an enhancement to the constant folding feature to
transform the parse tree to a simple Store operation whenever possible:
Add (2, 3, X) ==> is converted to: Store (5, X)

X = 2 + 3 ==> is converted to: Store (5, X)

Updated support for the SLIC table (Software Licensing Description Table)
in both the Data Table compiler and the disassembler. The SLIC table
support now conforms to "Microsoft Software Licensing Tables (SLIC and

MSDM). November 29, 2011. Copyright 2011 Microsoft". Note: Any SLIC data
following the ACPI header is now defined to be "Proprietary Data", and as
such, can only be entered or displayed as a hex data block.

Implemented full support for the MSDM table as described in the document
above. Note: The format of MSDM is similar to SLIC. Any MSDM data
following the ACPI header is defined to be "Proprietary Data", and can
only be entered or displayed as a hex data block.

Implemented the -Pn option for the iASL Table Compiler (was only
implemented for the ASL compiler). This option disables the iASL
preprocessor.

Disassembler: For disassembly of Data Tables, added a comment field
around the Ascii equivalent data that is emitted as part of the "Raw
Table Data" block. This prevents the iASL Preprocessor from possible
confusion if/when the table is compiled.

Disassembler: Added an option (-df) to force the disassembler to assume
that the table being disassembled contains valid AML.
This feature is
useful for disassembling AML files that contain ACPI signatures other
than DSDT or SSDT (such as OEMx or other signatures).

Changes for the EFI version of the tools:
1) Fixed a build error/issue
2) Fixed a cast warning

iASL: Fixed a path issue with the __FILE__ operator by making the
directory prefix optional within the internal SplitInputFilename
function.

Debugger: Removed some unused global variables.

Tests: Updated the makefile for proper generation of the AAPITS suite.

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04 February 2015. Summary of changes for version 20150204:

ACPICA kernel-resident subsystem:

Updated all ACPICA copyrights and signons to 2014. Added the 2014
copyright to all module headers and signons, including the standard Linux
header. This affects virtually every file in the ACPICA core subsystem,
iASL compiler, all ACPICA utilities, and the test suites.

Events: Introduce ACPI_GPE_DISPATCH_RAW_HANDLER to fix GPE storm issues.
A raw gpe handling
 mechanism was created to allow better handling of GPE
storms that aren't easily managed by the normal handler. The raw handler
allows disabling/renabling of the GPE so that interrupt storms can be
avoided in cases where events cannot be timely serviced. In this
scenario, handlers should use the AcpiSetGpe() API to disable/enable the
GPE. This API will leave the reference counts undisturbed, thereby
preventing unintentional clearing of the GPE when the intent in only to
temporarily disable it. Raw handlers allow enabling and disabling of a
GPE by removing GPE register locking. As such, raw handlers much provide
their own locks while using GPE API's to protect access to GPE data
structures.
Lv Zheng

Events: Always modify GPE registers under the GPE lock.
Applies GPE lock around AcpiFinishGpe() to protect access to GPE register
values. Reported as bug by joe.liu@apple.com.

Unix makefiles: Separate option to disable optimizations and
_FORTIFY_SOURCE. This change removes the
 _FORTIFY_SOURCE flag from the
NOOPT disable option and creates a separate flag (NOFORTIFY) for this
purpose. Some toolchains may define _FORTIFY_SOURCE which leads redefined
errors when building ACPICA. This allows disabling the option without
also having to disable optimazations.
David Box

 Current Release:
   Non-Debug Version: 101.7K Code, 27.9K Data, 129.6K Total
   Debug Version: 199.2K Code, 82.4K Data, 281.6K Total

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07 November 2014. Summary of changes for version 20141107:

This release is available at https://acpica.org/downloads

This release introduces and implements language extensions to ASL that
provide support for symbolic ("C-style") operators and expressions. These
language extensions are known collectively as ASL+.

1) iASL Compiler/Disassembler and Tools:

Disassembler: Fixed a problem with disassembly of the UartSerialBus
macro. Changed "StopBitsNone" to the correct "StopBitsZero". David E.
Box.

Disassembler:
Fixed the Unicode macro support to add escape sequences.
All non-printable ASCII values are emitted as escape sequences, as well
as the standard escapes for quote and backslash. Ensures that the
disassembled macro can be correctly recompiled.

iASL: Added Printf/Fprintf macros for formatted output. These macros are
translated to existing AML Concatenate and Store operations. Printf
writes to the ASL Debug object. Fprintf allows the specification of an
ASL name as the target. Only a single format specifier is required, %o,
since the AML interpreter dynamically converts objects to the required
type. David E. Box.

```
(old)    Store (Concatenate (Concatenate (Concatenate (Concatenate
           (Concatenate (Concatenate (Concatenate ("", Arg0),
           ": Unexpected value for "), Arg1), ", "), Arg2),
           " at line "), Arg3), Debug)

(new)    Printf ("%o: Unexpected value for %o, %o at line %o",
           Arg0, Arg1, Arg2, Arg3)

(old)
 Store (Concatenate (Concatenate (Concatenate (Concatenate
           ("", Arg1), ": "), Arg0), " Successful"), STR1)

(new)    Fprintf (STR1, "%o: %o Successful", Arg1, Arg0)
```

iASL: Added debug options (-bp, -bt) to dynamically prune levels of the
ASL parse tree before the AML code is generated. This allows blocks of
ASL code to be removed in order to help locate and identify problem
devices and/or code. David E. Box.

AcpiExec: Added support (-fi) for an optional namespace object
initialization file. This file specifies initial values for namespace
objects as necessary for debugging and testing different ASL code paths
that may be taken as a result of BIOS options.

2) Overview of symbolic operator support for ASL (ASL+)

As an extension to the ASL language, iASL implements support for symbolic

(C-style) operators for math and logical expressions. This can greatly simplify ASL code as well as improve both
readability and
maintainability. These language extensions can exist concurrently with all legacy ASL code and expressions.

The symbolic extensions are 100% compatible with existing AML interpreters, since no new AML opcodes are created. To implement the extensions, the iASL compiler transforms the symbolic expressions into the legacy ASL/AML equivalents at compile time.

Full symbolic expressions are supported, along with the standard C precedence and associativity rules.

Full disassembler support for the symbolic expressions is provided, and creates an automatic migration path for existing ASL code to ASL+ code via the disassembly process. By default, the disassembler now emits ASL+ code with symbolic expressions. An option (-dl) is provided to force the disassembler to emit legacy ASL code if desired.

Below is the complete list of the currently supported symbolic operators with examples. See the iASL User Guide for additional information.

ASL+ Syntax	Legacy ASL Equivalent
// Math operators	
Z = X + Y	Add (X, Y, Z)
Z = X - Y	Subtract (X, Y, Z)
Z = X * Y	Multiply (X, Y, Z)
Z = X / Y	Divide (X, Y, , Z)
Z = X % Y	Mod (X, Y, Z)
Z = X << Y	ShiftLeft (X, Y, Z)
Z = X >> Y	ShiftRight (X, Y, Z)
Z = X & Y	And (X, Y, Z)
Z = X | Y	Or (X, Y, Z)
Z = X ^ Y	Xor (X, Y, Z)
Z = ~X	Not (X, Z)
X++	Increment (X)
X--	Decrement (X)
// Logical operators	
(X == Y)	LEqual (X, Y)
(X != Y)	LNotEqual (X, Y)

```
(X < Y)         LLess (X, Y)
(X > Y)         LGreater (X, Y)
(X <= Y)        LLessEqual (X, Y)
(X >= Y)        LGreaterEqual (X, Y)
(X && Y)        LAnd (X, Y)
(X || Y)        LOr (X, Y)
(!X)            LNot (X)

  // Assignment and compound assignment operations

X = Y           Store (Y, X)
X += Y          Add (X, Y, X)
X -= Y          Subtract (X, Y, X)
X *= Y          Multiply (X, Y, X)
X
 /= Y          Divide (X, Y, , X)
X %= Y          Mod (X, Y, X)
X <<= Y         ShiftLeft (X, Y, X)
X >>= Y         ShiftRight (X, Y, X)
X &= Y          And (X, Y, X)
X |= Y          Or (X, Y, X)
X ^= Y          Xor (X, Y, X)
```

3) ASL+ Examples:

Legacy ASL:

```
    If (LOr (LOr (LEqual (And (R510, 0x03FB), 0x02E0), LEqual (
        And (R520, 0x03FB), 0x02E0)), LOr (LEqual (And (R530,
0x03FB),
        0x02E0), LEqual (And (R540, 0x03FB), 0x02E0))))
    {
        And (MEMB, 0xFFFFFFF0, SRMB)
        Store (MEMB, Local2)
        Store (PDBM, Local1)
        And (PDBM, 0xFFFFFFFFFFFFFFF9, PDBM)
        Store (SRMB, MEMB)
        Or (PDBM, 0x02, PDBM)
    }
```

ASL+ version:

```
    If (((R510 & 0x03FB) == 0x02E0) ||
        ((R520 & 0x03FB) == 0x02E0) ||
        ((R530 & 0x03FB) == 0x02E0) ||
        ((R540 & 0x03FB) == 0x02E0))
    {
        SRMB = (MEMB & 0xFFFFFFF0)
```

```
        Local2 = MEMB
        Local1
 = PDBM
        PDBM &= 0xFFFFFFFFFFFFFFF9
        MEMB = SRMB
        PDBM |= 0x02
      }
```

Legacy ASL:

```
      Store (0x1234, Local1)
      Multiply (Add (Add (Local1, TEST), 0x20), Local2, Local3)
      Multiply (Local2, Add (Add (Local1, TEST), 0x20), Local3)
      Add (Local1, Add (TEST, Multiply (0x20, Local2)), Local3)
      Store (Index (PKG1, 0x03), Local6)
      Store (Add (Local3, Local2), Debug)
      Add (Local1, 0x0F, Local2)
      Add (Local1, Multiply (Local2, Local3), Local2)
      Multiply (Add (Add (Local1, TEST), 0x20), ToBCD (Local1), Local3)
```

ASL+ version:

```
      Local1 = 0x1234
      Local3 = (((Local1 + TEST) + 0x20) * Local2)
      Local3 = (Local2 * ((Local1 + TEST) + 0x20))
      Local3 = (Local1 + (TEST + (0x20 * Local2)))
      Local6 = Index (PKG1, 0x03)
      Debug = (Local3 + Local2)
      Local2 = (Local1 + 0x0F)
      Local2 = (Local1 + (Local2 * Local3))
      Local3 = (((Local1 + TEST) + 0x20) * ToBCD (Local1))
```

26
September 2014. Summary of changes for version 20140926:

1) ACPICA kernel-resident subsystem:

Updated the GPIO operation region handler interface (GeneralPurposeIo).
In order to support GPIO Connection objects with multiple pins, along
with the related Field objects, the following changes to the interface
have been made: The Address is now defined to be the offset in bits of
the field unit from the previous invocation of a Connection. It can be
viewed as a "Pin Number Index" into the connection resource descriptor.
The BitWidth is the exact bit width of the field. It is usually one bit,
but not always. See the ACPICA reference guide (section 8.8.6.2.1) for
additional information and examples.

GPE support: During ACPICA/GPE initialization, ensure that all GPEs with

corresponding _Lxx/_Exx methods are disabled (they may have been enabled
by the firmware), so that they cannot fire until they are enabled via
AcpiUpdateAllGpes.
Rafael J. Wysocki.

Added a new return flag for the Event/GPE status interfaces --
AcpiGetEventStatus and AcpiGetGpeStatus. The new
ACPI_EVENT_FLAGS_HAS_HANDLER flag is used to indicate that the event or
GPE currently has a handler associated with it, and can thus actually
affect the system. Lv Zheng.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has a much larger code and data size.

Current Release:
Non-Debug Version: 99.1K Code, 27.3K Data, 126.4K Total
Debug Version: 192.8K Code, 79.9K Data, 272.7K Total
Previous Release:
Non-Debug Version: 98.8K Code, 27.3K Data, 126.1K Total
Debug Version: 192.1K Code, 79.8K Data, 271.9K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Fixed a memory allocation/free regression introduced in 20140828
that could cause the compiler
to crash. This was introduced inadvertently
during the effort to eliminate compiler memory leaks. ACPICA BZ 1111,
1113.

iASL: Removed two error messages that have been found to create false
positives, until they can be fixed and fully validated (ACPICA BZ 1112):
1) Illegal forward reference within a method
2) Illegal reference across two methods

iASL: Implemented a new option (-lm) to create a hardware mapping file
that summarizes all GPIO, I2C, SPI, and UART connections. This option
works for both the compiler and disassembler. See the iASL compiler user
guide for additional information and examples (section 6.4.6).

AcpiDump: Added support for the version 1 (ACPI 1.0) RSDP in addition to
version 2. This corrects the AE_BAD_HEADER exception seen on systems with
a version 1 RSDP. Lv Zheng ACPICA BZ 1097.

AcpiExec: For Unix versions, don't attempt to put STDIN into raw mode
unless STDIN is actually a terminal. Assists with batch-mode processing.
ACPICA BZ 1114.

Disassembler/AcpiHelp:
Added another large group of recognized _HID
values.

---

28 August 2014. Summary of changes for version 20140828:

1) ACPICA kernel-resident subsystem:

Fixed a problem related to the internal use of the Timer() operator where a 64-bit divide could cause an attempted link to a double-precision math library. This divide is not actually necessary, so the code was restructured to eliminate it. Lv Zheng.

ACPI 5.1: Added support for the runtime validation of the _DSD package (similar to the iASL support).

ACPI 5.1/Headers: Added support for the GICC affinity subtable to the SRAT table. Hanjun Guo <hanjun.guo@linaro.org>.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:
Non-Debug Version: 98.8K Code, 27.3K
Data, 126.1K Total
Debug Version: 192.1K Code, 79.8K Data, 271.9K Total
Previous Release:
Non-Debug Version: 98.7K Code, 27.3K Data, 126.0K Total1
Debug Version: 192.0K Code, 79.7K Data, 271.7K Total

2) iASL Compiler/Disassembler and Tools:

AcpiExec: Fixed a problem on unix systems where the original terminal state was not always properly restored upon exit. Seen when using the -v option. ACPICA BZ 1104.

iASL: Fixed a problem with the validation of the ranges/length within the Memory24 resource descriptor. There was a boundary condition when the range was equal to the (length -1) caused by the fact that these values are defined in 256-byte blocks, not bytes. ACPICA BZ 1098

Disassembler: Fixed a problem with the GpioInt descriptor interrupt polarity

flags. The flags are actually 2 bits, not 1, and the "ActiveBoth" keyword
is
now supported properly.

ACPI 5.1: Added the GICC affinity subtable to the SRAT table. Supported
in the disassembler, data table
compiler, and table template generator.

iASL: Added a requirement for Device() objects that one of either a _HID
or _ADR must exist within the scope of a Device, as per the ACPI
specification. Remove a similar requirement that was incorrectly in place
for the _DSD object.

iASL: Added error detection for illegal named references within control
methods that would cause runtime failures. Now trapped as errors are: 1)
References to objects within a non-parent control method. 2) Forward
references (within a method) -- for control methods, AML interpreters use
a one-pass parse of control methods. ACPICA BZ 1008.

iASL: Added error checking for dependencies related to the _PSx power
methods. ACPICA BZ 1029.
1) For _PS0, one of these must exist within the same scope: _PS1, _PS2,
_PS3.
2) For _PS1, _PS2, and PS3: A _PS0 object must exist within the same
scope.

iASL and table compiler: Cleanup miscellaneous memory leaks by fully
deploying the existing object and string caches
and adding new caches for
the table compiler.

iASL: Split the huge parser source file into multiple subfiles to improve
manageability. Generation now requires the M4 macro preprocessor, which
is part of the Bison distribution on both unix and windows platforms.

AcpiSrc: Fixed and removed all extraneous warnings generated during
entire ACPICA source code scan and/or conversion.

---

24 July 2014. Summary of changes for version 20140724:

The ACPI 5.1 specification has been released and is available at:
http://uefi.org/specs/access

0) ACPI 5.1 support in ACPICA:

ACPI 5.1 is fully supported in ACPICA as of this release.

New predefined names. Support includes iASL and runtime ACPICA validation.
_CCA (Cache Coherency Attribute).
_DSD (Device-Specific Data). David Box.

Modifications to existing ACPI tables. Support includes headers, iASL Data Table compiler, disassembler, and the template generator.
FADT - New fields and flags.
Graeme Gregory.
GTDT - One new subtable and new fields. Tomasz Nowicki.
MADT - Two new subtables. Tomasz Nowicki.
PCCT - One new subtable.

Miscellaneous.
New notification type for System Resource Affinity change events.

1) ACPICA kernel-resident subsystem:

Fixed a regression introduced in 20140627 where a fault can happen during the deletion of Alias AML namespace objects. The problem affected both the core ACPICA and the ACPICA tools including iASL and AcpiExec.

Implemented a new GPE public interface, AcpiMarkGpeForWake. Provides a simple mechanism to enable wake GPEs that have no associated handler or control method. Rafael Wysocki.

Updated the AcpiEnableGpe interface to disallow the enable if there is no handler or control method associated with the particular GPE. This will help avoid meaningless GPEs and even GPE floods. Rafael Wysocki.

Updated GPE handling and dispatch by disabling the GPE before clearing the status bit for edge-triggered GPEs. Lv Zheng.

Added Timer() support to the AML Debug object. The current timer value is now displayed with each invocation of (Store to) the debug object to enable simple generation of execution times for AML code (method execution for example.) ACPICA BZ 1093.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:
Non-Debug Version: 98.7K Code, 27.3K Data, 126.0K Total
Debug Version: 192.0K Code, 79.7K Data, 271.7K Total
Previous Release:
Non-Debug Version: 98.7K Code, 27.2K Data, 125.9K Total
Debug Version: 191.7K Code, 79.6K Data, 271.3K Total

2) iASL Compiler/Disassembler and Tools:

Fixed an issue with the recently added local printf implementation,
concerning width/precision specifiers that could cause incorrect output.
Lv Zheng. ACPICA
BZ 1094.

Disassembler: Added support to detect buffers that contain UUIDs and
disassemble them to an invocation of the ToUUID operator. Also emit
commented descriptions of known ACPI-related UUIDs.

AcpiHelp: Added support to display known ACPI-related UUIDs. New option,
-u. Adds three new files.

iASL: Update table compiler and disassembler for DMAR table changes that
were introduced in September 2013. With assistance by David Woodhouse.

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27 June 2014. Summary of changes for version 20140627:

1) ACPICA kernel-resident subsystem:

Formatted Output: Implemented local versions of standard formatted output
utilities such as printf, etc. Over time, it has been discovered that
there are in fact many portability issues with printf, and the addition
of this feature will fix/prevent these issues once and for all. Some
known issues are summarized below:

1) Output of 64-bit values is not portable. For example, UINT64 is %ull
for the Linux
kernel and is %uI64 for some MSVC versions.
2) Invoking printf consistently in a manner that is portable across both
32-bit and 64-bit platforms is difficult at best in many situations.
3) The output format for pointers varies from system to system (leading
zeros especially), and leads to inconsistent output from ACPICA across
platforms.
4) Certain platform-specific printf formats may conflict with ACPICA use.
5) If there is no local C library available, ACPICA now has local support
for printf.

-- To address these printf issues in a complete manner, ACPICA now
directly implements a small subset of printf format specifiers, only
those that it requires. Adds a new file, utilities/utprint.c. Lv Zheng.

Implemented support for ACPICA generation within the EFI environment.
Initially, the AcpiDump utility is supported in the UEFI shell
environment. Lv Zheng.

Added a new external interface, AcpiLogError, to improve ACPICA
portability. This allows the host to redirect error messages
 from the
ACPICA utilities. Lv Zheng.

Added and deployed new OSL file I/O interfaces to improve ACPICA
portability:
 AcpiOsOpenFile
 AcpiOsCloseFile
 AcpiOsReadFile
 AcpiOsWriteFile
 AcpiOsGetFileOffset
 AcpiOsSetFileOffset
There are C library implementations of these functions in the new file
service_layers/oslibcfs.c -- however, the functions can be implemented by
the local host in any way necessary. Lv Zheng.

Implemented a mechanism to disable/enable ACPI table checksum validation
at runtime. This can be useful when loading tables very early during OS
initialization when it may not be possible to map the entire table in
order to compute the checksum. Lv Zheng.

Fixed a buffer allocation issue for the Generic Serial Bus support.
Originally, a fixed buffer length was used. This change allows for
variable-length buffers based upon the protocol indicated by the field
access attributes. Reported by Lan Tianyu. Lv Zheng.

Fixed a problem where an object detached from a
 namespace node was not
properly terminated/cleared and could cause a circular list problem if
reattached. ACPICA BZ 1063. David Box.

Fixed a possible recursive lock acquisition in hwregs.c. Rakib Mullick.

Fixed a possible memory leak in an error return path within the function
AcpiUtCopyIobjectToIobject. ACPICA BZ 1087. Colin Ian King.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and

has a much larger code and data size.

Current Release:
Non-Debug Version: 98.7K Code, 27.2K Data, 125.9K Total
Debug Version: 191.7K Code, 79.6K Data, 271.3K Total
Previous Release:
Non-Debug Version: 96.8K Code, 27.2K Data, 124.0K Total
Debug Version: 189.5K Code, 79.7K Data, 269.2K Total

2) iASL Compiler/Disassembler and Tools:

Disassembler: Add dump of ASCII equivalent text within a comment at the

end of each line of the output for the Buffer() ASL operator.

AcpiDump: Miscellaneous changes:
Fixed repetitive table dump in -n mode.
For older EFI platforms, use the ACPI 1.0 GUID during RSDP search if
the ACPI 2.0 GUID fails.

iASL: Fixed a problem where the compiler could fault if incorrectly given
an acpidump output file as input. ACPICA BZ 1088. David Box.

AcpiExec/AcpiNames: Fixed a problem where these utilities could fault if
they are invoked without any arguments.

Debugger: Fixed a possible memory leak in an error return path. ACPICA BZ
1086. Colin Ian King.

Disassembler: Cleaned up a block of code that extracts a parent Op
object. Added a comment that explains that the parent is guaranteed to be
valid in this case. ACPICA BZ 1069.

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24 April 2014. Summary of changes for version 20140424:

1) ACPICA kernel-resident subsystem:

Implemented support to skip/ignore NULL address entries in the RSDT/XSDT.
Some of these tables
are known to contain a trailing NULL entry. Lv
Zheng.

Removed an extraneous error message for the case where there are a large
number of system GPEs (> 124). This was the "32-bit FADT register is too
long to convert to GAS struct" message, which is irrelevant for GPEs

since the GPEx_BLK_LEN fields of the FADT are always used instead of the (limited capacity) GAS bit length. Also, several changes to ensure proper support for GPE numbers > 255, where some "GPE number" fields were 8-bits internally.

Implemented and deployed additional configuration support for the public ACPICA external interfaces. Entire classes of interfaces can now be easily modified or configured out, replaced by stubbed inline functions by default. Lv Zheng.

Moved all public ACPICA runtime configuration globals to the public ACPICA external interface file for convenience. Also, removed some obsolete/unused globals. See the file acpixf.h. Lv Zheng.

Documentation: Added a new section to the ACPICA reference describing the
maximum number of GPEs that can be supported by the FADT-defined GPEs in block zero and one. About 1200 total. See section 4.4.1 of the ACPICA reference.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:
Non-Debug Version: 96.8K Code, 27.2K Data, 124.0K Total
Debug Version: 189.5K Code, 79.7K Data, 269.2K Total
Previous Release:
Non-Debug Version: 97.0K Code, 27.2K Data, 124.2K Total
Debug Version: 189.7K Code, 79.5K Data, 269.2K Total

2) iASL Compiler/Disassembler and Tools:

iASL and disassembler: Add full support for the LPIT table (Low Power Idle Table). Includes support in the disassembler, data table compiler, and template generator.

AcpiDump utility:
1) Add option to force the use of the RSDT (over the XSDT).
2) Improve validation of the RSDP signature (use 8 chars instead of 4).

iASL: Add check for predefined packages that are too large. For predefined names that contain subpackages, check if each subpackage is too large. (Check for too small already exists.)

Debugger: Updated the GPE command (which simulates a GPE by executing the
GPE code paths in ACPICA). The GPE device is now optional, and defaults
to the GPE 0/1 FADT-defined blocks.

Unix application OSL: Update line-editing support. Add additional error
checking and take care not to reset terminal attributes on exit if they
were never set. This should help guarantee that the terminal is always
left in the previous state on program exit.

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25 March 2014. Summary of changes for version 20140325:

1) ACPICA kernel-resident subsystem:

Updated the auto-serialize feature for control methods. This feature
automatically serializes all methods that create named objects in order

to prevent runtime errors. The update adds support to ignore the
currently executing AML SyncLevel when invoking such a method, in order
to prevent disruption of any existing SyncLevel priorities that may exist
in the AML code. Although the use of SyncLevels is relatively rare, this
change fixes a regression where an AE_AML_MUTEX_ORDER exception can
appear on some machines starting with the 20140214 release.

Added a new external interface to allow the host to install ACPI tables
very early, before the namespace is even created. AcpiInstallTable gives
the host additional flexibility for ACPI table management. Tables can be
installed directly by the host as if they had originally appeared in the
XSDT/RSDT. Installed tables can be SSDTs or other ACPI data tables
(anything except the DSDT and FACS). Adds a new file, tbdata.c, along
with additional internal restructuring and cleanup. See the ACPICA
Reference for interface details. Lv Zheng.

Added validation of the checksum for
all incoming dynamically loaded
tables (via external interfaces or via AML Load/LoadTable operators). Lv
Zheng.

Updated the use of the AcpiOsWaitEventsComplete interface during Notify
and GPE handler removal. Restructured calls to eliminate possible race
conditions. Lv Zheng.

Added a warning for the use/execution of the ASL/AML Unload (table)
operator. This will help detect and identify machines that use this
operator if and when it is ever used. This operator has never been seen
in the field and the usage model and possible side-effects of the drastic
runtime action of a full table removal are unknown.

Reverted the use of #pragma push/pop which was introduced in the 20140214
release. It appears that push and pop are not implemented by enough
compilers to make the use of this feature feasible for ACPICA at this
time. However, these operators may be deployed in a future ACPICA
release.

Added the missing EXPORT_SYMBOL macros for the install and remove SCI
handler interfaces.

Source
code generation:
1) Disabled the use of the "strchr" macro for the gcc-specific
generation. For some versions of gcc, this macro can periodically expose
a compiler bug which in turn causes compile-time error(s).
2) Added support for PPC64 compilation. Colin Ian King.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has a much larger code and data size.

Current Release:
Non-Debug Version: 97.0K Code, 27.2K Data, 124.2K Total
Debug Version: 189.7K Code, 79.5K Data, 269.2K Total
Previous Release:
Non-Debug Version: 96.5K Code, 27.2K Data, 123.7K Total
Debug Version: 188.6K Code, 79.0K Data, 267.6K Total

2) iASL Compiler/Disassembler and Tools:

Disassembler: Added several new features to improve the readability of
the resulting ASL code. Extra information is emitted within
comment
fields in the ASL code:
1) Known _HID/_CID values are decoded to descriptive text.
2) Standard values for the Notify() operator are decoded to descriptive
text.
3) Target operands are expanded to full pathnames (in a comment) when
possible.

Disassembler: Miscellaneous updates for extern() handling:
1) Abort compiler if file specified by -fe option does not exist.
2) Silence unnecessary warnings about argument count mismatches.
3) Update warning messages concerning unresolved method externals.
4) Emit "UnknownObj" keyword for externals whose type cannot be
determined.

AcpiHelp utility:
1) Added the -a option to display both the ASL syntax and the AML
encoding for an input ASL operator. This effectively displays all known
information about an ASL operator with one AcpiHelp invocation.
2) Added substring match support (similar to a wildcard) for the -i
(_HID/PNP IDs) option.

iASL/Disassembler: Since this tool does not yet support execution on big-
endian machines, added
detection of endianness and an error message if
execution is attempted on big-endian. Support for big-endian within iASL
is a feature that is on the ACPICA to-be-done list.

AcpiBin utility:
1) Remove option to extract binary files from an acpidump; this function
is made obsolete by the AcpiXtract utility.
2) General cleanup of open files and allocated buffers.

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14 February 2014. Summary of changes for version 20140214:

1) ACPICA kernel-resident subsystem:

Implemented a new mechanism to proactively prevent problems with ill-
behaved reentrant control methods that create named ACPI objects. This
behavior is illegal as per the ACPI specification, but is nonetheless
frequently seen in the field. Previously, this could lead to an
AE_ALREADY_EXISTS exception if the method was actually entered by more
than one thread. This new mechanism detects such methods at table load
time and marks them "serialized" to prevent reentrancy. A new global

option, AcpiGbl_AutoSerializeMethods, has been added to disable this
feature if desired. This mechanism and global option obsoletes and
supersedes the previous AcpiGbl_SerializeAllMethods option.

Added the "Windows 2013" string to the _OSI support. ACPICA will now
respond TRUE to _OSI queries with this string. It is the stated policy of
ACPICA to add new strings to the _OSI support as soon as possible after
they are defined. See the full ACPICA _OSI policy which has been added to
the utilities/utosi.c file.

Hardened/updated the _PRT return value auto-repair code:
1) Do not abort the repair on a single subpackage failure, continue to
check all subpackages.
2) Add check for the minimum subpackage length (4).
3) Properly handle extraneous NULL package elements.

Added support to avoid the possibility of infinite loops when traversing object linked lists. Never allow an infinite loop, even in the face of corrupted object lists.

ACPICA headers: Deployed the use of #pragma pack(push) and #pragma pack(pop) directives to ensure that the ACPICA headers are independent of compiler settings or other host headers.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:
Non-Debug Version: 96.5K Code, 27.2K Data, 123.7K Total
Debug Version: 188.6K Code, 79.0K Data, 267.6K Total
Previous Release:
Non-Debug Version: 96.2K Code, 27.0K Data, 123.2K Total
Debug Version: 187.5K Code, 78.3K Data, 265.8K Total

2) iASL Compiler/Disassembler and Tools:

iASL/Table-compiler: Fixed a problem with support for the SPMI table. The first reserved field was incorrectly forced to have a value of zero. This change correctly forces the field to have a value of one. ACPICA BZ 1081.

Debugger: Added missing support for the "Extra" and "Data" subobjects when displaying object data.

Debugger: Added support to display entire object linked lists when displaying object data.

iASL: Removed the obsolete -g option to obtain ACPI tables from the Windows registry. This feature has been superseded by the acpidump utility.

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14 January 2014. Summary of changes for version 20140114:

1) ACPICA kernel-resident subsystem:

Updated all ACPICA copyrights and signons to 2014. Added the 2014 copyright to all module headers and signons, including the standard Linux

header. This affects virtually every file in the ACPICA core subsystem, iASL compiler, all ACPICA utilities, and the test suites.

Improved parameter validation for AcpiInstallGpeBlock. Added the following checks:
1) The incoming device handle refers to type ACPI_TYPE_DEVICE.
2) There is not already a GPE block attached to the device.
Likewise, with AcpiRemoveGpeBlock, ensure that the incoming object is a device.

Correctly
support "references" in the ACPI_OBJECT. This change fixes the support to allow references (namespace nodes) to be passed as arguments to control methods via the evaluate object interface. This is probably most useful for testing purposes, however.

Improved support for 32/64 bit physical addresses in printf()-like output. This change improves the support for physical addresses in printf debug statements and other output on both 32-bit and 64-bit hosts. It consistently outputs the appropriate number of bytes for each host. The %p specifier is unsatisfactory since it does not emit uniform output on all hosts/clib implementations (on some, leading zeros are not supported, leading to difficult-to-read output).

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:
Non-Debug Version: 96.2K Code, 27.0K Data, 123.2K Total
Debug Version: 187.5K Code, 78.3K Data, 265.8K Total
Previous Release:
Non-Debug Version: 96.1K Code, 27.0K Data, 123.1K Total
Debug Version: 185.6K Code, 77.3K Data, 262.9K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Fix a possible fault when using the Connection() operator. Fixes a problem if the parent Field definition for the Connection operator refers to an operation region that does not exist. ACPICA BZ 1064.

AcpiExec: Load of local test tables is now optional. The utility has the capability to load some various tables to test features of ACPICA. However, there are enough of them that the output of the utility became confusing. With this change, only the required local tables are displayed (RSDP, XSDT, etc.) along with the actual tables loaded via the command

line specification. This makes the default output simler and easier to understand. The -el command line option restores
the original behavior
for testing purposes.

AcpiExec: Added support for overlapping operation regions. This change expands the simulation of operation regions by supporting regions that overlap within the given address space. Supports SystemMemory and SystemIO. ASLTS test suite updated also. David Box. ACPICA BZ 1031.

AcpiExec: Added region handler support for PCI_Config and EC spaces. This allows AcpiExec to simulate these address spaces, similar to the current support for SystemMemory and SystemIO.

Debugger: Added new command to read/write/compare all namespace objects. The command "test objects" will exercise the entire namespace by writing new values to each data object, and ensuring that the write was successful. The original value is then restored and verified.

Debugger: Added the "test predefined" command. This change makes this test public and puts it under the new "test" command. The test executes each and every predefined name within the current namespace.

18
December 2013. Summary of changes for version 20131218:

Global note: The ACPI 5.0A specification was released this month. There are no changes needed for ACPICA since this release of ACPI is an errata/clarification release. The specification is available at acpi.info.

1) ACPICA kernel-resident subsystem:

Added validation of the XSDT root table if it is present. Some older platforms contain an XSDT that is ill-formed or otherwise invalid (such as containing some or all entries that are NULL pointers). This change adds a new function to validate the XSDT before actually using it. If the XSDT is found to be invalid, ACPICA will now automatically fall back to using the RSDT instead. Original implementation by Zhao Yakui. Ported to ACPICA and enhanced by Lv Zheng and Bob Moore.

Added a runtime option to ignore the XSDT and force the use of the RSDT. This change adds a runtime option that will force ACPICA to use the RSDT instead

of the XSDT (AcpiGbl_DoNotUseXsdt). Although the ACPI spec
requires that an XSDT be used instead of the RSDT, the XSDT has been
found to be corrupt or ill-formed on some machines. Lv Zheng.

Added a runtime option to favor 32-bit FADT register addresses over the
64-bit addresses. This change adds an option to favor 32-bit FADT
addresses when there is a conflict between the 32-bit and 64-bit versions
of the same register. The default behavior is to use the 64-bit version
in accordance with the ACPI specification. This can now be overridden via
the AcpiGbl_Use32BitFadtAddresses flag. ACPICA BZ 885. Lv Zheng.

During the change above, the internal "Convert FADT" and "Verify FADT"
functions have been merged to simplify the code, making it easier to
understand and maintain. ACPICA BZ 933.

Improve exception reporting and handling for GPE block installation.
Return an actual status from AcpiEvGetGpeXruptBlock and don't clobber the
status when exiting AcpiEvInstallGpeBlock. ACPICA
BZ 1019.

Added helper macros to extract bus/segment numbers from the HEST table.
This change adds two macros to extract the encoded bus and segment
numbers from the HEST Bus field - ACPI_HEST_BUS and ACPI_HEST_SEGMENT.
Betty Dall <betty.dall@hp.com>

Removed the unused ACPI_FREE_BUFFER macro. This macro is no longer used
by ACPICA. It is not a public macro, so it should have no effect on
existing OSV code. Lv Zheng.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has a much larger code and data size.

Current Release:
  Non-Debug Version: 96.1K Code, 27.0K Data, 123.1K Total
  Debug Version: 185.6K Code, 77.3K Data, 262.9K Total
Previous Release:
  Non-Debug Version: 95.9K Code, 27.0K Data, 122.9K Total
  Debug Version: 185.1K Code, 77.2K Data, 262.3K Total

2) iASL Compiler/Disassembler
and Tools:

Disassembler: Improved pathname support for emitted External()
statements. This change adds full pathname support for external names
that have been resolved internally by the inclusion of additional ACPI

tables (via the iASL -e option). Without this change, the disassembler can emit multiple externals for the same object, or it become confused when the Scope() operator is used on an external object. Overall, greatly improves the ability to actually recompile the emitted ASL code when objects a referenced across multiple ACPI tables. Reported by Michael Tsirkin (mst@redhat.com).

Tests/ASLTS: Updated functional control suite to execute with no errors. David Box. Fixed several errors related to the testing of the interpreter slack mode. Lv Zheng.

iASL: Added support to detect names that are declared within a control method, but are unused (these are temporary names that are only valid during the time the method is executing). A remark is issued for these cases.
ACPICA BZ 1022.

iASL: Added full support for the DBG2 table. Adds full disassembler, table compiler, and template generator support for the DBG2 table (Debug Port 2 table).

iASL: Added full support for the PCCT table, update the table definition. Updates the PCCT table definition in the actbl3.h header and adds table compiler and template generator support.

iASL: Added an option to emit only error messages (no warnings/remarks). The -ve option will enable only error messages, warnings and remarks are suppressed. This can simplify debugging when only the errors are important, such as when an ACPI table is disassembled and there are many warnings and remarks -- but only the actual errors are of real interest.

Example ACPICA code (source/tools/examples): Updated the example code so that it builds to an actual working program, not just example code. Added ACPI tables and execution of an example control method in the DSDT. Added makefile support for Unix generation.

15
November 2013. Summary of changes for version 20131115:

This release is available at https://acpica.org/downloads

1) ACPICA kernel-resident subsystem:

Resource Manager: Fixed loop termination for the "get AML length" function. The loop previously had an error termination on a NULL resource

pointer, which can never happen since the loop simply increments a valid resource pointer. This fix changes the loop to terminate with an error on an invalid end-of-buffer condition. The problem can be seen as an infinite loop by callers to AcpiSetCurrentResources with an invalid or corrupted resource descriptor, or a resource descriptor that is missing an END_TAG descriptor. Reported by Dan Carpenter <dan.carpenter@oracle.com>. Lv Zheng, Bob Moore.

Table unload and ACPICA termination: Delete all attached data objects during namespace node deletion. This fix updates namespace node deletion to delete the entire list of attached objects (attached
via
AcpiAttachObject) instead of just one of the attached items. ACPICA BZ 1024. Tomasz Nowicki (tomasz.nowicki@linaro.org).

ACPICA termination: Added support to delete all objects attached to the root namespace node. This fix deletes any and all objects that have been attached to the root node via AcpiAttachData. Previously, none of these objects were deleted. Reported by Tomasz Nowicki. ACPICA BZ 1026.

Debug output: Do not emit the function nesting level for the in-kernel build. The nesting level is really only useful during a single-thread execution. Therefore, only enable this output for the AcpiExec utility. Also, only emit the thread ID when executing under AcpiExec (Context switches are still always detected and a message is emitted). ACPICA BZ 972.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has
a much larger code and data size.

Current Release:
Non-Debug Version: 95.9K Code, 27.0K Data, 122.9K Total
Debug Version: 185.1K Code, 77.2K Data, 262.3K Total
Previous Release:
Non-Debug Version: 95.8K Code, 27.0K Data, 122.8K Total
Debug Version: 185.2K Code, 77.2K Data, 262.4K Total

2) iASL Compiler/Disassembler and Tools:

AcpiExec/Unix-OSL: Use <termios.h> instead of <termio.h>. This is the correct portable POSIX header for terminal control functions.

Disassembler: Fixed control method invocation issues related to the use of the CondRefOf() operator. The problem is seen in the disassembly where

control method invocations may not be disassembled properly if the
control method name has been used previously as an argument to CondRefOf.
The solution is to not attempt to emit an external declaration for the
CondRefOf target (it is not necessary in the first place). This prevents
disassembler object type confusion. ACPICA BZ 988.

Unix Makefiles:
Added an option to disable compiler optimizations and the
_FORTIFY_SOURCE flag. Some older compilers have problems compiling ACPICA
with optimizations (reportedly, gcc 4.4 for example). This change adds a
command line option for make (NOOPT) that disables all compiler
optimizations and the _FORTIFY_SOURCE compiler flag. The default
optimization is -O2 with the _FORTIFY_SOURCE flag specified. ACPICA BZ
1034. Lv Zheng, Bob Moore.

Tests/ASLTS: Added options to specify individual test cases and modes.
This allows testers running aslts.sh to optionally specify individual
test modes and test cases. Also added an option to disable the forced
generation of the ACPICA tools from source if desired. Lv Zheng.

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27 September 2013. Summary of changes for version 20130927:

This release is available at https://acpica.org/downloads

1) ACPICA kernel-resident subsystem:

Fixed a problem with store operations to reference objects. This change
fixes
a problem where a Store operation to an ArgX object that contained
a
reference to a field object did not complete the automatic dereference
and
then write to the actual field object. Instead, the object type of the
field object was inadvertently changed to match the type of the source
operand. The new behavior will actually write to the field object (buffer
field or field unit), thus matching the correct ACPI-defined behavior.

Implemented support to allow the host to redefine individual OSL
prototypes. This change enables the host to redefine OSL prototypes found
in the acpiosxf.h file. This allows the host to implement OSL interfaces
with a macro or inlined function. Further, it allows the host to add any
additional required modifiers such as __iomem, __init, __exit, etc., as
necessary on a per-interface basis. Enables maximum flexibility for the
OSL interfaces. Lv Zheng.

Hardcoded the access width for the FADT-defined reset register. The ACPI

specification requires
the reset register width to be 8 bits. ACPICA now
hardcodes the width to 8 and ignores the FADT width value. This provides
compatibility with other ACPI implementations that have allowed BIOS code
with bad register width values to go unnoticed. Matthew Garett, Bob
Moore,
Lv Zheng.

Changed the position/use of the ACPI_PRINTF_LIKE macro. This macro is
used
in the OSL header (acpiosxf). The change modifies the position of this
macro in each instance where it is used (AcpiDebugPrint, etc.) to avoid
build issues if the OSL defines the implementation of the interface to be
an inline stub function. Lv Zheng.

Deployed a new macro ACPI_EXPORT_SYMBOL_INIT for the main ACPICA
initialization interfaces. This change adds a new macro for the main init
and terminate external interfaces in order to support hosts that require
additional or different processing for these functions. Changed from
ACPI_EXPORT_SYMBOL to ACPI_EXPORT_SYMBOL_INIT for these functions. Lv
Zheng, Bob Moore.

Cleaned
up the memory allocation macros for configurability. In the
common
case, the ACPI_ALLOCATE and related macros now resolve directly to their
respective AcpiOs* OSL interfaces. Two options:
1) The ACPI_ALLOCATE_ZEROED macro uses a simple local implementation by
default, unless overridden by the USE_NATIVE_ALLOCATE_ZEROED define.
2) For AcpiExec (and for debugging), the macros can optionally be
resolved
to the local ACPICA interfaces that track each allocation (local tracking
is used to immediately detect memory leaks).
Lv Zheng.

Simplified the configuration for ACPI_REDUCED_HARDWARE. Allows the kernel
to predefine this macro to either TRUE or FALSE during the system build.

Replaced __FUNCTION_ with __func__ in the gcc-specific header.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has a much larger code
and data size.

Current Release:
Non-Debug Version: 95.8K Code, 27.0K Data, 122.8K Total

Debug Version: 185.2K Code, 77.2K Data, 262.4K Total
Previous Release:
Non-Debug Version: 96.7K Code, 27.1K Data, 123.9K Total
Debug Version: 184.4K Code, 76.8K Data, 261.2K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Implemented wildcard support for the -e option. This simplifies use when there are many SSDTs that must be included to resolve external method
declarations. ACPICA BZ 1041. Example:
iasl -e ssdt*.dat -d dsdt.dat

AcpiExec: Add history/line-editing for Unix/Linux systems. This change adds a portable module that implements full history and limited line editing for Unix and Linux systems. It does not use readline() due to portability issues. Instead it uses the POSIX termio interface to put the terminal in raw input mode so that the various special keys can be trapped
(such as up/down-arrow for history support and left/right-arrow for line
editing). Uses the existing debugger history mechanism. ACPICA BZ 1036.

AcpiXtract: Add support to handle (ignore) "empty" lines containing only one or more spaces. This provides compatible with early or different versions of the AcpiDump utility. ACPICA BZ 1044.

AcpiDump: Do not ignore tables that contain only an ACPI table header. Apparently, some BIOSs create SSDTs that contain an ACPI table header but no other data. This change adds support to dump these tables. Any tables shorter than the length of an ACPI table header remain in error (an error message is emitted). Reported by Yi Li.

Debugger: Echo actual command along with the "unknown command" message.

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23 August 2013. Summary of changes for version 20130823:

1) ACPICA kernel-resident subsystem:

Implemented support for host-installed System Control Interrupt (SCI) handlers. Certain ACPI functionality requires the host to handle raw SCIs. For example, the "SCI Doorbell" that is defined for memory power
state support requires the host device driver to handle SCIs to examine if the doorbell has been activated. Multiple SCI handlers can be installed to allow for future expansion. New external interfaces are

AcpiInstallSciHandler, AcpiRemoveSciHandler; see the ACPICA reference for details. Lv Zheng, Bob Moore. ACPICA BZ 1032.

Operation region support: Never locally free the handler "context" pointer. This change removes some dangerous code that attempts to free the handler context pointer in some (rare) circumstances. The owner of the handler owns this pointer and the ACPICA code should never touch it. Although not seen to be an issue in any kernel, it did show up as a problem (fault) under AcpiExec. Also, set the internal storage field for the context pointer to zero when the region is deactivated, simply for sanity. David Box. ACPICA BZ 1039.

AcpiRead: On error, do not modify the return value target location. If an error happens in the
middle of a split 32/32 64-bit I/O operation, do not
modify the target of the return value pointer. Makes the code consistent with the rest of ACPICA. Bjorn Helgaas.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current Release:
Non-Debug Version: 96.7K Code, 27.1K Data, 123.9K Total
Debug Version: 184.4K Code, 76.8K Data, 261.2K Total
Previous Release:
Non-Debug Version: 96.2K Code, 27.1K Data, 123.3K Total
Debug Version: 185.4K Code, 77.1K Data, 262.5K Total

2) iASL Compiler/Disassembler and Tools:

AcpiDump: Implemented several new features and fixed some problems:
1) Added support to dump the RSDP, RSDT, and XSDT tables.
2) Added support for multiple table instances (SSDT, UEFI).
3) Added option to dump "customized" (overridden) tables (-c).
4)
Fixed a problem where some table filenames were improperly constructed.
5) Improved some error messages, removed some unnecessary messages.

iASL: Implemented additional support for disassembly of ACPI tables that contain invocations of external control methods. The -fe<file> option allows the import of a file that specifies the external methods along with the required number of arguments for each -- allowing for the correct disassembly of the table. This is a workaround for a limitation of AML code where the disassembler often cannot determine the number of

arguments required for an external control method and generates incorrect ASL code. See the iASL reference for details. ACPICA BZ 1030.

Debugger: Implemented a new command (paths) that displays the full pathnames (namepaths) and object types of all objects in the namespace. This is an alternative to the namespace command.

Debugger: Implemented a new command (sci) that invokes the SCI dispatch mechanism and any installed
handlers.

iASL: Fixed a possible segfault for "too many parent prefixes" condition. This can occur if there are too many parent prefixes in a namepath (for example, ^^^^^^PCI0.ECRD). ACPICA BZ 1035.

Application OSLs: Set the return value for the PCI read functions. These functions simply return AE_OK, but should set the return value to zero also. This change implements this. ACPICA BZ 1038.

Debugger: Prevent possible command line buffer overflow. Increase the size of a couple of the debugger line buffers, and ensure that overflow cannot happen. ACPICA BZ 1037.

iASL: Changed to abort immediately on serious errors during the parsing phase. Due to the nature of ASL, there is no point in attempting to compile these types of errors, and they typically end up causing a cascade of hundreds of errors which obscure the original problem.

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25 July 2013. Summary of changes for version 20130725:

1) ACPICA kernel-resident subsystem:

Fixed
a problem with the DerefOf operator where references to FieldUnits and BufferFields incorrectly returned the parent object, not the actual value of the object. After this change, a dereference of a FieldUnit reference results in a read operation on the field to get the value, and likewise, the appropriate BufferField value is extracted from the target buffer.

Fixed a problem where the _WAK method could cause a fault under these circumstances: 1) Interpreter slack mode was not enabled, and 2) the _WAK method returned no value. The problem is rarely seen because most kernels run ACPICA in slack mode.

For the DerefOf operator, a fatal error now results if an attempt is made to dereference a reference (created by the Index operator) to a NULL

package element. Provides compatibility with other ACPI implementations, and this behavior will be added to a future version of the ACPI specification.

The ACPI Power Management Timer (defined in the FADT) is now optional. This provides
compatibility with other ACPI implementations and will
appear in the next version of the ACPI specification. If there is no PM Timer on the platform, AcpiGetTimer returns AE_SUPPORT. An address of zero in the FADT indicates no PM timer.

Implemented a new interface for _OSI support, AcpiUpdateInterfaces. This allows the host to globally enable/disable all vendor strings, all feature strings, or both. Intended to be primarily used for debugging purposes only. Lv Zheng.

Expose the collected _OSI data to the host via a global variable. This data tracks the highest level vendor ID that has been invoked by the BIOS so that the host (and potentially ACPICA itself) can change behaviors based upon the age of the BIOS.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Current
Release:
Non-Debug Version: 96.2K Code, 27.1K Data, 123.3K Total
Debug Version: 184.4K Code, 76.8K Data, 261.2K Total
Previous Release:
Non-Debug Version: 95.9K Code, 26.9K Data, 122.8K Total
Debug Version: 184.1K Code, 76.7K Data, 260.8K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Created the following enhancements for the -so option (create offset table):
1)Add offsets for the last nameseg in each namepath for every supported object type
2)Add support for Processor, Device, Thermal Zone, and Scope objects
3)Add the actual AML opcode for the parent object of every supported object type
4)Add support for the ZERO/ONE/ONES AML opcodes for integer objects

Disassembler: Emit all unresolved external symbols in a single block. These are external references to control methods that could not be

resolved, and thus, the disassembler had to make a guess at the number of
arguments to parse.

iASL: The argument to the -T option (create table template)
 is now
optional. If not specified, the default table is a DSDT, typically the
most common case.

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26 June 2013. Summary of changes for version 20130626:

1) ACPICA kernel-resident subsystem:

Fixed an issue with runtime repair of the _CST object. Null or invalid
elements were not always removed properly. Lv Zheng.

Removed an arbitrary restriction of 256 GPEs per GPE block (such as the
FADT-defined GPE0 and GPE1). For GPE0, GPE1, and each GPE Block Device,
the maximum number of GPEs is 1016. Use of multiple GPE block devices
makes the system-wide number of GPEs essentially unlimited.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has a much larger code and data size.

 Current Release:
   Non-Debug Version: 95.9K Code, 26.9K Data, 122.8K Total
   Debug Version:
     184.1K Code, 76.7K Data, 260.8K Total
 Previous Release:
   Non-Debug Version: 96.0K Code, 27.0K Data, 123.0K Total
   Debug Version: 184.1K Code, 76.8K Data, 260.9K Total

2) iASL Compiler/Disassembler and Tools:

Portable AcpiDump: Implemented full support for the Linux and FreeBSD
hosts. Now supports Linux, FreeBSD, and Windows.

Disassembler: Added some missing types for the HEST and EINJ tables: "Set
Error Type With Address", "CMCI", "MCE", and "Flush Cacheline".

iASL/Preprocessor: Implemented full support for nested
#if/#else/#elif/#endif blocks. Allows arbitrary depth of nested blocks.

Disassembler: Expanded maximum output string length to 64K. Was 256 bytes
max. The original purpose of this constraint was to limit the amount of

debug output. However, the string function in question (UtPrintString) is
now used for the disassembler also, where 256 bytes is insufficient.
Reported by RehabMan@GitHub.

iASL/DataTables: Fixed some problems and issues with compilation
of DMAR
tables. ACPICA BZ 999. Lv Zheng.

iASL: Fixed a couple of error exit issues that could result in a "Could
not delete <file>" message during ASL compilation.

AcpiDump: Allow "FADT" and "MADT" as valid table signatures, even though
the actual signatures for these tables are "FACP" and "APIC",
respectively.

AcpiDump: Added support for multiple UEFI tables. Only SSDT and UEFI
tables are allowed to have multiple instances.

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17 May 2013. Summary of changes for version 20130517:

1) ACPICA kernel-resident subsystem:

Fixed a regression introduced in version 20130328 for _INI methods. This
change fixes a problem introduced in 20130328 where _INI methods are no
longer executed properly because of a memory block that was not
initialized correctly. ACPICA BZ 1016. Tomasz Nowicki
<tomasz.nowicki@linaro.org>.

Fixed a possible problem with the new extended sleep registers in the
ACPI
5.0 FADT. Do not use these registers (even if populated)
unless the HW-
reduced bit is set in the FADT (as per the ACPI specification). ACPICA BZ
1020. Lv Zheng.

Implemented return value repair code for _CST predefined objects: Sort
the
list and detect/remove invalid entries. ACPICA BZ 890. Lv Zheng.

Implemented a debug-only option to disable loading of SSDTs from the
RSDT/XSDT during ACPICA initialization. This can be useful for debugging
ACPI problems on some machines. Set AcpiGbl_DisableSsdtTableLoad in
acglobal.h - ACPICA BZ 1005. Lv Zheng.

Fixed some issues in the ACPICA initialization and termination code:
Tomasz Nowicki <tomasz.nowicki@linaro.org>
1) Clear events initialized flag upon event component termination. ACPICA

BZ 1013.
2) Fixed a possible memory leak in GPE init error path. ACPICA BZ 1018.
3) Delete global lock pending lock during termination. ACPICA BZ 1012.
4) Clear debug buffer global on termination to prevent possible multiple
delete. ACPICA BZ 1010.

Standardized all switch() blocks across the entire
source base. After
many
years, different formatting for switch() had crept in. This change makes
the formatting of every switch block identical. ACPICA BZ 997. Chao Guan.

Split some files to enhance ACPICA modularity and configurability:
1) Split buffer dump routines into utilities/utbuffer.c
2) Split internal error message routines into utilities/uterror.c
3) Split table print utilities into tables/tbprint.c
4) Split iASL command-line option processing into asloptions.c

Makefile enhancements:
1) Support for all new files above.
2) Abort make on errors from any subcomponent. Chao Guan.
3) Add build support for Apple Mac OS X. Liang Qi.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has a much larger code and data size.

Current Release:
Non-Debug Version: 96.0K Code, 27.0K Data, 123.0K Total
Debug
Version: 184.1K Code, 76.8K Data, 260.9K Total
Previous Release:
Non-Debug Version: 95.6K Code, 26.8K Data, 122.4K Total
Debug Version: 183.5K Code, 76.6K Data, 260.1K Total

2) iASL Compiler/Disassembler and Tools:

New utility: Implemented an easily portable version of the acpidump
utility to extract ACPI tables from the system (or a file) in an ASCII
hex
dump format. The top-level code implements the various command line
options, file I/O, and table dump routines. To port to a new host, only
three functions need to be implemented to get tables -- since this
functionality is OS-dependent. See the tools/acpidump/apmain.c module and
the ACPICA reference for porting instructions. ACPICA BZ 859. Notes:
1) The Windows version obtains the ACPI tables from the Registry.

2) The Linux version is under development.
3) Other hosts - If an OS-dependent module is submitted, it will be
distributed with ACPICA.

iASL: Fixed a regression for -D preprocessor option (define
symbol). A
restructuring/change to the initialization sequence caused this option to
no longer work properly.

iASL: Implemented a mechanism to disable specific warnings and remarks.
Adds a new command line option, "-vw <messageid> as well as "#pragma
disable <messageid>". ACPICA BZ 989. Chao Guan, Bob Moore.

iASL: Fix for too-strict package object validation. The package object
validation for return values from the predefined names is a bit too
strict, it does not allow names references within the package (which will
be resolved at runtime.) These types of references cannot be validated at
compile time. This change ignores named references within package objects
for names that return or define static packages.

Debugger: Fixed the 80-character command line limitation for the History
command. Now allows lines of arbitrary length. ACPICA BZ 1000. Chao Guan.

iASL: Added control method and package support for the -so option
(generates AML offset table for BIOS support.)

iASL:
issue a remark if a non-serialized method creates named objects. If
a thread blocks within the method for any reason, and another thread
enters the method, the method will fail because an attempt will be made
to
create the same (named) object twice. In this case, issue a remark that
the method should be marked serialized. NOTE: may become a warning later.
ACPICA BZ 909.

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18 April 2013. Summary of changes for version 20130418:

1) ACPICA kernel-resident subsystem:

Fixed a possible buffer overrun during some rare but specific field unit
read operations. This overrun can only happen if the DSDT version is 1 --
meaning that all AML integers are 32 bits -- and the field length is
between 33 and 55 bits long. During the read, an internal buffer object
is
created for the field unit because the field is larger than an integer
(32
bits). However, in this case, the buffer will be incorrectly written

beyond the end because the buffer length
is less than the internal
minimum
of 64 bits (8 bytes) long. The buffer will be either 5, 6, or 7 bytes
long, but a full 8 bytes will be written.

Updated the Embedded Controller "orphan" _REG method support. This refers
to _REG methods under the EC device that have no corresponding operation
region. This is allowed by the ACPI specification. This update removes a
dependency on the existence an ECDT table. It will execute an orphan _REG
method as long as the operation region handler for the EC is installed at
the EC device node and not the namespace root. Rui Zhang (original
update), Bob Moore (update/integrate).

Implemented run-time argument typechecking for all predefined ACPI names
(_STA, _BIF, etc.) This change performs object typechecking on all
incoming arguments for all predefined names executed via
AcpiEvaluateObject. This ensures that ACPI-related device drivers are
passing correct object types as well as the correct number of arguments
(therefore identifying
any issues immediately). Also, the ASL/namespace
definition of the predefined name is checked against the ACPI
specification for the proper argument count. Adds one new file,
nsarguments.c

Changed an exception code for the ASL UnLoad() operator. Changed the
exception code for the case where the input DdbHandle is invalid, from
AE_BAD_PARAMETER to the more appropriate AE_AML_OPERAND_TYPE.

Unix/Linux makefiles: Removed the use of the -O2 optimization flag in the
global makefile. The use of this flag causes compiler errors on earlier
versions of GCC, so it has been removed for compatibility.

Miscellaneous cleanup:
1) Removed some unused/obsolete macros
2) Fixed a possible memory leak in the _OSI support
3) Removed an unused variable in the predefined name support
4) Windows OSL: remove obsolete reference to a memory list field

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The
debug
version of the code includes the debug output trace mechanism and
has a much larger code and data size.

Current Release:
Non-Debug Version: 95.2K Code, 26.4K Data, 121.6K Total
Debug Version: 183.0K Code, 76.0K Data, 259.0K Total

Previous Release:
Non-Debug Version: 95.6K Code, 26.8K Data, 122.4K Total
Debug Version: 183.5K Code, 76.6K Data, 260.1K Total

2) iASL Compiler/Disassembler and Tools:

AcpiExec: Added installation of a handler for the SystemCMOS address space. This prevents control method abort if a method accesses this space.

AcpiExec: Added support for multiple EC devices, and now install EC operation region handler(s) at the actual EC device instead of the namespace root. This reflects the typical behavior of host operating systems.

AcpiExec: Updated to ensure that all operation region handlers are installed before the _REG methods are executed. This prevents a _REG method from aborting if it accesses an address space has no handler.

AcpiExec installs a handler for every possible address space.

Debugger: Enhanced the "handlers" command to display non-root handlers. This change enhances the handlers command to display handlers associated with individual devices throughout the namespace, in addition to the currently supported display of handlers associated with the root namespace
node.

ASL Test Suite: Several test suite errors have been identified and resolved, reducing the total error count during execution. Chao Guan.

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28 March 2013. Summary of changes for version 20130328:

1) ACPICA kernel-resident subsystem:

Fixed several possible race conditions with the internal object reference counting mechanism. Some of the external ACPICA interfaces update object reference counts without holding the interpreter or namespace lock. This change adds a spinlock to protect reference count updates on the internal ACPICA objects. Reported by and with assistance from Andriy Gapon
(avg@FreeBSD.org).

FADT support: Removed an extraneous warning for very large GPE register sets. This change removes a size mismatch warning if the legacy length field for a GPE register set is larger than the 64-bit GAS structure can

accommodate. GPE register sets can be larger than the 255-bit width limitation of the GAS structure. Linn Crosetto (linn@hp.com).

_OSI Support: handle any errors from AcpiOsAcquireMutex. Check for error return from this interface. Handles a possible timeout case if ACPI_WAIT_FOREVER is modified by the host to be a value less than "forever". Jung-uk Kim.

Predefined name support: Add allowed/required argument type information to
the master predefined info table. This change adds the infrastructure to enable typechecking on incoming arguments for all predefined methods/objects. It does not actually contain the code that will fully utilize this information, this is still under development. Also condenses some duplicate code for the
predefined names into a new module,
utilities/utpredef.c

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:
Non-Debug Version: 95.0K Code, 25.9K Data, 120.9K Total
Debug Version: 182.9K Code, 75.6K Data, 258.5K Total
Current Release:
Non-Debug Version: 95.2K Code, 26.4K Data, 121.6K Total
Debug Version: 183.0K Code, 76.0K Data, 259.0K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Implemented a new option to simplify the development of ACPI-related
BIOS code. Adds support for a new "offset table" output file. The -so option will create a C table containing the AML table offsets of various named objects in the namespace so that BIOS code can modify them easily at
boot time. This can simplify BIOS runtime code by eliminating
expensive
searches for "magic values", enhancing boot times and adding greater reliability. With assistance from Lee Hamel.

iASL: Allow additional predefined names to return zero-length packages. Now, all predefined names that are defined by the ACPI specification to return a "variable-length package of packages" are allowed to return a zero length top-level package. This allows the BIOS to tell the host that

the requested feature is not supported, and supports existing BIOS/ASL code and practices.

iASL: Changed the "result not used" warning to an error. This is the case where an ASL operator is effectively a NOOP because the result of the operation is not stored anywhere. For example:
  Add (4, Local0)
There is no target (missing 3rd argument), nor is the function return value used. This is potentially a very serious problem -- since the code was probably intended to do something, but for whatever reason, the value was not stored. Therefore, this issue has been upgraded from a warning to an error.

AcpiHelp: Added allowable/required argument types to the predefined names info display. This feature utilizes the recent update to the predefined names table (above).

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14 February 2013. Summary of changes for version 20130214:

1) ACPICA Kernel-resident Subsystem:

Fixed a possible regression on some hosts: Reinstated the safe return macros (return_ACPI_STATUS, etc.) that ensure that the argument is evaluated only once. Although these macros are not needed for the ACPICA code itself, they are often used by ACPI-related host device drivers where the safe feature may be necessary.

Fixed several issues related to the ACPI 5.0 reduced hardware support (SOC): Now ensure that if the platform declares itself as hardware-reduced via the FADT, the following functions become NOOPs (and always return AE_OK) because ACPI is always enabled by definition on these machines:
 AcpiEnable
 AcpiDisable
 AcpiHwGetMode
 AcpiHwSetMode

Dynamic Object Repair: Implemented additional runtime repairs for predefined name return values. Both of these repairs can simplify code in the related device drivers that invoke these methods:
1) For the _STR and _MLS names, automatically repair/convert an ASCII string to a Unicode buffer.
2) For the _CRS, _PRS, and _DMA names, return a resource descriptor with a lone end tag descriptor in the following cases: A Return(0) was executed,

a null buffer was returned, or no object at all was returned (non-slack mode only). Adds a new file, nsconvert.c
ACPICA BZ 998. Bob Moore, Lv Zheng.

Resource Manager: Added additional code to prevent possible infinite loops
while traversing corrupted or ill-formed resource template buffers. Check for zero-length resource descriptors in all code that loops through resource templates (the length field is used to index through the template). This change also hardens the external AcpiWalkResources and AcpiWalkResourceBuffer
interfaces.

Local Cache Manager: Enhanced the main data structure to eliminate an unnecessary mechanism to access the next object in the list. Actually provides a small performance enhancement for hosts that use the local ACPICA cache manager. Jung-uk Kim.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:
Non-Debug Version: 94.5K Code, 25.4K Data, 119.9K Total
Debug Version: 182.3K Code, 75.0K Data, 257.3K Total
Current Release:
Non-Debug Version: 95.0K Code, 25.9K Data, 120.9K Total
Debug Version: 182.9K Code, 75.6K Data, 258.5K Total

2) iASL Compiler/Disassembler and Tools:

iASL/Disassembler: Fixed several issues with the definition of the ACPI 5.0 RASF table (RAS Feature Table). This change incorporates late changes that
were made to the ACPI 5.0 specification.

iASL/Disassembler: Added full support for the following new ACPI tables:
1) The MTMR table (MID Timer Table)
2) The VRTC table (Virtual Real Time Clock Table).
Includes header file, disassembler, table compiler, and template support for both tables.

iASL: Implemented compile-time validation of package objects returned by predefined names. This new feature validates static package objects returned by the various predefined names defined to return packages. Both object types and package lengths are validated, for both parent packages

and sub-packages, if any. The code is similar in structure and behavior to
the runtime repair mechanism within the AML interpreter and uses the
existing predefined name information table. Adds a new file, aslprepkg.c.
ACPICA BZ 938.

iASL: Implemented auto-detection of binary ACPI tables for disassembly.
This feature detects a binary file with a valid ACPI table header and
invokes the disassembler automatically. Eliminates the need to
specifically invoke the disassembler with the -d option. ACPICA BZ 862.

iASL/Disassembler: Added several warnings for the case where there are
unresolved control methods during the disassembly. This can potentially
cause errors when the output file is compiled, because the disassembler
assumes zero method arguments in these cases (it cannot determine the
actual number of arguments without resolution/definition of the method).

Debugger: Added support to display all resources with a single command.
Invocation of the resources command with no arguments will now display all
resources within the current namespace.

AcpiHelp: Added descriptive text for each ACPICA exception code displayed
via the -e option.

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17 January 2013. Summary of changes for version 20130117:

1) ACPICA Kernel-resident Subsystem:

Updated the AcpiGetSleepTypeData interface: Allow the _Sx methods to
return either 1 or 2 integers. Although the ACPI spec defines the _Sx
objects to return a package containing one integer, most BIOS code returns
two integers and the previous code reflects that. However, we also need to
support BIOS code that actually implements to the ACPI spec, and this
change reflects this.

Fixed two issues with the ACPI_DEBUG_PRINT macros:
1) Added the ACPI_DO_WHILE macro to the main DEBUG_PRINT helper macro for
C compilers that require this support.
2) Renamed the internal ACPI_DEBUG macro to ACPI_DO_DEBUG_PRINT since
ACPI_DEBUG is already used by many of the various hosts.

Updated all ACPICA copyrights and signons to 2013. Added the 2013

copyright to all module headers and signons, including the standard Linux header. This affects virtually every file in the ACPICA core subsystem, iASL compiler, all ACPICA utilities, and the test suites.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:
Non-Debug Version: 94.5K Code, 25.5K Data, 120.0K Total
Debug Version: 182.2K Code, 74.9K Data, 257.1K Total
Current Release:
Non-Debug Version: 94.5K Code, 25.4K Data, 119.9K Total
Debug Version: 182.3K Code, 75.0K Data, 257.3K Total

2) iASL Compiler/Disassembler and Tools:

Generic Unix OSL: Use a buffer to eliminate multiple vfprintf()s and prevent a possible fault on some hosts. Some C libraries modify the arg pointer parameter to vfprintf making it difficult to call it twice in the AcpiOsVprintf function. Use a local buffer to workaround this issue. This does not affect the Windows OSL since the Win C library does not modify the arg pointer. Chao Guan, Bob Moore.

iASL: Fixed a possible infinite loop when the maximum error count is reached. If an output file other than the .AML file is specified (such as a listing
file), and the maximum number of errors is reached, do not attempt to flush data to the output file(s) as the compiler is aborting. This can cause an infinite loop as the max error count code essentially keeps calling itself.

iASL/Disassembler: Added an option (-in) to ignore NOOP opcodes/operators.
Implemented for both the compiler and the disassembler. Often, the NOOP opcode is used as padding for packages that are changed dynamically by the
BIOS. When disassembled and recompiled, these NOOPs will cause syntax errors. This option causes the disassembler to ignore all NOOP opcodes (0xA3), and it also causes the compiler to ignore all ASL source code NOOP
statements as well.

Debugger: Enhanced the Sleep command to execute all sleep states. This change allows Sleep to be invoked with no arguments and causes the

debugger to execute all of the sleep states, 0-5, automatically.

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20 December 2012. Summary of changes for version 20121220:

1)
ACPICA Kernel-resident Subsystem:

Implemented a new interface, AcpiWalkResourceBuffer. This interface is an
alternate entry point for AcpiWalkResources and improves the usability of
the resource manager by accepting as input a buffer containing the output
of either a _CRS, _PRS, or _AEI method. The key functionality is that the
input buffer is not deleted by this interface so that it can be used by
the host later. See the ACPICA reference for details.

Interpreter: Add a warning if a 64-bit constant appears in a 32-bit table
(DSDT version < 2). The constant will be truncated and this warning
reflects that behavior.

Resource Manager: Add support for the new ACPI 5.0 wake bit in the IRQ,
ExtendedInterrupt, and GpioInt descriptors. This change adds support to
both get and set the new wake bit in these descriptors, separately from
the existing share bit. Reported by Aaron Lu.

Interpreter: Fix Store() when an implicit conversion is not possible. For
example, in the
cases such as a store of a string to an existing package
object, implement the store as a CopyObject(). This is a small departure
from the ACPI specification which states that the control method should
be
aborted in this case. However, the ASLTS suite depends on this behavior.

Performance improvement for the various FUNCTION_TRACE and DEBUG_PRINT
macros: check if debug output is currently enabled as soon as possible to
minimize performance impact if debug is in fact not enabled.

Source code restructuring: Cleanup to improve modularity. The following
new files have been added: dbconvert.c, evhandler.c, nsprepkg.c,
psopinfo.c, psobject.c, rsdumpinfo.c, utstring.c, and utownerid.c.
Associated makefiles and project files have been updated.

Changed an exception code for LoadTable operator. For the case where one
of the input strings is too long, change the returned exception code from
AE_BAD_PARAMETER to AE_AML_STRING_LIMIT.

Fixed a possible memory leak in dispatcher error
path. On error, delete
the mutex object created during method mutex creation. Reported by

tim.gardner@canonical.com.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:
Non-Debug Version: 94.3K Code, 25.3K Data, 119.6K Total
Debug Version: 175.5K Code, 74.5K Data, 250.0K Total
Current Release:
Non-Debug Version: 94.5K Code, 25.5K Data, 120.0K Total
Debug Version: 182.2K Code, 74.9K Data, 257.1K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Disallow a method call as argument to the ObjectType ASL operator. This change tracks an errata to the ACPI 5.0 document. The AML grammar will not allow the interpreter to differentiate between a method and a method invocation when these are used as an argument to the ObjectType operator.
The ACPI specification change is to disallow a method invocation (UserTerm) for the ObjectType operator.

Finish support for the TPM2 and CSRT tables in the headers, table compiler, and disassembler.

Unix user-space OSL: Fix a problem with WaitSemaphore where the timeout always expires immediately if the semaphore is not available. The original code was using a relative-time timeout, but sem_timedwait requires the use of an absolute time.

iASL: Added a remark if the Timer() operator is used within a 32-bit table. This operator returns a 64-bit time value that will be truncated within a 32-bit table.

iASL Source code restructuring: Cleanup to improve modularity. The following new files have been added: aslhex.c, aslxref.c, aslnamesp.c, aslmethod.c, and aslfileio.c. Associated makefiles and project files have been updated.

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14 November 2012. Summary of changes for version 20121114:

1) ACPICA Kernel-resident Subsystem:

Implemented
a performance enhancement for ACPI/AML Package objects. This
change greatly increases the performance of Package objects within the
interpreter. It changes the processing of reference counts for packages
by
optimizing for the most common case where the package sub-objects are
either Integers, Strings, or Buffers. Increases the overall performance
of
the ASLTS test suite by 1.5X (Increases the Slack Mode performance by
2X.)
Chao Guan. ACPICA BZ 943.

Implemented and deployed common macros to extract flag bits from resource
descriptors. Improves readability and maintainability of the code. Fixes
a
problem with the UART serial bus descriptor for the number of data bits
flags (was incorrectly 2 bits, should be 3).

Enhanced the ACPI_GETx and ACPI_SETx macros. Improved the implementation
of the macros and changed the SETx macros to the style of (destination,
source). Also added ACPI_CASTx companion macros. Lv Zheng.

Example Code and Data Size: These are the sizes for
the OS-independent
acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has a much larger code and data size.

Previous Release:
Non-Debug Version: 93.9K Code, 25.2K Data, 119.1K Total
Debug Version: 175.5K Code, 74.5K Data, 250.0K Total
Current Release:
Non-Debug Version: 94.3K Code, 25.3K Data, 119.6K Total
Debug Version: 175.5K Code, 74.5K Data, 250.0K Total

2) iASL Compiler/Disassembler and Tools:

Disassembler: Added the new ACPI 5.0 interrupt sharing flags. This change
adds the ShareAndWake and ExclusiveAndWake flags which were added to the
Irq, Interrupt, and Gpio resource descriptors in ACPI 5.0. ACPICA BZ 986.

Disassembler: Fixed a problem with external declaration generation. Fixes
a problem where an incorrect pathname could be generated for an external
declaration if the original reference to the object includes leading

carats (^). ACPICA BZ 984.

Debugger:
Completed a major update for the Disassemble<method> command.
This command was out-of-date and did not properly disassemble control
methods that had any reasonable complexity. This fix brings the command
up
to the same level as the rest of the disassembler. Adds one new file,
dmdeferred.c, which is existing code that is now common with the main
disassembler and the debugger disassemble command. ACPICA MZ 978.

iASL: Moved the parser entry prototype to avoid a duplicate declaration.
Newer versions of Bison emit this prototype, so moved the prototype out
of
the iASL header to where it is actually used in order to avoid a
duplicate
declaration.

iASL/Tools: Standardized use of the stream I/O functions:
1) Ensure check for I/O error after every fopen/fread/fwrite
2) Ensure proper order of size/count arguments for fread/fwrite
3) Use test of (Actual != Requested) after all fwrite, and most fread
4) Standardize I/O error messages
Improves reliability and maintainability
of the code. Bob Moore, Lv
Zheng.
ACPICA BZ 981.

Disassembler: Prevent duplicate External() statements. During generation
of external statements, detect similar pathnames that are actually
duplicates such as these:
External (\ABCD)
External (ABCD)
Remove all leading '\' characters from pathnames during the external
statement generation so that duplicates will be detected and tossed.
ACPICA BZ 985.

Tools: Replace low-level I/O with stream I/O functions. Replace
open/read/write/close with the stream I/O equivalents
fopen/fread/fwrite/fclose for portability and performance. Lv Zheng, Bob
Moore.

AcpiBin: Fix for the dump-to-hex function. Now correctly output the table
name header so that AcpiXtract recognizes the output file/table.

iASL: Remove obsolete -2 option flag. Originally intended to force the
compiler/disassembler into an ACPI 2.0 mode, this was never implemented
and the entire concept is now obsolete.

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18 October
2012. Summary of changes for version 20121018:

1) ACPICA Kernel-resident Subsystem:

Updated support for the ACPI 5.0 MPST table. Fixes some problems introduced by late changes to the table as it was added to the ACPI 5.0 specification. Includes header, disassembler, and data table compiler support as well as a new version of the MPST template.

AcpiGetObjectInfo: Enhanced the device object support to include the ACPI 5.0 _SUB method. Now calls _SUB in addition to the other PNP-related ID methods: _HID, _CID, and _UID.

Changed ACPI_DEVICE_ID to ACPI_PNP_DEVICE_ID. Also changed ACPI_DEVICE_ID_LIST to ACPI_PNP_DEVICE_ID_LIST. These changes prevent name collisions on hosts that reserve the *_DEVICE_ID (or *DeviceId) names for their various drivers. Affects the AcpiGetObjectInfo external interface, and other internal interfaces as well.

Added and deployed a new macro for ACPI_NAME management: ACPI_MOVE_NAME. This macro resolves to a simple 32-bit move of the 4-character
ACPI_NAME
on machines that support non-aligned transfers. Optimizes for this case rather than using a strncpy. With assistance from Zheng Lv.

Resource Manager: Small fix for buffer size calculation. Fixed a one byte error in the output buffer calculation. Feng Tang. ACPICA BZ 849.

Added a new debug print message for AML mutex objects that are force-released. At control method termination, any currently acquired mutex objects are force-released. Adds a new debug-only message for each one that is released.

Audited/updated all ACPICA return macros and the function debug depth counter: 1) Ensure that all functions that use the various TRACE macros also use the appropriate ACPICA return macros. 2) Ensure that all normal return statements surround the return expression (value) with parens to ensure consistency across the ACPICA code base. Guan Chao, Tang Feng, Zheng Lv, Bob Moore. ACPICA Bugzilla 972.

Global source code changes/maintenance: All extra lines at the start and
end
of each source file have been removed for consistency. Also, within comments, all new sentences start with a single space instead of a double

space, again for consistency across the code base.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:
Non-Debug Version: 93.7K Code, 25.3K Data, 119.0K Total
Debug Version: 175.0K Code, 74.4K Data, 249.4K Total
Current Release:
Non-Debug Version: 93.9K Code, 25.2K Data, 119.1K Total
Debug Version: 175.5K Code, 74.5K Data, 250.0K Total

2) iASL Compiler/Disassembler and Tools:

AcpiExec: Improved the algorithm used for memory leak/corruption detection. Added some intelligence to the code that maintains the global list of allocated memory. The list is now ordered by allocated memory address,
significantly improving performance. When running AcpiExec on the ASLTS test suite, speed improvements of 3X to 5X are seen, depending on the platform and/or the environment. Note, this performance enhancement affects the AcpiExec utility only, not the kernel-resident ACPICA code.

Enhanced error reporting for invalid AML opcodes and bad ACPI_NAMEs. For the disassembler, dump the 48 bytes surrounding the invalid opcode. Fix incorrect table offset reported for invalid opcodes. Report the original 32-bit value for bad ACPI_NAMEs (as well as the repaired name.)

Disassembler: Enhanced the -vt option to emit the binary table data in hex format to assist with debugging.

Fixed a potential filename buffer overflow in osunixdir.c. Increased the size of file structure. Colin Ian King.

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13 September 2012. Summary of changes for version 20120913:

1) ACPICA Kernel-resident Subsystem:

ACPI 5.0: Added two new notify types for the Hardware Error Notification
Structure within the Hardware Error Source Table (HEST) table -- CMCI(5) and

MCE(6).

Table Manager: Merged/removed duplicate code in the root table resize functions. One function is external, the other is internal. Lv Zheng, ACPICA
BZ 846.

Makefiles: Completely removed the obsolete "Linux" makefiles under acpica/generate/linux. These makefiles are obsolete and have been replaced
by
the generic unix makefiles under acpica/generate/unix.

Makefiles: Ensure that binary files always copied properly. Minor rule change
to ensure that the final binary output files are always copied up to the appropriate binary directory (bin32 or bin64.)

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug
version of the code includes the debug output trace mechanism and has a much
larger code and data size.

Previous Release:
Non-Debug Version: 93.8K Code, 25.3K Data,
119.1K Total
Debug Version: 175.7K Code, 74.8K Data, 250.5K Total
Current Release:
Non-Debug Version: 93.7K Code, 25.3K Data, 119.0K Total
Debug Version: 175.0K Code, 74.4K Data, 249.4K Total

2) iASL Compiler/Disassembler and Tools:

Disassembler: Fixed a possible fault during the disassembly of resource descriptors when a second parse is required because of the invocation of external control methods within the table. With assistance from adq@lidskialf.net. ACPICA BZ 976.

iASL: Fixed a namepath optimization problem. An error can occur if the parse
node that contains the namepath to be optimized does not have a parent node
that is a named object. This change fixes the problem.

iASL: Fixed a regression where the AML file is not deleted on errors. The

AML
output file should be deleted if there are any errors during the
compiler.
The
only exception is if the -f (force output) option is used. ACPICA BZ 974.

iASL: Added a feature to automatically increase
internal line buffer
sizes.
Via realloc(), automatically increase the internal line buffer sizes as
necessary to support very long source code lines. The current version of
the
preprocessor requires a buffer long enough to contain full source code
lines.
This change increases the line buffer(s) if the input lines go beyond the
current buffer size. This eliminates errors that occurred when a source
code
line was longer than the buffer.

iASL: Fixed a problem with constant folding in method declarations. The
SyncLevel term is a ByteConstExpr, and incorrect code would be generated
if a
Type3 opcode was used.

Debugger: Improved command help support. For incorrect argument count,
display
full help for the command. For help command itself, allow an argument to
specify a command.

Test Suites: Several bug fixes for the ASLTS suite reduces the number of
errors during execution of the suite. Guan Chao.

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16 August 2012. Summary of changes
for version 20120816:

1) ACPICA Kernel-resident Subsystem:

Removed all use of the deprecated _GTS and _BFS predefined methods. The
_GTS
(Going To Sleep) and _BFS (Back From Sleep) methods are essentially
deprecated and will probably be removed from the ACPI specification.
Windows
does not invoke them, and reportedly never will. The final nail in the
coffin
is that the ACPI specification states that these methods must be run with
interrupts off, which is not going to happen in a kernel interpreter.

Note:
Linux has removed all use of the methods also. It was discovered that invoking these functions caused failures on some machines, probably because they were never tested since Windows does not call them. Affects two external interfaces, AcpiEnterSleepState and AcpiLeaveSleepStatePrep. Tang Feng. ACPICA BZ 969.

Implemented support for complex bit-packed buffers returned from the _PLD (Physical Location of Device) predefined method. Adds a new external interface, AcpiDecodePldBuffer that parses the buffer into a more usable C structure. Note: C Bitfields cannot be used for this type of predefined structure since the memory layout of individual bitfields is not defined by the C language. In addition, there are endian concerns where a compiler will change the bitfield ordering based on the machine type. The new ACPICA interface eliminates these issues, and should be called after _PLD is executed. ACPICA BZ 954.

Implemented a change to allow a scope change to root (via "Scope (\)") during execution of module-level ASL code (code that is executed at table load time.) Lin Ming.

Added the Windows8/Server2012 string for the _OSI method. This change adds a new _OSI string, "Windows 2012" for both Windows 8 and Windows Server 2012.

Added header support for the new ACPI tables DBG2 (Debug Port Table Type 2) and CSRT (Core System Resource Table).

Added struct header support for the _FDE, _GRT, _GTM, and _SRT predefined names. This simplifies access to the buffers returned by these predefined names. Adds a new file, include/acbuffer.h. ACPICA BZ 956.

GPE support: Removed an extraneous parameter from the various low-level internal GPE functions. Tang Feng.

Removed the linux makefiles from the unix packages. The generate/linux makefiles are obsolete and have been removed from the unix tarball

release
packages. The replacement makefiles are under generate/unix, and there is
a
top-level makefile under the main acpica directory. ACPICA BZ 967, 912.

Updates for Unix makefiles:
1) Add -D_FORTIFY_SOURCE=2 for gcc generation. Arjan van de Ven.
2) Update linker flags (move to end of command line) for AcpiExec
utility.
Guan Chao.

Split ACPICA initialization functions to new file, utxfinit.c. Split from
utxface.c to improve modularity and reduce file size.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The
debug version
of the code includes the debug output trace mechanism and
has a
much larger code and data size.

Previous Release:
Non-Debug Version: 93.5K Code, 25.3K Data, 118.8K Total
Debug Version: 173.7K Code, 74.0K Data, 247.7K Total
Current Release:
Non-Debug Version: 93.8K Code, 25.3K Data, 119.1K Total
Debug Version: 175.7K Code, 74.8K Data, 250.5K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Fixed a problem with constant folding for fixed-length constant
expressions. The constant-folding code was not being invoked for constant
expressions that allow the use of type 3/4/5 opcodes to generate
constants
for expressions such as ByteConstExpr, WordConstExpr, etc. This could
result
in the generation of invalid AML bytecode. ACPICA BZ 970.

iASL: Fixed a generation issue on newer versions of Bison. Newer versions
apparently automatically emit some of the necessary externals. This
change
handles these versions in order to eliminate generation
warnings.

Disassembler: Added support to decode the DBG2 and CSRT ACPI tables.

Disassembler: Add support to decode _PLD buffers. The decoded buffer

appears
within comments in the output file.

Debugger: Fixed a regression with the "Threads" command where
AE_BAD_PARAMETER was always returned.

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11 July 2012. Summary of changes for version 20120711:

1) ACPICA Kernel-resident Subsystem:

Fixed a possible fault in the return package object repair code. Fixes a
problem that can occur when a lone package object is wrapped with an
outer
package object in order to force conformance to the ACPI specification.
Can
affect these predefined names: _ALR, _MLS, _PSS, _TRT, _TSS, _PRT, _HPX,
_DLM,
_CSD, _PSD, _TSD.

Removed code to disable/enable bus master arbitration (ARB_DIS bit in the
PM2_CNT register) in the ACPICA sleep/wake interfaces. Management of the
ARB_DIS bit must be implemented in the host-dependent C3 processor power
state
support.
Note, ARB_DIS is obsolete and only applies to older chipsets,
both
Intel and other vendors. (for Intel: ICH4-M and earlier)

This change removes the code to disable/enable bus master arbitration
during
suspend/resume. Use of the ARB_DIS bit in the optional PM2_CNT register
causes
resume problems on some machines. The change has been in use for over
seven
years within Linux.

Implemented two new external interfaces to support host-directed dynamic
ACPI
table load and unload. They are intended to simplify the host
implementation
of hot-plug support:
AcpiLoadTable: Load an SSDT from a buffer into the namespace.
AcpiUnloadParentTable: Unload an SSDT via a named object owned by the
table.
See the ACPICA reference for additional details. Adds one new file,
components/tables/tbxfload.c

Implemented and deployed two new interfaces for errors and warnings that are
known to be caused by BIOS/firmware issues:
AcpiBiosError: Prints "ACPI Firmware Error" message.
AcpiBiosWarning:
Prints "ACPI Firmware Warning" message.
Deployed these new interfaces in the ACPICA Table Manager code for ACPI table
and FADT errors. Additional deployment to be completed as appropriate in the
future. The associated conditional macros are ACPI_BIOS_ERROR and
ACPI_BIOS_WARNING. See the ACPICA reference for additional details.
ACPICA
BZ
843.

Implicit notify support: ensure that no memory allocation occurs within a
critical region. This fix moves a memory allocation outside of the time that a
spinlock is held. Fixes issues on systems that do not allow this behavior.
Jung-uk Kim.

Split exception code utilities and tables into a new file,
utilities/utexcep.c

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug
version of the code includes the debug output trace mechanism and has a much
larger code and data size.

Previous Release:
Non-Debug Version: 93.1K Code,
25.1K Data, 118.2K Total
Debug Version: 172.9K Code, 73.6K Data, 246.5K Total
Current Release:
Non-Debug Version: 93.5K Code, 25.3K Data, 118.8K Total
Debug Version: 173.7K Code, 74.0K Data, 247.7K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Fixed a parser problem for hosts where EOF is defined as -1 instead of
0. Jung-uk Kim.

Debugger: Enhanced the "tables" command to emit additional information about
the current set of ACPI tables, including the owner ID and flags decode.

Debugger: Reimplemented the "unload" command to use the new
AcpiUnloadParentTable external interface. This command was disable previously
due to need for an unload interface.

AcpiHelp: Added a new option to decode ACPICA exception codes. The -e option
will decode 16-bit hex status codes (ACPI_STATUS) to name strings.

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20 June 2012. Summary of changes for version 20120620:

1) ACPICA Kernel-resident Subsystem:

Implemented support
to expand the "implicit notify" feature to allow
multiple
devices to be notified by a single GPE. This feature automatically
generates a
runtime device notification in the absence of a BIOS-provided GPE control
method (_Lxx/_Exx) or a host-installed handler for the GPE. Implicit
notify is
provided by ACPICA for Windows compatibility, and is a workaround for
BIOS
AML
code errors. See the description of the AcpiSetupGpeForWake interface in
the
APCICA reference. Bob Moore, Rafael Wysocki. ACPICA BZ 918.

Changed some comments and internal function names to simplify and ensure
correctness of the Linux code translation. No functional changes.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The
debug
version of the code includes the debug output trace mechanism and has a
much
larger code and data size.

Previous Release:
Non-Debug Version: 93.0K Code, 25.1K Data, 118.1K
Total
Debug Version: 172.7K Code, 73.6K Data, 246.3K Total

Current Release:
Non-Debug Version: 93.1K Code, 25.1K Data, 118.2K Total
Debug Version: 172.9K Code, 73.6K Data, 246.5K Total

2) iASL Compiler/Disassembler and Tools:

Disassembler: Added support to emit short, commented descriptions for the ACPI
predefined names in order to improve the readability of the disassembled output. ACPICA BZ 959. Changes include:
1) Emit descriptions for all standard predefined names (_INI, _STA, _PRW,
etc.)
2) Emit generic descriptions for the special names (_Exx, _Qxx, etc.)
3) Emit descriptions for the resource descriptor names (_MIN, _LEN, etc.)

AcpiSrc: Fixed several long-standing Linux code translation issues. Argument
descriptions in function headers are now translated properly to lower case
and
underscores. ACPICA BZ 961. Also fixes translation problems such as these:
(old -> new)
i_aSL -> iASL
00-7_f -> 00-7F
16_k -> 16K
local_fADT -> local_FADT
execute_oSI -> execute_OSI

iASL: Fixed a problem where null bytes were inadvertently emitted into some
listing files.

iASL: Added the existing debug options to the standard help screen. There are
no longer two different help screens. ACPICA BZ 957.

AcpiHelp: Fixed some typos in the various predefined name descriptions. Also
expand some of the descriptions where appropriate.

iASL: Fixed the -ot option (display compile times/statistics). Was not working
properly for standard output; only worked for the debug file case.

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18 May 2012. Summary of changes for version 20120518:

1) ACPICA Core Subsystem:

Added a new OSL interface, AcpiOsWaitEventsComplete. This interface is defined
to block until asynchronous events such as notifies and GPEs have completed.
Within ACPICA, it is only called before a notify or GPE handler is removed/uninstalled. It also may be useful for the host OS within related drivers such as the Embedded
Controller driver. See the ACPICA reference for
additional information. ACPICA BZ 868.

ACPI Tables: Added a new error message for a possible overflow failure during
the conversion of FADT 32-bit legacy register addresses to internal common
64-
bit GAS structure representation. The GAS has a one-byte "bit length" field,
thus limiting the register length to 255 bits. ACPICA BZ 953.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug
version of the code includes the debug output trace mechanism and has a much
larger code and data size.

Previous Release:
Non-Debug Version: 92.9K Code, 25.0K Data, 117.9K Total
Debug Version: 172.6K Code, 73.4K Data, 246.0K Total
Current Release:
Non-Debug Version: 93.0K Code, 25.1K Data, 118.1K Total
Debug Version: 172.7K Code, 73.6K Data, 246.3K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Added the ACPI
5.0 "PCC" keyword for use in the Register() ASL macro.
This keyword was added late in the ACPI 5.0 release cycle and was not implemented until now.

Disassembler: Added support for Operation Region externals. Adds missing support for operation regions that are defined in another table, and referenced locally via a Field or BankField ASL operator. Now generates the
correct External statement.

Disassembler: Several additional fixes for the External() statement generation
related to some ASL operators. Also, order the External() statements alphabetically in the disassembler output. Fixes the External() generation
for
the Create* field, Alias, and Scope operators:
1) Create* buffer field operators - fix type mismatch warning on disassembly
2) Alias - implement missing External support
3) Scope - fix to make sure all necessary externals are emitted.

iASL: Improved pathname support. For include files, merge the prefix pathname
with the file pathname and eliminate unnecessary
components. Convert
backslashes in all pathnames to forward slashes, for readability. Include file
pathname changes affect both #include and Include() type operators.

iASL/DTC/Preprocessor: Gracefully handle early EOF. Handle an EOF at the end
of a valid line by inserting a newline and then returning the EOF during the
next call to GetNextLine. Prevents the line from being ignored due to EOF condition.

iASL: Implemented some changes to enhance the IDE support (-vi option.) Error
and Warning messages are now correctly recognized for both the source code
browser and the global error and warning counts.

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20 April 2012. Summary of changes for version 20120420:

1) ACPICA Core Subsystem:

Implemented support for multiple notify handlers. This change adds support

to
allow multiple system and device notify handlers on Device, Thermal Zone, and
Processor objects. This can simplify the host OS notification implementation.
Also
re-worked and restructured the entire notify support code to simplify
handler installation, handler removal, notify event queuing, and notify dispatch to handler(s). Note: there can still only be two global notify handlers - one for system notifies and one for device notifies. There are no
changes to the existing handler install/remove interfaces. Lin Ming, Bob Moore, Rafael Wysocki.

Fixed a regression in the package repair code where the object reference count was calculated incorrectly. Regression was introduced in the commit "Support to add Package wrappers".

Fixed a couple possible memory leaks in the AML parser, in the error recovery
path. Jesper Juhl, Lin Ming.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a
much larger code and data size.

Previous Release:
Non-Debug Version: 92.9K
Code, 25.0K Data, 117.9K Total
Debug Version: 172.5K Code, 73.2K Data, 245.7K Total
Current Release:
Non-Debug Version: 92.9K Code, 25.0K Data, 117.9K Total
Debug Version: 172.6K Code, 73.4K Data, 246.0K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Fixed a problem with the resource descriptor support where the length
of the StartDependentFn and StartDependentFnNoPrio descriptors were not included in cumulative descriptor offset, resulting in incorrect values for
resource tags within resource descriptors appearing after a StartDependent*
descriptor. Reported by Petr Vandrovec. ACPICA BZ 949.

iASL and Preprocessor: Implemented full support for the #line directive
to
correctly track original source file line numbers through the .i
preprocessor
output file - for error and warning messages.

iASL: Expand the allowable byte constants for address space IDs.
Previously,
the allowable range was 0x80-0xFF (user-defined spaces), now the range is

0x0A-0xFF to allow for custom and new IDs without changing the compiler.

iASL: Add option to treat all warnings as errors (-we). ACPICA BZ 948.

iASL: Add option to completely disable the preprocessor (-Pn).

iASL: Now emit all error/warning messages to standard error (stderr) by
default (instead of the previous stdout).

ASL Test Suite (ASLTS): Reduce iASL warnings due to use of Switch().
Update
for resource descriptor offset fix above. Update/cleanup error output
routines. Enable and send iASL errors/warnings to an error logfile
(error.txt). Send all other iASL output to a logfile (compiler.txt).
Fixed
several extraneous "unrecognized operator" messages.

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20 March 2012. Summary of changes for version 20120320:

1) ACPICA Core Subsystem:

Enhanced the sleep/wake interfaces to optionally execute the _GTS method
(Going To Sleep) and the _BFS method (Back From Sleep). Windows
apparently
does not execute these methods, and therefore these
 methods are often
untested. It has been seen on some systems where the execution of these
methods causes errors and also prevents the machine from entering S5. It
is
therefore suggested that host operating systems do not execute these
methods
by default. In the future, perhaps these methods can be optionally
executed
based on the age of the system and/or what is the newest version of
Windows

that the BIOS asks for via _OSI. Changed interfaces: AcpiEnterSleepState and AcpileaveSleepStatePrep. See the ACPICA reference and Linux BZ 13041. Lin Ming.

Fixed a problem where the length of the local/common FADT was set too early.
The local FADT table length cannot be set to the common length until the original length has been examined. There is code that checks the table length
and sets various fields appropriately. This can affect older machines with
early FADT versions. For example, this can cause inadvertent writes to the
CST_CNT register. Julian Anastasov.

Fixed
a mapping issue related to a physical table override. Use the deferred
mapping mechanism for tables loaded via the physical override OSL interface.
This allows for early mapping before the virtual memory manager is available.
Thomas Renninger, Bob Moore.

Enhanced the automatic return-object repair code: Repair a common problem with
predefined methods that are defined to return a variable-length Package of
sub-objects. If there is only one sub-object, some BIOS ASL code mistakenly
simply returns the single object instead of a Package with one sub-object.
This new support will repair this error by wrapping a Package object around
the original object, creating the correct and expected Package with one sub-
object. Names that can be repaired in this manner include: _ALR, _CSD, _HPX,
_MLS, _PLD, _PRT, _PSS, _TRT, _TSS, _BCL, _DOD, _FIX, and _Sx. ACPICA BZ 939.

Changed the exception code returned for invalid ACPI paths passed as parameters to external interfaces such as
AcpiEvaluateObject. Was
AE_BAD_PARAMETER, now is the more sensible AE_BAD_PATHNAME.

Example Code and Data Size: These are the sizes for the OS-independent

acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug
version of the code includes the debug output trace mechanism and has a much
larger code and data size.

Previous Release:
Non-Debug Version: 93.0K Code, 25.0K Data, 118.0K Total
Debug Version: 172.5K Code, 73.2K Data, 245.7K Total
Current Release:
Non-Debug Version: 92.9K Code, 25.0K Data, 117.9K Total
Debug Version: 172.5K Code, 73.2K Data, 245.7K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Added the infrastructure and initial implementation of a integrated C-
like preprocessor. This will simplify BIOS development process by eliminating
the need for a separate preprocessing step during builds. On Windows, it also
eliminates the need to install a separate C compiler. ACPICA BZ 761. Some features including
full #define() macro support are still under
development.
These preprocessor directives are supported:
#define
#elif
#else
#endif
#error
#if
#ifdef
#ifndef
#include
#pragma message
#undef
#warning
In addition, these new command line options are supported:
-D <symbol> Define symbol for preprocessor use
-li Create preprocessed output file (*.i)
-P Preprocess only and create preprocessor output file (*.i)

Table Compiler: Fixed a problem where the equals operator within an expression
did not work properly.

Updated iASL to use the current versions of Bison/Flex. Updated the Windows
project file to invoke these tools from the standard location. ACPICA BZ 904.
Versions supported:
  Flex for Windows: V2.5.4
  Bison for Windows: V2.4.1

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15 February 2012. Summary of changes for version 20120215:

1) ACPICA Core Subsystem:

There have been some major changes
 to the sleep/wake support code, as
described below (a - e).

a) The AcpiLeaveSleepState has been split into two interfaces, similar to AcpiEnterSleepStatePrep and AcpiEnterSleepState. The new interface is AcpiLeaveSleepStatePrep. This allows the host to perform actions between the
time the _BFS method is called and the _WAK method is called. NOTE: all hosts
must update their wake/resume code or else sleep/wake will not work properly.
Rafael Wysocki.

b) In AcpiLeaveSleepState, now enable all runtime GPEs before calling the _WAK
method. Some machines require that the GPEs are enabled before the _WAK method
is executed. Thomas Renninger.

c) In AcpiLeaveSleepState, now always clear the WAK_STS (wake status) bit.
Some BIOS code assumes that WAK_STS will be cleared on resume and use it to
determine whether the system is rebooting or resuming. Matthew Garrett.

d) Move the invocations of _GTS (Going To Sleep) and _BFS (Back From Sleep) to
match the ACPI specification requirement.
 Rafael Wysocki.

e) Implemented full support for the ACPI 5.0 SleepStatus and SleepControl registers within the V5 FADT. This support adds two new files:
hardware/hwesleep.c implements the support for the new registers. Moved

all
sleep/wake external interfaces to hardware/hwxfsleep.c.

Added a new OSL interface for ACPI table overrides,
AcpiOsPhysicalTableOverride. This interface allows the host to override a
table via a physical address, instead of the logical address required by
AcpiOsTableOverride. This simplifies the host implementation. Initial
implementation by Thomas Renninger. The ACPICA implementation creates a
single
shared function for table overrides that attempts both a logical and a
physical override.

Expanded the OSL memory read/write interfaces to 64-bit data
(AcpiOsReadMemory, AcpiOsWriteMemory.) This enables full 64-bit memory
transfer support for GAS register structures passed to AcpiRead and
AcpiWrite.

Implemented the ACPI_REDUCED_HARDWARE
option to allow the creation of a
custom
build of ACPICA that supports only the ACPI 5.0 reduced hardware (SoC)
model.
See the ACPICA reference for details. ACPICA BZ 942. This option removes
about
10% of the code and 5% of the static data, and the following hardware
ACPI
features become unavailable:
PM Event and Control registers
SCI interrupt (and handler)
Fixed Events
General Purpose Events (GPEs)
Global Lock
ACPI PM timer
FACS table (Waking vectors and Global Lock)

Updated the unix tarball directory structure to match the ACPICA git
source
tree. This ensures that the generic unix makefiles work properly (in
generate/unix). Also updated the Linux makefiles to match. ACPICA BZ
867.

Updated the return value of the _REV predefined method to integer value 5
to
reflect ACPI 5.0 support.

Moved the external ACPI PM timer interface prototypes to the public
acpixf.h

file where they belong.

Example Code and Data Size: These are the sizes for the
OS-independent
acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The
debug
version of the code includes the debug output trace mechanism and has a
much
larger code and data size.

Previous Release:
Non-Debug Version: 92.8K Code, 24.9K Data, 117.7K Total
Debug Version: 171.7K Code, 72.9K Data, 244.5K Total
Current Release:
Non-Debug Version: 93.0K Code, 25.0K Data, 118.0K Total
Debug Version: 172.5K Code, 73.2K Data, 245.7K Total

2) iASL Compiler/Disassembler and Tools:

Disassembler: Fixed a problem with the new ACPI 5.0 serial resource descriptors (I2C, SPI, UART) where the resource produce/consumer bit was incorrectly displayed.

AcpiHelp: Add display of ACPI/PNP device IDs that are defined in the ACPI specification.

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11 January 2012. Summary of changes for version 20120111:

1) ACPICA Core Subsystem:

Implemented a new mechanism to allow host device drivers to check for
address
range
conflicts with ACPI Operation Regions. Both SystemMemory and
SystemIO
address spaces are supported. A new external interface,
AcpiCheckAddressRange,
allows drivers to check an address range against the ACPI namespace. See
the
ACPICA reference for additional details. Adds one new file,
utilities/utaddress.c. Lin Ming, Bob Moore.

Fixed several issues with the ACPI 5.0 FADT support: Add the sleep
Control
and

Status registers, update the ACPI 5.0 flags, and update internal data structures to handle an FADT larger than 256 bytes. The size of the ACPI 5.0
FADT is 268 bytes.

Updated all ACPICA copyrights and signons to 2012. Added the 2012 copyright to
all module headers and signons, including the standard Linux header. This affects virtually every file in the ACPICA core subsystem, iASL compiler, and
all ACPICA utilities.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The

debug
version of the code includes the debug output trace mechanism and has a much
larger code and data size.

Previous Release:
Non-Debug Version: 92.3K Code, 24.9K Data, 117.2K Total
Debug Version: 170.8K Code, 72.6K Data, 243.4K Total
Current Release:
Non-Debug Version: 92.8K Code, 24.9K Data, 117.7K Total
Debug Version: 171.7K Code, 72.9K Data, 244.5K Total

2) iASL Compiler/Disassembler and Tools:

Disassembler: fixed a problem with the automatic resource tag generation support. Fixes a problem where the resource tags are inadvertently not constructed if the table being disassembled contains external references to
control methods. Moved the actual construction of the tags to after the final
namespace is constructed (after 2nd parse is invoked due to external control
method references.) ACPICA BZ 941.

Table Compiler: Make all "generic" operators caseless. These are the operators
like UINT8, String, etc. Making these caseless improves ease-of-use.

ACPICA BZ
934.

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23 November 2011. Summary of changes for version 20111123:

0) ACPI 5.0 Support:

This release contains full support for the ACPI 5.0 specification, as summarized below.

Reduced Hardware Support:

This support allows for ACPI systems without the usual ACPI hardware. This
support is enabled by a flag in the revision 5 FADT. If it is set, ACPICA will
not attempt to initialize or use any of the usual ACPI hardware. Note, when
this flag is set, all of the following ACPI hardware is assumed to be not
present and is not initialized or accessed:

General Purpose Events (GPEs)
Fixed Events (PM1a/PM1b and PM Control)
Power Management Timer and Console Buttons (power/sleep)
Real-time Clock Alarm
Global Lock
System Control Interrupt (SCI)
The FACS is assumed to be non-existent

ACPI Tables:

All new tables and updates to existing tables are fully supported in the
ACPICA headers (for use by device drivers), the disassembler, and the iASL
Data Table Compiler. ACPI 5.0 defines these new tables:

```
BGRT        /* Boot Graphics Resource Table */
DRTM        /* Dynamic Root of Trust for Measurement table */
FPDT        /* Firmware Performance Data Table */
GTDT        /* Generic Timer Description Table */
MPST        /* Memory Power State Table */
PCCT        /* Platform Communications Channel Table */
PMTT        /* Platform Memory Topology Table */
RASF        /* RAS Feature table */
```

Operation Regions/SpaceIDs:

All new operation regions are fully supported by the iASL compiler, the disassembler, and the ACPICA runtime code (for dispatch to region handlers.)
The new operation region Space IDs are:

  GeneralPurposeIo
  GenericSerialBus

Resource Descriptors:

All new ASL resource descriptors are fully supported by the iASL compiler,
the
ASL/AML
 disassembler, and the ACPICA runtime Resource Manager code (including
all new predefined resource tags). New descriptors are:

  FixedDma
  GpioIo
  GpioInt
  I2cSerialBus
  SpiSerialBus
  UartSerialBus

ASL/AML Operators, New and Modified:

One new operator is added, the Connection operator, which is used to associate
a GeneralPurposeIo or GenericSerialBus resource descriptor with individual
field objects within an operation region. Several new protocols are associated
with the AccessAs operator. All are fully supported by the iASL compiler, disassembler, and runtime ACPICA AML interpreter:

  Connection   // Declare Field Connection attributes
  AccessAs: AttribBytes (n)   // Read/Write N-Bytes Protocol
  AccessAs: AttribRawBytes (n)   // Raw Read/Write N-Bytes Protocol
  AccessAs: AttribRawProcessBytes (n) // Raw Process Call Protocol
  RawDataBuffer   // Data type
 for Vendor Data
fields

Predefined ASL/AML Objects:

All new predefined objects/control-methods are supported by the iASL compiler
and the ACPICA runtime validation/repair (arguments and return values.) New
predefined names include the following:

Standard Predefined Names (Objects or Control Methods):
  _AEI, _CLS, _CPC, _CWS, _DEP,
  _DLM, _EVT, _GCP, _CRT, _GWS,
  _HRV, _PRE, _PSE, _SRT, _SUB.

Resource Tags (Names used to access individual fields within resource descriptors):
  _DBT, _DPL, _DRS, _END, _FLC,
  _IOR, _LIN, _MOD, _PAR, _PHA,
  _PIN, _PPI, _POL, _RXL, _SLV,
  _SPE, _STB, _TXL, _VEN.

ACPICA External Interfaces:

Several new interfaces have been defined for use by ACPI-related device drivers and other host OS services:

AcpiAcquireMutex and AcpiReleaseMutex: These interfaces allow the host OS to
acquire and release AML mutexes that are defined in the DSDT/SSDT tables provided by the BIOS.
 They are intended to be used in conjunction with the
ACPI 5.0 _DLM (Device Lock Method) in order to provide transaction-level mutual exclusion with the AML code/interpreter.

AcpiGetEventResources: Returns the (formatted) resource descriptors as defined
by the ACPI 5.0 _AEI object (ACPI Event Information). This object provides
resource descriptors associated with hardware-reduced platform events, similar
to the AcpiGetCurrentResources interface.

Operation Region Handlers: For General Purpose IO and Generic Serial Bus operation regions, information about the Connection() object and any optional
length information is passed to the region handler within the Context

parameter.

AcpiBufferToResource: This interface converts a raw AML buffer containing
a
resource template or resource descriptor to the ACPI_RESOURCE internal
format
suitable for use by device drivers. Can be used by an operation region
handler
to convert the Connection() buffer object into a ACPI_RESOURCE.

Miscellaneous/Tools/TestSuites:

Support for extended _HID names (Four alpha characters instead of three).
Support for ACPI 5.0 features in the AcpiExec and AcpiHelp utilities.
Support for ACPI 5.0 features in the ASLTS test suite.
Fully updated documentation (ACPICA and iASL reference documents.)

ACPI Table Definition Language:

Support for this language was implemented and released as a subsystem of
the
iASL compiler in 2010. (See the iASL compiler User Guide.)

Non-ACPI 5.0 changes for this release:
---

1) ACPICA Core Subsystem:

Fix a problem with operation region declarations where a failure can
occur
if
the region name and an argument that evaluates to an object (such as the
region address) are in different namespace scopes. Lin Ming, ACPICA BZ
937.

Do not abort an ACPI table load if an invalid space ID is found within.
This
will be caught later if the offending method
is executed. ACPICA BZ 925.

Fixed an issue with the FFixedHW space ID where the ID was not always
recognized properly (Both ACPICA and iASL). ACPICA BZ 926.

Fixed a problem with the 32-bit generation of the unix-specific OSL

(osunixxf.c). Lin Ming, ACPICA BZ 936.

Several changes made to enable generation with the GCC 4.6 compiler. ACPICA BZ
935.

New error messages: Unsupported I/O requests (not 8/16/32 bit), and Index/Bank
field registers out-of-range.

2) iASL Compiler/Disassembler and Tools:

iASL: Implemented the __PATH__ operator, which returns the full pathname of
the current source file.

AcpiHelp: Automatically display expanded keyword information for all ASL operators.

Debugger: Add "Template" command to disassemble/dump resource template buffers.

Added a new master script to generate and execute the ASLTS test suite. Automatically handles 32- and 64-bit generation. See tests/aslts.sh

iASL: Fix problem with listing generation during processing of the Switch()

operator where AML listing was disabled until the entire Switch block was completed.

iASL: Improve support for semicolon statement terminators. Fix "invalid character" message for some cases when the semicolon is used. Semicolons are
now allowed after every <Term> grammar element. ACPICA BZ 927.

iASL: Fixed some possible aliasing warnings during generation. ACPICA BZ 923.

Disassembler: Fix problem with disassembly of the DataTableRegion operator
where an inadvertent "Unhandled deferred opcode" message could be generated.

3) Example Code and Data Size

These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code

includes the debug output trace mechanism and has a much larger code and
data
size.

Previous Release:
Non-Debug Version: 90.2K Code, 23.9K Data, 114.1K Total
Debug Version: 165.6K Code, 68.4K Data, 234.0K Total
Current Release:
Non-Debug Version: 92.3K Code,
24.9K Data, 117.2K Total
Debug Version: 170.8K Code, 72.6K Data, 243.4K Total

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22 September 2011. Summary of changes for version 20110922:

0) ACPI 5.0 News:

Support for ACPI 5.0 in ACPICA has been underway for several months and
will
be released at the same time that ACPI 5.0 is officially released.

The ACPI 5.0 specification is on track for release in the next few
months.

1) ACPICA Core Subsystem:

Fixed a problem where the maximum sleep time for the Sleep() operator was
intended to be limited to two seconds, but was inadvertently limited to
20
seconds instead.

Linux and Unix makefiles: Added header file dependencies to ensure
correct
generation of ACPICA core code and utilities. Also simplified the
makefiles
considerably through the use of the vpath variable to specify search
paths.
ACPICA BZ 924.

2) iASL Compiler/Disassembler and Tools:

iASL: Implemented support to check the access length for all fields
created
to
access named Resource Descriptor fields. For example, if a resource field
is
defined to be two bits, a warning is issued if a CreateXxxxField() is
used

with an incorrect bit length. This is implemented for all current
resource
descriptor names. ACPICA BZ 930.

Disassembler: Fixed a byte ordering problem with the output of 24-bit and
56-
bit integers.

iASL: Fixed a couple of issues associated with variable-length package
objects. 1) properly handle constants like One, Ones, Zero -- do not make
a
VAR_PACKAGE when these are used as a package length. 2) Allow the
VAR_PACKAGE
opcode (in addition to PACKAGE) when validating object types for
predefined
names.

iASL: Emit statistics for all output files (instead of just the ASL input
and
AML output). Includes listings, hex files, etc.

iASL: Added -G option to the table compiler to allow the compilation of
custom
ACPI tables. The only part of a table that is required is the standard
36-
byte
ACPI header.

AcpiXtract:
Ported to the standard ACPICA environment (with ACPICA
headers),
which also adds correct 64-bit support. Also, now all output filenames
are
completely lower case.

AcpiExec: Ignore any non-AML tables (tables other than DSDT or SSDT) when
loading table files. A warning is issued for any such tables. The only
exception is an FADT. This also fixes a possible fault when attempting to
load
non-AML tables. ACPICA BZ 932.

AcpiHelp: Added the AccessAs and Offset operators. Fixed a problem where
a
missing table terminator could cause a fault when using the -p option.

AcpiSrc: Fixed a possible divide-by-zero fault when generating file
statistics.

3) Example Code and Data Size

These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data
size.

Previous Release (VC 9.0):
Non-Debug Version: 90.2K Code, 23.9K Data, 114.1K Total
Debug Version: 165.6K Code, 68.4K Data, 234.0K Total
Current Release (VC 9.0):
Non-Debug Version: 90.2K Code, 23.9K Data, 114.1K Total
Debug Version: 165.6K Code, 68.4K Data, 234.0K Total

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23 June 2011. Summary of changes for version 20110623:

1) ACPI CA Core Subsystem:

Updated the predefined name repair mechanism to not attempt repair of a _TSS
return object if a _PSS object is present. We can only sort the _TSS return
package if there is no _PSS within the same scope. This is because if _PSS
is
present, the ACPI specification dictates that the _TSS Power Dissipation field
is to be ignored, and therefore some BIOSs leave garbage values in the _TSS
Power field(s). In this case, it is best to just return the _TSS package as-
is. Reported by, and fixed with assistance from Fenghua Yu.

Added an option to globally disable the control method return value validation
and repair. This runtime option
can be used to disable return value repair
if
this is causing a problem on a particular machine. Also added an option to
AcpiExec (-dr) to set this disable flag.

All makefiles and project files: Major changes to improve generation of

ACPICA
tools. ACPICA BZ 912:
  Reduce default optimization levels to improve compatibility
  For Linux, add strict-aliasing=0 for gcc 4
  Cleanup and simplify use of command line defines
  Cleanup multithread library support
  Improve usage messages

Linux-specific header: update handling of THREAD_ID and pthread. For the
32-
bit case, improve casting to eliminate possible warnings, especially with
the
acpica tools.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The
debug
version of the code includes the debug output trace mechanism and has a
much
larger code and data size.

 Previous Release (VC 9.0):
  Non-Debug Version: 90.1K Code,
 23.9K Data, 114.0K Total
  Debug Version: 165.6K Code, 68.4K Data, 234.0K Total
 Current Release (VC 9.0):
  Non-Debug Version: 90.2K Code, 23.9K Data, 114.1K Total
  Debug Version: 165.6K Code, 68.4K Data, 234.0K Total

2) iASL Compiler/Disassembler and Tools:

With this release, a new utility named "acpihelp" has been added to the
ACPICA
package. This utility summarizes the ACPI specification chapters for the
ASL
and AML languages. It generates under Linux/Unix as well as Windows, and
provides the following functionality:
  Find/display ASL operator(s) -- with description and syntax.
  Find/display ASL keyword(s) -- with exact spelling and descriptions.
  Find/display ACPI predefined name(s) -- with description, number
    of arguments, and the return value data type.
  Find/display AML opcode name(s) -- with opcode, arguments, and
grammar.
  Decode/display AML opcode -- with opcode name, arguments, and
grammar.

Service Layers: Make multi-thread

support configurable. Conditionally
compile
the multi-thread support so that threading libraries will not be linked
if
not
necessary. The only tool that requires multi-thread support is AcpiExec.

iASL: Update yyerrror/AslCompilerError for "const" errors. Newer versions
of
Bison appear to want the interface to yyerror to be a const char * (or at
least this is a problem when generating iASL on some systems.) ACPICA BZ
923
Pierre Lejeune.

Tools: Fix for systems where O_BINARY is not defined. Only used for
Windows
versions of the tools.

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27 May 2011. Summary of changes for version 20110527:

1) ACPI CA Core Subsystem:

ASL Load() operator: Reinstate most restrictions on the incoming ACPI
table
signature. Now, only allow SSDT, OEMx, and a null signature. History:
  1) Originally, we checked the table signature for "SSDT" or "PSDT".
    (PSDT is now obsolete.)
  2) We added support for OEMx tables, signature "OEM" plus a fourth
     "don't care" character.
  3) Valid tables were encountered with a null signature, so we just
    gave up on validating the signature, (05/2008).
  4) We encountered non-AML tables such as the MADT, which caused
    interpreter errors and kernel faults. So now, we once again allow
    only SSDT, OEMx, and now, also a null signature. (05/2011).

Added the missing _TDL predefined name to the global name list in order
to
enable validation. Affects both the core ACPICA code and the iASL
compiler.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The
debug
version of the code includes the debug output trace mechanism and has a
much
larger code and data size.

Previous Release (VC 9.0):
Non-Debug Version: 90.0K Code, 23.8K Data, 113.8K Total
Debug Version: 164.5K Code, 68.0K Data, 232.5K Total
Current Release (VC 9.0):
Non-Debug Version: 90.1K Code, 23.9K
Data, 114.0K Total
Debug Version: 165.6K Code, 68.4K Data, 234.0K Total

2) iASL Compiler/Disassembler and Tools:

Debugger/AcpiExec: Implemented support for "complex" method arguments on
the
debugger command line. This adds support beyond simple integers --
including
Strings, Buffers, and Packages. Includes support for nested packages.
Increased the default command line buffer size to accommodate these
arguments.
See the ACPICA reference for details and syntax. ACPICA BZ 917.

Debugger/AcpiExec: Implemented support for "default" method arguments for
the
Execute/Debug command. Now, the debugger will always invoke a control
method
with the required number of arguments -- even if the command line
specifies
none or insufficient arguments. It uses default integer values for any
missing
arguments. Also fixes a bug where only six method arguments maximum were
supported instead of the required seven.

Debugger/AcpiExec: Add a maximum buffer length parameter to AcpiOsGetLine

and
also return status in order to prevent buffer overruns. See the ACPICA
reference for details and syntax. ACPICA BZ 921

iASL: Cleaned up support for Berkeley yacc. A general cleanup of code and
makefiles to simplify support for the two different but similar parser
generators, bison and yacc.

Updated the generic unix makefile for gcc 4. The default gcc version is
now
expected to be 4 or greater, since options specific to gcc 4 are used.

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13 April 2011. Summary of changes for version 20110413:

1) ACPI CA Core Subsystem:

Implemented support to execute a so-called "orphan" _REG method under the EC
device. This change will force the execution of a _REG method underneath the
EC
device even if there is no corresponding operation region of type
EmbeddedControl. Fixes a problem seen on some machines and apparently is
compatible with Windows behavior. ACPICA BZ 875.

Added more predefined methods that are eligible for automatic
NULL
package
element removal. This change adds another group of predefined names to the
list
of names that can be repaired by having NULL package elements dynamically
removed. This group are those methods that return a single variable-
length
package containing simple data types such as integers, buffers, strings.
This
includes: _ALx, _BCL, _CID,_ DOD, _EDL, _FIX, _PCL, _PLD, _PMD, _PRx,
_PSL,
_Sx,
and _TZD. ACPICA BZ 914.

Split and segregated all internal global lock functions to a new file,
evglock.c.

Updated internal address SpaceID for DataTable regions. Moved this
internal
space
id in preparation for ACPI 5.0 changes that will include some new space
IDs.
This
change should not affect user/host code.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib
produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug
version of
the code includes the debug output trace mechanism and has a much larger
code
and
data size.

Previous Release (VC 9.0):
Non-Debug Version: 89.8K Code, 23.8K Data, 113.6K Total

Debug Version: 164.2K Code, 67.9K Data, 232.1K Total
Current Release (VC 9.0):
Non-Debug Version: 90.0K Code, 23.8K Data, 113.8K Total
Debug Version: 164.5K Code, 68.0K Data, 232.5K Total

2) iASL Compiler/Disassembler and Tools:

iASL/DTC: Major update for new grammar features. Allow generic data types in
custom ACPI tables. Field names are now optional. Any line can be split to
multiple lines using the continuation char (\). Large buffers now use line-
continuation character(s) and no colon on the continuation lines. See the grammar
update in the iASL compiler reference. ACPI BZ 910,911. Lin Ming, Bob Moore.

iASL: Mark ASL "Return()" and the simple "Return" as "Null" return statements.
Since the parser stuffs a "zero" as the return value for these statements (due
to
the underlying AML grammar), they were seen as "return with value" by the iASL
semantic checking.
They are now seen correctly as "null" return
statements.

iASL: Check if a_REG declaration has a corresponding Operation Region. Adds a
check for each _REG to ensure that there is in fact a corresponding operation
region declaration in the same scope. If not, the _REG method is not very useful
since it probably won't be executed. ACPICA BZ 915.

iASL/DTC: Finish support for expression evaluation. Added a new expression
parser
that implements c-style operator precedence and parenthesization. ACPICA bugzilla
908.

Disassembler/DTC: Remove support for () and <> style comments in data tables.
Now
that DTC has full expression support, we don't want to have comment

strings
that
start with a parentheses or a less-than symbol. Now, only the standard /*
and
//
comments are supported, as well as the bracket [] comments.

AcpiXtract: Fix for RSDP and dynamic SSDT extraction. These tables have
"unusual"
headers in the acpidump file. Update the header validation to support

these
tables. Problem introduced in previous AcpiXtract version in the change
to
support "wrong checksum" error messages emitted by acpidump utility.

iASL: Add a * option to generate all template files (as a synonym for
ALL)
as
in
"iasl -T *" or "iasl -T ALL".

iASL/DTC: Do not abort compiler on fatal errors. We do not want to
completely
abort the compiler on "fatal" errors, simply should abort the current
compile.
This allows multiple compiles with a single (possibly wildcard) compiler
invocation.

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16 March 2011. Summary of changes for version 20110316:

1) ACPI CA Core Subsystem:

Fixed a problem caused by a _PRW method appearing at the namespace root
scope
during the setup of wake GPEs. A fault could occur if a _PRW directly
under
the
root object was passed to the AcpiSetupGpeForWake interface. Lin Ming.

Implemented support for "spurious" Global Lock interrupts. On some
systems, a
global lock interrupt can occur without
the pending flag being set. Upon
a
GL
interrupt, we now ensure that a thread is actually waiting for the lock

before
signaling GL availability. Rafael Wysocki, Bob Moore.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib
produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug
version of
the code includes the debug output trace mechanism and has a much larger
code
and
data size.

Previous Release (VC 9.0):
Non-Debug Version: 89.7K Code, 23.7K Data, 113.4K Total
Debug Version: 163.9K Code, 67.5K Data, 231.4K Total
Current Release (VC 9.0):
Non-Debug Version: 89.8K Code, 23.8K Data, 113.6K Total
Debug Version: 164.2K Code, 67.9K Data, 232.1K Total

2) iASL Compiler/Disassembler and Tools:

Implemented full support for the "SLIC" ACPI table. Includes support in
the
header files, disassembler, table compiler, and template generator. Bob
Moore,
Lin Ming.

AcpiXtract: Correctly handle embedded comments
and messages from
AcpiDump.
Apparently some or all versions of acpidump will occasionally emit a
comment
like
"Wrong checksum", etc., into the dump file. This was causing problems for
AcpiXtract. ACPICA BZ 905.

iASL: Fix the Linux makefile by removing an inadvertent double file
inclusion.
ACPICA BZ 913.

AcpiExec: Update installation of operation region handlers. Install one
handler
for a user-defined address space. This is used by the ASL test suite
(ASLTS).

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11 February 2011. Summary of changes for version 20110211:

1) ACPI CA Core Subsystem:

Added a mechanism to defer _REG methods for some early-installed handlers.
Most user handlers should be installed before call to AcpiEnableSubsystem.
However, Event handlers and region handlers should be installed after AcpiInitializeObjects. Override handlers for the "default" regions should be
installed early, however. This change executes all _REG methods for the default regions
(Memory/IO/PCI/DataTable) simultaneously to prevent any chicken/egg issues between them. ACPICA BZ 848.

Implemented an optimization for GPE detection. This optimization will simply
ignore GPE registers that contain no enabled GPEs -- there is no need to read the register since this information is available internally. This becomes more important on machines with a large GPE space. ACPICA bugzilla
884. Lin Ming. Suggestion from Joe Liu.

Removed all use of the highly unreliable FADT revision field. The revision
number in the FADT has been found to be completely unreliable and cannot be
trusted. Only the actual table length can be used to infer the version. This
change updates the ACPICA core and the disassembler so that both no longer
even look at the FADT version and instead depend solely upon the FADT length.

Fix an unresolved name issue for the no-debug and no-error-message source generation cases. The _AcpiModuleName was left undefined in these cases, but
it
is actually needed as a parameter to some interfaces. Define _AcpiModuleName as a null string in these cases. ACPICA Bugzilla 888.

Split several large files (makefiles and project files updated)
utglobal.c -> utdecode.c
dbcomds.c -> dbmethod.c dbnames.c
dsopcode.c -> dsargs.c dscontrol.c
dsload.c -> dsload2.c
aslanalyze.c -> aslbtypes.c aslwalks.c

Example Code and Data Size: These are the sizes for the OS-independent

acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has
a much larger code and data size.

Previous Release (VC 9.0):
Non-Debug Version: 89.7K Code, 23.7K Data, 113.4K Total
Debug Version: 163.9K Code, 67.5K Data, 231.4K Total
Current Release (VC 9.0):
Non-Debug Version: 89.7K Code, 23.7K Data, 113.4K Total
Debug Version: 163.9K Code, 67.5K Data, 231.4K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Implemented the
predefined macros __LINE__, __FILE__, and __DATE__.
These are useful C-style macros with the standard definitions. ACPICA bugzilla 898.

iASL/DTC: Added support for integer expressions and labels. Support for full
expressions for all integer fields in all ACPI tables. Support for labels in
"generic" portions of tables such as UEFI. See the iASL reference manual.

Debugger: Added a command to display the status of global handlers. The "handlers" command will display op region, fixed event, and miscellaneous global handlers. installation status -- and for op regions, whether default
or user-installed handler will be used.

iASL: Warn if reserved method incorrectly returns a value. Many predefined
names are defined such that they do not return a value. If implemented as a
method, issue a warning if such a name explicitly returns a value. ACPICA Bugzilla 855.

iASL: Added detection of GPE method name conflicts. Detects a conflict where
there are two GPE methods of the form
_Lxy and _Exy in the same scope.
(For
example, _L1D and _E1D in the same scope.) ACPICA bugzilla 848.

iASL/DTC: Fixed a couple input scanner issues with comments and line numbers. Comment remover could get confused and miss a comment ending. Fixed

a problem with line counter maintenance.

iASL/DTC: Reduced the severity of some errors from fatal to error. There
is
no need to abort on simple errors within a field definition.

Debugger: Simplified the output of the help command. All help output now
in
a single screen, instead of help subcommands. ACPICA Bugzilla 897.

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12 January 2011. Summary of changes for version 20110112:

1) ACPI CA Core Subsystem:

Fixed a race condition between method execution and namespace walks that
can
possibly cause a fault. The problem was apparently introduced in version
20100528 as a result of a performance optimization that reduces the
number
of
namespace walks upon method exit by using the delete_namespace_subtree

function instead of the delete_namespace_by_owner function used
previously.
Bug is a missing namespace lock in the delete_namespace_subtree function.
dana.myers@oracle.com

Fixed several issues and a possible fault with the automatic "serialized"
method support. History: This support changes a method to "serialized" on
the
fly if the method generates an AE_ALREADY_EXISTS error, indicating the
possibility that it cannot handle reentrancy. This fix repairs a couple
of
issues seen in the field, especially on machines with many cores:

1) Delete method children only upon the exit of the last thread,
so as to not delete objects out from under other running threads
(and possibly causing a fault.)
2) Set the "serialized" bit for the method only upon the exit of the
Last thread, so as to not cause deadlock when running threads
attempt to exit.
3) Cleanup the use of the AML "MethodFlags" and internal method flags
so that
there is no longer any confusion between the two.

Lin Ming, Bob Moore. Reported by dana.myers@oracle.com.

Debugger: Now lock the namespace for duration of a namespace dump. Prevents
issues if the namespace is changing dynamically underneath the debugger.
Especially affects temporary namespace nodes, since the debugger displays
these also.

Updated the ordering of include files. The ACPICA headers should appear
before any compiler-specific headers (stdio.h, etc.) so that acenv.h can set
any necessary compiler-specific defines, etc. Affects the ACPI-related tools
and utilities.

Updated all ACPICA copyrights and signons to 2011. Added the 2011 copyright
to all module headers and signons, including the Linux header. This affects
virtually every file in the ACPICA core subsystem, iASL compiler, and all
utilities.

Added project files for MS Visual Studio 2008 (VC++ 9.0). The original
project files for VC++ 6.0 are now obsolete. New project files can be found
under acpica/generate/msvc9.
 See acpica/generate/msvc9/readme.txt for
details.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 9.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and has a
much larger code and data size.

 Previous Release (VC 6.0):
   Non-Debug Version: 89.8K Code, 18.9K Data, 108.7K Total
   Debug Version: 166.6K Code, 52.1K Data, 218.7K Total
 Current Release (VC 9.0):
   Non-Debug Version: 89.7K Code, 23.7K Data, 113.4K Total
   Debug Version: 163.9K Code, 67.5K Data, 231.4K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Added generic data types to the Data Table compiler. Add "generic" data
types such as UINT32, String, Unicode, etc., to simplify the generation of
platform-defined tables such as UEFI. Lin Ming.

iASL: Added listing support for the Data Table Compiler. Adds listing
support
(-l) to display actual binary output for
each line of input code.

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09 December 2010. Summary of changes for version 20101209:

1) ACPI CA Core Subsystem:

Completed the major overhaul of the GPE support code that was begun in
July
2010. Major features include: removal of _PRW execution in ACPICA (host executes _PRWs anyway), cleanup of "wake" GPE interfaces and processing, changes to existing interfaces, simplification of GPE handler operation,
and
a handful of new interfaces:

AcpiUpdateAllGpes
AcpiFinishGpe
AcpiSetupGpeForWake
AcpiSetGpeWakeMask
One new file, evxfgpe.c to consolidate all external GPE interfaces.

See the ACPICA Programmer Reference for full details and programming information. See the new section 4.4 "General Purpose Event (GPE)
Support"
for a full overview, and section 8.7 "ACPI General Purpose Event
Management"
for programming details. ACPICA BZ 858,870,877. Matthew Garrett, Lin
Ming,
Bob Moore, Rafael Wysocki.

Implemented a new
GPE feature for Windows compatibility, the "Implicit
Wake
GPE Notify". This feature will automatically issue a Notify(2) on a
device
when a Wake GPE is received if there is no corresponding GPE method or handler. ACPICA BZ 870.

Fixed a problem with the Scope() operator during table parse and load
phase.
During load phase (table load or method execution), the scope operator
should
not enter the target into the namespace. Instead, it should open a new
scope
at the target location. Linux BZ 19462, ACPICA BZ 882.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a
much larger code and data size.

Previous Release:
Non-Debug Version: 89.8K Code, 18.9K Data, 108.7K Total
Debug Version: 166.6K Code, 52.1K Data, 218.7K Total
Current Release:
Non-Debug Version: 89.9K Code, 19.0K Data, 108.9K
Total
Debug Version: 166.3K Code, 52.1K Data, 218.4K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Relax the alphanumeric restriction on _CID strings. These strings are
"bus-specific" per the ACPI specification, and therefore any characters are
acceptable. The only checks that can be performed are for a null string and
perhaps for a leading asterisk. ACPICA BZ 886.

iASL: Fixed a problem where a syntax error that caused a premature EOF condition on the source file emitted a very confusing error message. The premature EOF is now detected correctly. ACPICA BZ 891.

Disassembler: Decode the AccessSize within a Generic Address Structure (byte
access, word access, etc.) Note, this field does not allow arbitrary bit access, the size is encoded as 1=byte, 2=word, 3=dword, and 4=qword.

New: AcpiNames utility - Example namespace dump utility. Shows an example of
ACPICA configuration for a minimal namespace dump utility. Uses table and namespace managers, but
no AML interpreter. Does not add any
functionality
over AcpiExec, it is a subset of AcpiExec. The purpose is to show how to partition and configure ACPICA. ACPICA BZ 883.

AML Debugger: Increased the debugger buffer size for method return objects.
Was 4K, increased to 16K. Also enhanced error messages for debugger method
execution, including the buffer overflow case.

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13 October 2010. Summary of changes for version 20101013:

1) ACPI CA Core Subsystem:

Added support to clear the PCIEXP_WAKE event. When clearing ACPI events, now
clear the PCIEXP_WAKE_STS bit in the ACPI PM1 Status Register, via
HwClearAcpiStatus. Original change from Colin King. ACPICA BZ 880.

Changed the type of the predefined namespace object _TZ from ThermalZone to
Device. This was found to be confusing to the host software that processes
the various thermal zones, since _TZ is not really a ThermalZone. However,
a
Notify() can still be performed on it. ACPICA
BZ 876. Suggestion from Rui
Zhang.

Added Windows Vista SP2 to the list of supported _OSI strings. The actual
string is "Windows 2006 SP2".

Eliminated duplicate code in AcpiUtExecute* functions. Now that the nsrepair
code automatically repairs _HID-related strings, this type of code is no
longer needed in Execute_HID, Execute_CID, and Execute_UID. ACPICA BZ
878.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and has a
much larger code and data size.

Previous Release:
Non-Debug Version: 89.9K Code, 19.0K Data, 108.9K Total
Debug Version: 166.3K Code, 52.1K Data, 218.4K Total
Current Release:
Non-Debug Version: 89.9K Code, 19.0K Data, 108.9K Total
Debug Version: 166.3K Code, 52.1K Data, 218.4K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Implemented additional compile-time

validation for _HID strings.
The
non-hex prefix (such as "PNP" or "ACPI") must be uppercase, and the
length
of
the string must be exactly seven or eight characters. For both _HID and
_CID
strings, all characters must be alphanumeric. ACPICA BZ 874.

iASL: Allow certain "null" resource descriptors. Some BIOS code creates
descriptors that are mostly or all zeros, with the expectation that they
will
be filled in at runtime. iASL now allows this as long as there is a
"resource
tag" (name) associated with the descriptor, which gives the ASL a handle
needed to modify the descriptor. ACPICA BZ 873.

Added single-thread support to the generic Unix application OSL.
Primarily
for iASL support, this change removes the use of semaphores in the
single-
threaded ACPICA tools/applications - increasing performance. The
_MULTI_THREADED option was replaced by the (reverse) ACPI_SINGLE_THREADED
option. ACPICA BZ 879.

AcpiExec: several fixes for the 64-bit version. Adds XSDT support and

support
for 64-bit DSDT/FACS addresses in the FADT. Lin Ming.

iASL: Moved all compiler messages to a new file, aslmessages.h.

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15 September 2010. Summary of changes for version 20100915:

1) ACPI CA Core Subsystem:

Removed the AcpiOsDerivePciId OSL interface. The various host
implementations
of this function were not OS-dependent and are now obsolete and can be
removed from all host OSLs. This function has been replaced by
AcpiHwDerivePciId, which is now part of the ACPICA core code.
AcpiHwDerivePciId has been implemented without recursion. Adds one new
module, hwpci.c. ACPICA BZ 857.

Implemented a dynamic repair for _HID and _CID strings. The following
problems are now repaired at runtime: 1) Remove a leading asterisk in the
string, and 2) the entire string is uppercased. Both repairs are in

accordance with the ACPI specification and will simplify host driver code.
ACPICA BZ 871.

The ACPI_THREAD_ID type is no longer configurable, internally it is now always UINT64. This simplifies the ACPICA code, especially any printf output.
UINT64 is the only common data type for all thread_id types across all operating systems. It is now up to the host OSL to cast the native thread_id type to UINT64 before returning the value to ACPICA (via AcpiOsGetThreadId).
Lin Ming, Bob Moore.

Added the ACPI_INLINE type to enhance the ACPICA configuration. The "inline" keyword is not standard across compilers, and this type allows inline to be configured on a per-compiler basis. Lin Ming.

Made the system global AcpiGbl_SystemAwakeAndRunning publicly available.
Added an extern for this boolean in acpixf.h. Some hosts utilize this value during suspend/restore operations. ACPICA BZ 869.

All code that implements error/warning messages with the "ACPI:" prefix has been moved to a new module, utxferror.c.

The UINT64_OVERLAY was moved to utmath.c, which is the only module where it is used. ACPICA BZ 829. Lin Ming, Bob Moore.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:
Non-Debug Version: 89.1K Code, 19.0K Data, 108.1K Total
Debug Version: 165.1K Code, 51.9K Data, 217.0K Total
Current Release:
Non-Debug Version: 89.9K Code, 19.0K Data, 108.9K Total
Debug Version: 166.3K Code, 52.1K Data, 218.4K Total

2) iASL Compiler/Disassembler and Tools:

iASL/Disassembler: Write ACPI errors to stderr instead of the output
file.
This keeps the output files free of random error messages that may
originate
from within the namespace/interpreter code. Used this opportunity to
merge
all ACPI:-style messages into a single new module, utxferror.c. ACPICA BZ
866. Lin Ming, Bob Moore.

Tools: update some printfs for ansi warnings on size_t. Handle width

change
of size_t on 32-bit versus 64-bit generations. Lin Ming.

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06 August 2010. Summary of changes for version 20100806:

1) ACPI CA Core Subsystem:

Designed and implemented a new host interface to the _OSI support code.
This
will allow the host to dynamically add or remove multiple _OSI strings,
as
well as install an optional handler that is called for each _OSI
invocation.
Also added a new AML debugger command, 'osi' to display and modify the
global
_OSI string table, and test support in the AcpiExec utility. See the
ACPICA
reference manual for full details. Lin Ming, Bob Moore. ACPICA BZ 836.
New Functions:
  AcpiInstallInterface - Add an _OSI string.
  AcpiRemoveInterface - Delete an _OSI string.
  AcpiInstallInterfaceHandler - Install optional _OSI handler.
Obsolete Functions:
  AcpiOsValidateInterface - no longer used.
New Files:
  source/components/utilities/utosi.c

Re-introduced the support to enable multi-byte transfers
 for Embedded
Controller (EC) operation regions. A reported problem was found to be a
bug
in the host OS, not in the multi-byte support. Previously, the maximum
data

size passed to the EC operation region handler was a single byte. There are
often EC Fields larger than one byte that need to be transferred, and it is
useful for the EC driver to lock these as a single transaction. This change
enables single transfers larger than 8 bits. This effectively changes the
access to the EC space from ByteAcc to AnyAcc, and will probably require
changes to the host OS Embedded Controller driver to enable 16/32/64/256-bit
transfers in addition to 8-bit transfers. Alexey Starikovskiy, Lin Ming.

Fixed a problem with the prototype for AcpiOsReadPciConfiguration. The
prototype in acpiosxf.h had the output value pointer as a (void *).
It should be a (UINT64 *). This may affect some host OSL code.

Fixed a couple problems with the recently modified Linux makefiles for iASL
and
AcpiExec. These new makefiles place the generated object files in the
local directory so that there can be no collisions between the files that are
shared between them that are compiled with different options.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and has a
much larger code and data size.

Previous Release:
  Non-Debug Version: 88.3K Code, 18.8K Data, 107.1K Total
  Debug Version: 164.0K Code, 51.5K Data, 215.5K Total
Current Release:
  Non-Debug Version: 89.1K Code, 19.0K Data, 108.1K Total
  Debug Version: 165.1K Code, 51.9K Data, 217.0K Total

2) iASL Compiler/Disassembler and Tools:

iASL/Disassembler: Added a new option (-da, "disassemble all") to load the
namespace from and disassemble an entire group of AML files. Useful for
loading all of the AML tables for a given machine
(DSDT, SSDT1...SSDTn)
and
disassembling with one simple command. ACPICA BZ 865. Lin Ming.

iASL: Allow multiple invocations of -e option. This change allows

multiple
uses of -e on the command line: "-e ssdt1.dat -e ssdt2.dat". ACPICA BZ
834.
Lin Ming.

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02 July 2010. Summary of changes for version 20100702:

1) ACPI CA Core Subsystem:

Implemented several updates to the recently added GPE reference count
support. The model for "wake" GPEs is changing to give the host OS
complete
control of these GPEs. Eventually, the ACPICA core will not execute any
_PRW
methods, since the host already must execute them. Also, additional
changes
were made to help ensure that the reference counts are kept in proper
synchronization with reality. Rafael J. Wysocki.

1) Ensure that GPEs are not enabled twice during initialization.
2) Ensure that GPE enable masks stay in sync with the reference count.
3) Do not inadvertently enable GPEs when writing GPE
registers.
4) Remove the internal wake reference counter and add new AcpiGpeWakeup
interface. This interface will set or clear individual GPEs for wakeup.
5) Remove GpeType argument from AcpiEnable and AcpiDisable. These
interfaces
are now used for "runtime" GPEs only.

Changed the behavior of the GPE install/remove handler interfaces. The
GPE
is
no longer disabled during this process, as it was found to cause problems
on
some machines. Rafael J. Wysocki.

Reverted a change introduced in version 20100528 to enable Embedded
Controller multi-byte transfers. This change was found to cause problems
with
Index Fields and possibly Bank Fields. It will be reintroduced when these
problems have been resolved.

Fixed a problem with references to Alias objects within Package Objects.
A
reference to an Alias within the definition of a Package was not always
resolved properly. Aliases to objects like Processors, Thermal zones,
etc.

were resolved to the actual object instead of a reference
to the object
as
it
should be. Package objects are only allowed to contain integer, string,
buffer, package, and reference objects. Redhat bugzilla 608648.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has a
much larger code and data size.

Previous Release:
Non-Debug Version: 88.3K Code, 18.8K Data, 107.1K Total
Debug Version: 164.1K Code, 51.5K Data, 215.6K Total
Current Release:
Non-Debug Version: 88.3K Code, 18.8K Data, 107.1K Total
Debug Version: 164.0K Code, 51.5K Data, 215.5K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Implemented a new compiler subsystem to allow definition and
compilation of the non-AML ACPI tables such as FADT, MADT, SRAT, etc.
These
are called "ACPI Data Tables", and the new compiler is the "Data Table
Compiler". This compiler is
intended to simplify the existing error-prone
process of creating these tables for the BIOS, as well as allowing the
disassembly, modification, recompilation, and override of existing ACPI
data
tables. See the iASL User Guide for detailed information.

iASL: Implemented a new Template Generator option in support of the new
Data
Table Compiler. This option will create examples of all known ACPI tables
that can be used as the basis for table development. See the iASL
documentation and the -T option.

Disassembler and headers: Added support for the WDDT ACPI table (Watchdog
Descriptor Table).

Updated the Linux makefiles for iASL and AcpiExec to place the generated
object files in the local directory so that there can be no collisions
between the shared files between them that are generated with different
options.

Added support for Mac OS X in the Unix OSL used for iASL and AcpiExec.

Use
the #define __APPLE__ to enable this support.

28
May 2010. Summary of changes for version 20100528:

Note: The ACPI 4.0a specification was released on April 5, 2010 and is
available at www.acpi.info. This is primarily an errata release.

1) ACPI CA Core Subsystem:

Undefined ACPI tables: We are looking for the definitions for the
following
ACPI tables that have been seen in the field: ATKG, IEIT, GSCI.

Implemented support to enable multi-byte transfers for Embedded
Controller
(EC) operation regions. Previously, the maximum data size passed to the
EC
operation region handler was a single byte. There are often EC Fields
larger
than one byte that need to be transferred, and it is useful for the EC
driver
to lock these as a single transaction. This change enables single
transfers
larger than 8 bits. This effectively changes the access to the EC space
from
ByteAcc to AnyAcc, and will probably require changes to the host OS
Embedded
Controller driver to enable 16/32/64/256-bit transfers in addition to 8-
bit
transfers.
Alexey Starikovskiy, Lin Ming

Implemented a performance enhancement for namespace search and access.
This
change enhances the performance of namespace searches and walks by adding
a
backpointer to the parent in each namespace node. On large namespaces,
this
change can improve overall ACPI performance by up to 9X. Adding a pointer
to
each namespace node increases the overall size of the internal namespace
by
about 5%, since each namespace entry usually consists of both a namespace
node and an ACPI operand object. However, this is the first growth of the
namespace in ten years. ACPICA bugzilla 817. Alexey Starikovskiy.

Implemented a performance optimization that reduces the number of namespace
walks. On control method exit, only walk the namespace if the method is known
to have created namespace objects outside of its local scope. Previously, the
entire namespace was traversed on each control method exit. This change can
improve overall ACPI performance by up to
 3X. Alexey Starikovskiy, Bob
Moore.

Added support to truncate I/O addresses to 16 bits for Windows compatibility.
Some ASL code has been seen in the field that inadvertently has bits set
above bit 15. This feature is optional and is enabled if the BIOS requests
any Windows OSI strings. It can also be enabled by the host OS. Matthew
Garrett, Bob Moore.

Added support to limit the maximum time for the ASL Sleep() operator. To
prevent accidental deep sleeps, limit the maximum time that Sleep() will
actually sleep. Configurable, the default maximum is two seconds. ACPICA
bugzilla 854.

Added run-time validation support for the _WDG and_WED Microsoft predefined
methods. These objects are defined by "Windows Instrumentation", and are not
part of the ACPI spec. ACPICA BZ 860.

Expanded all statistic counters used during namespace and device
initialization from 16 to 32 bits in order to support very large
namespaces.

Replaced all instances of %d in printf format specifiers with
 %u since
nearly
all integers in ACPICA are unsigned.

Fixed the exception namestring for AE_WAKE_ONLY_GPE. Was incorrectly returned
as AE_NO_HANDLER.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and

has a
much larger code and data size.

Previous Release:
Non-Debug Version: 88.4K Code, 18.8K Data, 107.2K Total
Debug Version: 164.2K Code, 51.5K Data, 215.7K Total
Current Release:
Non-Debug Version: 88.3K Code, 18.8K Data, 107.1K Total
Debug Version: 164.1K Code, 51.5K Data, 215.6K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Added compiler support for the _WDG and_WED Microsoft predefined methods. These objects are defined by "Windows Instrumentation", and are not
part of the ACPI spec. ACPICA BZ 860.

AcpiExec: added option to disable the memory tracking mechanism. The -dt
option will disable the tracking mechanism, which improves performance considerably.

AcpiExec: Restructured the command line options into -d (disable) and -e (enable) options.

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28 April 2010. Summary of changes for version 20100428:

1) ACPI CA Core Subsystem:

Implemented GPE support for dynamically loaded ACPI tables. For all GPEs, including FADT-based and GPE Block Devices, execute any _PRW methods in the
new table, and process any _Lxx/_Exx GPE methods in the new table. Any runtime GPE that is referenced by an _Lxx/_Exx method in the new table is immediately enabled. Handles the FADT-defined GPEs as well as GPE Block Devices. Provides compatibility with other ACPI implementations. Two new files added, evgpeinit.c and evgpeutil.c. ACPICA BZ 833. Lin Ming, Bob Moore.

Fixed a regression introduced in version 20100331 within the table manager
where initial table loading could fail. This was introduced in the fix for
AcpiReallocateRootTable.
Also, renamed some of fields in the table manager
data structures to clarify their meaning and use.

Fixed a possible allocation overrun during internal object copy in AcpiUtCopySimpleObject. The original code did not correctly handle the case
where the object to be copied was a namespace node. Lin Ming. ACPICA BZ 847.

Updated the allocation dump routine, AcpiUtDumpAllocation and fixed a possible access beyond end-of-allocation. Also, now fully validate descriptor
(size and type) before output. Lin Ming, Bob Moore. ACPICA BZ 847

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a
much larger code and data size.

Previous Release:
Non-Debug Version: 87.9K Code, 18.6K Data, 106.5K Total
Debug Version: 163.5K Code, 51.3K Data, 214.8K Total
Current Release:
Non-Debug Version:
88.4K Code, 18.8K Data, 107.2K Total
Debug Version: 164.2K Code, 51.5K Data, 215.7K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Implemented Min/Max/Len/Gran validation for address resource descriptors. This change implements validation for the address fields that
are common to all address-type resource descriptors. These checks are implemented: Checks for valid Min/Max, length within the Min/Max window, valid granularity, Min/Max a multiple of granularity, and _MIF/_MAF as per
table 6-40 in the ACPI 4.0a specification. Also split the large aslrestype1.c
and aslrestype2.c files into five new files. ACPICA BZ 840.

iASL: Added support for the _Wxx predefined names. This support was missing
and these names were not recognized by the compiler as valid predefined names. ACPICA BZ 851.

iASL: Added an error for all predefined names that are defined to return no
value and thus must be implemented as Control Methods. These include all of

the _Lxx, _Exx,
_Wxx, and _Qxx names, as well as some other miscellaneous
names such as _DIS, _INI, _IRC, _OFF, _ON, and _PSx. ACPICA BZ 850, 856.

iASL: Implemented the -ts option to emit hex AML data in ASL format, as
an
ASL Buffer. Allows ACPI tables to be easily included within ASL files, to
be
dynamically loaded via the Load() operator. Also cleaned up output for
the
-
ta and -tc options. ACPICA BZ 853.

Tests: Added a new file with examples of extended iASL error checking.
Demonstrates the advanced error checking ability of the iASL compiler.
Available at tests/misc/badcode.asl.

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31 March 2010. Summary of changes for version 20100331:

1) ACPI CA Core Subsystem:

Completed a major update for the GPE support in order to improve support
for
shared GPEs and to simplify both host OS and ACPICA code. Added a
reference
count mechanism to support shared GPEs that require multiple device
drivers.
Several external interfaces have changed. One external
interface has been
removed. One new external interface was added. Most of the GPE external
interfaces now use the GPE spinlock instead of the events mutex (and the
Flags parameter for many GPE interfaces has been removed.) See the
updated
ACPICA Programmer Reference for details. Matthew Garrett, Bob Moore,
Rafael
Wysocki. ACPICA BZ 831.

Changed:
AcpiEnableGpe, AcpiDisableGpe, AcpiClearGpe, AcpiGetGpeStatus
Removed:
AcpiSetGpeType
New:
AcpiSetGpe

Implemented write support for DataTable operation regions. These regions
are
defined via the DataTableRegion() operator. Previously, only read support

was
implemented. The ACPI specification allows DataTableRegions to be
read/write,
however.

Implemented a new subsystem option to force a copy of the DSDT to local
memory. Optionally copy the entire DSDT to local memory (instead of
simply
mapping it.) There are some (albeit very rare) BIOSs that corrupt or
replace
the original DSDT, creating the need for this
option. Default is FALSE,
do
not copy the DSDT.

Implemented detection of a corrupted or replaced DSDT. This change adds
support to detect a DSDT that has been corrupted and/or replaced from
outside
the OS (by firmware). This is typically catastrophic for the system, but
has
been seen on some machines. Once this problem has been detected, the DSDT
copy option can be enabled via system configuration. Lin Ming, Bob Moore.

Fixed two problems with AcpiReallocateRootTable during the root table
copy.
When copying the root table to the new allocation, the length used was
incorrect. The new size was used instead of the current table size,
meaning
too much data was copied. Also, the count of available slots for ACPI
tables
was not set correctly. Alexey Starikovskiy, Bob Moore.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace
mechanism and
has a
much larger code and data size.

Previous Release:
Non-Debug Version: 87.5K Code, 18.4K Data, 105.9K Total
Debug Version: 163.4K Code, 51.1K Data, 214.5K Total
Current Release:
Non-Debug Version: 87.9K Code, 18.6K Data, 106.5K Total
Debug Version: 163.5K Code, 51.3K Data, 214.8K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Implement limited typechecking for values returned from predefined control methods. The type of any returned static (unnamed) object is now validated. For example, Return(1). ACPICA BZ 786.

iASL: Fixed a predefined name object verification regression. Fixes a problem
introduced in version 20100304. An error is incorrectly generated if a predefined name is declared as a static named object with a value defined using the keywords "Zero", "One", or "Ones". Lin Ming.

iASL: Added Windows 7 support for the -g option (get local ACPI tables) by
reducing the requested registry access rights. ACPICA BZ 842.

Disassembler:
fixed a possible fault when generating External()
statements.
Introduced in commit ae7d6fd: Properly handle externals with parent-prefix
(carat). Fixes a string length allocation calculation. Lin Ming.

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04 March 2010. Summary of changes for version 20100304:

1) ACPI CA Core Subsystem:

Fixed a possible problem with the AML Mutex handling function AcpiExReleaseMutex where the function could fault under the very rare condition when the interpreter has blocked, the interpreter lock is released,
the interpreter is then reentered via the same thread, and attempts to acquire an AML mutex that was previously acquired. FreeBSD report 140979. Lin
Ming.

Implemented additional configuration support for the AML "Debug Object". Output from the debug object can now be enabled via a global variable, AcpiGbl_EnableAmlDebugObject. This will assist with remote machine debugging.
This debug output is now available in the release
version of ACPICA
instead
of just the debug version. Also, the entire debug output module can now be
configured out of the ACPICA build if desired. One new file added, executer/exdebug.c. Lin Ming, Bob Moore.

Added header support for the ACPI MCHI table (Management Controller Host

Interface Table). This table was added in ACPI 4.0, but the defining
document
has only recently become available.

Standardized output of integer values for ACPICA warnings/errors. Always
use
0x prefix for hex output, always use %u for unsigned integer decimal
output.
Affects ACPI_INFO, ACPI_ERROR, ACPI_EXCEPTION, and ACPI_WARNING (about
400
invocations.) These invocations were converted from the original
ACPI_DEBUG_PRINT invocations and were not consistent. ACPICA BZ 835.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has
a
much larger code and data size.

Previous Release:
Non-Debug Version: 87.1K Code, 18.0K Data, 105.1K Total
Debug Version: 163.5K Code, 50.9K Data, 214.4K Total
Current Release:
Non-Debug Version: 87.5K Code, 18.4K Data, 105.9K Total
Debug Version: 163.4K Code, 51.1K Data, 214.5K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Implemented typechecking support for static (non-control method)
predefined named objects that are declared with the Name() operator. For
example, the type of this object is now validated to be of type Integer:
Name(_BBN, 1). This change migrates the compiler to using the core
predefined
name table instead of maintaining a local version. Added a new file,
aslpredef.c. ACPICA BZ 832.

Disassembler: Added support for the ACPI 4.0 MCHI table.

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21 January 2010. Summary of changes for version 20100121:

1) ACPI CA Core Subsystem:

Added the 2010 copyright to all module headers and signons.
This affects
virtually every file in the ACPICA core subsystem, the iASL compiler, the
tools/utilities, and the test suites.

Implemented a change to the AcpiGetDevices interface to eliminate unnecessary
invocations of the _STA method. In the case where a specific _HID is requested, do not run _STA until a _HID match is found. This eliminates potentially dozens of _STA calls during a search for a particular device/HID,
which in turn can improve boot times. ACPICA BZ 828. Lin Ming.

Implemented an additional repair for predefined method return values. Attempt
to repair unexpected NULL elements within returned Package objects. Create
an
Integer of value zero, a NULL String, or a zero-length Buffer as appropriate.
ACPICA BZ 818. Lin Ming, Bob Moore.

Removed the obsolete ACPI_INTEGER data type. This type was introduced as the
code was migrated from ACPI 1.0 (with 32-bit AML integers) to ACPI 2.0 (with
64-bit AML integers). It is now obsolete and this change removes
it from
the
ACPICA code base, replaced by UINT64. The original typedef has been retained
for now for compatibility with existing device driver code. ACPICA BZ 824.

Removed the unused UINT32_STRUCT type, and the obsolete Integer64 field in
the parse tree object.

Added additional warning options for the gcc-4 generation. Updated the source
accordingly. This includes some code restructuring to eliminate unreachable
code, elimination of some gotos, elimination of unused return values, some
additional casting, and removal of redundant declarations.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a
much larger code and data size.

Previous Release:
Non-Debug Version: 87.0K Code, 18.0K Data, 105.0K Total
Debug Version: 163.4K Code, 50.8K Data, 214.2K Total
Current Release:
Non-Debug
Version: 87.1K Code, 18.0K Data, 105.1K Total
Debug Version: 163.5K Code, 50.9K Data, 214.4K Total

2) iASL Compiler/Disassembler and Tools:

No functional changes for this release.

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14 December 2009. Summary of changes for version 20091214:

1) ACPI CA Core Subsystem:

Enhanced automatic data type conversions for predefined name repairs. This change expands the automatic repairs/conversions for predefined name return values to make Integers, Strings, and Buffers fully interchangeable. Also, a Buffer can be converted to a Package of Integers if necessary. The nsrepair.c module was completely restructured. Lin Ming, Bob Moore.

Implemented automatic removal of null package elements during predefined name repairs. This change will automatically remove embedded and trailing NULL package elements from returned package objects that are defined to contain a variable number of sub-packages. The driver is then presented with a package with no null elements to deal with. ACPICA BZ 819.

Implemented a repair for the predefined _FDE and _GTM names. The expected return value for both names is a Buffer of 5 DWORDs. This repair fixes two possible problems (both seen in the field), where a package of integers is returned, or a buffer of BYTEs is returned. With assistance from Jung-uk Kim.

Implemented additional module-level code support. This change will

properly
execute module-level code that is not at the root of the namespace (under
a
Device object, etc.). Now executes the code within the current scope
instead
of the root. ACPICA BZ 762. Lin Ming.

Fixed possible mutex acquisition errors when running _REG methods. Fixes
a
problem where mutex errors can occur when running a _REG method that is
in
the same scope as a method-defined operation region or an operation
region
under a module-level IF block. This type of code is rare, so the problem
has
not been seen before. ACPICA BZ 826. Lin Ming,
Bob Moore.

Fixed a possible memory leak during module-level code execution. An
object
could be leaked for each block of executed module-level code if the
interpreter slack mode is enabled This change deletes any implicitly
returned
object from the module-level code block. Lin Ming.

Removed messages for successful predefined repair(s). The repair
mechanism
was considered too wordy. Now, messages are only unconditionally emitted
if
the return object cannot be repaired. Existing messages for successful
repairs were converted to ACPI_DEBUG_PRINT messages for now. ACPICA BZ
827.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has a
much larger code and data size.

Previous Release:
Non-Debug Version: 86.6K Code, 18.2K Data, 104.8K Total
Debug Version: 162.7K Code, 50.8K Data, 213.5K Total
Current Release:
Non-Debug Version: 87.0K Code, 18.0K Data, 105.0K Total
Debug Version: 163.4K Code, 50.8K Data, 214.2K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Fixed a regression introduced in 20091112 where intermediate .SRC files
were no longer automatically removed at the termination of the compile.

acpiexec: Implemented the -f option to specify default region fill value. This option specifies the value used to initialize buffers that simulate operation regions. Default value is zero. Useful for debugging problems that
depend on a specific initial value for a region or field.

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12 November 2009. Summary of changes for version 20091112:

1) ACPI CA Core Subsystem:

Implemented a post-order callback to AcpiWalkNamespace. The existing interface only has a pre-order callback. This change adds an additional parameter for a post-order callback which will be more useful for bus scans.
ACPICA BZ 779. Lin Ming.
Updated the ACPICA Programmer Reference.

Modified the behavior of the operation region memory mapping cache for SystemMemory. Ensure that the memory mappings created for operation regions
do not cross 4K page boundaries. Crossing a page boundary while mapping regions can cause kernel warnings on some hosts if the pages have different
attributes. Such regions are probably BIOS bugs, and this is the workaround.
Linux BZ 14445. Lin Ming.

Implemented an automatic repair for predefined methods that must return sorted lists. This change will repair (by sorting) packages returned by _ALR,
_PSS, and _TSS. Drivers can now assume that the packages are correctly sorted
and do not contain NULL package elements. Adds one new file, namespace/nsrepair2.c. ACPICA BZ 784. Lin Ming, Bob Moore.

Fixed a possible fault during predefined name validation if a return Package
object contains NULL elements. Also adds a warning if a NULL element is followed by any non-null elements. ACPICA BZ
813, 814. Future enhancement
may
include repair or removal of all such NULL elements where possible.

Implemented additional module-level executable AML code support. This change
will execute module-level code that is not at the root of the namespace
(under a Device object, etc.) at table load time. Module-level executable AML
code has been illegal since ACPI 2.0. ACPICA BZ 762. Lin Ming.

Implemented a new internal function to create Integer objects. This function
simplifies miscellaneous object creation code. ACPICA BZ 823.

Reduced the severity of predefined repair messages, Warning to Info. Since
the object was successfully repaired, a warning is too severe. Reduced to an
info message for now. These messages may eventually be changed to debug-only.
ACPICA BZ 812.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has a
much larger code and data size.

Previous Release:
Non-Debug Version: 85.8K Code, 18.0K Data, 103.8K Total
Debug Version: 161.8K Code, 50.6K Data, 212.4K Total
Current Release:
Non-Debug Version: 86.6K Code, 18.2K Data, 104.8K Total
Debug Version: 162.7K Code, 50.8K Data, 213.5K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Implemented Switch() with While(1) so that Break works correctly. This
change correctly implements the Switch operator with a surrounding While(1)
so that the Break operator works as expected. ACPICA BZ 461. Lin Ming.

iASL: Added a message if a package initializer list is shorter than package
length. Adds a new remark for a Package() declaration if an initializer list
exists, but is shorter than the declared length of the package. Although
technically legal, this is probably a coding error and it is seen in the
field. ACPICA BZ 815. Lin Ming, Bob Moore.

iASL: Fixed a problem where the compiler could
fault after the maximum
number
of errors was reached (200).

acpixtract: Fixed a possible warning for pointer cast if the compiler
warning
level set very high.

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13 October 2009. Summary of changes for version 20091013:

1) ACPI CA Core Subsystem:

Fixed a problem where an Operation Region _REG method could be executed
more
than once. If a custom address space handler is installed by the host
before
the "initialize operation regions" phase of the ACPICA initialization,
any
_REG methods for that address space could be executed twice. This change
fixes the problem. ACPICA BZ 427. Lin Ming.

Fixed a possible memory leak for the Scope() ASL operator. When the exact
invocation of "Scope(\)" is executed (change scope to root), one internal
operand object was leaked. Lin Ming.

Implemented a run-time repair for the _MAT predefined method. If the _MAT
return value is defined as a Field object in the AML, and the field
size is less than
or equal to the default width of an integer (32 or
64),_MAT
can incorrectly return an Integer instead of a Buffer. ACPICA now
automatically repairs this problem. ACPICA BZ 810.

Implemented a run-time repair for the _BIF and _BIX predefined methods.
The
"OEM Information" field is often incorrectly returned as an Integer with
value zero if the field is not supported by the platform. This is due to
an
ambiguity in the ACPI specification. The field should always be a string.
ACPICA now automatically repairs this problem by returning a NULL string
within the returned Package. ACPICA BZ 807.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and

has a
much larger code and data size.

Previous Release:
Non-Debug Version: 85.6K Code, 18.0K Data, 103.6K Total
Debug Version: 161.7K Code, 50.9K Data, 212.6K
Total
Current Release:
Non-Debug Version: 85.8K Code, 18.0K Data, 103.8K Total
Debug Version: 161.8K Code, 50.6K Data, 212.4K Total

2) iASL Compiler/Disassembler and Tools:

Disassembler: Fixed a problem where references to external symbols that
contained one or more parent-prefixes (carats) were not handled
correctly,
possibly causing a fault. ACPICA BZ 806. Lin Ming.

Disassembler: Restructured the code so that all functions that handle
external symbols are in a single module. One new file is added,
common/dmextern.c.

AML Debugger: Added a max count argument for the Batch command (which
executes multiple predefined methods within the namespace.)

iASL: Updated the compiler documentation (User Reference.) Available at
http://www.acpica.org/documentation/. ACPICA BZ 750.

AcpiXtract: Updated for Lint and other formatting changes. Close all open
files.

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03 September 2009. Summary of changes for version 20090903:

1) ACPI
CA Core Subsystem:

For Windows Vista compatibility, added the automatic execution of an _INI
method located at the namespace root (_INI). This method is executed at
table load time. This support is in addition to the automatic execution
of
_SB._INI. Lin Ming.

Fixed a possible memory leak in the interpreter for AML package objects
if
the package initializer list is longer than the defined size of the
package.
This apparently can only happen if the BIOS changes the package size on

the
fly (seen in a _PSS object), as ASL compilers do not allow this. The interpreter will truncate the package to the defined size (and issue an error
message), but previously could leave the extra objects undeleted if they were
pre-created during the argument processing (such is the case if the package
consists of a number of sub-packages as in the _PSS.) ACPICA BZ 805.

Fixed a problem seen when a Buffer or String is stored to itself via ASL. This has been reported in the field. Previously,
ACPICA would zero out
the
buffer/string. Now, the operation is treated as a noop. Provides Windows compatibility. ACPICA BZ 803. Lin Ming.

Removed an extraneous error message for ASL constructs of the form Store(LocalX,LocalX) when LocalX is uninitialized. These curious statements
are seen in many BIOSs and are once again treated as NOOPs and no error is
emitted when they are encountered. ACPICA BZ 785.

Fixed an extraneous warning message if a _DSM reserved method returns a Package object. _DSM can return any type of object, so validation on the return type cannot be performed. ACPICA BZ 802.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a
much larger code and data size.

Previous Release:
Non-Debug Version: 85.5K Code, 18.0K Data, 103.5K Total
Debug Version: 161.6K Code, 50.9K
Data, 212.5K Total
Current Release:
Non-Debug Version: 85.6K Code, 18.0K Data, 103.6K Total
Debug Version: 161.7K Code, 50.9K Data, 212.6K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Fixed a problem with the use of the Alias operator and Resource Templates. The correct alias is now constructed and no error is emitted. ACPICA BZ 738.

iASL: Implemented the -I option to specify additional search directories
for
include files. Allows multiple additional search paths for include files.
Directories are searched in the order specified on the command line
(after
the local directory is searched.) ACPICA BZ 800.

iASL: Fixed a problem where the full pathname for include files was not
emitted for warnings/errors. This caused the IDE support to not work
properly. ACPICA BZ 765.

iASL: Implemented the -@ option to specify a Windows-style response file
containing additional command line options. ACPICA BZ 801.

AcpiExec: Added support to load multiple AML files simultaneously
(such
as
a
DSDT and multiple SSDTs). Also added support for wildcards within the AML
pathname. These features allow all machine tables to be easily loaded and
debugged together. ACPICA BZ 804.

Disassembler: Added missing support for disassembly of HEST table Error
Bank
subtables.

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30 July 2009. Summary of changes for version 20090730:

The ACPI 4.0 implementation for ACPICA is complete with this release.

1) ACPI CA Core Subsystem:

ACPI 4.0: Added header file support for all new and changed ACPI tables.
Completely new tables are: IBFT, IVRS, MSCT, and WAET. Tables that are
new
for ACPI 4.0, but have previously been supported in ACPICA are: CPEP,
BERT,
EINJ, ERST, and HEST. Other newly supported tables are: UEFI and WDAT.
There
have been some ACPI 4.0 changes to other existing tables. Split the large
actbl1.h header into the existing actbl2.h header. ACPICA BZ 774.

ACPI 4.0: Implemented predefined name validation
for all new names. There
are
31 new names in ACPI 4.0. The predefined validation module was split into
two

files. The new file is namespace/nsrepair.c. ACPICA BZ 770.

Implemented support for so-called "module-level executable code". This is executable AML code that exists outside of any control method and is intended to be executed at table load time. Although illegal since ACPI 2.0, this type of code still exists and is apparently still being created. Blocks of this code are now detected and executed as intended. Currently, the code blocks must exist under either an If, Else, or While construct; these are the typical cases seen in the field. ACPICA BZ 762. Lin Ming.

Implemented an automatic dynamic repair for predefined names that return nested Package objects. This applies to predefined names that are defined to return a variable-length Package of sub-packages. If the number of sub-packages is one, BIOS code is occasionally seen that creates a simple single package with no sub-packages. This code attempts to fix the problem by wrapping a new package object around the existing package. These methods can be repaired: _ALR, _CSD, _HPX, _MLS, _PRT, _PSS, _TRT, and _TSS. ACPICA BZ 790.

Fixed a regression introduced in 20090625 for the AcpiGetDevices interface. The _HID/_CID matching was broken and no longer matched IDs correctly. ACPICA BZ 793.

Fixed a problem with AcpiReset where the reset would silently fail if the register was one of the protected I/O ports. AcpiReset now bypasses the port validation mechanism. This may eventually be driven into the AcpiRead/Write interfaces.

Fixed a regression related to the recent update of the AcpiRead/Write interfaces. A sleep/suspend could fail if the optional PM2 Control register does not exist during an attempt to write the Bus Master Arbitration bit. (However, some hosts already delete the code that writes this bit, and the code may in fact be obsolete at this date.) ACPICA BZ 799.

Fixed
a problem where AcpiTerminate could fault if inadvertently called
twice
in succession. ACPICA BZ 795.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a
much larger code and data size.

Previous Release:
Non-Debug Version: 84.7K Code, 17.8K Data, 102.5K Total
Debug Version: 160.5K Code, 50.6K Data, 211.1K Total
Current Release:
Non-Debug Version: 85.5K Code, 18.0K Data, 103.5K Total
Debug Version: 161.6K Code, 50.9K Data, 212.5K Total

2) iASL Compiler/Disassembler and Tools:

ACPI 4.0: Implemented disassembler support for all new ACPI tables and changes to existing tables. ACPICA BZ 775.

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25 June 2009. Summary of changes for version 20090625:

The ACPI 4.0 Specification was released on June 16 and is available at www.acpi.info. ACPICA
implementation of ACPI 4.0 is underway and will
continue for the next few releases.

1) ACPI CA Core Subsystem:

ACPI 4.0: Implemented interpreter support for the IPMI operation region address space. Includes support for bi-directional data buffers and an IPMI
address space handler (to be installed by an IPMI device driver.) ACPICA BZ
773. Lin Ming.

ACPI 4.0: Added changes for existing ACPI tables - FACS and SRAT. Includes
support in both the header files and the disassembler.

Completed a major update for the AcpiGetObjectInfo external interface. Changes include:
- Support for variable, unlimited length HID, UID, and CID strings.

- Support Processor objects the same as Devices (HID,UID,CID,ADR,STA, etc.)
- Call the _SxW power methods on behalf of a device object.
- Determine if a device is a PCI root bridge.
- Change the ACPI_BUFFER parameter to ACPI_DEVICE_INFO.

These changes will require an update to all callers of this interface. See the updated ACPICA Programmer Reference for details. One new source file has been added - utilities/utids.c. ACPICA BZ 368, 780.

Updated the AcpiRead and AcpiWrite external interfaces to support 64-bit transfers. The Value parameter has been extended from 32 bits to 64 bits in order to support new ACPI 4.0 tables. These changes will require an update to all callers of these interfaces. See the ACPICA Programmer Reference for details. ACPICA BZ 768.

Fixed several problems with AcpiAttachData. The handler was not invoked when the host node was deleted. The data sub-object was not automatically deleted when the host node was deleted. The interface to the handler had an unused parameter, this was removed. ACPICA BZ 778.

Enhanced the function that dumps ACPI table headers. All non-printable characters in the string fields are now replaced with '?' (Signature, OemId, OemTableId, and CompilerId.) ACPI tables with non-printable characters in these fields are occasionally seen in the field. ACPICA BZ 788.

Fixed a problem with predefined method repair code where the code that attempts to repair/convert an object of incorrect type is only executed on the first time the predefined method is called. The mechanism that disables warnings on subsequent calls was interfering with the repair mechanism. ACPICA BZ 781.

Fixed a possible memory leak in the predefined validation/repair code when a buffer is automatically converted to an expected string object.

Removed obsolete 16-bit files from the distribution and from the current
git
tree head. ACPICA BZ 776.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has a
much larger code and data size.

Previous Release:
Non-Debug Version: 83.4K Code, 17.5K Data, 100.9K Total
Debug Version: 158.9K Code, 50.0K Data, 208.9K Total
Current Release:

Non-Debug Version: 84.7K Code, 17.8K Data, 102.5K Total
Debug Version: 160.5K Code, 50.6K Data, 211.1K Total

2) iASL Compiler/Disassembler and Tools:

ACPI 4.0: iASL and Disassembler - implemented support for the new IPMI
operation region keyword. ACPICA BZ 771, 772. Lin Ming.

ACPI 4.0: iASL - implemented compile-time validation support for all new
predefined names and control methods (31 total). ACPICA BZ 769.

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21 May 2009. Summary of changes for version 20090521:

1) ACPI CA Core Subsystem:

Disabled the preservation of the SCI enable bit in the PM1 control
register.
The SCI enable bit (bit 0, SCI_EN) is defined by the ACPI specification
to
be
a "preserved" bit - "OSPM always preserves this bit position", section
4.7.3.2.1. However, some machines fail if this bit is in fact preserved
because the bit needs to be explicitly set by the OS as a workaround. No
machines fail if the bit is not preserved. Therefore, ACPICA no longer

attempts to preserve this bit.

Fixed a problem in AcpiRsGetPciRoutingTableLength where an invalid or
incorrectly formed _PRT package could cause a fault. Added validation to
ensure that each package element is actually a sub-package.

Implemented a new interface to install or override a single control method,
AcpiInstallMethod. This interface is useful when debugging in order to repair
an existing method or to install a missing method without having to override
the entire ACPI table. See the ACPICA Programmer Reference for use and examples. Lin Ming, Bob Moore.

Fixed several reference count issues with the DdbHandle object that is created from a Load or LoadTable operator. Prevent premature deletion of the
object. Also, mark the object as invalid once the table has been unloaded.
This is needed because the handle itself may not be deleted after the table
unload, depending on whether it has been stored in a named object by the caller. Lin Ming.

Fixed a problem
with Mutex Sync Levels. Fixed a problem where if multiple
mutexes of the same sync level are acquired but then not released in strict
opposite order, the internally maintained Current Sync Level becomes confused
and can cause subsequent execution errors. ACPICA BZ 471.

Changed the allowable release order for ASL mutex objects. The ACPI 4.0 specification has been changed to make the SyncLevel for mutex objects more
useful. When releasing a mutex, the SyncLevel of the mutex must now be the
same as the current sync level. This makes more sense than the previous rule
(SyncLevel less than or equal). This change updates the code to match the specification.

Fixed a problem with the local version of the AcpiOsPurgeCache function. The
(local) cache must be locked during all cache object deletions. Andrew Baumann.

Updated the Load operator to use operation region interfaces. This replaces
direct memory mapping with region access calls. Now, all region accesses go
through the

installed region handler as they should.

Simplified and optimized the NsGetNextNode function. Reduced parameter count
and reduced code for this frequently used function.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a
much larger code and data size.

Previous Release:
Non-Debug Version: 82.8K Code, 17.5K Data, 100.3K Total
Debug Version: 158.0K Code, 49.9K Data, 207.9K Total
Current Release:
Non-Debug Version: 83.4K Code, 17.5K Data, 100.9K Total
Debug Version: 158.9K Code, 50.0K Data, 208.9K Total

2) iASL Compiler/Disassembler and Tools:

Disassembler: Fixed some issues with DMAR, HEST, MADT tables. Some problems
with sub-table disassembly and handling invalid sub-tables. Attempt recovery
after an invalid sub-table ID.

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22 April
2009. Summary of changes for version 20090422:

1) ACPI CA Core Subsystem:

Fixed a compatibility issue with the recently released I/O port protection
mechanism. For windows compatibility, 1) On a port protection violation, simply ignore the request and do not return an exception (allow the control
method to continue execution.) 2) If only part of the request overlaps a protected port, read/write the individual ports that are not protected.
Linux
BZ 13036. Lin Ming

Enhanced the execution of the ASL/AML BreakPoint operator so that it actually
breaks into the AML debugger if the debugger is present. This matches the ACPI-defined behavior.

Fixed several possible warnings related to the use of the configurable ACPI_THREAD_ID. This type can now be configured as either an integer or a pointer with no warnings. Also fixes several warnings in printf-like statements for the 64-bit build when the type is configured as a pointer. ACPICA BZ 766, 767.

Fixed a number of possible warnings when compiling with gcc 4+ (depending on warning options.) Examples include printf formats, aliasing, unused globals, missing prototypes, missing switch default statements, use of non-ANSI library functions, use of non-ANSI constructs. See generate/unix/Makefile for a list of warning options used with gcc 3 and 4. ACPICA BZ 735.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:
Non-Debug Version: 82.6K Code, 17.6K Data, 100.2K Total
Debug Version: 157.7K Code, 49.9K Data, 207.6K Total
Current Release:
Non-Debug Version: 82.8K Code, 17.5K Data, 100.3K Total
Debug Version: 158.0K Code, 49.9K Data, 207.9K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Fixed a generation warning from Bison 2.3 and fixed several warnings on the 64-bit build.

iASL: Fixed a problem where the Unix/Linux versions of the compiler could not correctly digest Windows/DOS formatted files (with CR/LF).

iASL: Added a new option for "quiet mode" (-va) that produces only the compilation summary, not individual errors and warnings. Useful for large batch compilations.

AcpiExec: Implemented a new option (-z) to enable a forced semaphore/mutex timeout that can be used to detect hang conditions during execution of

AML
code (includes both internal semaphores and AML-defined mutexes and
events.)

Added new makefiles for the generation of acpica in a generic unix-like
environment. These makefiles are intended to generate the acpica tools
and
utilities from the original acpica git source tree structure.

Test Suites: Updated and cleaned up the documentation files. Updated the
copyrights to 2009, affecting all source files. Use the new version of
iASL
with quiet mode. Increased the number of available semaphores
 in the
Windows
OSL, allowing the aslts to execute fully on Windows. For the Unix OSL,
added
an alternate implementation of the semaphore timeout to allow aslts to
execute fully on Cygwin.

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20 March 2009. Summary of changes for version 20090320:

1) ACPI CA Core Subsystem:

Fixed a possible race condition between AcpiWalkNamespace and dynamic
table
unloads. Added a reader/writer locking mechanism to allow multiple
concurrent
namespace walks (readers), but block a dynamic table unload until it can
gain
exclusive write access to the namespace. This fixes a problem where a
table
unload could (possibly catastrophically) delete the portion of the
namespace
that is currently being examined by a walk. Adds a new file, utlock.c,
that
implements the reader/writer lock mechanism. ACPICA BZ 749.

Fixed a regression introduced in version 20090220 where a change to the
FADT
handling could cause the ACPICA subsystem to access non-existent I/O

ports.

Modified the handling of FADT register and table (FACS/DSDT) addresses.
The
FADT can contain both 32-bit and 64-bit versions of these addresses.

Previously, the 64-bit versions were favored, meaning that if both 32 and 64
versions were valid, but not equal, the 64-bit version was used. This was found to cause some machines to fail. Now, in this case, the 32-bit version
is used instead. This now matches the Windows behavior.

Implemented a new mechanism to protect certain I/O ports. Provides Microsoft
compatibility and protects the standard PC I/O ports from access via AML code. Adds a new file, hwvalid.c

Fixed a possible extraneous warning message from the FADT support. The message warns of a 32/64 length mismatch between the legacy and GAS definitions for a register.

Removed the obsolete AcpiOsValidateAddress OSL interface. This interface is
made obsolete by the port protection mechanism above. It was previously used
to validate the entire address range of
an operation region, which could
be
incorrect if the range included illegal ports, but fields within the operation region did not actually access those ports. Validation is now performed on a per-field basis instead of the entire region.

Modified the handling of the PM1 Status Register ignored bit (bit 11.) Ignored bits must be "preserved" according to the ACPI spec. Usually, this
means a read/modify/write when writing to the register. However, for status
registers, writing a one means clear the event. Writing a zero means preserve
the event (do not clear.) This behavior is clarified in the ACPI 4.0 spec,
and the ACPICA code now simply always writes a zero to the ignored bit.

Modified the handling of ignored bits for the PM1 A/B Control Registers. As
per the ACPI specification, for the control registers, preserve (read/modify/write) all bits that are defined as either reserved or ignored.

Updated the handling of write-only bits in the PM1 A/B Control Registers. When
reading the register, zero the write-only bits as per the ACPI spec. ACPICA BZ 443. Lin Ming.

Removed "Linux" from the list of supported _OSI strings. Linux no longer
wants to reply true to this request. The Windows strings are the only
paths
through the AML that are tested and known to work properly.

Previous Release:
Non-Debug Version: 82.0K Code, 17.5K Data, 99.5K Total
Debug Version: 156.9K Code, 49.8K Data, 206.7K Total
Current Release:
Non-Debug Version: 82.6K Code, 17.6K Data, 100.2K Total
Debug Version: 157.7K Code, 49.9K Data, 207.6K Total

2) iASL Compiler/Disassembler and Tools:

Acpiexec: Split the large aeexec.c file into two new files, aehandlers.c
and
aetables.c

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20 February 2009. Summary of changes for version 20090220:

1) ACPI CA Core Subsystem:

Optimized the ACPI register locking. Removed locking for reads from the
ACPI
bit registers in PM1 Status, Enable, Control, and PM2 Control.
The lock
is
not required when reading the single-bit registers. The
AcpiGetRegisterUnlocked function is no longer needed and has been
removed.
This will improve performance for reads on these registers. ACPICA BZ
760.

Fixed the parameter validation for AcpiRead/Write. Now return
AE_BAD_PARAMETER if the input register pointer is null, and
AE_BAD_ADDRESS
if
the register has an address of zero. Previously, these cases simply
returned
AE_OK. For optional registers such as PM1B status/enable/control, the
caller
should check for a valid register address before calling. ACPICA BZ 748.

Renamed the external ACPI bit register access functions. Renamed
AcpiGetRegister and AcpiSetRegister to clarify the purpose of these
functions. The new names are AcpiReadBitRegister and

AcpiWriteBitRegister.
Also, restructured the code for these functions by simplifying the code path
and condensing duplicate code to reduce code size.

Added new functions to transparently handle the possibly split PM1 A/B
registers. AcpiHwReadMultiple and AcpiHwWriteMultiple. These two functions
now handle the split registers for PM1 Status, Enable, and Control.
ACPICA
BZ
746.

Added a function to handle the PM1 control registers, AcpiHwWritePm1Control.
This function writes both of the PM1 control registers (A/B). These registers
are different than the PM1 A/B status and enable registers in that different
values can be written to the A/B registers. Most notably, the SLP_TYP bits
can be different, as per the values returned from the _Sx predefined methods.

Removed an extra register write within AcpiHwClearAcpiStatus. This function
was writing an optional PM1B status register twice. The existing call to the
low-level AcpiHwRegisterWrite automatically handles a possibly split PM1 A/B
register. ACPICA BZ 751.

Split out the PM1 Status registers from the FADT. Added new globals for these
registers (A/B), similar to the way the PM1 Enable registers are handled. Instead
of overloading the FADT Event Register blocks. This makes the code
clearer and less prone to error.

Fixed the warning message for when the platform contains too many ACPI tables
for the default size of the global root table data structure. The calculation
for the truncation value was incorrect.

Removed the ACPI_GET_OBJECT_TYPE macro. Removed all instances of this

obsolete macro, since it is now a simple reference to ->common.type.
There
were about 150 invocations of the macro across 41 files. ACPICA BZ 755.

Removed the redundant ACPI_BITREG_SLEEP_TYPE_B. This type is the same as
TYPE_A. Removed this and all related instances. Renamed SLEEP_TYPE_A to
simply SLEEP_TYPE. ACPICA BZ 754.

Conditionally compile the AcpiSetFirmwareWakingVector64 function. This
function is only needed on 64-bit host operating systems and is thus not
included for 32-bit hosts.

Debug output: print the input and result for invocations of the _OSI
reserved
control method via the ACPI_LV_INFO debug
level. Also, reduced some of
the
verbosity of this debug level. Len Brown.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has a
much larger code and data size.

Previous Release:
Non-Debug Version: 82.3K Code, 17.5K Data, 99.8K Total
Debug Version: 157.3K Code, 49.8K Data, 207.1K Total
Current Release:
Non-Debug Version: 82.0K Code, 17.5K Data, 99.5K Total
Debug Version: 156.9K Code, 49.8K Data, 206.7K Total

2) iASL Compiler/Disassembler and Tools:

Disassembler: Decode the FADT PM_Profile field. Emit ascii names for the
various legal performance profiles.

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23 January 2009. Summary of changes for version 20090123:

1) ACPI CA Core Subsystem:

Added the 2009 copyright to all module headers and signons. This affects
virtually every file
in the ACPICA core subsystem, the iASL compiler, and
the tools/utilities.

Implemented a change to allow the host to override any ACPI table,

including
dynamically loaded tables. Previously, only the DSDT could be replaced by the
host. With this change, the AcpiOsTableOverride interface is called for each
table found in the RSDT/XSDT during ACPICA initialization, and also whenever
a table is dynamically loaded via the AML Load operator.

Updated FADT flag definitions, especially the Boot Architecture flags.

Debugger: For the Find command, automatically pad the input ACPI name with
underscores if the name is shorter than 4 characters. This enables a match
with the actual namespace entry which is itself padded with underscores.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and has a
much larger code and data
size.

Previous Release:
Non-Debug Version: 82.3K Code, 17.4K Data, 99.7K Total
Debug Version: 157.1K Code, 49.7K Data, 206.8K Total
Current Release:
Non-Debug Version: 82.3K Code, 17.5K Data, 99.8K Total
Debug Version: 157.3K Code, 49.8K Data, 207.1K Total

2) iASL Compiler/Disassembler and Tools:

Fix build error under Bison-2.4.

Disassembler: Enhanced FADT support. Added decoding of the Boot Architecture
flags. Now decode all flags, regardless of the FADT version. Flag output
includes the FADT version which first defined each flag.

The iASL -g option now dumps the RSDT to a file (in addition to the FADT and
DSDT). Windows only.

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04 December 2008. Summary of changes for version 20081204:

1) ACPI CA Core Subsystem:

The ACPICA Programmer Reference has been completely updated and revamped for
this release. This includes updates to the external interfaces, OSL
interfaces, the overview sections, and the
debugger reference.

Several new ACPICA interfaces have been implemented and documented in the programmer reference:
AcpiReset - Writes the reset value to the FADT-defined reset register.
AcpiDisableAllGpes - Disable all available GPEs.
AcpiEnableAllRuntimeGpes - Enable all available runtime GPEs.
AcpiGetGpeDevice - Get the GPE block device associated with a GPE.
AcpiGbl_CurrentGpeCount - Tracks the current number of available GPEs.
AcpiRead - Low-level read ACPI register (was HwLowLevelRead.)
AcpiWrite - Low-level write ACPI register (was HwLowLevelWrite.)

Most of the public ACPI hardware-related interfaces have been moved to a new
file, components/hardware/hwxface.c

Enhanced the FADT parsing and low-level ACPI register access: The ACPI register lengths within the FADT are now used, and the low level ACPI register access no longer hardcodes the ACPI register lengths. Given that there may be some risk in actually trusting the FADT register lengths, a run-
time option was added
to fall back to the default hardcoded lengths if the
FADT proves to contain incorrect values - UseDefaultRegisterWidths. This option is set to true for now, and a warning is issued if a suspicious FADT
register length is overridden with the default value.

Fixed a reference count issue in NsRepairObject. This problem was introduced
in version 20081031 as part of a fix to repair Buffer objects within Packages. Lin Ming.

Added semaphore support to the Linux/Unix application OS-services layer (OSL). ACPICA BZ 448. Lin Ming.

Added the ACPI_MUTEX_TYPE configuration option to select whether mutexes will
be implemented in the OSL, or will binary semaphores be used instead.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The

debug version of the code includes the debug output trace mechanism and has a
much larger code and data size.

Previous Release:
Non-Debug Version: 81.7K Code, 17.3K Data, 99.0K Total
Debug Version: 156.4K Code, 49.4K Data, 205.8K Total
Current Release:
Non-Debug Version: 82.3K Code, 17.4K Data, 99.7K Total
Debug Version: 157.1K Code, 49.7K Data, 206.8K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Completed the '-e' option to include additional ACPI tables in order
to
aid with disassembly and External statement generation. ACPICA BZ 742. Lin
Ming.

iASL: Removed the "named object in while loop" error. The compiler cannot
determine how many times a loop will execute. ACPICA BZ 730.

Disassembler: Implemented support for FADT revision 2 (MS extension). ACPICA
BZ 743.

Disassembler: Updates for several ACPI data tables (HEST, EINJ, and MCFG).

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31 October 2008. Summary of changes for version 20081031:

1) ACPI CA Core Subsystem:

Restructured the ACPICA header files into public/private. acpi.h now includes
only the "public" acpica headers. All other acpica headers are "private"
and
should not be included by acpica users. One new file, accommon.h is used to
include the commonly used private headers for acpica code generation. Future
plans include moving all private headers to a new subdirectory.

Implemented an automatic Buffer->String return value conversion for

predefined ACPI methods. For these methods (such as _BIF), added automatic
conversion for return objects that are required to be a String, but a Buffer
was found instead. This can happen when reading string battery data from an
operation region, because it used to be difficult to convert the data from
buffer to string from within the ASL. Ensures that the host OS is provided
with a valid null-terminated string. Linux BZ 11822.

Updated the FACS waking vector interfaces. Split AcpiSetFirmwareWakingVector
into two: one for the 32-bit vector, another for the 64-bit vector. This is
required because the host OS must setup the wake much differently for each
vector
(real vs. protected mode, etc.) and the interface itself should not
be
deciding which vector to use. Also, eliminated the GetFirmwareWakingVector
interface, as it served no purpose (only the firmware reads the vector, OS
only writes the vector.) ACPICA BZ 731.

Implemented a mechanism to escape infinite AML While() loops. Added a loop
counter to force exit from AML While loops if the count becomes too large.
This can occur in poorly written AML when the hardware does not respond
within a while loop and the loop does not implement a timeout. The maximum
loop count is configurable. A new exception code is returned when a loop is
broken, AE_AML_INFINITE_LOOP. Alexey Starikovskiy, Bob Moore.

Optimized the execution of AML While loops. Previously, a control state
object was allocated and freed for each execution of the loop. The
optimization is to simply reuse the control state for each iteration. This
speeds up the raw loop execution time by about 5%.

Enhanced the
implicit return mechanism. For Windows compatibility, return an

implicit integer of value zero for methods that contain no executable code.
Such methods are seen in the field as stubs (presumably), and can cause drivers to fail if they expect a return value. Lin Ming.

Allow multiple backslashes as root prefixes in namepaths. In a fully qualified namepath, allow multiple backslash prefixes. This can happen (and
is seen in the field) because of the use of a double-backslash in strings (since backslash is the escape character) causing confusion. ACPICA BZ 739
Lin Ming.

Emit a warning if two different FACS or DSDT tables are discovered in the FADT. Checks if there are two valid but different addresses for the FACS and
DSDT within the FADT (mismatch between the 32-bit and 64-bit fields.)

Consolidated the method argument count validation code. Merged the code that
validates control method argument counts into the predefined validation module. Eliminates possible multiple
warnings for incorrect argument
counts.

Implemented ACPICA example code. Includes code for ACPICA initialization, handler installation, and calling a control method. Available at source/tools/examples.

Added a global pointer for FACS table to simplify internal FACS access. Use
the global pointer instead of using AcpiGetTableByIndex for each FACS access.
This simplifies the code for the Global Lock and the Firmware Waking Vector(s).

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a
much larger code and data size.

Previous Release:
Non-Debug Version: 81.2K Code, 17.0K Data, 98.2K Total
Debug Version: 155.8K Code, 49.1K Data, 204.9K Total
Current Release:
Non-Debug Version: 81.7K Code, 17.3K Data, 99.0K Total
Debug Version: 156.4K Code, 49.4K Data, 205.8K Total

2) iASL Compiler/Disassembler
and Tools:

iASL: Improved disassembly of external method calls. Added the -e option
to
allow the inclusion of additional ACPI tables to help with the
disassembly
of
method invocations and the generation of external declarations during the
disassembly. Certain external method invocations cannot be disassembled
properly without the actual declaration of the method. Use the -e option
to
include the table where the external method(s) are actually declared.
Most
useful for disassembling SSDTs that make method calls back to the master
DSDT. Lin Ming. Example: To disassemble an SSDT with calls to DSDT: iasl
-d
-e dsdt.aml ssdt1.aml

iASL: Fix to allow references to aliases within ASL namepaths. Fixes a
problem where the use of an alias within a namepath would result in a not
found error or cause the compiler to fault. Also now allows forward
references from the Alias operator itself. ACPICA BZ 738.

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26 September
2008. Summary of changes for version 20080926:

1) ACPI CA Core Subsystem:

Designed and implemented a mechanism to validate predefined ACPI methods
and
objects. This code validates the predefined ACPI objects (objects whose
names
start with underscore) that appear in the namespace, at the time they are
evaluated. The argument count and the type of the returned object are
validated against the ACPI specification. The purpose of this validation
is
to detect problems with the BIOS-implemented predefined ACPI objects
before
the results are returned to the ACPI-related drivers. Future enhancements
may
include actual repair of incorrect return objects where possible. Two new
files are nspredef.c and acpredef.h.

Fixed a fault in the AML parser if a memory allocation fails during the
Op

completion routine AcpiPsCompleteThisOp. Lin Ming. ACPICA BZ 492.

Fixed an issue with implicit return compatibility. This change improves the implicit return mechanism to be more compatible with the MS interpreter. Lin Ming, ACPICA BZ 349.

Implemented support for zero-length buffer-to-string conversions. Allow zero length strings during interpreter buffer-to-string conversions. For example, during the ToDecimalString and ToHexString operators, as well as implicit conversions. Fiodor Suietov, ACPICA BZ 585.

Fixed two possible memory leaks in the error exit paths of AcpiUtUpdateObjectReference and AcpiUtWalkPackageTree. These functions are similar in that they use a stack of state objects in order to eliminate recursion. The stack must be fully unwound and deallocated if an error occurs. Lin Ming. ACPICA BZ 383.

Removed the unused ACPI_BITREG_WAKE_ENABLE definition and entry in the global ACPI register table. This bit does not exist and is unused. Lin Ming, Bob Moore ACPICA BZ 442.

Removed the obsolete version number in module headers. Removed the "$Revision" number that appeared in each module header. This version number was useful under SourceSafe and CVS, but has no meaning under git. It is not only incorrect, it could also be misleading.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:
Non-Debug Version: 79.7K Code, 16.4K Data, 96.1K Total
Debug Version: 153.7K Code, 48.2K Data, 201.9K Total
Current Release:
Non-Debug Version: 81.2K Code, 17.0K Data, 98.2K Total
Debug Version: 155.8K Code, 49.1K Data, 204.9K Total

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29 August 2008. Summary of changes for version 20080829:

1) ACPI CA Core Subsystem:

Completed a major cleanup of the internal ACPI_OPERAND_OBJECT of type
Reference. Changes include the elimination of cheating on the Object
field
for the DdbHandle subtype, addition of a reference class field to
differentiate the various
reference types (instead of an AML opcode), and
the
cleanup of debug output for this object. Lin Ming, Bob Moore. BZ 723

Reduce an error to a warning for an incorrect method argument count.
Previously aborted with an error if too few arguments were passed to a
control method via the external ACPICA interface. Now issue a warning
instead
and continue. Handles the case where the method inadvertently declares
too
many arguments, but does not actually use the extra ones. Applies mainly
to
the predefined methods. Lin Ming. Linux BZ 11032.

Disallow the evaluation of named object types with no intrinsic value.
Return
AE_TYPE for objects that have no value and therefore evaluation is
undefined:
Device, Event, Mutex, Region, Thermal, and Scope. Previously, evaluation
of
these types were allowed, but an exception would be generated at some
point
during the evaluation. Now, the error is generated up front.

Fixed a possible memory leak in the AcpiNsGetExternalPathname function

(nsnames.c). Fixes a leak in the error exit path.

Removed the obsolete debug levels ACPI_DB_WARN and ACPI_DB_ERROR. These
debug
levels were made obsolete by the ACPI_WARNING, ACPI_ERROR, and
ACPI_EXCEPTION
interfaces. Also added ACPI_DB_EVENTS to correspond with the existing
ACPI_LV_EVENTS.

Removed obsolete and/or unused exception codes from the acexcep.h header.
There is the possibility that certain device drivers may be affected if

they
use any of these exceptions.

The ACPICA documentation has been added to the public git source tree, under
acpica/documents. Included are the ACPICA programmer reference, the iASL compiler reference, and the changes.txt release logfile.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a
much larger code and data size.

Previous Release:
Non-Debug Version:
79.7K Code, 16.4K Data, 96.1K Total
Debug Version: 153.9K Code, 48.4K Data, 202.3K Total
Current Release:
Non-Debug Version: 79.7K Code, 16.4K Data, 96.1K Total
Debug Version: 153.7K Code, 48.2K Data, 201.9K Total

2) iASL Compiler/Disassembler and Tools:

Allow multiple argument counts for the predefined _SCP method. ACPI 3.0 defines _SCP with 3 arguments. Previous versions defined it with only 1 argument. iASL now allows both definitions.

iASL/disassembler: avoid infinite loop on bad ACPI tables. Check for zero-
length subtables when disassembling ACPI tables. Also fixed a couple of errors where a full 16-bit table type field was not extracted from the input
properly.

acpisrc: Improve comment counting mechanism for generating source code statistics. Count first and last lines of multi-line comments as whitespace,
not comment lines. Handle Linux legal header in addition to standard acpica
header.

29
July 2008. Summary of changes for version 20080729:

1) ACPI CA Core Subsystem:

Fix a possible deadlock in the GPE dispatch. Remove call to
AcpiHwDisableAllGpes during wake in AcpiEvGpeDispatch. This call will
attempt
to acquire the GPE lock but can deadlock since the GPE lock is already
held
at dispatch time. This code was introduced in version 20060831 as a
response
to Linux BZ 6881 and has since been removed from Linux.

Add a function to dereference returned reference objects. Examines the
return
object from a call to AcpiEvaluateObject. Any Index or RefOf references
are
automatically dereferenced in an attempt to return something useful
(these
reference types cannot be converted into an external ACPI_OBJECT.)
Provides
MS compatibility. Lin Ming, Bob Moore. Linux BZ 11105

x2APIC support: changes for MADT and SRAT ACPI tables. There are 2 new
subtables for the MADT and one new subtable for the SRAT. Includes
disassembler and AcpiSrc support. Data from the Intel 64
Architecture
x2APIC
Specification, June 2008.

Additional error checking for pathname utilities. Add error check after
all
calls to AcpiNsGetPathnameLength. Add status return from
AcpiNsBuildExternalPath and check after all calls. Add parameter
validation
to AcpiUtInitializeBuffer. Reported by and initial patch by Ingo Molnar.

Return status from the global init function AcpiUtGlobalInitialize. This
is
used by both the kernel subsystem and the utilities such as iASL
compiler.
The function could possibly fail when the caches are initialized. Yang
Yi.

Add a function to decode reference object types to strings. Created for
improved error messages.

Improve object conversion error messages. Better error messages during
object
conversion from internal to the external ACPI_OBJECT. Used for external
calls

to AcpiEvaluateObject.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug
version of the code includes the debug output trace mechanism and has a
much larger code and data size.

Previous Release:
Non-Debug Version: 79.6K Code, 16.2K Data, 95.8K Total
Debug Version: 153.5K Code, 48.2K Data, 201.7K Total
Current Release:
Non-Debug Version: 79.7K Code, 16.4K Data, 96.1K Total
Debug Version: 153.9K Code, 48.4K Data, 202.3K Total

2) iASL Compiler/Disassembler and Tools:

Debugger: fix a possible hang when evaluating non-methods. Fixes a problem
introduced in version 20080701. If the object being evaluated (via execute
command) is not a method, the debugger can hang while trying to obtain non-
existent parameters.

iASL: relax error for using reserved "_T_x" identifiers. These names can appear in a disassembled ASL file if they were emitted by the original compiler. Instead of issuing an error or warning and forcing the user to manually change these names, issue a remark instead.

iASL: error if named object created
in while loop. Emit an error if any
named
object is created within a While loop. If allowed, this code will generate
a
run-time error on the second iteration of the loop when an attempt is made
to
create the same named object twice. ACPICA bugzilla 730.

iASL: Support absolute pathnames for include files. Add support for absolute
pathnames within the Include operator. previously, only relative pathnames
were supported.

iASL: Enforce minimum 1 interrupt in interrupt macro and Resource Descriptor.
The ACPI spec requires one interrupt minimum. BZ 423

iASL: Handle a missing ResourceSource arg, with a present SourceIndex.
Handles the case for the Interrupt Resource Descriptor where
the ResourceSource argument is omitted but ResourceSourceIndex
is present. Now leave room for the Index. BZ 426

iASL: Prevent error message if CondRefOf target does not exist. Fixes cases
where an error message is emitted if the target does not exist. BZ 516

iASL: Fix broken -g option (get
Windows ACPI tables). Fixes the -g option
(get ACPI tables on Windows). This was apparently broken in version 20070919.

AcpiXtract: Handle EOF while extracting data. Correctly handle the case where
the EOF happens immediately after the last table in the input file. Print completion message. Previously, no message was displayed in this case.

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01 July 2008. Summary of changes for version 20080701:

0) Git source tree / acpica.org

Fixed a problem where a git-clone from http would not transfer the entire source tree.

1) ACPI CA Core Subsystem:

Implemented a "careful" GPE disable in AcpiEvDisableGpe, only modify one enable bit. Now performs a read-change-write of the enable register instead
of simply writing out the cached enable mask. This will prevent inadvertent
enabling of GPEs if a rogue GPE is received during initialization (before GPE
handlers are installed.)

Implemented a copy for dynamically loaded tables. Previously, dynamically

loaded tables were simply mapped - but on some machines this memory is corrupted after suspend. Now copy the table to a local buffer. For the OpRegion case, added checksum verify. Use the table length from the table header, not the region length. For the Buffer case, use the table length

also. Dennis Noordsij, Bob Moore. BZ 10734

Fixed a problem where the same ACPI table could not be dynamically loaded and
unloaded more than once. Without this change, a table cannot be loaded again
once it has been loaded/unloaded one time. The current mechanism does not
unregister a table upon an unload. During a load, if the same table is found,
this no longer returns an exception. BZ 722

Fixed a problem where the wrong descriptor length was calculated for the
EndTag descriptor in 64-bit mode. The "minimal" descriptors such as EndTag
are calculated as 12 bytes long, but the actual length in the internal
descriptor is 16 because of the round-up to 8 on the 64-bit build. Reported

by Linn Crosetto. BZ 728

Fixed a possible memory leak in the Unload operator. The DdbHandle returned
by Load() did not have its reference count decremented during unload, leading
to a memory leak. Lin Ming. BZ 727

Fixed a possible memory leak when deleting thermal/processor objects. Any
associated notify handlers (and objects) were not being deleted. Fiodor
Suietov. BZ 506

Fixed the ordering of the ASCII names in the global mutex table to match the
actual mutex IDs. Used by AcpiUtGetMutexName, a function used for debug only.
Vegard Nossum. BZ 726

Enhanced the AcpiGetObjectInfo interface to return the number of required
arguments if the object is a control method. Added this call to the debugger
so the proper number of default arguments are passed to a method. This
prevents a warning when executing methods from AcpiExec.

Added a check for an invalid handle in AcpiGetObjectInfo. Return
AE_BAD_PARAMETER if input handle is invalid. BZ 474

Fixed an extraneous warning
from exconfig.c on the 64-bit build.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has a
much larger code and data size.

Previous Release:
Non-Debug Version: 79.3K Code, 16.2K Data, 95.5K Total
Debug Version: 153.0K Code, 48.2K Data, 201.2K Total
Current Release:
Non-Debug Version: 79.6K Code, 16.2K Data, 95.8K Total
Debug Version: 153.5K Code, 48.2K Data, 201.7K Total

2) iASL Compiler/Disassembler and Tools:

iASL: Added two missing ACPI reserved names. Added _MTP and _ASZ, both
resource descriptor names.

iASL: Detect invalid ASCII characters in input (windows version). Removed
the
"-CF" flag from the flex compile, enables correct detection of non-ASCII
characters in the input. BZ 441

iASL: Eliminate warning when result of LoadTable is not used. Eliminate
the
"result of
operation not used" warning when the DDB handle returned from
LoadTable is not used. The warning is not needed. BZ 590

AcpiExec: Add support for dynamic table load/unload. Now calls _CFG
method
to
pass address of table to the AML. Added option to disable OpRegion
simulation
to allow creation of an OpRegion with a real address that was passed to
_CFG.
All of this allows testing of the Load and Unload operators from
AcpiExec.

Debugger: update tables command for unloaded tables. Handle unloaded
tables
and use the standard table header output routine.

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09 June 2008. Summary of changes for version 20080609:

1) ACPI CA Core Subsystem:

Implemented a workaround for reversed _PRT entries. A significant number of
BIOSs erroneously reverse the _PRT SourceName and the SourceIndex. This
change dynamically detects and repairs this problem. Provides compatibility
with MS ACPI. BZ 6859

Simplified the internal ACPI hardware interfaces to eliminate the locking
flag parameter from Register Read/Write. Added a new external interface,
AcpiGetRegisterUnlocked.

Fixed a problem where the invocation of a GPE control method could hang. This
was a regression introduced in 20080514. The new method argument count
validation mechanism can enter an infinite loop when a GPE method is
dispatched. Problem fixed by removing the obsolete code that passed GPE block
information to the notify handler via the control method parameter pointer.

Fixed a problem where the _SST execution status was incorrectly returned to
the caller of AcpiEnterSleepStatePrep. This was a regression introduced in
20080514. _SST is optional and a NOT_FOUND exception should never be
returned. BZ 716

Fixed a problem where a deleted object could be accessed from within the AML
parser. This was a regression introduced in version 20080123 as a fix for the
Unload operator. Lin Ming. BZ 10669

Cleaned up the debug operand dump mechanism. Eliminated unnecessary

operands
and eliminated the use of a negative index in a loop. Operands are now
displayed in the correct order, not backwards. This also fixes a regression
introduced in 20080514 on 64-bit systems where the elimination of
ACPI_NATIVE_UINT caused the negative index to go large and positive. BZ
715

Fixed a possible memory leak in EvPciConfigRegionSetup where the error exit
path did not delete a locally allocated structure.

Updated definitions for the DMAR and SRAT tables to synchronize with the current specifications. Includes disassembler support.

Fixed a problem in the mutex debug code (in utmutex.c) where an incorrect loop termination value was used. Loop terminated on iteration early, missing
one mutex. Linn Crosetto

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a
much larger code and
data size.

Previous Release:
Non-Debug Version: 79.5K Code, 16.2K Data, 95.7K Total
Debug Version: 153.3K Code, 48.3K Data, 201.6K Total
Current Release:
Non-Debug Version: 79.3K Code, 16.2K Data, 95.5K Total
Debug Version: 153.0K Code, 48.2K Data, 201.2K Total

2) iASL Compiler/Disassembler and Tools:

Disassembler: Implemented support for EisaId() within _CID objects. Now disassemble integer _CID objects back to EisaId invocations, including multiple integers within _CID packages. Includes single-step support for debugger also.

Disassembler: Added support for DMAR and SRAT table definition changes.

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14 May 2008. Summary of changes for version 20080514:

1) ACPI CA Core Subsystem:

Fixed a problem where GPEs were enabled too early during the ACPICA initialization. This could lead to "handler not installed" errors on some machines. Moved GPE enable until after _REG/_STA/_INI methods are run. This
ensures
that all operation regions and devices throughout the namespace
have
been initialized before GPEs are enabled. Alexey Starikovskiy, BZ 9916.

Implemented a change to the enter sleep code. Moved execution of the _GTS method to just before setting sleep enable bit. The execution was moved from

AcpiEnterSleepStatePrep to AcpiEnterSleepState. _GTS is now executed
immediately before the SLP_EN bit is set, as per the ACPI specification.
Luming Yu, BZ 1653.

Implemented a fix to disable unknown GPEs (2nd version). Now always
disable
the GPE, even if ACPICA thinks that that it is already disabled. It is
possible that the AML or some other code has enabled the GPE unbeknownst
to
the ACPICA code.

Fixed a problem with the Field operator where zero-length fields would
return
an AE_AML_NO_OPERAND exception during table load. Fix enables zero-length
ASL
field declarations in Field(), BankField(), and IndexField(). BZ 10606.

Implemented a fix for the Load operator, now load the table
at the
namespace
root. This reverts a change introduced in version 20071019. The table is
now
loaded at the namespace root even though this goes against the ACPI
specification. This provides compatibility with other ACPI
implementations.
The ACPI specification will be updated to reflect this in ACPI 4.0. Lin
Ming.

Fixed a problem where ACPICA would not Load() tables with unusual
signatures.
Now ignore ACPI table signature for Load() operator. Only "SSDT" is
acceptable to the ACPI spec, but tables are seen with OEMx and null sigs.
Therefore, signature validation is worthless. Apparently MS ACPI accepts
such
signatures, ACPICA must be compatible. BZ 10454.

Fixed a possible negative array index in AcpiUtValidateException. Added
NULL
fields to the exception string arrays to eliminate a -1 subtraction on
the
SubStatus field.

Updated the debug tracking macros to reduce overall code and data size.
Changed ACPI_MODULE_NAME and ACPI_FUNCTION_NAME to use arrays of strings

instead of pointers to static strings. Jan Beulich and Bob Moore.

Implemented argument count checking in control method invocation via

AcpiEvaluateObject. Now emit an error if too few arguments, warning if too
many. This applies only to extern programmatic control method execution, not
method-to-method calls within the AML. Lin Ming.

Eliminated the ACPI_NATIVE_UINT type across all ACPICA code. This type is no
longer needed, especially with the removal of 16-bit support. It was replaced
mostly with UINT32, but also ACPI_SIZE where a type that changes 32/64 bit on
32/64-bit platforms is required.

Added the C const qualifier for appropriate string constants -- mostly
MODULE_NAME and printf format strings. Jan Beulich.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and has a
much larger code and data size.

  Previous Release:
    Non-Debug Version: 80.0K Code, 17.4K Data, 97.4K Total
    Debug Version: 159.4K Code, 64.4K Data, 223.8K Total
  Current Release:
    Non-Debug Version: 79.5K Code, 16.2K Data, 95.7K Total
    Debug Version: 153.3K Code, 48.3K Data, 201.6K Total

2) iASL Compiler/Disassembler and Tools:

Implemented ACPI table revision ID validation in the disassembler. Zero is
always invalid. For DSDTs, the ID controls the interpreter integer width. 1
means 32-bit and this is unusual. 2 or greater is 64-bit.

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21 March 2008. Summary of changes for version 20080321:

1) ACPI CA Core Subsystem:

Implemented an additional change to the GPE support in order to suppress
spurious or stray GPEs. The AcpiEvDisableGpe function will now permanently
disable incoming GPEs that are neither enabled nor disabled -- meaning

that
the GPE is unknown to the system. This should prevent future interrupt
floods
from that GPE. BZ 6217
(Zhang Rui)

Fixed a problem where NULL package elements were not returned to the
AcpiEvaluateObject interface correctly. The element was simply ignored
instead of returning a NULL ACPI_OBJECT package element, potentially
causing
a buffer overflow and/or confusing the caller who expected a fixed number
of
elements. BZ 10132 (Lin Ming, Bob Moore)

Fixed a problem with the CreateField, CreateXXXField (Bit, Byte, Word,
Dword,
Qword), Field, BankField, and IndexField operators when invoked from
inside
an executing control method. In this case, these operators created
namespace
nodes that were incorrectly left marked as permanent nodes instead of
temporary nodes. This could cause a problem if there is race condition
between an exiting control method and a running namespace walk. (Reported
by
Linn Crosetto)

Fixed a problem where the CreateField and CreateXXXField operators would
incorrectly allow duplicate names (the name of the field) with no
exception
generated.

Implemented
several changes for Notify handling. Added support for new
Notify
values (ACPI 2.0+) and improved the Notify debug output. Notify on
PowerResource objects is no longer allowed, as per the ACPI
specification.
(Bob Moore, Zhang Rui)

All Reference Objects returned via the AcpiEvaluateObject interface are
now
marked as type "REFERENCE" instead of "ANY". The type ANY is now reserved
for
NULL objects - either NULL package elements or unresolved named
references.

Fixed a problem where an extraneous debug message was produced for
package

objects (when debugging enabled). The message "Package List length larger than NumElements count" is now produced in the correct case, and is now an error message rather than a debug message. Added a debug message for the opposite case, where NumElements is larger than the Package List (the package will be padded out with NULL elements as per the ACPI spec.)

Implemented several improvements for the output of the ASL "Debug" object to clarify and keep all data for a given object on one output line.

Fixed two size calculation issues with the variable-length Start Dependent resource descriptor.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:
Non-Debug Version: 79.7K Code, 17.3K Data, 97.0K Total
Debug Version: 158.9K Code, 64.0K Data, 222.9K Total
Current Release:
Non-Debug Version: 80.0K Code, 17.4K Data, 97.4K Total
Debug Version: 159.4K Code, 64.4K Data, 223.8K Total

2) iASL Compiler/Disassembler and Tools:

Fixed a problem with the use of the Switch operator where execution of the containing method by multiple concurrent threads could cause an AE_ALREADY_EXISTS exception. This is caused by the fact that there is no actual Switch opcode, it must be simulated with local named temporary variables and if/else pairs. The solution chosen was to mark any method that uses Switch as Serialized, thus preventing multiple thread entries. BZ 469.

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13 February 2008. Summary of changes for version 20080213:

1) ACPI CA Core Subsystem:

Implemented another MS compatibility design change for GPE/Notify handling.
GPEs are now cleared/enabled asynchronously to allow all pending notifies to
complete first. It is expected that the OSL will queue the enable request
behind all pending notify requests (may require changes to the local host OSL
in AcpiOsExecute). Alexey Starikovskiy.

Fixed a problem where buffer and package objects passed as arguments to a
control method via the external AcpiEvaluateObject interface could cause an
AE_AML_INTERNAL exception depending on the order and type of operators
executed by the target control method.

Fixed a problem where resource descriptor size optimization could cause a
problem when a _CRS resource template is passed to a _SRS method. The _SRS
resource template must use the same descriptors (with the same size) as
returned from _CRS. This change affects the following resource descriptors:
IRQ / IRQNoFlags and StartDependendentFn / StartDependentFnNoPri. (BZ 9487)

Fixed a problem where a CopyObject to RegionField, BankField, and IndexField
objects did not perform an implicit conversion as it should. These types must
retain their initial type permanently as per the ACPI specification. However,
a CopyObject to all other object types should not perform an implicit
conversion, as per the ACPI specification. (Lin Ming, Bob Moore) BZ 388

Fixed a problem with the AcpiGetDevices interface where the mechanism to
match device CIDs did not examine the entire list of available CIDs, but
instead aborted on the first non-matching CID. Andrew Patterson.

Fixed a regression introduced in version 20071114. The ACPI_HIDWORD macro was

inadvertently changed to return a 16-bit value instead of a 32-bit value,
truncating the upper dword of a 64-bit value. This macro is only used to
display debug output, so no incorrect calculations were made. Also,
reimplemented the macro so that a 64-bit shift is not performed by
inefficient compilers.

Added missing va_end statements that should correspond with each va_start

statement.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has
a much larger code and data size.

Previous Release:
Non-Debug Version: 79.5K Code, 17.2K Data, 96.7K Total
Debug Version: 159.0K Code, 63.8K Data, 222.8K Total
Current Release:
Non-Debug Version: 79.7K Code, 17.3K Data, 97.0K Total
Debug Version: 158.9K Code, 64.0K Data, 222.9K Total

2) iASL Compiler/Disassembler and Tools:

Implemented full
disassembler support for the following new ACPI tables:
BERT, EINJ, and ERST. Implemented partial disassembler support for the
complicated HEST table. These tables support the Windows Hardware Error
Architecture (WHEA).

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23 January 2008. Summary of changes for version 20080123:

1) ACPI CA Core Subsystem:

Added the 2008 copyright to all module headers and signons. This affects
virtually every file in the ACPICA core subsystem, the iASL compiler, and
the tools/utilities.

Fixed a problem with the SizeOf operator when used with Package and
Buffer
objects. These objects have deferred execution for some arguments, and
the
execution is now completed before the SizeOf is executed. This problem
caused
unexpected AE_PACKAGE_LIMIT errors on some systems (Lin Ming, Bob Moore)
BZ
9558

Implemented an enhancement to the interpreter "slack mode". In the
absence
of
an explicit return or an implicitly returned object from the last
executed

opcode, a control method will now implicitly return an integer of value 0
for
Microsoft compatibility. (Lin Ming) BZ 392

Fixed a problem with the Load operator where an exception was not
returned
in
the case where the table is already loaded. (Lin Ming) BZ 463

Implemented support for the use of DDBHandles as an Indexed Reference, as
per
the ACPI spec. (Lin Ming) BZ 486

Implemented support for UserTerm (Method invocation) for the Unload
operator
as per the ACPI spec. (Lin Ming) BZ 580

Fixed a problem with the LoadTable operator where the OemId and
OemTableId
input strings could cause unexpected failures if they were shorter than
the
maximum lengths allowed. (Lin Ming, Bob Moore) BZ 576

Implemented support for UserTerm (Method invocation) for the Unload
operator
as per the ACPI spec. (Lin Ming) BZ 580

Implemented header file support for new ACPI tables - BERT, ERST, EINJ,
HEST,
IBFT, UEFI, WDAT. Disassembler support is forthcoming.

Example Code and Data Size: These
are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has
a much larger code and data size.

Previous Release:
Non-Debug Version: 79.3K Code, 17.2K Data, 96.5K Total
Debug Version: 158.6K Code, 63.8K Data, 222.4K Total
Current Release:
Non-Debug Version: 79.5K Code, 17.2K Data, 96.7K Total
Debug Version: 159.0K Code, 63.8K Data, 222.8K Total

2) iASL Compiler/Disassembler and Tools:

Implemented support in the disassembler for checksum validation on incoming
binary DSDTs and SSDTs. If incorrect, a message is displayed within the table
header dump at the start of the disassembly.

Implemented additional debugging information in the namespace listing file
created during compilation. In addition to the namespace hierarchy, the full
pathname to each namespace object is displayed.

Fixed a problem with the disassembler
where invalid ACPI tables could
cause
faults or infinite loops.

Fixed an unexpected parse error when using the optional "parameter types"
list in a control method declaration. (Lin Ming) BZ 397

Fixed a problem where two External declarations with the same name did not
cause an error (Lin Ming) BZ 509

Implemented support for full TermArgs (adding Argx, Localx and method
invocation) for the ParameterData parameter to the LoadTable operator. (Lin
Ming) BZ 583,587

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19 December 2007. Summary of changes for version 20071219:

1) ACPI CA Core Subsystem:

Implemented full support for deferred execution for the TermArg string
arguments for DataTableRegion. This enables forward references and full
operand resolution for the three string arguments. Similar to OperationRegion
deferred argument execution.) Lin Ming. BZ 430

Implemented full argument resolution support for the BankValue argument to
BankField. Previously, only constants were
supported, now any TermArg may
be
used. Lin Ming BZ 387, 393

Fixed a problem with AcpiGetDevices where the search of a branch of the

device tree could be terminated prematurely. In accordance with the ACPI specification, the search down the current branch is terminated if a device
is both not present and not functional (instead of just not present.)
Yakui
Zhao.

Fixed a problem where "unknown" GPEs could be allowed to fire repeatedly if
the underlying AML code changed the GPE enable registers. Now, any unknown
incoming GPE (no _Lxx/_Exx method and not the EC GPE) is immediately disabled
instead of simply ignored. Rui Zhang.

Fixed a problem with Index Fields where the Index register was incorrectly
limited to a maximum of 32 bits. Now any size may be used.

Fixed a couple memory leaks associated with "implicit return" objects when
the AML Interpreter slack mode is enabled. Lin Ming BZ 349

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib
 produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and has
a much larger code and data size.

 Previous Release:
   Non-Debug Version: 79.0K Code, 17.2K Data, 96.2K Total
   Debug Version: 157.9K Code, 63.6K Data, 221.5K Total
 Current Release:
   Non-Debug Version: 79.3K Code, 17.2K Data, 96.5K Total
   Debug Version: 158.6K Code, 63.8K Data, 222.4K Total

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14 November 2007. Summary of changes for version 20071114:

1) ACPI CA Core Subsystem:

Implemented event counters for each of the Fixed Events, the ACPI SCI (interrupt) itself, and control methods executed. Named AcpiFixedEventCount[], AcpiSciCount, and AcpiMethodCount respectively. These
should be useful for debugging and statistics.

Implemented a new external interface, AcpiGetStatistics, to retrieve the contents of the various event counters. Returns the current values for AcpiSciCount,
AcpiGpeCount, the AcpiFixedEventCount array, and AcpiMethodCount. The interface can be expanded in the future if new counters
are added. Device drivers should use this interface rather than access the
counters directly.

Fixed a problem with the FromBCD and ToBCD operators. With some compilers,
the ShortDivide function worked incorrectly, causing problems with the BCD
functions with large input values. A truncation from 64-bit to 32-bit inadvertently occurred. Internal BZ 435. Lin Ming

Fixed a problem with Index references passed as method arguments. References
passed as arguments to control methods were dereferenced immediately (before
control was passed to the called method). The references are now correctly
passed directly to the called method. BZ 5389. Lin Ming

Fixed a problem with CopyObject used in conjunction with the Index operator.
The reference was incorrectly dereferenced before the copy. The reference is
now correctly copied. BZ 5391. Lin Ming

Fixed
a problem with Control Method references within Package objects. These
references are now correctly generated. This completes the package construction overhaul that began in version 20071019.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has
a much larger code and data size.

Previous Release:
Non-Debug Version: 78.8K Code, 17.2K Data, 96.0K Total
Debug Version: 157.2K Code, 63.4K Data, 220.6K Total
Current Release:
Non-Debug Version: 79.0K Code, 17.2K Data, 96.2K Total

Debug Version: 157.9K Code, 63.6K Data, 221.5K Total

2) iASL Compiler/Disassembler and Tools:

The AcpiExec utility now installs handlers for all of the predefined Operation Region types. New types supported are: PCI_Config, CMOS, and PCIBARTarget.

Fixed a problem with the 64-bit version of AcpiExec where the extended (64-bit) address fields for the DSDT and FACS within the FADT were not being used, causing truncation of the upper 32-bits of these addresses. Lin Ming and Bob Moore

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19 October 2007. Summary of changes for version 20071019:

1) ACPI CA Core Subsystem:

Fixed a problem with the Alias operator when the target of the alias is a named ASL operator that opens a new scope -- Scope, Device, PowerResource, Processor, and ThermalZone. In these cases, any children of the original operator could not be accessed via the alias, potentially causing unexpected AE_NOT_FOUND exceptions. (BZ 9067)

Fixed a problem with the Package operator where all named references were created as object references and left otherwise unresolved. According to the ACPI specification, a Package can only contain Data Objects or references to control methods. The implication is that named references to Data Objects (Integer, Buffer, String, Package, BufferField, Field) should be resolved immediately upon package creation. This is the approach taken with this change. References to all other named objects (Methods, Devices, Scopes, etc.) are all now properly created as reference objects. (BZ 5328)

Reverted a change to Notify handling that was introduced in version 20070508. This version changed the Notify handling from asynchronous to fully synchronous (Device driver Notify handling with respect to the Notify ASL operator). It was found that this change caused more problems than it solved and was removed by most users.

Fixed a problem with the Increment and Decrement operators where the type of
the target object could be unexpectedly and incorrectly changed. (BZ 353)
Lin Ming.

Fixed a problem with the Load and LoadTable operators where the table
location within the namespace was ignored. Instead, the table was always
loaded into the root or current scope. Lin Ming.

Fixed a problem with the Load operator when loading
a table from a buffer
object. The input buffer was prematurely zeroed and/or deleted. (BZ 577)

Fixed a problem with the Debug object where a store of a DdbHandle reference
object to the Debug object could cause a fault.

Added a table checksum verification for the Load operator, in the case where
the load is from a buffer. (BZ 578).

Implemented additional parameter validation for the LoadTable operator. The
length of the input strings SignatureString, OemIdString, and OemTableId are
now checked for maximum lengths. (BZ 582) Lin Ming.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and has
a much larger code and data size.

Previous Release:
Non-Debug Version: 78.5K Code, 17.1K Data, 95.6K Total
Debug Version: 156.7K Code, 63.2K Data, 219.9K Total
Current Release:
Non-Debug Version:
78.8K Code, 17.2K Data, 96.0K Total
Debug Version: 157.2K Code, 63.4K Data, 220.6K Total

2) iASL Compiler/Disassembler:

Fixed a problem where if a single file was specified and the file did not
exist, no error message was emitted. (Introduced with wildcard support in
version 20070917.)

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19 September 2007. Summary of changes for version 20070919:

1) ACPI CA Core Subsystem:

Designed and implemented new external interfaces to install and remove handlers for ACPI table-related events. Current events that are defined are
LOAD and UNLOAD. These interfaces allow the host to track ACPI tables as they are dynamically loaded and unloaded. See AcpiInstallTableHandler and AcpiRemoveTableHandler. (Lin Ming and Bob Moore)

Fixed a problem where the use of the AcpiGbl_AllMethodsSerialized flag (acpi_serialized option on Linux) could cause some systems to hang during initialization. (Bob Moore) BZ 8171

Fixed a problem where objects of certain
types (Device, ThermalZone,
Processor, PowerResource) can be not found if they are declared and referenced from within the same control method (Lin Ming) BZ 341

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has
a much larger code and data size.

Previous Release:
Non-Debug Version: 78.3K Code, 17.0K Data, 95.3K Total
Debug Version: 156.3K Code, 63.1K Data, 219.4K Total
Current Release:
Non-Debug Version: 78.5K Code, 17.1K Data, 95.6K Total
Debug Version: 156.7K Code, 63.2K Data, 219.9K Total

2) iASL Compiler/Disassembler:

Implemented support to allow multiple files to be compiled/disassembled in
a
single invocation. This includes command line wildcard support for both the
Windows and Unix versions of the compiler. This feature simplifies the disassembly and compilation
of multiple ACPI tables in a single
directory.

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08 May 2007. Summary of changes for version 20070508:

1) ACPI CA Core Subsystem:

Implemented a Microsoft compatibility design change for the handling of the
Notify AML operator. Previously, notify handlers were dispatched and
executed completely asynchronously in a deferred thread. The new design
still executes the notify handlers in a different thread, but the original
thread that executed the Notify() now waits at a synchronization point for
the notify handler to complete. Some machines depend on a synchronous Notify
operator in order to operate correctly.

Implemented support to allow Package objects to be passed as method
arguments to the external AcpiEvaluateObject interface. Previously, this
would return the AE_NOT_IMPLEMENTED exception. This feature had not been
implemented since there were no reserved control methods that required it
until recently.

Fixed a problem with
the internal FADT conversion where ACPI 1.0 FADTs that
contained invalid non-zero values in reserved fields could cause later
failures because these fields have meaning in later revisions of the FADT.
For incoming ACPI 1.0 FADTs, these fields are now always zeroed. (The fields
are: Preferred_PM_Profile, PSTATE_CNT, CST_CNT, and IAPC_BOOT_FLAGS.)

Fixed a problem where the Global Lock handle was not properly updated if a
thread that acquired the Global Lock via executing AML code then attempted
to acquire the lock via the AcpiAcquireGlobalLock interface. Reported by Joe
Liu.

Fixed a problem in AcpiEvDeleteGpeXrupt where the global interrupt list
could be corrupted if the interrupt being removed was at the head of the
list. Reported by Linn Crosetto.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and

has

a much larger code and data size.

Previous Release:
Non-Debug Version: 78.0K Code, 17.1K Data, 95.1K Total
Debug Version: 155.9K Code, 63.1K Data, 219.0K Total
Current Release:
Non-Debug Version: 78.3K Code, 17.0K Data, 95.3K Total
Debug Version: 156.3K Code, 63.1K Data, 219.4K Total

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20 March 2007. Summary of changes for version 20070320:

1) ACPI CA Core Subsystem:

Implemented a change to the order of interpretation and evaluation of AML operand objects within the AML interpreter. The interpreter now evaluates operands in the order that they appear in the AML stream (and the corresponding ASL code), instead of in the reverse order (after the entire operand list has been parsed). The previous behavior caused several subtle incompatibilities with the Microsoft AML interpreter as well as being somewhat non-intuitive. BZ 7871, local BZ 263. Valery Podrezov.

Implemented a change to the ACPI Global Lock support. All interfaces to the global lock now allow the same thread to acquire the lock multiple times. This affects the AcpiAcquireGlobalLock external interface to the global lock as well as the internal use of the global lock to support AML fields -- a control method that is holding the global lock can now simultaneously access AML fields that require global lock protection. Previously, in both cases, this would have resulted in an AE_ALREADY_ACQUIRED exception. The change to AcpiAcquireGlobalLock is of special interest to drivers for the Embedded Controller. There is no change to the behavior of the AML Acquire operator, as this can already be used to acquire a mutex multiple times by the same thread. BZ 8066. With assistance from Alexey Starikovskiy.

Fixed a problem where invalid objects could be referenced in the AML Interpreter after error conditions. During operand evaluation, ensure that

the internal "Return Object" field is cleared on error and only valid

pointers are stored there. Caused occasional access to deleted objects
that
resulted in "large reference count" warning messages. Valery Podrezov.

Fixed a problem where an AE_STACK_OVERFLOW internal exception could occur
on
deeply nested control method invocations. BZ 7873, local BZ 487. Valery
Podrezov.

Fixed an internal problem with the handling of result objects on the
interpreter result stack. BZ 7872. Valery Podrezov.

Removed obsolete code that handled the case where AML_NAME_OP is the
target
of a reference (Reference.Opcode). This code was no longer necessary. BZ
7874. Valery Podrezov.

Removed obsolete ACPI_NO_INTEGER64_SUPPORT from two header files. This
was
a
remnant from the previously discontinued 16-bit support.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has
a much larger code and data
size.

Previous Release:
Non-Debug Version: 78.0K Code, 17.1K Data, 95.1K Total
Debug Version: 155.8K Code, 63.3K Data, 219.1K Total
Current Release:
Non-Debug Version: 78.0K Code, 17.1K Data, 95.1K Total
Debug Version: 155.9K Code, 63.1K Data, 219.0K Total

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26 January 2007. Summary of changes for version 20070126:

1) ACPI CA Core Subsystem:

Added the 2007 copyright to all module headers and signons. This affects
virtually every file in the ACPICA core subsystem, the iASL compiler, and
the utilities.

Implemented a fix for an incorrect parameter passed to AcpiTbDeleteTable

during a table load. A bad pointer was passed in the case where the DSDT
is
overridden, causing a fault in this case.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and

has
a much larger code and data size.

Previous Release:
Non-Debug Version: 78.0K Code, 17.1K Data, 95.1K Total
Debug Version: 155.8K Code, 63.3K Data, 219.1K Total
Current Release:
Non-Debug Version: 78.0K Code, 17.1K Data, 95.1K Total
Debug Version: 155.8K Code, 63.3K Data, 219.1K Total

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15 December 2006. Summary of changes for version 20061215:

1) ACPI CA Core Subsystem:

Support for 16-bit ACPICA has been completely removed since it is no
longer
necessary and it clutters the code. All 16-bit macros, types, and
conditional compiles have been removed, cleaning up and simplifying the
code
across the entire subsystem. DOS support is no longer needed since the
bootable Linux firmware kit is now available.

The handler for the Global Lock is now removed during AcpiTerminate to
enable a clean subsystem restart, via the implementation of the
AcpiEvRemoveGlobalLockHandler function. (With assistance from Joel
Bretz,
HP)

Implemented enhancements to the multithreading support within the
debugger
to enable improved multithreading debugging and evaluation of the
subsystem.
(Valery Podrezov)

Debugger: Enhanced the Statistics/Memory command to emit the total
(maximum)
memory used during the execution, as well as the maximum memory consumed
by
each of the various object types. (Valery Podrezov)

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has
a much larger code and data size.

Previous Release:
Non-Debug Version: 77.9K Code, 17.0K Data, 94.9K Total
Debug Version: 155.2K Code, 63.1K Data, 218.3K Total
Current Release:
Non-Debug Version: 78.0K Code, 17.1K Data, 95.1K Total
Debug Version: 155.8K Code, 63.3K Data, 219.1K Total

2) iASL Compiler/Disassembler and Tools:

AcpiExec: Implemented
a new option (-m) to display full memory use
statistics upon subsystem/program termination. (Valery Podrezov)

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09 November 2006. Summary of changes for version 20061109:

1) ACPI CA Core Subsystem:

Optimized the Load ASL operator in the case where the source operand is an
operation region. Simply map the operation region memory, instead of performing a bytewise read. (Region must be of type SystemMemory, see below.)

Fixed the Load ASL operator for the case where the source operand is a region field. A buffer object is also allowed as the source operand. BZ 480

Fixed a problem where the Load ASL operator allowed the source operand to be
an operation region of any type. It is now restricted to regions of type SystemMemory, as per the ACPI specification. BZ 481

Additional cleanup and optimizations for the new Table Manager code.

AcpiEnable will now fail if all of the required ACPI tables are not loaded
(FADT, FACS, DSDT). BZ
477

Added #pragma pack(8/4) to acobject.h to ensure that the structures in
this
header are always compiled as aligned. The ACPI_OPERAND_OBJECT has been
manually optimized to be aligned and will not work if it is byte-packed.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has
a much larger code and data size.

Previous Release:
Non-Debug Version: 78.1K Code, 17.1K Data, 95.2K Total
Debug Version: 155.4K Code, 63.1K Data, 218.5K Total
Current Release:
Non-Debug Version: 77.9K Code, 17.0K Data, 94.9K Total
Debug Version: 155.2K Code, 63.1K Data, 218.3K Total

2) iASL Compiler/Disassembler and Tools:

Fixed a problem where the presence of the _OSI predefined control method
within complex expressions could cause an internal compiler error.

AcpiExec: Implemented full region support
for multiple address spaces.
SpaceId is now part of the REGION object. BZ 429

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11 October 2006. Summary of changes for version 20061011:

1) ACPI CA Core Subsystem:

Completed an AML interpreter performance enhancement for control method
execution. Previously a 2-pass parse/execution, control methods are now
completely parsed and executed in a single pass. This improves overall
interpreter performance by ~25%, reduces code size, and reduces CPU stack
use. (Valery Podrezov + interpreter changes in version 20051202 that
eliminated namespace loading during the pass one parse.)

Implemented _CID support for PCI Root Bridge detection. If the _HID does
not
match the predefined PCI Root Bridge IDs, the _CID list (if present) is
now
obtained and also checked for an ID match.

Implemented additional support for the PCI _ADR execution: upsearch until
a

device scope is found before executing _ADR. This allows PCI_Config operation regions to
be declared locally within control methods underneath
PCI device objects.

Fixed a problem with a possible race condition between threads executing AcpiWalkNamespace and the AML interpreter. This condition was removed by modifying AcpiWalkNamespace to (by default) ignore all temporary namespace
entries created during any concurrent control method execution. An additional namespace race condition is known to exist between AcpiWalkNamespace and the Load/Unload ASL operators and is still under investigation.

Restructured the AML ParseLoop function, breaking it into several subfunctions in order to reduce CPU stack use and improve maintainability.
(Mikhail Kouzmich)

AcpiGetHandle: Fix for parameter validation to detect invalid combinations
of prefix handle and pathname. BZ 478

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and
has
a much larger code and data size.

Previous Release:
Non-Debug Version: 77.9K Code, 17.1K Data, 95.0K Total
Debug Version: 154.6K Code, 63.0K Data, 217.6K Total
Current Release:
Non-Debug Version: 78.1K Code, 17.1K Data, 95.2K Total
Debug Version: 155.4K Code, 63.1K Data, 218.5K Total

2) iASL Compiler/Disassembler and Tools:

Ported the -g option (get local ACPI tables) to the new ACPICA Table Manager
to restore original behavior.

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27 September 2006. Summary of changes for version 20060927:

1) ACPI CA Core Subsystem:

Removed the "Flags" parameter from AcpiGetRegister and AcpiSetRegister.
These functions now use a spinlock for mutual exclusion and the interrupt
level indication flag is not needed.

Fixed a problem with the Global Lock where the lock could appear to be
obtained before it is actually obtained. The global lock semaphore was
inadvertently created with one unit instead
of zero units. (BZ 464)
Fiodor
Suietov.

Fixed a possible memory leak and fault in AcpiExResolveObjectToValue
during
a read from a buffer or region field. (BZ 458) Fiodor Suietov.

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has
a much larger code and data size.

Previous Release:
Non-Debug Version: 77.9K Code, 17.1K Data, 95.0K Total
Debug Version: 154.7K Code, 63.0K Data, 217.7K Total
Current Release:
Non-Debug Version: 77.9K Code, 17.1K Data, 95.0K Total
Debug Version: 154.6K Code, 63.0K Data, 217.6K Total

2) iASL Compiler/Disassembler and Tools:

Fixed a compilation problem with the pre-defined Resource Descriptor
field
names where an "object does not exist" error could be incorrectly
generated
if the parent ResourceTemplate pathname places the template within a
different
namespace scope than the current scope. (BZ 7212)

Fixed a problem where the compiler could hang after syntax errors
detected
in an ElseIf construct. (BZ 453)

Fixed a problem with the AmlFilename parameter to the DefinitionBlock()
operator. An incorrect output filename was produced when this parameter
was
a null string (""). Now, the original input filename is used as the AML

output filename, with an ".aml" extension.

Implemented a generic batch command mode for the AcpiExec utility (execute
any AML debugger command) (Valery Podrezov).

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12 September 2006. Summary of changes for version 20060912:

1) ACPI CA Core Subsystem:

Enhanced the implementation of the "serialized mode" of the interpreter
(enabled via the AcpiGbl_AllMethodsSerialized flag.) When this mode is
specified, instead of creating a serialization semaphore per control method,
the interpreter lock is simply no longer released before a blocking
operation during control
 method execution. This effectively makes the AML
Interpreter single-threaded. The overhead of a semaphore per-method is
eliminated.

Fixed a regression where an error was no longer emitted if a control method
attempts to create 2 objects of the same name. This once again returns
AE_ALREADY_EXISTS. When this exception occurs, it invokes the mechanism that
will dynamically serialize the control method to possible prevent future
errors. (BZ 440)

Integrated a fix for a problem with PCI Express HID detection in the PCI
Config Space setup procedure. (BZ 7145)

Moved all FADT-related functions to a new file, tbfadt.c. Eliminated the
AcpiHwInitialize function - the FADT registers are now validated when the
table is loaded.

Added two new warnings during FADT verification - 1) if the FADT is larger
than the largest known FADT version, and 2) if there is a mismatch between
a
32-bit block address and the 64-bit X counterpart (when both are non-
zero.)

Example Code and Data
 Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and

has
a much larger code and data size.

Previous Release:
Non-Debug Version: 77.9K Code, 16.7K Data, 94.6K Total
Debug Version: 154.9K Code, 62.6K Data, 217.5K Total
Current Release:
Non-Debug Version: 77.9K Code, 17.1K Data, 95.0K Total
Debug Version: 154.7K Code, 63.0K Data, 217.7K Total

2) iASL Compiler/Disassembler and Tools:

Fixed a problem with the implementation of the Switch() operator where
the
temporary variable was declared too close to the actual Switch, instead
of
at method level. This could cause a problem if the Switch() operator is
within a while loop, causing an error on the second iteration. (BZ 460)

Disassembler - fix for error emitted for unknown type for target of scope
operator. Now, ignore it and continue.

Disassembly of an FADT
now verifies the input FADT and reports any errors
found. Fix for proper disassembly of full-sized (ACPI 2.0) FADTs.

Disassembly of raw data buffers with byte initialization data now
prefixes
each output line with the current buffer offset.

Disassembly of ASF! table now includes all variable-length data fields at
the end of some of the subtables.

The disassembler now emits a comment if a buffer appears to be a
ResourceTemplate, but cannot be disassembled as such because the EndTag
does
not appear at the very end of the buffer.

AcpiExec - Added the "-t" command line option to enable the serialized
mode
of the AML interpreter.

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31 August 2006. Summary of changes for version 20060831:

1) ACPI CA Core Subsystem:

Miscellaneous fixes for the Table Manager:
- Correctly initialize internal common FADT for all 64-bit "X" fields
- Fixed a couple table mapping issues during table load
- Fixed a couple alignment issues for IA64
- Initialize
input array to zero in AcpiInitializeTables
- Additional parameter validation for AcpiGetTable, AcpiGetTableHeader, AcpiGetTableByIndex

Change for GPE support: when a "wake" GPE is received, all wake GPEs are now
immediately disabled to prevent the waking GPE from firing again and to prevent other wake GPEs from interrupting the wake process.

Added the AcpiGpeCount global that tracks the number of processed GPEs, to
be used for debugging systems with a large number of ACPI interrupts.

Implemented support for the "DMAR" ACPI table (DMA Redirection Table) in both the ACPICA headers and the disassembler.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has
a much larger code and data size.

Previous Release:
Non-Debug Version: 77.8K Code, 16.5K Data, 94.3K Total
Debug Version: 154.6K Code, 62.3K
Data, 216.9K Total
Current Release:
Non-Debug Version: 77.9K Code, 16.7K Data, 94.6K Total
Debug Version: 154.9K Code, 62.6K Data, 217.5K Total

2) iASL Compiler/Disassembler and Tools:

Disassembler support for the DMAR ACPI table.

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23 August 2006. Summary of changes for version 20060823:

1) ACPI CA Core Subsystem:

The Table Manager component has been completely redesigned and reimplemented. The new design is much simpler, and reduces the overall code

and data size of the kernel-resident ACPICA by approximately 5%. Also, it is
now possible to obtain the ACPI tables very early during kernel
initialization, even before dynamic memory management is initialized.
(Alexey Starikovskiy, Fiodor Suietov, Bob Moore)

Obsolete ACPICA interfaces:

- AcpiGetFirmwareTable: Use AcpiGetTable instead (works at early kernel init
time).
- AcpiLoadTable: Not needed.
- AcpiUnloadTable: Not needed.

New ACPICA interfaces:

- AcpiInitializeTables:
 Must be called before the table manager can be
used.
- AcpiReallocateRootTable: Used to transfer the root table to dynamically
allocated memory after it becomes available.
- AcpiGetTableByIndex: Allows the host to easily enumerate all ACPI tables
in the RSDT/XSDT.

Other ACPICA changes:

- AcpiGetTableHeader returns the actual mapped table header, not a copy. Use
AcpiOsUnmapMemory to free this mapping.
- AcpiGetTable returns the actual mapped table. The mapping is managed
internally and must not be deleted by the caller. Use of this interface
causes no additional dynamic memory allocation.
- AcpiFindRootPointer: Support for physical addressing has been eliminated,
it appeared to be unused.
- The interface to AcpiOsMapMemory has changed to be consistent with the
other allocation interfaces.
- The interface to AcpiOsGetRootPointer has changed to eliminate unnecessary
parameters.
- ACPI_PHYSICAL_ADDRESS is now 32 bits on 32-bit platforms, 64 bits on 64-
bit platforms.
 Was previously 64 bits on all platforms.
- The interface to the ACPI Global Lock acquire/release macros have changed
slightly since ACPICA no longer keeps a local copy of the FACS with a

constructed pointer to the actual global lock.

Porting to the new table manager:

- AcpiInitializeTables: Must be called once, and can be called anytime during the OS initialization process. It allows the host to specify an area
of memory to be used to store the internal version of the RSDT/XSDT (root table). This allows the host to access ACPI tables before memory management
is initialized and running.
- AcpiReallocateRootTable: Can be called after memory management is running
to copy the root table to a dynamically allocated array, freeing up the scratch memory specified in the call to AcpiInitializeTables.
- AcpiSubsystemInitialize: This existing interface is independent of the Table Manager, and does not have to be called before the Table Manager can
be used, it only must be
called before the rest of ACPICA can be used.
- ACPI Tables: Some changes have been made to the names and structure of the
actbl.h and actbl1.h header files and may require changes to existing code.
For example, bitfields have been completely removed because of their lack of
portability across C compilers.
- Update interfaces to the Global Lock acquire/release macros if local versions are used. (see acwin.h)

Obsolete files: tbconvrt.c, tbget.c, tbgetall.c, tbrsdt.c

New files: tbfind.c

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has
a much larger code and data size.

Previous Release:
Non-Debug Version: 80.7K Code, 17.9K Data, 98.6K Total
Debug Version: 161.0K Code, 65.1K Data, 226.1K Total
Current Release:
Non-Debug Version: 77.8K Code, 16.5K Data, 94.3K Total
Debug Version:
154.6K Code, 62.3K Data, 216.9K Total

2) iASL Compiler/Disassembler and Tools:

No changes for this release.

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21 July 2006. Summary of changes for version 20060721:

1) ACPI CA Core Subsystem:

The full source code for the ASL test suite used to validate the iASL compiler and the ACPICA core subsystem is being released with the ACPICA source for the first time. The source is contained in a separate package and consists of over 1100 files that exercise all ASL/AML operators. The package should appear on the Intel/ACPI web site shortly. (Valery Podrezov, Fiodor Suietov)

Completed a new design and implementation for support of the ACPI Global Lock. On the OS side, the global lock is now treated as a standard AML mutex. Previously, multiple OS threads could "acquire" the global lock simultaneously. However, this could cause the BIOS to be starved out of the lock - especially in cases such as the Embedded Controller driver where

there is a tight coupling between the OS and the BIOS.

Implemented an optimization for the ACPI Global Lock interrupt mechanism. The Global Lock interrupt handler no longer queues the execution of a separate thread to signal the global lock semaphore. Instead, the semaphore is signaled directly from the interrupt handler.

Implemented support within the AML interpreter for package objects that contain a larger AML length (package list length) than the package element count. In this case, the length of the package is truncated to match the package element count. Some BIOS code apparently modifies the package length on the fly, and this change supports this behavior. Provides compatibility with the MS AML interpreter. (With assistance from Fiodor Suietov)

Implemented a temporary fix for the BankValue parameter of a Bank Field to support all constant values, now including the Zero and One opcodes.

Evaluation of this parameter must eventually be converted to a full
TermArg

evaluation. A not-implemented error is now returned (temporarily) for
non-
constant values for this parameter.

Fixed problem reports (Fiodor Suietov) integrated:
- Fix for premature object deletion after CopyObject on Operation Region
(BZ
350)

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has
a much larger code and data size.

Previous Release:
Non-Debug Version: 80.7K Code, 18.0K Data, 98.7K Total
Debug Version: 160.9K Code, 65.1K Data, 226.0K Total
Current Release:
Non-Debug Version: 80.7K Code, 17.9K Data, 98.6K Total
Debug Version: 161.0K Code, 65.1K Data, 226.1K Total

2) iASL Compiler/Disassembler and Tools:

No changes for this release.

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07 July 2006. Summary of changes for version 20060707:

1) ACPI CA Core Subsystem:

Added
the ACPI_PACKED_POINTERS_NOT_SUPPORTED macro to support C compilers
that do not allow the initialization of address pointers within packed
structures - even though the hardware itself may support misaligned
transfers. Some of the debug data structures are packed by default to
minimize size.

Added an error message for the case where AcpiOsGetThreadId() returns
zero.
A non-zero value is required by the core ACPICA code to ensure the proper
operation of AML mutexes and recursive control methods.

The DSDT is now the only ACPI table that determines whether the AML

interpreter is in 32-bit or 64-bit mode. Not really a functional change, but
the hooks for per-table 32/64 switching have been removed from the code. A
clarification to the ACPI specification is forthcoming in ACPI 3.0B.

Fixed a possible leak of an OwnerID in the error path of
AcpiTbInitTableDescriptor (tbinstal.c), and migrated all table OwnerID
deletion to a single place in AcpiTbUninstallTable to correct possible

leaks
when using the AcpiTbDeleteTablesByType interface (with assistance from
Lance Ortiz.)

Fixed a problem with Serialized control methods where the semaphore
associated with the method could be over-signaled after multiple method
invocations.

Fixed two issues with the locking of the internal namespace data
structure.
Both the Unload() operator and AcpiUnloadTable interface now lock the
namespace during the namespace deletion associated with the table unload
(with assistance from Linn Crosetto.)

Fixed problem reports (Valery Podrezov) integrated:
- Eliminate unnecessary memory allocation for CreateXxxxField (BZ 5426)

Fixed problem reports (Fiodor Suietov) integrated:
- Incomplete cleanup branches in AcpiTbGetTableRsdt (BZ 369)
- On Address Space handler deletion, needless deactivation call (BZ 374)
- AcpiRemoveAddressSpaceHandler: validate Device handle parameter (BZ
375)
- Possible memory leak, Notify sub-objects of Processor, Power,
ThermalZone
(BZ 376)
- AcpiRemoveAddressSpaceHandler:
validate Handler parameter (BZ 378)
- Minimum Length of RSDT should be validated (BZ 379)
- AcpiRemoveNotifyHandler: return AE_NOT_EXIST if Processor Obj has no
Handler (BZ (380)
- AcpiUnloadTable: return AE_NOT_EXIST if no table of specified type
loaded
(BZ 381)

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has

a much larger code and data size.

Previous Release:
Non-Debug Version: 80.5K Code, 17.8K Data, 98.3K Total
Debug Version: 160.8K Code, 64.8K Data, 225.6K Total
Current Release:
Non-Debug Version: 80.7K Code, 17.9K Data, 98.6K Total
Debug Version: 161.0K Code, 65.1K Data, 226.1K Total

2) iASL Compiler/Disassembler and Tools:

Fixed problem reports:
Compiler segfault when ASL contains a long (>1024) String declaration (BZ 436)

23
June 2006. Summary of changes for version 20060623:

1) ACPI CA Core Subsystem:

Implemented a new ACPI_SPINLOCK type for the OSL lock interfaces. This allows the type to be customized to the host OS for improved efficiency (since a spinlock is usually a very small object.)

Implemented support for "ignored" bits in the ACPI registers. According to the ACPI specification, these bits should be preserved when writing the registers via a read/modify/write cycle. There are 3 bits preserved in this manner: PM1_CONTROL[0] (SCI_EN), PM1_CONTROL[9], and PM1_STATUS[11].

Implemented the initial deployment of new OSL mutex interfaces. Since some host operating systems have separate mutex and semaphore objects, this feature was requested. The base code now uses mutexes (and the new mutex interfaces) wherever a binary semaphore was used previously. However, for the current release, the mutex interfaces are defined as macros to map them to the existing semaphore interfaces. Therefore, no OSL changes are required at this time. (See acpiosxf.h)

Fixed several problems with the support for the control method SyncLevel parameter. The SyncLevel now works according to the ACPI specification and

in concert with the Mutex SyncLevel parameter, since the current
SyncLevel
is a property of the executing thread. Mutual exclusion for control
methods
is now implemented with a mutex instead of a semaphore.

Fixed three instances of the use of the C shift operator in the bitfield
support code (exfldio.c) to avoid the use of a shift value larger than
the
target data width. The behavior of C compilers is undefined in this case
and
can cause unpredictable results, and therefore the case must be detected
and
avoided. (Fiodor Suietov)

Added an info message whenever an SSDT or OEM table is loaded dynamically
via the Load() or LoadTable() ASL operators. This should improve
debugging
capability since it will show exactly what tables have been loaded

(beyond
the tables present in the RSDT/XSDT.)

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has
a much larger code and data size.

Previous Release:
Non-Debug Version: 80.0K Code, 17.6K Data, 97.6K Total
Debug Version: 160.2K Code, 64.7K Data, 224.9K Total
Current Release:
Non-Debug Version: 80.5K Code, 17.8K Data, 98.3K Total
Debug Version: 160.8K Code, 64.8K Data, 225.6K Total

2) iASL Compiler/Disassembler and Tools:

No changes for this release.

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08 June 2006. Summary of changes for version 20060608:

1) ACPI CA Core Subsystem:

Converted the locking mutex used for the ACPI hardware to a spinlock.
This

change should eliminate all problems caused by attempting to acquire a semaphore at interrupt level, and it means that all ACPICA external interfaces that directly access the ACPI hardware can be safely called from interrupt level. OSL code that implements the semaphore interfaces should be able to eliminate any workarounds for being called at interrupt level.

Fixed a regression introduced in 20060526 where the ACPI device initialization could be prematurely aborted with an AE_NOT_FOUND if a device did not have an optional _INI method.

Fixed an IndexField issue where a write to the Data Register should be limited in size to the AccessSize (width) of the IndexField itself. (BZ 433, Fiodor Suietov)

Fixed problem reports (Valery Podrezov) integrated:
- Allow store of ThermalZone objects to Debug object (BZ 5369/5370)

Fixed problem reports (Fiodor Suietov) integrated:
- AcpiGetTableHeader doesn't handle multiple instances correctly (BZ 364)

Removed four global mutexes that were obsolete and were no longer being used.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Previous Release:
Non-Debug Version: 80.0K Code, 17.7K Data, 97.7K Total
Debug Version: 160.3K Code, 64.9K Data, 225.2K Total
Current Release:
Non-Debug Version: 80.0K Code, 17.6K Data, 97.6K Total
Debug Version: 160.2K Code, 64.7K Data, 224.9K Total

2) iASL Compiler/Disassembler and Tools:

Fixed a fault when using -g option (get tables from registry) on Windows machines.

Fixed problem reports integrated:
- Generate error if CreateField NumBits parameter is zero. (BZ 405)
- Fault if Offset/Length in Field unit is very large (BZ 432, Fiodor
Suietov)
- Global table revision override (-r) is ignored (BZ 413)

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26 May 2006. Summary of changes for version 20060526:

1) ACPI CA Core Subsystem:

Restructured, flattened, and simplified the
internal interfaces for
namespace object evaluation - resulting in smaller code, less CPU stack
use,
and fewer interfaces. (With assistance from Mikhail Kouzmich)

Fixed a problem with the CopyObject operator where the first parameter
was
not typed correctly for the parser, interpreter, compiler, and
disassembler.
Caused various errors and unexpected behavior.

Fixed a problem where a ShiftLeft or ShiftRight of more than 64 bits
produced incorrect results with some C compilers. Since the behavior of C
compilers when the shift value is larger than the datatype width is
apparently not well defined, the interpreter now detects this condition
and
simply returns zero as expected in all such cases. (BZ 395)

Fixed problem reports (Valery Podrezov) integrated:
- Update String-to-Integer conversion to match ACPI 3.0A spec (BZ 5329)
- Allow interpreter to handle nested method declarations (BZ 5361)

Fixed problem reports (Fiodor Suietov) integrated:
- AcpiTerminate doesn't free debug
memory allocation list objects (BZ
355)
- After Core Subsystem shutdown, AcpiSubsystemStatus returns AE_OK (BZ
356)
- AcpiOsUnmapMemory for RSDP can be invoked inconsistently (BZ 357)
- Resource Manager should return AE_TYPE for non-device objects (BZ 358)
- Incomplete cleanup branch in AcpiNsEvaluateRelative (BZ 359)
- Use AcpiOsFree instead of ACPI_FREE in AcpiRsSetSrsMethodData (BZ 360)
- Incomplete cleanup branch in AcpiPsParseAml (BZ 361)
- Incomplete cleanup branch in AcpiDsDeleteWalkState (BZ 362)
- AcpiGetTableHeader returns AE_NO_ACPI_TABLES until DSDT is loaded (BZ
365)

- Status of the Global Initialization Handler call not used (BZ 366)
- Incorrect object parameter to Global Initialization Handler (BZ 367)

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has
a much larger code and data size.

Previous
Release:
Non-Debug Version: 79.8K Code, 17.7K Data, 97.5K Total
Debug Version: 160.5K Code, 65.1K Data, 225.6K Total
Current Release:
Non-Debug Version: 80.0K Code, 17.7K Data, 97.7K Total
Debug Version: 160.3K Code, 64.9K Data, 225.2K Total

2) iASL Compiler/Disassembler and Tools:

Modified the parser to allow the names IO, DMA, and IRQ to be used as namespace identifiers with no collision with existing resource descriptor macro names. This provides compatibility with other ASL compilers and is most useful for disassembly/recompilation of existing tables without
parse
errors. (With assistance from Thomas Renninger)

Disassembler: fixed an incorrect disassembly problem with the DataTableRegion and CopyObject operators. Fixed a possible fault during disassembly of some Alias operators.

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12 May 2006. Summary of changes for version 20060512:

1) ACPI CA Core Subsystem:

Replaced the AcpiOsQueueForExecution
interface with a new interface named
AcpiOsExecute. The major difference is that the new interface does not have
a Priority parameter, this appeared to be useless and has been replaced by
a
Type parameter. The Type tells the host what type of execution is being requested, such as global lock handler, notify handler, GPE handler, etc. This allows the host to queue and execute the request as appropriate for the
request type, possibly using different work queues and different

priorities
for the various request types. This enables fixes for multithreading
deadlock problems such as BZ #5534, and will require changes to all
existing
OS interface layers. (Alexey Starikovskiy and Bob Moore)

Fixed a possible memory leak associated with the support for the so-
called
"implicit return" ACPI extension. Reported by FreeBSD, BZ #6514. (Fiodor
Suietov)

Fixed a problem with the Load() operator where a table load from an
operation region could overwrite an internal table buffer by up
to 7
bytes
and cause alignment faults on IPF systems. (With assistance from Luming
Yu)

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has
a much larger code and data size.

Previous Release:
Non-Debug Version: 79.7K Code, 17.7K Data, 97.4K Total
Debug Version: 160.1K Code, 65.2K Data, 225.3K Total
Current Release:
Non-Debug Version: 79.8K Code, 17.7K Data, 97.5K Total
Debug Version: 160.5K Code, 65.1K Data, 225.6K Total

2) iASL Compiler/Disassembler and Tools:

Disassembler: Implemented support to cross reference the internal
namespace
and automatically generate ASL External() statements for symbols not
defined
within the current table being disassembled. This will simplify the
disassembly and recompilation of interdependent tables such as SSDTs
since
these statements
will no longer have to be added manually.

Disassembler: Implemented experimental support to automatically detect
invocations of external control methods and generate appropriate
External()

statements. This is problematic because the AML cannot be correctly
parsed
until the number of arguments for each control method is known.
Currently,
standalone method invocations and invocations as the source operand of a
Store() statement are supported.

Disassembler: Implemented support for the ASL pseudo-operators LNotEqual,
LLessEqual, and LGreaterEqual. Previously disassembled as LNot(LEqual()),
LNot(LGreater()), and LNot(LLess()), this makes the disassembled ASL code
more readable and likely closer to the original ASL source.

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21 April 2006. Summary of changes for version 20060421:

1) ACPI CA Core Subsystem:

Removed a device initialization optimization introduced in 20051216 where
the _STA method was not run unless an _INI was also present
for the same
device. This optimization could cause problems because it could allow
_INI
methods to be run within a not-present device subtree. (If a not-present
device had no _INI, _STA would not be run, the not-present status would
not
be discovered, and the children of the device would be incorrectly
traversed.)

Implemented a new _STA optimization where namespace subtrees that do not
contain _INI are identified and ignored during device initialization.
Selectively running _STA can significantly improve boot time on large
machines (with assistance from Len Brown.)

Implemented support for the device initialization case where the returned
_STA flags indicate a device not-present but functioning. In this case,
_INI
is not run, but the device children are examined for presence, as per the
ACPI specification.

Implemented an additional change to the IndexField support in order to
conform to MS behavior. The value written to the Index Register is not
simply a byte offset,
it is a byte offset in units of the access width of
the parent Index Field. (Fiodor Suietov)

Defined and deployed a new OSL interface, AcpiOsValidateAddress. This
interface is called during the creation of all AML operation regions, and
allows the host OS to exert control over what addresses it will allow the

AML code to access. Operation Regions whose addresses are disallowed will cause a runtime exception when they are actually accessed (will not affect
or abort table loading.) See oswinxf or osunixxf for an example implementation.

Defined and deployed a new OSL interface, AcpiOsValidateInterface. This interface allows the host OS to match the various "optional" interface/behavior strings for the _OSI predefined control method as appropriate (with assistance from Bjorn Helgaas.) See oswinxf or osunixxf for an example implementation.

Restructured and corrected various problems in the exception handling code
paths within DsCallControlMethod and DsTerminateControlMethod in dsmethod
(with assistance from Takayoshi Kochi.)

Modified the Linux source converter to ignore quoted string literals while
converting identifiers from mixed to lower case. This will correct problems
with the disassembler and other areas where such strings must not be modified.

The ACPI_FUNCTION_* macros no longer require quotes around the function name. This allows the Linux source converter to convert the names, now that
the converter ignores quoted strings.

Example Code and Data Size: These are the sizes for the OS-independent acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The debug version of the code includes the debug output trace mechanism and has
a much larger code and data size.

Previous Release:

Non-Debug Version: 81.1K Code, 17.7K Data, 98.8K Total
Debug Version: 158.9K Code, 64.9K Data, 223.8K Total
Current Release:
Non-Debug Version: 79.7K Code, 17.7K Data, 97.4K Total
Debug Version: 160.1K Code,
65.2K Data, 225.3K Total

2) iASL Compiler/Disassembler and Tools:

Implemented 3 new warnings for iASL, and implemented multiple warning
levels
(w2 flag).

1) Ignored timeouts: If the TimeoutValue parameter to Wait or Acquire is
not
WAIT_FOREVER (0xFFFF) and the code does not examine the return value to
check for the possible timeout, a warning is issued.

2) Useless operators: If an ASL operator does not specify an optional
target
operand and it also does not use the function return value from the
operator, a warning is issued since the operator effectively does
nothing.

3) Unreferenced objects: If a namespace object is created, but never
referenced, a warning is issued. This is a warning level 2 since there
are
cases where this is ok, such as when a secondary table is loaded that
uses
the unreferenced objects. Even so, care is taken to only flag objects
that
don't look like they will ever be used. For example, the reserved methods
(starting with an underscore) are
usually not referenced because it is
expected that the OS will invoke them.

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31 March 2006. Summary of changes for version 20060331:

1) ACPI CA Core Subsystem:

Implemented header file support for the following additional ACPI tables:
ASF!, BOOT, CPEP, DBGP, MCFG, SPCR, SPMI, TCPA, and WDRT. With this
support,
all current and known ACPI tables are now defined in the ACPICA headers
and
are available for use by device drivers and other software.

Implemented support to allow tables that contain ACPI names with invalid
characters to be loaded. Previously, this would cause the table load to
fail, but since there are several known cases of such tables on existing
machines, this change was made to enable ACPI support for them. Also,
this
matches the behavior of the Microsoft ACPI implementation.

Fixed a couple regressions introduced during the memory optimization in
the

20060317 release. The namespace node definition required additional

reorganization and an internal datatype that had been changed to 8-bit
was
restored to 32-bit. (Valery Podrezov)

Fixed a problem where a null pointer passed to AcpiUtDeleteGenericState
could be passed through to AcpiOsReleaseObject which is unexpected. Such
null pointers are now trapped and ignored, matching the behavior of the
previous implementation before the deployment of AcpiOsReleaseObject.
(Valery Podrezov, Fiodor Suietov)

Fixed a memory mapping leak during the deletion of a SystemMemory
operation
region where a cached memory mapping was not deleted. This became a
noticeable problem for operation regions that are defined within
frequently
used control methods. (Dana Meyers)

Reorganized the ACPI table header files into two main files: one for the
ACPI tables consumed by the ACPICA core, and another for the
miscellaneous
ACPI tables that are consumed by the drivers and other software. The
various
FADT definitions were merged into one common section and three
different
tables (ACPI 1.0, 1.0+, and 2.0)

Example Code and Data Size: These are the sizes for the OS-independent
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. The
debug version of the code includes the debug output trace mechanism and
has
a much larger code and data size.

Previous Release:
Non-Debug Version: 80.9K Code, 17.7K Data, 98.6K Total
Debug Version: 158.7K Code, 64.8K Data, 223.5K Total
Current Release:
Non-Debug Version: 81.1K Code, 17.7K Data, 98.8K Total
Debug Version: 158.9K Code, 64.9K Data, 223.8K Total

2) iASL Compiler/Disassembler and Tools:

Disassembler: Implemented support to decode and format all non-AML ACPI
tables (tables other than DSDTs and SSDTs.) This includes the new tables
added to the ACPICA headers, therefore all current and known ACPI tables
are

supported.

Disassembler: The change to allow ACPI names with invalid characters also
enables the disassembly of such tables. Invalid characters
 within names
are
changed to '*' to make the name printable; the iASL compiler will still
generate an error for such names, however, since this is an invalid ACPI
character.

Implemented an option for AcpiXtract (-a) to extract all tables found in
the
input file. The default invocation extracts only the DSDTs and SSDTs.

Fixed a couple of gcc generation issues for iASL and AcpiExec and added a
makefile for the AcpiXtract utility.

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17 March 2006. Summary of changes for version 20060317:

1) ACPI CA Core Subsystem:

Implemented the use of a cache object for all internal namespace nodes.
Since there are about 1000 static nodes in a typical system, this will
decrease memory use for cache implementations that minimize per-
allocation
overhead (such as a slab allocator.)

Removed the reference count mechanism for internal namespace nodes, since
it
was deemed unnecessary. This reduces the size of each namespace node by
about 5%-10% on all
 platforms. Nodes are now 20 bytes for the 32-bit
case,
and 32 bytes for the 64-bit case.

Optimized several internal data structures to reduce object size on 64-
bit
platforms by packing data within the 64-bit alignment. This includes the
frequently used ACPI_OPERAND_OBJECT, of which there can be ~1000 static
instances corresponding to the namespace objects.

Added two new strings for the predefined _OSI method: "Windows 2001.1
SP1"
and "Windows 2006".

Split the allocation tracking mechanism out to a separate file, from
utalloc.c to uttrack.c. This mechanism appears to be only useful for

application-level code. Kernels may wish to not include uttrack.c in distributions.

Removed all remnants of the obsolete ACPI_REPORT_* macros and the associated
code. (These macros have been replaced by the ACPI_ERROR and ACPI_WARNING macros.)

Code and Data Size: These are the sizes for the acpica.lib produced by the
Microsoft Visual C++ 6.0 32-bit compiler. The values do not include any
ACPI
driver or OSPM code. The debug version of the code includes the debug output
trace mechanism and has a much larger code and data size. Note that these
values will vary depending on the efficiency of the compiler and the
compiler options used during generation.

Previous Release:
Non-Debug Version: 81.1K Code, 17.8K Data, 98.9K Total
Debug Version: 161.6K Code, 65.7K Data, 227.3K Total
Current Release:
Non-Debug Version: 80.9K Code, 17.7K Data, 98.6K Total
Debug Version: 158.7K Code, 64.8K Data, 223.5K Total

2) iASL Compiler/Disassembler and Tools:

Implemented an ANSI C version of the acpixtract utility. This version will
automatically extract the DSDT and all SSDTs from the input acpidump text
file and dump the binary output to separate files. It can also display a
summary of the input file including the headers for each table found and
will extract any single ACPI table, with any signature. (See
source/tools/acpixtract)

10
March 2006. Summary of changes for version 20060310:

1) ACPI CA Core Subsystem:

Tagged all external interfaces to the subsystem with the new
ACPI_EXPORT_SYMBOL macro. This macro can be defined as necessary to assist
kernel integration. For Linux, the macro resolves to the EXPORT_SYMBOL
macro. The default definition is NULL.

Added the ACPI_THREAD_ID type for the return value from
AcpiOsGetThreadId.
This allows the host to define this as necessary to simplify kernel
integration. The default definition is ACPI_NATIVE_UINT.

Fixed two interpreter problems related to error processing, the deletion
of
objects, and placing invalid pointers onto the internal operator result
stack. BZ 6028, 6151 (Valery Podrezov)

Increased the reference count threshold where a warning is emitted for
large
reference counts in order to eliminate unnecessary warnings on systems
with
large namespaces (especially 64-bit.) Increased the value from 0x400 to
0x800.

Due
to universal disagreement as to the meaning of the 'c' in the
calloc()
function, the ACPI_MEM_CALLOCATE macro has been renamed to
ACPI_ALLOCATE_ZEROED so that the purpose of the interface is 'clear'.
ACPI_MEM_ALLOCATE and ACPI_MEM_FREE are renamed to ACPI_ALLOCATE and
ACPI_FREE.

Code and Data Size: These are the sizes for the acpica.lib produced by
the
Microsoft Visual C++ 6.0 32-bit compiler. The values do not include any
ACPI
driver or OSPM code. The debug version of the code includes the debug
output
trace mechanism and has a much larger code and data size. Note that these
values will vary depending on the efficiency of the compiler and the
compiler options used during generation.

Previous Release:
Non-Debug Version: 81.0K Code, 17.8K Data, 98.8K Total
Debug Version: 161.4K Code, 65.7K Data, 227.1K Total
Current Release:
Non-Debug Version: 81.1K Code, 17.8K Data, 98.9K Total
Debug Version: 161.6K Code, 65.7K Data, 227.3K Total

2)
iASL Compiler/Disassembler:

Disassembler: implemented support for symbolic resource descriptor

references. If a CreateXxxxField operator references a fixed offset
within
a
resource descriptor, a name is assigned to the descriptor and the offset
is
translated to the appropriate resource tag and pathname. The addition of
this support brings the disassembled code very close to the original ASL
source code and helps eliminate run-time errors when the disassembled
code
is modified (and recompiled) in such a way as to invalidate the original
fixed offsets.

Implemented support for a Descriptor Name as the last parameter to the
ASL
Register() macro. This parameter was inadvertently left out of the ACPI
specification, and will be added for ACPI 3.0b.

Fixed a problem where the use of the "_OSI" string (versus the full path
"_OSI") caused an internal compiler error. ("No back ptr to op")

Fixed a problem with the error message that occurs when an invalid string
is
used for
a _HID object (such as one with an embedded asterisk:
"*PNP010A".)
The correct message is now displayed.

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17 February 2006. Summary of changes for version 20060217:

1) ACPI CA Core Subsystem:

Implemented a change to the IndexField support to match the behavior of
the
Microsoft AML interpreter. The value written to the Index register is now
a
byte offset, no longer an index based upon the width of the Data
register.
This should fix IndexField problems seen on some machines where the Data
register is not exactly one byte wide. The ACPI specification will be
clarified on this point.

Fixed a problem where several resource descriptor types could overrun the
internal descriptor buffer due to size miscalculation: VendorShort,
VendorLong, and Interrupt. This was noticed on IA64 machines, but could
affect all platforms.

Fixed a problem where individual resource descriptors were misaligned

within
the internal buffer, causing alignment
faults on IA64 platforms.

Code and Data Size: These are the sizes for the acpica.lib produced by
the
Microsoft Visual C++ 6.0 32-bit compiler. The values do not include any
ACPI
driver or OSPM code. The debug version of the code includes the debug
output
trace mechanism and has a much larger code and data size. Note that these
values will vary depending on the efficiency of the compiler and the
compiler options used during generation.

Previous Release:
Non-Debug Version: 81.1K Code, 17.8K Data, 98.9K Total
Debug Version: 161.3K Code, 65.6K Data, 226.9K Total
Current Release:
Non-Debug Version: 81.0K Code, 17.8K Data, 98.8K Total
Debug Version: 161.4K Code, 65.7K Data, 227.1K Total

2) iASL Compiler/Disassembler:

Implemented support for new reserved names: _WDG and _WED are Microsoft
extensions for Windows Instrumentation Management, _TDL is a new ACPI-
defined method (Throttling Depth Limit.)

Fixed a problem where a zero-length VendorShort
or VendorLong resource
descriptor was incorrectly emitted as a descriptor of length one.

---
10 February 2006. Summary of changes for version 20060210:

1) ACPI CA Core Subsystem:

Removed a couple of extraneous ACPI_ERROR messages that appeared during
normal execution. These became apparent after the conversion from
ACPI_DEBUG_PRINT.

Fixed a problem where the CreateField operator could hang if the BitIndex
or
NumBits parameter referred to a named object. (Valery Podrezov, BZ 5359)

Fixed a problem where a DeRefOf operation on a buffer object incorrectly
failed with an exception. This also fixes a couple of related RefOf and
DeRefOf issues. (Valery Podrezov, BZ 5360/5392/5387)

Fixed a problem where the AE_BUFFER_LIMIT exception was returned instead of
AE_STRING_LIMIT on an out-of-bounds Index() operation. (Valery Podrezov, BZ
5480)

Implemented a memory cleanup at the end of the execution of each iteration
of an AML While() loop, preventing
the accumulation of outstanding
objects.
(Valery Podrezov, BZ 5427)

Eliminated a chunk of duplicate code in the object resolution code. (Valery
Podrezov, BZ 5336)

Fixed several warnings during the 64-bit code generation.

The AcpiSrc source code conversion tool now inserts one line of whitespace
after an if() statement that is followed immediately by a comment, improving
readability of the Linux code.

Code and Data Size: The current and previous library sizes for the core
subsystem are shown below. These are the code and data sizes for the
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. These
values do not include any ACPI driver or OSPM code. The debug version of the
code includes the debug output trace mechanism and has a much larger code
and data size. Note that these values will vary depending on the efficiency
of the compiler and the compiler options used during generation.

Previous Release:
Non-Debug Version: 81.0K Code, 17.9K
Data, 98.9K Total
Debug Version: 161.3K Code, 65.7K Data, 227.0K Total
Current Release:
Non-Debug Version: 81.1K Code, 17.8K Data, 98.9K Total
Debug Version: 161.3K Code, 65.6K Data, 226.9K Total

2) iASL Compiler/Disassembler:

Fixed a problem with the disassembly of a BankField operator with a complex
expression for the BankValue parameter.

---
27 January 2006. Summary of changes for version 20060127:

1) ACPI CA Core Subsystem:

Implemented support in the Resource Manager to allow unresolved namestring
references within resource package objects for the _PRT method. This support
is in addition to the previously implemented unresolved reference support
within the AML parser. If the interpreter slack mode is enabled, these
unresolved references will be passed through to the caller as a NULL package
entry.

Implemented and deployed new macros and functions for error and warning
messages across the subsystem. These macros are simpler and generate less
code than their predecessors. The new macros ACPI_ERROR, ACPI_EXCEPTION,
ACPI_WARNING, and ACPI_INFO replace the ACPI_REPORT_* macros. The older
macros remain defined to allow ACPI drivers time to migrate to the new
macros.

Implemented the ACPI_CPU_FLAGS type to simplify host OS integration of the
Acquire/Release Lock OSL interfaces.

Fixed a problem where Alias ASL operators are sometimes not correctly
resolved, in both the interpreter and the iASL compiler.

Fixed several problems with the implementation of the ConcatenateResTemplate
ASL operator. As per the ACPI specification, zero length buffers are now
treated as a single EndTag. One-length buffers always cause a fatal
exception. Non-zero length buffers that do not end with a full 2-byte EndTag
cause a fatal exception.

Fixed a possible structure overwrite in the AcpiGetObjectInfo external
interface. (With assistance from Thomas Renninger)

Code and Data Size: The current and previous library sizes for the core
subsystem are shown below. These are the code and data sizes for the

acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler.
These
values do not include any ACPI driver or OSPM code. The debug version of
the
code includes the debug output trace mechanism and has a much larger code
and data size. Note that these values will vary depending on the
efficiency
of the compiler and the compiler options used during generation.

Previous Release:
Non-Debug Version: 83.1K Code, 18.4K Data, 101.5K Total
Debug Version: 163.2K Code, 66.2K Data, 229.4K Total
Current Release:
Non-Debug Version: 81.0K Code, 17.9K Data, 98.9K Total
Debug Version: 161.3K Code, 65.7K Data, 227.0K Total

2) iASL Compiler/Disassembler:

Fixed an internal error that was generated for any forward references to
ASL
Alias objects.

---
13 January 2006. Summary of changes for version 20060113:

1)
ACPI CA Core Subsystem:

Added 2006 copyright to all module headers and signons. This affects
virtually every file in the ACPICA core subsystem, iASL compiler, and the
utilities.

Enhanced the ACPICA error reporting in order to simplify user migration
to
the non-debug version of ACPICA. Replaced all instances of the
ACPI_DEBUG_PRINT macro invoked at the ACPI_DB_ERROR and ACPI_DB_WARN
debug
levels with the ACPI_REPORT_ERROR and ACPI_REPORT_WARNING macros,
respectively. This preserves all error and warning messages in the non-
debug
version of the ACPICA code (this has been referred to as the "debug lite"
option.) Over 200 cases were converted to create a total of over 380
error/warning messages across the ACPICA code. This increases the code
and
data size of the default non-debug version of the code somewhat (about
13K),
but all error/warning reporting may be disabled if desired (and code

eliminated) by specifying the ACPI_NO_ERROR_MESSAGES compile-time configuration
option. The size of the debug version of ACPICA remains about
the same.

Fixed a memory leak within the AML Debugger "Set" command. One object was not properly deleted for every successful invocation of the command.

Code and Data Size: The current and previous library sizes for the core subsystem are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. These values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:
Non-Debug Version: 76.6K Code, 12.3K Data, 88.9K Total
Debug Version: 163.7K Code, 67.5K Data, 231.2K Total
Current Release:
Non-Debug Version: 83.1K Code, 18.4K Data, 101.5K Total
Debug Version: 163.2K Code, 66.2K Data, 229.4K Total

2) iASL Compiler/Disassembler:

The compiler now officially supports the ACPI 3.0a specification that was released on December 30, 2005. (Specification is available at www.acpi.info)

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16 December 2005. Summary of changes for version 20051216:

1) ACPI CA Core Subsystem:

Implemented optional support to allow unresolved names within ASL Package objects. A null object is inserted in the package when a named reference cannot be located in the current namespace. Enabled via the interpreter slack flag, this should eliminate AE_NOT_FOUND exceptions seen on machines that contain such code.

Implemented an optimization to the initialization sequence that can

improve
boot time. During ACPI device initialization, the _STA method is now run
if
and only if the _INI method exists. The _STA method is used to determine
if
the device is present; An _INI can only be run if _STA returns present,
but
it is a waste of time to run
the _STA method if the _INI does not exist.
(Prototype and assistance from Dong Wei)

Implemented use of the C99 uintptr_t for the pointer casting macros if it
is
available in the current compiler. Otherwise, the default (void *) cast
is
used as before.

Fixed some possible memory leaks found within the execution path of the
Break, Continue, If, and CreateField operators. (Valery Podrezov)

Fixed a problem introduced in the 20051202 release where an exception is
generated during method execution if a control method attempts to declare
another method.

Moved resource descriptor string constants that are used by both the AML
disassembler and AML debugger to the common utilities directory so that
these components are independent.

Implemented support in the AcpiExec utility (-e switch) to globally
ignore
exceptions during control method execution (method is not aborted.)

Added the rsinfo.c source file to the AcpiExec makefile for Linux/Unix
generation.

Code and Data Size:
The current and previous library sizes for the core
subsystem are shown below. These are the code and data sizes for the
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler.
These
values do not include any ACPI driver or OSPM code. The debug version of
the
code includes the debug output trace mechanism and has a much larger code
and data size. Note that these values will vary depending on the
efficiency
of the compiler and the compiler options used during generation.

Previous Release:

Non-Debug Version: 76.3K Code, 12.3K Data, 88.6K Total
Debug Version: 163.2K Code, 67.4K Data, 230.6K Total
Current Release:
Non-Debug Version: 76.6K Code, 12.3K Data, 88.9K Total
Debug Version: 163.7K Code, 67.5K Data, 231.2K Total

2) iASL Compiler/Disassembler:

Fixed a problem where a CPU stack overflow fault could occur if a recursive
method call was made from within a Return statement.

---
02 December 2005. Summary of changes for version 20051202:

1) ACPI CA Core Subsystem:

Modified the parsing of control methods to no longer create namespace
objects during the first pass of the parse. Objects are now created only
during the execute phase, at the moment the namespace creation operator is
encountered in the AML (Name, OperationRegion, CreateByteField, etc.) This
should eliminate ALREADY_EXISTS exceptions seen on some machines where
reentrant control methods are protected by an AML mutex. The mutex will now
correctly block multiple threads from attempting to create the same object
more than once.

Increased the number of available Owner Ids for namespace object tracking
from 32 to 255. This should eliminate the OWNER_ID_LIMIT exceptions seen on
some machines with a large number of ACPI tables (either static or
dynamic).

Fixed a problem with the AcpiExec utility where a fault could occur when the
-b switch (batch mode) is used.

Enhanced the namespace dump routine to output the owner ID for each
namespace object.

Code and Data Size: The current and previous library sizes for the core
subsystem are shown below. These are the code and data sizes for the

acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler.
These
values do not include any ACPI driver or OSPM code. The debug version of
the
code includes the debug output trace mechanism and has a much larger code
and data size. Note that these values will vary depending on the
efficiency
of the compiler and the compiler options used during generation.

Previous Release:
Non-Debug Version: 76.3K Code, 12.3K Data, 88.6K Total
Debug Version: 163.0K Code, 67.4K Data, 230.4K Total
Current Release:
Non-Debug Version: 76.3K Code, 12.3K Data, 88.6K Total
Debug Version: 163.2K Code, 67.4K Data, 230.6K Total

2) iASL Compiler/Disassembler:

Fixed a parse error during compilation of certain Switch/Case constructs.
To
simplify the parse, the grammar now
allows for multiple Default
statements
and this error is now detected and flagged during the analysis phase.

Disassembler: The disassembly now includes the contents of the original
table header within a comment at the start of the file. This includes the
name and version of the original ASL compiler.

---
17 November 2005. Summary of changes for version 20051117:

1) ACPI CA Core Subsystem:

Fixed a problem in the AML parser where the method thread count could be
decremented below zero if any errors occurred during the method parse
phase.
This should eliminate AE_AML_METHOD_LIMIT exceptions seen on some
machines.
This also fixed a related regression with the mechanism that detects and
corrects methods that cannot properly handle reentrancy (related to the
deployment of the new OwnerId mechanism.)

Eliminated the pre-parsing of control methods (to detect errors) during
table load. Related to the problem above, this was causing unwind
issues
if

any errors occurred during the parse, and it seemed to be overkill. A table
load should not be aborted if there are problems with any single control
method, thus rendering this feature rather pointless.

Fixed a problem with the new table-driven resource manager where an internal
buffer overflow could occur for small resource templates.

Implemented a new external interface, AcpiGetVendorResource. This interface
will find and return a vendor-defined resource descriptor within a _CRS or
_PRS method via an ACPI 3.0 UUID match. With assistance from Bjorn Helgaas.

Removed the length limit (200) on string objects as per the upcoming ACPI
3.0A specification. This affects the following areas of the interpreter: 1)
any implicit conversion of a Buffer to a String, 2) a String object result
of the ASL Concatenate operator, 3) the String object result of the ASL
ToString operator.

Fixed a problem in the Windows OS interface layer (OSL) where a WAIT_FOREVER
on a semaphore
 object would incorrectly timeout. This allows the
multithreading features of the AcpiExec utility to work properly under
Windows.

Updated the Linux makefiles for the iASL compiler and AcpiExec to include
the recently added file named "utresrc.c".

Code and Data Size: The current and previous library sizes for the core
subsystem are shown below. These are the code and data sizes for the
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. These
values do not include any ACPI driver or OSPM code. The debug version of the
code includes the debug output trace mechanism and has a much larger code
and data size. Note that these values will vary depending on the efficiency
of the compiler and the compiler options used during generation.

 Previous Release:
   Non-Debug Version: 76.2K Code, 12.3K Data, 88.5K Total
   Debug Version: 163.0K Code, 67.4K Data, 230.4K Total

Current Release:
Non-Debug Version: 76.3K Code, 12.3K Data, 88.6K Total

Debug Version: 163.0K Code, 67.4K Data, 230.4K Total

2) iASL Compiler/Disassembler:

Removed the limit (200) on string objects as per the upcoming ACPI 3.0A specification. For the iASL compiler, this means that string literals within the source ASL can be of any length.

Enhanced the listing output to dump the AML code for resource descriptors immediately after the ASL code for each descriptor, instead of in a block at the end of the entire resource template.

Enhanced the compiler debug output to dump the entire original parse tree constructed during the parse phase, before any transforms are applied to the tree. The transformed tree is dumped also.

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02 November 2005. Summary of changes for version 20051102:

1) ACPI CA Core Subsystem:

Modified the subsystem initialization sequence to improve GPE support. The GPE initialization has been split into two parts in order to defer execution of the _PRW methods (Power Resources for Wake) until after the hardware is fully initialized and the SCI handler is installed. This allows the _PRW methods to access fields protected by the Global Lock. This will fix systems where a NO_GLOBAL_LOCK exception has been seen during initialization.

Converted the ACPI internal object disassemble and display code within the AML debugger to fully table-driven operation, reducing code size and increasing maintainability.

Fixed a regression with the ConcatenateResTemplate() ASL operator introduced in the 20051021 release.

Implemented support for "local" internal ACPI object types within the
debugger "Object" command and the AcpiWalkNamespace external interfaces.
These local types include RegionFields, BankFields, IndexFields, Alias,
and
reference objects.

Moved common AML resource handling code into a new file, "utresrc.c".
This
code is shared by both the Resource Manager and the AML Debugger.

Code and Data Size: The current and previous library sizes for the core

subsystem are shown below. These are the code and data sizes for the
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler.
These
values do not include any ACPI driver or OSPM code. The debug version of
the
code includes the debug output trace mechanism and has a much larger code
and data size. Note that these values will vary depending on the
efficiency
of the compiler and the compiler options used during generation.

Previous Release:
Non-Debug Version: 76.1K Code, 12.2K Data, 88.3K Total
Debug Version: 163.5K Code, 67.0K Data, 230.5K Total
Current Release:
Non-Debug Version: 76.2K Code, 12.3K Data, 88.5K Total
Debug Version: 163.0K Code, 67.4K Data, 230.4K Total

2) iASL Compiler/Disassembler:

Fixed a problem with very large initializer lists (more than 4000
elements)
for both Buffer and Package objects where the parse stack could overflow.

Enhanced the pre-compile source code scan for non-ASCII characters to
ignore
characters
within comment fields. The scan is now always performed and is
no
longer optional, detecting invalid characters within a source file
immediately rather than during the parse phase or later.

Enhanced the ASL grammar definition to force early reductions on all
list-
style grammar elements so that the overall parse stack usage is greatly

reduced. This should improve performance and reduce the possibility of parse
stack overflow.

Eliminated all reduce/reduce conflicts in the iASL parser generation. Also,
with the addition of a %expected statement, the compiler generates from source with no warnings.

Fixed a possible segment fault in the disassembler if the input filename does not contain a "dot" extension (Thomas Renninger).

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21 October 2005. Summary of changes for version 20051021:

1) ACPI CA Core Subsystem:

Implemented support for the EM64T and other x86-64 processors. This essentially entails recognizing that these processors
support non-aligned
memory transfers. Previously, all 64-bit processors were assumed to lack hardware support for non-aligned transfers.

Completed conversion of the Resource Manager to nearly full table-driven operation. Specifically, the resource conversion code (convert AML to internal format and the reverse) and the debug code to dump internal resource descriptors are fully table-driven, reducing code and data size and
improving maintainability.

The OSL interfaces for Acquire and Release Lock now use a 64-bit flag word
on 64-bit processors instead of a fixed 32-bit word. (With assistance from
Alexey Starikovskiy)

Implemented support within the resource conversion code for the Type-Specific byte within the various ACPI 3.0 *WordSpace macros.

Fixed some issues within the resource conversion code for the type-specific
flags for both Memory and I/O address resource descriptors. For Memory, implemented support for the MTP and TTP flags. For I/O, split the TRS and

TTP flags into two separate fields.

Code and Data Size: The current and previous library sizes for the core subsystem are shown below. These are the code and data sizes for the

acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler.
These
values do not include any ACPI driver or OSPM code. The debug version of
the
code includes the debug output trace mechanism and has a much larger code
and data size. Note that these values will vary depending on the
efficiency
of the compiler and the compiler options used during generation.

Previous Release:
Non-Debug Version: 77.1K Code, 12.1K Data, 89.2K Total
Debug Version: 168.0K Code, 68.3K Data, 236.3K Total
Current Release:
Non-Debug Version: 76.1K Code, 12.2K Data, 88.3K Total
Debug Version: 163.5K Code, 67.0K Data, 230.5K Total

2) iASL Compiler/Disassembler:

Relaxed a compiler restriction that disallowed a ResourceIndex byte if
the
corresponding ResourceSource string was not also
present in a resource
descriptor declaration. This restriction caused problems with existing
AML/ASL code that includes the Index byte without the string. When such
AML
was disassembled, it could not be compiled without modification. Further,
the modified code created a resource template with a different size than
the
original, breaking code that used fixed offsets into the resource
template
buffer.

Removed a recent feature of the disassembler to ignore a lone
ResourceIndex
byte. This byte is now emitted if present so that the exact AML can be
reproduced when the disassembled code is recompiled.

Improved comments and text alignment for the resource descriptor code
emitted by the disassembler.

Implemented disassembler support for the ACPI 3.0 AccessSize field within
a
Register() resource descriptor.

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30 September 2005. Summary of changes for version 20050930:

1) ACPI CA Core Subsystem:

Completed a major overhaul of the Resource
Manager code - specifically,
optimizations in the area of the AML/internal resource conversion code.
The
code has been optimized to simplify and eliminate duplicated code, CPU
stack
use has been decreased by optimizing function parameters and local
variables, and naming conventions across the manager have been
standardized
for clarity and ease of maintenance (this includes function, parameter,
variable, and struct/typedef names.) The update may force changes in some
driver code, depending on how resources are handled by the host OS.

All Resource Manager dispatch and information tables have been moved to a
single location for clarity and ease of maintenance. One new file was
created, named "rsinfo.c".

The ACPI return macros (return_ACPI_STATUS, etc.) have been modified to
guarantee that the argument is not evaluated twice, making them less
prone
to macro side-effects. However, since there exists the possibility of
additional stack use if a particular compiler cannot
optimize them (such
as
in the debug generation case), the original macros are optionally
available.
Note that some invocations of the return_VALUE macro may now cause size
mismatch warnings; the return_UINT8 and return_UINT32 macros are provided
to
eliminate these. (From Randy Dunlap)

Implemented a new mechanism to enable debug tracing for individual
control
methods. A new external interface, AcpiDebugTrace, is provided to enable
this mechanism. The intent is to allow the host OS to easily enable and
disable tracing for problematic control methods. This interface can be
easily exposed to a user or debugger interface if desired. See the file
psxface.c for details.

AcpiUtCallocate will now return a valid pointer if a length of zero is
specified - a length of one is used and a warning is issued. This matches
the behavior of AcpiUtAllocate.

Code and Data Size: The current and previous library sizes for the core
subsystem are shown below. These are the code and data sizes

for the
acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler. These
values do not include any ACPI driver or OSPM code. The debug version of the
code includes the debug output trace mechanism and has a much larger code
and data size. Note that these values will vary depending on the efficiency
of the compiler and the compiler options used during generation.

Previous Release:
  Non-Debug Version: 77.5K Code, 12.0K Data, 89.5K Total
  Debug Version: 168.1K Code, 68.4K Data, 236.5K Total
Current Release:
  Non-Debug Version: 77.1K Code, 12.1K Data, 89.2K Total
  Debug Version: 168.0K Code, 68.3K Data, 236.3K Total

2) iASL Compiler/Disassembler:

A remark is issued if the effective compile-time length of a package or
buffer is zero. Previously, this was a warning.

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16 September 2005. Summary of changes for version 20050916:

1) ACPI CA Core Subsystem:

Fixed a problem within the Resource Manager
 where support for the Generic
Register descriptor was not fully implemented. This descriptor is now fully
recognized, parsed, disassembled, and displayed.

Completely restructured the Resource Manager code to utilize table-driven
dispatch and lookup, eliminating many of the large switch() statements. This
reduces overall subsystem code size and code complexity. Affects the
resource parsing and construction, disassembly, and debug dump output.

Cleaned up and restructured the debug dump output for all resource
descriptors. Improved readability of the output and reduced code size.

Fixed a problem where changes to internal data structures caused the
optional ACPI_MUTEX_DEBUG code to fail compilation if specified.

Code and Data Size: The current and previous library sizes for the core
subsystem are shown below. These are the code and data sizes for the

acpica.lib produced by the Microsoft Visual C++ 6.0 32-bit compiler.
These
values do not include any ACPI driver or OSPM code.
The debug version of
the
code includes the debug output trace mechanism and has a much larger code
and data size. Note that these values will vary depending on the
efficiency
of the compiler and the compiler options used during generation.

Previous Release:
Non-Debug Version: 78.4K Code, 11.8K Data, 90.2K Total
Debug Version: 169.6K Code, 69.9K Data, 239.5K Total
Current Release:
Non-Debug Version: 77.5K Code, 12.0K Data, 89.5K Total
Debug Version: 168.1K Code, 68.4K Data, 236.5K Total

2) iASL Compiler/Disassembler:

Updated the disassembler to automatically insert an EndDependentFn()
macro
into the ASL stream if this macro is missing in the original AML code,
simplifying compilation of the resulting ASL module.

Fixed a problem in the disassembler where a disassembled ResourceSource
string (within a large resource descriptor) was not surrounded by quotes
and
not followed by a comma, causing errors when the resulting ASL module was
compiled.
Also, escape sequences within a ResourceSource string are now
handled correctly (especially "\\")

---
02 September 2005. Summary of changes for version 20050902:

1) ACPI CA Core Subsystem:

Fixed a problem with the internal Owner ID allocation and deallocation
mechanisms for control method execution and recursive method invocation.
This should eliminate the OWNER_ID_LIMIT exceptions and "Invalid OwnerId"
messages seen on some systems. Recursive method invocation depth is
currently limited to 255. (Alexey Starikovskiy)

Completely eliminated all vestiges of support for the "module-level
executable code" until this support is fully implemented and debugged.
This
should eliminate the NO_RETURN_VALUE exceptions seen during table load on

some systems that invoke this support.

Fixed a problem within the resource manager code where the transaction flags
for a 64-bit address descriptor were handled incorrectly in the type-specific flag
byte.

Consolidated duplicate code within the address descriptor resource manager
code, reducing overall subsystem code size.

Fixed a fault when using the AML debugger "disassemble" command to disassemble individual control methods.

Removed references to the "release_current" directory within the Unix release package.

Code and Data Size: The current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler. These values do not include any ACPI driver or OSPM code. The debug version of the code includes
the debug output trace mechanism and has a much larger code and data size.
Note that these values will vary depending on the efficiency of the compiler
and the compiler options used during generation.

Previous Release:
Non-Debug Version: 78.6K Code, 11.7K Data, 90.3K Total
Debug Version: 170.0K Code, 69.9K Data, 239.9K Total
Current Release:
Non-Debug
Version: 78.4K Code, 11.8K Data, 90.2K Total
Debug Version: 169.6K Code, 69.9K Data, 239.5K Total

2) iASL Compiler/Disassembler:

Implemented an error check for illegal duplicate values in the interrupt and
dma lists for the following ASL macros: Dma(), Irq(), IrqNoFlags(), and Interrupt().

Implemented error checking for the Irq() and IrqNoFlags() macros to detect
too many values in the interrupt list (16 max) and invalid values in the

list (range 0 - 15)

The maximum length string literal within an ASL file is now restricted to 200 characters as per the ACPI specification.

Fixed a fault when using the -ln option (generate namespace listing).

Implemented an error check to determine if a DescriptorName within a resource descriptor has already been used within the current scope.

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15 August 2005. Summary of changes for version 20050815:

1) ACPI CA Core Subsystem:

Implemented a full bytewise compare to determine if a table load request is attempting to load a duplicate table. The compare is performed if the table signatures and table lengths match. This will allow different tables with the same OEM Table ID and revision to be loaded - probably against the ACPI specification, but discovered in the field nonetheless.

Added the changes.txt logfile to each of the zipped release packages.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:
Non-Debug Version: 78.6K Code, 11.7K Data, 90.3K Total
Debug Version: 167.0K Code, 69.9K Data, 236.9K Total
Current Release:
Non-Debug Version: 78.6K Code, 11.7K Data, 90.3K Total
Debug Version: 170.0K Code, 69.9K Data, 239.9K Total

2) iASL Compiler/Disassembler:

Fixed a problem where incorrect AML code could be generated for Package objects if optimization is disabled (via the -oa switch).

Fixed a problem with where incorrect AML code is generated for variable-length packages when the package length is not specified and the number of initializer values is greater than 255.

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29 July 2005. Summary of changes for version 20050729:

1) ACPI CA Core Subsystem:

Implemented support to ignore an attempt to install/load a particular ACPI table more than once. Apparently there exists BIOS code that repeatedly attempts to load the same SSDT upon certain events. With assistance from Venkatesh Pallipadi.

Restructured the main interface to the AML parser in order to correctly handle all exceptional conditions. This will prevent leakage of the OwnerId resource and should eliminate the AE_OWNER_ID_LIMIT exceptions seen on some machines. With assistance from Alexey Starikovskiy.

Support for "module level code" has been disabled in this version due to a number of issues that have appeared on various machines. The support can be enabled by defining ACPI_ENABLE_MODULE_LEVEL_CODE during subsystem compilation. When the issues are fully resolved, the code will be enabled by default again.

Modified the internal functions for debug print support to define the FunctionName parameter as a (const char *) for compatibility with compiler built-in macros such as __FUNCTION__, etc.

Linted the entire ACPICA source tree for both 32-bit and 64-bit.

Implemented support to display an object count summary for the AML Debugger commands Object and Methods.

Code and Data Size: Current and previous core subsystem library sizes are
shown below. These are the code and data sizes for
the acpica.lib
produced
by the Microsoft Visual C++ 6.0 compiler, and these values do not include
any ACPI driver or OSPM code. The debug version of the code includes the
debug output trace mechanism and has a much larger code and data size.
Note
that these values will vary depending on the efficiency of the compiler
and
the compiler options used during generation.

Previous Release:
Non-Debug Version: 78.6K Code, 11.6K Data, 90.2K Total
Debug Version: 170.0K Code, 69.7K Data, 239.7K Total
Current Release:
Non-Debug Version: 78.6K Code, 11.7K Data, 90.3K Total
Debug Version: 167.0K Code, 69.9K Data, 236.9K Total

2) iASL Compiler/Disassembler:

Fixed a regression that appeared in the 20050708 version of the compiler
where an error message was inadvertently emitted for invocations of the
_OSI
reserved control method.

---
08 July 2005. Summary of changes for version 20050708:

1) ACPI CA Core Subsystem:

The
use of the CPU stack in the debug version of the subsystem has been
considerably reduced. Previously, a debug structure was declared in every
function that used the debug macros. This structure has been removed in
favor of declaring the individual elements as parameters to the debug
functions. This reduces the cumulative stack use during nested execution
of
ACPI function calls at the cost of a small increase in the code size of
the
debug version of the subsystem. With assistance from Alexey Starikovskiy
and
Len Brown.

Added the ACPI_GET_FUNCTION_NAME macro to enable the compiler-dependent
headers to define a macro that will return the current function name at

runtime (such as __FUNCTION__ or _func_, etc.) The function name is used by the debug trace output. If ACPI_GET_FUNCTION_NAME is not defined in the compiler-dependent header, the function name is saved on the CPU stack (one pointer per function.) This mechanism is used because apparently there exists no standard ANSI-C defined macro that that returns the function name.

Redesigned and reimplemented the "Owner ID" mechanism used to track namespace objects created/deleted by ACPI tables and control method execution. A bitmap is now used to allocate and free the IDs, thus solving the wraparound problem present in the previous implementation. The size of the namespace node descriptor was reduced by 2 bytes as a result (Alexey Starikovskiy).

Removed the UINT32_BIT and UINT16_BIT types that were used for the bitfield flag definitions within the headers for the predefined ACPI tables. These have been replaced by UINT8_BIT in order to increase the code portability of the subsystem. If the use of UINT8 remains a problem, we may be forced to eliminate bitfields entirely because of a lack of portability.

Enhanced the performance of the AcpiUtUpdateObjectReference procedure. This is a frequently used function and this improvement increases the performance of the entire subsystem (Alexey Starikovskiy).

Fixed several possible memory leaks and the inverse - premature object deletion (Alexey Starikovskiy).

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:
Non-Debug Version: 78.6K Code, 11.5K Data, 90.1K Total
Debug Version: 165.2K Code, 69.6K Data, 234.8K Total
Current Release:
Non-Debug Version: 78.6K Code, 11.6K Data, 90.2K Total
Debug Version: 170.0K Code, 69.7K Data, 239.7K Total

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24 June 2005. Summary of changes for version 20050624:

1) ACPI CA Core Subsystem:

Modified the new OSL cache interfaces to use ACPI_CACHE_T as the type for the host-defined cache object. This allows the OSL implementation to define and type this object in any manner desired, simplifying the OSL implementation. For example, ACPI_CACHE_T is defined as kmem_cache_t for Linux, and should be defined in the OS-specific header file for other operating systems as required.

Changed the interface to AcpiOsAcquireObject to directly return the requested object as the function return (instead of ACPI_STATUS.) This change was made for performance reasons, since this is the purpose of the interface in the first place. AcpiOsAcquireObject is now similar to the AcpiOsAllocate interface.

Implemented a new AML debugger command named Businfo. This command displays information about all devices that have an associate _PRT object. The _ADR, _HID, _UID, and _CID are displayed for these devices.

Modified the initialization sequence in AcpiInitializeSubsystem to call the OSL interface AcpiOslInitialize first, before any local initialization. This change was required because the global initialization now calls OSL interfaces.

Enhanced the Dump command to display the entire contents of Package objects (including all sub-objects and their values.)

Restructured the code base to split some files because of size and/or because the code logically belonged in a separate file. New files are listed

below. All makefiles and project files included in the ACPI CA release
have
been updated.
  utilities/utcache.c   /* Local cache interfaces */
  utilities/utmutex.c   /* Local mutex support */
  utilities/utstate.c   /* State object support */
  interpreter/parser/psloop.c /* Main AML parse loop */

Code and Data Size: Current and previous core subsystem library sizes are
shown below. These are the code and data sizes for the acpica.lib
produced
by the Microsoft Visual C++ 6.0 compiler,
 and these values do not include
any ACPI driver or OSPM code. The debug version of the code includes the
debug output trace mechanism and has a much larger code and data size.
Note
that these values will vary depending on the efficiency of the compiler
and
the compiler options used during generation.

 Previous Release:
  Non-Debug Version: 78.3K Code, 11.6K Data, 89.9K Total
  Debug Version: 164.0K Code, 69.1K Data, 233.1K Total
 Current Release:
  Non-Debug Version: 78.6K Code, 11.5K Data, 90.1K Total
  Debug Version: 165.2K Code, 69.6K Data, 234.8K Total

2) iASL Compiler/Disassembler:

Fixed a regression introduced in version 20050513 where the use of a
Package
object within a Case() statement caused a compile time exception. The
original behavior has been restored (a Match() operator is emitted.)

---
17 June 2005. Summary of changes for version 20050617:

1) ACPI CA Core Subsystem:

Moved the object cache
 operations into the OS interface layer (OSL) to
allow
the host OS to handle these operations if desired (for example, the Linux
OSL will invoke the slab allocator). This support is optional; the
compile
time define ACPI_USE_LOCAL_CACHE may be used to utilize the original
cache

code in the ACPI CA core. The new OSL interfaces are shown below. See utalloc.c for an example implementation, and acpiosxf.h for the exact interface definitions. With assistance from Alexey Starikovskiy.

AcpiOsCreateCache
AcpiOsDeleteCache
AcpiOsPurgeCache
AcpiOsAcquireObject
AcpiOsReleaseObject

Modified the interfaces to AcpiOsAcquireLock and AcpiOsReleaseLock to return
and restore a flags parameter. This fits better with many OS lock models. Note: the current execution state (interrupt handler or not) is no longer passed to these interfaces. If necessary, the OSL must determine this state
by itself, a simple and fast operation. With assistance from Alexey Starikovskiy.

Fixed
a problem in the ACPI table handling where a valid XSDT was assumed present if the revision of the RSDP was 2 or greater. According to the ACPI
specification, the XSDT is optional in all cases, and the table manager therefore now checks for both an RSDP >=2 and a valid XSDT pointer. Otherwise, the RSDT pointer is used. Some ACPI 2.0 compliant BIOSs contain
only the RSDT.

Fixed an interpreter problem with the Mid() operator in the case of an input
string where the resulting output string is of zero length. It now correctly
returns a valid, null terminated string object instead of a string object with a null pointer.

Fixed a problem with the control method argument handling to allow a store
to an Arg object that already contains an object of type Device. The Device
object is now correctly overwritten. Previously, an error was returned.

Enhanced the debugger Find command to emit object values in addition to the
found object pathnames. The output format is the same
as the dump
namespace
command.

Enhanced the debugger Set command. It now has the ability to set the value
of any Named integer object in the namespace (Previously, only method locals
and args could be set.)

Code and Data Size: Current and previous core subsystem library sizes are
shown below. These are the code and data sizes for the acpica.lib produced
by the Microsoft Visual C++ 6.0 compiler, and these values do not include
any ACPI driver or OSPM code. The debug version of the code includes the
debug output trace mechanism and has a much larger code and data size. Note
that these values will vary depending on the efficiency of the compiler and
the compiler options used during generation.

Previous Release:
  Non-Debug Version: 78.1K Code, 11.6K Data, 89.7K Total
  Debug Version: 164.0K Code, 69.3K Data, 233.3K Total
Current Release:
  Non-Debug Version: 78.3K Code, 11.6K Data, 89.9K Total
  Debug Version: 164.0K Code, 69.1K Data, 233.1K Total

2)
iASL Compiler/Disassembler:

Fixed a regression in the disassembler where if/else/while constructs were
output incorrectly. This problem was introduced in the previous release
(20050526). This problem also affected the single-step disassembly in the
debugger.

Fixed a problem where compiling the reserved _OSI method would randomly (but
rarely) produce compile errors.

Enhanced the disassembler to emit compilable code in the face of incorrect
AML resource descriptors. If the optional ResourceSourceIndex is present,
but the ResourceSource is not, do not emit the ResourceSourceIndex in the
disassembly. Otherwise, the resulting code cannot be compiled without
errors.

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26 May 2005. Summary of changes for version 20050526:

1) ACPI CA Core Subsystem:

Implemented support to execute Type 1 and Type 2 AML opcodes appearing at the module level (not within a control method.) These opcodes are executed exactly once at the time the table is loaded. This type of code was legal up until the release of ACPI 2.0B (2002) and is now supported within ACPI CA in order to provide backwards compatibility with earlier BIOS implementations.
This eliminates the "Encountered executable code at module level" warning that was previously generated upon detection of such code.

Fixed a problem in the interpreter where an AE_NOT_FOUND exception could inadvertently be generated during the lookup of namespace objects in the second pass parse of ACPI tables and control methods. It appears that this problem could occur during the resolution of forward references to namespace objects.

Added the ACPI_MUTEX_DEBUG #ifdef to the AcpiUtReleaseMutex function, corresponding to the same #ifdef in the AcpiUtAcquireMutex function. This allows the deadlock detection debug code to be compiled out in the normal case, improving mutex performance (and overall subsystem performance) considerably.

Implemented a handful of miscellaneous fixes for possible memory leaks on error conditions and error handling control paths. These fixes were suggested by FreeBSD and the Coverity Prevent source code analysis tool.

Added a check for a null RSDT pointer in AcpiGetFirmwareTable (tbxfroot.c) to prevent a fault in this error case.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and

the compiler options used during generation.

Previous Release:
Non-Debug Version: 78.2K Code, 11.6K Data, 89.8K Total
Debug Version: 163.7K Code, 69.3K Data, 233.0K Total
Current Release:
Non-Debug Version: 78.1K Code, 11.6K
Data, 89.7K Total
Debug Version: 164.0K Code, 69.3K Data, 233.3K Total

2) iASL Compiler/Disassembler:

Implemented support to allow Type 1 and Type 2 ASL operators to appear at the module level (not within a control method.) These operators will be executed once at the time the table is loaded. This type of code was legal
up until the release of ACPI 2.0B (2002) and is now supported by the iASL compiler in order to provide backwards compatibility with earlier BIOS ASL
code.

The ACPI integer width (specified via the table revision ID or the -r override, 32 or 64 bits) is now used internally during compile-time constant
folding to ensure that constants are truncated to 32 bits if necessary. Previously, the revision ID value was only emitted in the AML table header.

An error message is now generated for the Mutex and Method operators if the
SyncLevel parameter is outside the legal range of 0 through 15.

Fixed a problem with the Method operator ParameterTypes
list handling
(ACPI
3.0). Previously, more than 2 types or 2 arguments generated a syntax error.
The actual underlying implementation of method argument typechecking is still under development, however.

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13 May 2005. Summary of changes for version 20050513:

1) ACPI CA Core Subsystem:

Implemented support for PCI Express root bridges -- added support for device

PNP0A08 in the root bridge search within AcpiEvPciConfigRegionSetup.

The interpreter now automatically truncates incoming 64-bit constants to 32
bits if currently executing out of a 32-bit ACPI table (Revision < 2). This
also affects the iASL compiler constant folding. (Note: as per below, the
iASL compiler no longer allows 64-bit constants within 32-bit tables.)

Fixed a problem where string and buffer objects with "static" pointers
(pointers to initialization data within an ACPI table) were not handled
consistently. The internal object copy operation now always copies the
data
to a newly allocated buffer, regardless of whether the source object is
static or not.

Fixed a problem with the FromBCD operator where an implicit result
conversion was improperly performed while storing the result to the target
operand. Since this is an "explicit conversion" operator, the implicit
conversion should never be performed on the output.

Fixed a problem with the CopyObject operator where a copy to an existing
named object did not always completely overwrite the existing object stored
at name. Specifically, a buffer-to-buffer copy did not delete the existing
buffer.

Replaced "InterruptLevel" with "InterruptNumber" in all GPE interfaces and
structs for consistency.

Code and Data Size: Current and previous core subsystem library sizes are
shown below. These are the code and data sizes for the acpica.lib produced
by the Microsoft Visual C++ 6.0 compiler, and these values do not include
any ACPI driver or OSPM code. The debug version of the code includes the
debug output trace mechanism and has a much larger code and data size. Note
that these values will vary depending on the efficiency of the compiler and
the compiler options used during generation.

Previous Release:
Non-Debug Version: 78.2K Code, 11.6K Data, 89.8K Total

Debug Version: 163.7K Code, 69.3K Data, 233.0K Total
Current Release: (Same sizes)
Non-Debug Version: 78.2K Code, 11.6K Data, 89.8K Total
Debug Version: 163.7K Code, 69.3K Data, 233.0K Total

2) iASL Compiler/Disassembler:

The compiler now emits a warning if an attempt is made to generate a 64-bit
integer constant from within a 32-bit ACPI table (Revision < 2). The integer
is truncated to 32 bits.

Fixed a problem with large package objects: if the static length of the
package is greater than 255, the "variable length package" opcode is
emitted. Previously, this caused an error. This requires an update to the
ACPI spec, since it currently (incorrectly) states that
packages larger
than
255 elements are not allowed.

The disassembler now correctly handles variable length packages and
packages
larger than 255 elements.

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08 April 2005. Summary of changes for version 20050408:

1) ACPI CA Core Subsystem:

Fixed three cases in the interpreter where an "index" argument to an ASL
function was still (internally) 32 bits instead of the required 64 bits.
This was the Index argument to the Index, Mid, and Match operators.

The "strupr" function is now permanently local (AcpiUtStrupr), since this
is
not a POSIX-defined function and not present in most kernel-level C
libraries. All references to the C library strupr function have been
removed
from the headers.

Completed the deployment of static functions/prototypes. All prototypes
with
the static attribute have been moved from the headers to the owning C
file.

Implemented an extract option (-e) for the AcpiBin utility (AML binary

utility). This option
allows the utility to extract individual ACPI
tables
from the output of AcpiDmp. It provides the same functionality of the
acpixtract.pl perl script without the worry of setting the correct perl
options. AcpiBin runs on Windows and has not yet been generated/validated
in
the Linux/Unix environment (but should be soon).

Updated and fixed the table dump option for AcpiBin (-d). This option
converts a single ACPI table to a hex/ascii file, similar to the output
of
AcpiDmp.

Code and Data Size: Current and previous core subsystem library sizes are
shown below. These are the code and data sizes for the acpica.lib
produced
by the Microsoft Visual C++ 6.0 compiler, and these values do not include
any ACPI driver or OSPM code. The debug version of the code includes the
debug output trace mechanism and has a much larger code and data size.
Note
that these values will vary depending on the efficiency of the compiler
and
the compiler options used during generation.

Previous
Release:
Non-Debug Version: 78.0K Code, 11.6K Data, 89.6K Total
Debug Version: 163.5K Code, 69.3K Data, 232.8K Total
Current Release:
Non-Debug Version: 78.2K Code, 11.6K Data, 89.8K Total
Debug Version: 163.7K Code, 69.3K Data, 233.0K Total

2) iASL Compiler/Disassembler:

Disassembler fix: Added a check to ensure that the table length found in
the
ACPI table header within the input file is not longer than the actual
input
file size. This indicates some kind of file or table corruption.

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29 March 2005. Summary of changes for version 20050329:

1) ACPI CA Core Subsystem:

An error is now generated if an attempt is made to create a Buffer Field

of
length zero (A CreateField with a length operand of zero.)

The interpreter now issues a warning whenever executable code at the module
level is detected during ACPI table load. This will give some idea of the prevalence of this type of code.

Implemented support
for references to named objects (other than control
methods) within package objects.

Enhanced package object output for the debug object. Package objects are now
completely dumped, showing all elements.

Enhanced miscellaneous object output for the debug object. Any object can now be written to the debug object (for example, a device object can be written, and the type of the object will be displayed.)

The "static" qualifier has been added to all local functions across both the
core subsystem and the iASL compiler.

The number of "long" lines (> 80 chars) within the source has been significantly reduced, by about 1/3.

Cleaned up all header files to ensure that all CA/iASL functions are prototyped (even static functions) and the formatting is consistent.

Two new header files have been added, acopcode.h and acnames.h.

Removed several obsolete functions that were no longer used.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These
are the code and data sizes for the acpica.lib
produced
by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note
that these values will vary depending on the efficiency of the compiler and
the compiler options used during generation.

Previous Release:
Non-Debug Version: 78.3K Code, 11.5K Data, 89.8K Total

Debug Version: 165.4K Code, 69.7K Data, 236.1K Total
Current Release:
Non-Debug Version: 78.0K Code, 11.6K Data, 89.6K Total
Debug Version: 163.5K Code, 69.3K Data, 232.8K Total

2) iASL Compiler/Disassembler:

Fixed a problem with the resource descriptor generation/support. For the ResourceSourceIndex and the ResourceSource fields, both must be present, or
both must be not present - can't have one without the other.

The compiler now returns non-zero from the main procedure if any errors have
occurred during the compilation.

---

09 March 2005. Summary of changes for version 20050309:

1) ACPI CA Core Subsystem:

The string-to-buffer implicit conversion code has been modified again after
a change to the ACPI specification. In order to match the behavior of the
other major ACPI implementation, the target buffer is no longer truncated if
the source string is smaller than an existing target buffer. This change requires an update to the ACPI spec, and should eliminate the recent AE_AML_BUFFER_LIMIT issues.

The "implicit return" support was rewritten to a new algorithm that solves
the general case. Rather than attempt to determine when a method is about to
exit, the result of every ASL operator is saved momentarily until the very
next ASL operator is executed. Therefore, no matter how the method exits, there will always be a saved implicit return value. This feature is only enabled with the AcpiGbl_EnableInterpreterSlack flag, and should eliminate
AE_AML_NO_RETURN_VALUE errors when enabled.

Implemented implicit conversion support for the predicate (operand) of the
If, Else, and While operators. String and Buffer arguments are automatically
converted to Integers.

Changed the string-to-integer conversion behavior to match the new ACPI errata: "If no integer object exists, a new integer is created. The ASCII string is interpreted as a hexadecimal constant. Each string character is interpreted as a hexadecimal value ('0'-'9', 'A'-'F', 'a', 'f'), starting with the first character as the most significant digit, and ending with the
first non-hexadecimal character or end-of-string." This means that the first
non-hex character terminates the conversion and this is the code that was changed.

Fixed a problem where the ObjectType operator would fail (fault) when used
on an Index of a Package which pointed to a null package element. The operator now properly returns zero (Uninitialized)
in this case.

Fixed a problem where the While operator used excessive memory by not properly popping the result stack during execution. There was no memory leak
after execution, however. (Code provided by Valery Podrezov.)

Fixed a problem where references to control methods within Package objects
caused the method to be invoked, instead of producing a reference object pointing to the method.

Restructured and simplified the pswalk.c module (AcpiPsDeleteParseTree) to
improve performance and reduce code size. (Code provided by Alexey Starikovskiy.)

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced
by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note
that these values will vary depending on
the efficiency of the compiler
and

the compiler options used during generation.

Previous Release:
Non-Debug Version: 78.3K Code, 11.5K Data, 89.8K Total
Debug Version: 165.4K Code, 69.6K Data, 236.0K Total
Current Release:
Non-Debug Version: 78.3K Code, 11.5K Data, 89.8K Total
Debug Version: 165.4K Code, 69.7K Data, 236.1K Total

2) iASL Compiler/Disassembler:

Fixed a problem with the Return operator with no arguments. Since the AML grammar for the byte encoding requires an operand for the Return opcode, the
compiler now emits a Return(Zero) for this case. An ACPI specification update has been written for this case.

For tables other than the DSDT, namepath optimization is automatically disabled. This is because SSDTs can be loaded anywhere in the namespace, the
compiler has no knowledge of where, and thus cannot optimize namepaths.

Added "ProcessorObj" to the ObjectTypeKeyword list. This object type was inadvertently omitted from the ACPI
specification, and will require an
update to the spec.

The source file scan for ASCII characters is now optional (-a). This change
was made because some vendors place non-ascii characters within comments. However, the scan is simply a brute-force byte compare to ensure all characters in the file are in the range 0x00 to 0x7F.

Fixed a problem with the CondRefOf operator where the compiler was inappropriately checking for the existence of the target. Since the point of
the operator is to check for the existence of the target at run-time, the compiler no longer checks for the target existence.

Fixed a problem where errors generated from the internal AML interpreter during constant folding were not handled properly, causing a fault.

Fixed a problem with overly aggressive range checking for the Stall operator. The valid range (max 255) is now only checked if the operand is of
type Integer. All other operand types cannot be statically checked.

Fixed a problem where control
method references within the RefOf,
DeRefOf,
and ObjectType operators were not treated properly. They are now treated
as
actual references, not method invocations.

Fixed and enhanced the "list namespace" option (-ln). This option was
broken
a number of releases ago.

Improved error handling for the Field, IndexField, and BankField
operators.
The compiler now cleanly reports and recovers from errors in the field
component (FieldUnit) list.

Fixed a disassembler problem where the optional ResourceDescriptor fields
TRS and TTP were not always handled correctly.

Disassembler - Comments in output now use "//" instead of "/*"

---
28 February 2005. Summary of changes for version 20050228:

1) ACPI CA Core Subsystem:

Fixed a problem where the result of an Index() operator (an object
reference) must increment the reference count on the target object for
the
life of the object reference.

Implemented AML Interpreter and Debugger support for
the new ACPI 3.0
Extended Address (IO, Memory, Space), QwordSpace, DwordSpace, and
WordSpace
resource descriptors.

Implemented support in the _OSI method for the ACPI 3.0 "Extended Address
Space Descriptor" string, indicating interpreter support for the
descriptors
above.

Implemented header support for the new ACPI 3.0 FADT flag bits.

Implemented header support for the new ACPI 3.0 PCI Express bits for the
PM1
status/enable registers.

Updated header support for the MADT processor local Apic struct and MADT platform interrupt source struct for new ACPI 3.0 fields.

Implemented header support for the SRAT and SLIT ACPI tables.

Implemented the -s switch in AcpiExec to enable the "InterpreterSlack" flag
at runtime.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced
by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The
debug version of the code includes the
debug output trace mechanism and has a much larger code and data size. Note
that these values will vary depending on the efficiency of the compiler and
the compiler options used during generation.

Previous Release:
Non-Debug Version: 78.2K Code, 11.5K Data, 89.7K Total
Debug Version: 164.9K Code, 69.2K Data, 234.1K Total
Current Release:
Non-Debug Version: 78.3K Code, 11.5K Data, 89.8K Total
Debug Version: 165.4K Code, 69.6K Data, 236.0K Total

2) iASL Compiler/Disassembler:

Fixed a problem with the internal 64-bit String-to-integer conversion with
strings less than two characters long.

Fixed a problem with constant folding where the result of the Index() operator can not be considered a constant. This means that Index() cannot be
a type3 opcode and this will require an update to the ACPI specification.

Disassembler: Implemented support for the TTP, MTP, and TRS resource descriptor fields. These fields
were inadvertently ignored and not output in
the disassembly of the resource descriptor.

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11 February 2005. Summary of changes for version 20050211:

1) ACPI CA Core Subsystem:

Implemented ACPI 3.0 support for implicit conversion within the Match()
operator. MatchObjects can now be of type integer, buffer, or string
instead
of just type integer. Package elements are implicitly converted to the
type
of the MatchObject. This change aligns the behavior of Match() with the
behavior of the other logical operators (LLess(), etc.) It also requires
an
errata change to the ACPI specification as this support was intended for
ACPI 3.0, but was inadvertently omitted.

Fixed a problem with the internal implicit "to buffer" conversion.
Strings
that are converted to buffers will cause buffer truncation if the string
is
smaller than the target buffer. Integers that are converted to buffers
will
not cause buffer truncation, only zero extension
 (both as per the ACPI
spec.) The problem was introduced when code was added to truncate the
buffer, but this should not be performed in all cases, only the string
case.

Fixed a problem with the Buffer and Package operators where the
interpreter
would get confused if two such operators were used as operands to an ASL
operator (such as LLess(Buffer(1){0},Buffer(1){1}). The internal result
stack was not being popped after the execution of these operators,
resulting
in an AE_NO_RETURN_VALUE exception.

Fixed a problem with constructs of the form Store(Index(...),...). The
reference object returned from Index was inadvertently resolved to an
actual
value. This problem was introduced in version 20050114 when the behavior
of
Store() was modified to restrict the object types that can be used as the
source operand (to match the ACPI specification.)

Reduced excessive stack use within the AcpiGetObjectInfo procedure.

Added a fix to aclinux.h to allow generation of AcpiExec
 on Linux.

Updated the AcpiSrc utility to add the FADT_DESCRIPTOR_REV2_MINUS struct.

Code and Data Size: Current and previous core subsystem library sizes are
shown below. These are the code and data sizes for the acpica.lib
produced
by the Microsoft Visual C++ 6.0 compiler, and these values do not include
any ACPI driver or OSPM code. The debug version of the code includes the
debug output trace mechanism and has a much larger code and data size.
Note
that these values will vary depending on the efficiency of the compiler
and
the compiler options used during generation.

Previous Release:
Non-Debug Version: 78.1K Code, 11.5K Data, 89.6K Total
Debug Version: 164.8K Code, 69.2K Data, 234.0K Total
Current Release:
Non-Debug Version: 78.2K Code, 11.5K Data, 89.7K Total
Debug Version: 164.9K Code, 69.2K Data, 234.1K Total

2) iASL Compiler/Disassembler:

Fixed a code generation problem in the constant folding optimization code
where incorrect code
was generated if a constant was reduced to a buffer
object (i.e., a reduced type 5 opcode.)

Fixed a typechecking problem for the ToBuffer operator. Caused by an
incorrect return type in the internal opcode information table.

---
25 January 2005. Summary of changes for version 20050125:

1) ACPI CA Core Subsystem:

Fixed a recently introduced problem with the Global Lock where the
underlying semaphore was not created. This problem was introduced in
version 20050114, and caused an AE_AML_NO_OPERAND exception during an
Acquire() operation on _GL.

The local object cache is now optional, and is disabled by default. Both
AcpiExec and the iASL compiler enable the cache because they run in user
mode and this enhances their performance. #define
ACPI_ENABLE_OBJECT_CACHE
to enable the local cache.

Fixed an issue in the internal function AcpiUtEvaluateObject concerning

the
optional "implicit return" support where an error was returned if no

return
object was expected, but one was implicitly returned. AE_OK is now
returned
in this case and the implicitly returned object is deleted.
AcpiUtEvaluateObject is only occasionally used, and only to execute
reserved
methods such as _STA and _INI where the return type is known up front.

Fixed a few issues with the internal convert-to-integer code. It now
returns
an error if an attempt is made to convert a null string, a string of only
blanks/tabs, or a zero-length buffer. This affects both implicit
conversion
and explicit conversion via the ToInteger() operator.

The internal debug code in AcpiUtAcquireMutex has been commented out. It
is
not needed for normal operation and should increase the performance of
the
entire subsystem. The code remains in case it is needed for debug
purposes
again.

The AcpiExec source and makefile are included in the Unix/Linux package
for
the first time.

Code and Data Size: Current and previous core subsystem library sizes are
shown
below. These are the code and data sizes for the acpica.lib
produced
by the Microsoft Visual C++ 6.0 compiler, and these values do not include
any ACPI driver or OSPM code. The debug version of the code includes the
debug output trace mechanism and has a much larger code and data size.
Note
that these values will vary depending on the efficiency of the compiler
and
the compiler options used during generation.

Previous Release:
Non-Debug Version: 78.4K Code, 11.5K Data, 89.9K Total
Debug Version: 165.4K Code, 69.4K Data, 234.8K Total
Current Release:
Non-Debug Version: 78.1K Code, 11.5K Data, 89.6K Total
Debug Version: 164.8K Code, 69.2K Data, 234.0K Total

2) iASL Compiler/Disassembler:

Switch/Case support: A warning is now issued if the type of the Switch value
cannot be determined at compile time. For example, Switch(Arg0) will
generate the warning, and the type is assumed to be an integer. As per the
ACPI spec, use a construct
such as Switch(ToInteger(Arg0)) to eliminate the
warning.

Switch/Case support: Implemented support for buffer and string objects as
the switch value. This is an ACPI 3.0 feature, now that LEqual supports
buffers and strings.

Switch/Case support: The emitted code for the LEqual() comparisons now uses
the switch value as the first operand, not the second. The case value is now
the second operand, and this allows the case value to be implicitly
converted to the type of the switch value, not the other way around.

Switch/Case support: Temporary variables are now emitted immediately within
the control method, not at the global level. This means that there are now
36 temps available per-method, not 36 temps per-module as was the case with
the earlier implementation (_T_0 through _T_9 and _T_A through _T_Z.)

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14 January 2005. Summary of changes for version 20050114:

Added 2005 copyright to all module headers. This affects every module in
the core subsystem, iASL compiler, and the utilities.

1) ACPI CA Core Subsystem:

Fixed an issue with the String-to-Buffer conversion code where the string
null terminator was not included in the buffer after conversion, but there
is existing ASL that assumes the string null terminator is included. This is
the root of the ACPI_AML_BUFFER_LIMIT regression. This problem was
introduced in the previous version when the code was updated to correctly

set the converted buffer size as per the ACPI specification. The ACPI spec
is ambiguous and will be updated to specify that the null terminator must be
included in the converted buffer. This also affects the ToBuffer() ASL operator.

Fixed a problem with the Mid() ASL/AML operator where it did not work correctly on Buffer objects. Newly created sub-buffers were not being marked
as initialized.

Fixed a problem in AcpiTbFindTable where incorrect string compares were performed on the OemId and OemTableId table header fields. These fields
are
not null terminated, so strncmp is now used instead of strcmp.

Implemented a restriction on the Store() ASL/AML operator to align the behavior with the ACPI specification. Previously, any object could be used
as the source operand. Now, the only objects that may be used are Integers,
Buffers, Strings, Packages, Object References, and DDB Handles. If necessary, the original behavior can be restored by enabling the EnableInterpreterSlack flag.

Enhanced the optional "implicit return" support to allow an implicit return
value from methods that are invoked externally via the AcpiEvaluateObject interface. This enables implicit returns from the _STA and _INI methods, for example.

Changed the Revision() ASL/AML operator to return the current version of the
AML interpreter, in the YYYYMMDD format. Previously, it incorrectly returned
the supported ACPI version (This is the function of the _REV method).

Updated the _REV predefined method to return the currently supported
version
of ACPI, now 3.

Implemented batch mode option for the AcpiExec utility (-b).

Code and Data Size: Current and previous core subsystem library sizes are

shown below. These are the code and data sizes for the acpica.lib
produced
by the Microsoft Visual C++ 6.0 compiler, and these values do not include
any ACPI driver or OSPM code. The debug version of the code includes the
debug output trace mechanism and has a much larger code and data size.
Note
that these values will vary depending on the efficiency of the compiler
and
the compiler options used during generation.

Previous Release:
Non-Debug Version: 78.3K Code, 11.5K Data, 89.8K Total
Debug Version: 165.3K Code, 69.4K Data, 234.7K Total
Current Release:
Non-Debug Version: 78.4K Code, 11.5K Data, 89.9K Total
Debug Version: 165.4K Code, 69.4K Data, 234.8K Total

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10 December 2004. Summary of changes for version 20041210:

ACPI
3.0 support is nearing completion in both the iASL compiler and the
ACPI CA core subsystem.

1) ACPI CA Core Subsystem:

Fixed a problem in the ToDecimalString operator where the resulting
string
length was incorrectly calculated. The length is now calculated exactly,
eliminating incorrect AE_STRING_LIMIT exceptions.

Fixed a problem in the ToHexString operator to allow a maximum 200
character
string to be produced.

Fixed a problem in the internal string-to-buffer and buffer-to-buffer
copy
routine where the length of the resulting buffer was not truncated to the
new size (if the target buffer already existed).

Code and Data Size: Current and previous core subsystem library sizes are
shown below. These are the code and data sizes for the acpica.lib
produced
by the Microsoft Visual C++ 6.0 compiler, and these values do not include
any ACPI driver or OSPM code. The debug version of the code includes the
debug output trace mechanism and has a much larger code
and data size.
Note

that these values will vary depending on the efficiency of the compiler
and
the compiler options used during generation.

Previous Release:
Non-Debug Version: 78.3K Code, 11.5K Data, 89.8K Total
Debug Version: 164.7K Code, 68.5K Data, 233.2K Total
Current Release:
Non-Debug Version: 78.3K Code, 11.5K Data, 89.8K Total
Debug Version: 165.3K Code, 69.4K Data, 234.7K Total

2) iASL Compiler/Disassembler:

Implemented the new ACPI 3.0 resource template macros - DWordSpace, ExtendedIO, ExtendedMemory, ExtendedSpace, QWordSpace, and WordSpace. Includes support in the disassembler.

Implemented support for the new (ACPI 3.0) parameter to the Register
macro,
AccessSize.

Fixed a problem where the _HE resource name for the Interrupt macro was referencing bit 0 instead of bit 1.

Implemented check for maximum 255 interrupts in the Interrupt macro.

Fixed a problem with the predefined resource descriptor names where
incorrect
AML code was generated if the offset within the resource buffer
was 0 or 1. The optimizer shortened the AML code to a single byte opcode but did not update the surrounding package lengths.

Changes to the Dma macro: All channels within the channel list must be
in
the range 0-7. Maximum 8 channels can be specified. BusMaster operand is optional (default is BusMaster).

Implemented check for maximum 7 data bytes for the VendorShort macro.

The ReadWrite parameter is now optional for the Memory32 and similar
macros.

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03 December 2004. Summary of changes for version 20041203:

1) ACPI CA Core Subsystem:

The low-level field insertion/extraction code (exfldio) has been completely
rewritten to eliminate unnecessary complexity, bugs, and boundary conditions.

Fixed a problem in the ToInteger, ToBuffer, ToHexString, and ToDecimalString
operators where the input operand could be inadvertently deleted if no conversion was necessary (e.g.,
if the input to ToInteger was an Integer
object.)

Fixed a problem with the ToDecimalString and ToHexString where an incorrect
exception code was returned if the resulting string would be > 200 chars. AE_STRING_LIMIT is now returned.

Fixed a problem with the Concatenate operator where AE_OK was always returned, even if the operation failed.

Fixed a problem in oswinxf (used by AcpiExec and iASL) to allow > 128 semaphores to be allocated.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced
by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note
that these values will vary depending on the efficiency of the compiler and
the compiler options used during generation.

Previous Release:
Non-Debug Version: 78.5K
Code, 11.5K Data, 90.0K Total
Debug Version: 165.2K Code, 68.6K Data, 233.8K Total
Current Release:
Non-Debug Version: 78.3K Code, 11.5K Data, 89.8K Total
Debug Version: 164.7K Code, 68.5K Data, 233.2K Total

2) iASL Compiler/Disassembler:

Fixed typechecking for the ObjectType and SizeOf operators. Problem was recently introduced in 20041119.

Fixed a problem with the ToUUID macro where the upper nybble of each buffer
byte was inadvertently set to zero.

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19 November 2004. Summary of changes for version 20041119:

1) ACPI CA Core Subsystem:

Fixed a problem in the internal ConvertToInteger routine where new integers
were not truncated to 32 bits for 32-bit ACPI tables. This routine converts
buffers and strings to integers.

Implemented support to store a value to an Index() on a String object. This
is an ACPI 2.0 feature that had not yet been implemented.

Implemented new behavior for storing objects
 to individual package
elements
(via the Index() operator). The previous behavior was to invoke the implicit
conversion rules if an object was already present at the index. The new
behavior is to simply delete any existing object and directly store the new
object. Although the ACPI specification seems unclear on this subject, other
ACPI implementations behave in this manner. (This is the root of the
AE_BAD_HEX_CONSTANT issue.)

Modified the RSDP memory scan mechanism to support the extended checksum for
ACPI 2.0 (and above) RSDPs. Note that the search continues until a valid
RSDP signature is found with a valid checksum.

Code and Data Size: Current and previous core subsystem library sizes are
shown below. These are the code and data sizes for the acpica.lib produced
by the Microsoft Visual C++ 6.0 compiler, and these values do not include
any ACPI driver or OSPM code. The debug version of the code includes the
debug output trace mechanism and has a much larger
 code and data size.
Note
that these values will vary depending on the efficiency of the compiler and
the compiler options used during generation.

Previous Release:
Non-Debug Version: 78.5K Code, 11.5K Data, 90.0K Total
Debug Version: 165.2K Code, 68.6K Data, 233.8K Total
Current Release:
Non-Debug Version: 78.5K Code, 11.5K Data, 90.0K Total
Debug Version: 165.2K Code, 68.6K Data, 233.8K Total

2) iASL Compiler/Disassembler:

Fixed a missing semicolon in the aslcompiler.y file.

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05 November 2004. Summary of changes for version 20041105:

1) ACPI CA Core Subsystem:

Implemented support for FADT revision 2. This was an interim table (between
ACPI 1.0 and ACPI 2.0) that adds support for the FADT reset register.

Implemented optional support to allow uninitialized LocalX and ArgX variables in a control method. The variables are initialized to an Integer
object with a value of zero. This support
is enabled by setting the
AcpiGbl_EnableInterpreterSlack flag to TRUE.

Implemented support for Integer objects for the SizeOf operator. Either 4
or 8 is returned, depending on the current integer size (32-bit or 64-bit,
depending on the parent table revision).

Fixed a problem in the implementation of the SizeOf and ObjectType operators
where the operand was resolved to a value too early, causing incorrect return values for some objects.

Fixed some possible memory leaks during exceptional conditions.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced
by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size.

Note
that these values will vary depending on the efficiency of the compiler
and
the compiler options used
during generation.

Previous Release:
Non-Debug Version: 78.0K Code, 11.5K Data, 89.5K Total
Debug Version: 164.8K Code, 68.6K Data, 233.4K Total
Current Release:
Non-Debug Version: 78.5K Code, 11.5K Data, 90.0K Total
Debug Version: 165.2K Code, 68.6K Data, 233.8K Total

2) iASL Compiler/Disassembler:

Implemented support for all ACPI 3.0 reserved names and methods.

Implemented all ACPI 3.0 grammar elements in the front-end, including
support for semicolons.

Implemented the ACPI 3.0 Function() and ToUUID() macros

Fixed a problem in the disassembler where a Scope() operator would not be
emitted properly if the target of the scope was in another table.

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15 October 2004. Summary of changes for version 20041015:

Note: ACPI CA is currently undergoing an in-depth and complete formal
evaluation to test/verify the following areas. Other suggestions are
welcome. This will result in an increase in the frequency
of releases and
the number of bug fixes in the next few months.
- Functional tests for all ASL/AML operators
- All implicit/explicit type conversions
- Bit fields and operation regions
- 64-bit math support and 32-bit-only "truncated" math support
- Exceptional conditions, both compiler and interpreter
- Dynamic object deletion and memory leaks
- ACPI 3.0 support when implemented
- External interfaces to the ACPI subsystem

1) ACPI CA Core Subsystem:

Fixed two alignment issues on 64-bit platforms - within debug statements
in

AcpiEvGpeDetect and AcpiEvCreateGpeBlock. Removed references to the Address
field within the non-aligned ACPI generic address structure.

Fixed a problem in the Increment and Decrement operators where incorrect operand resolution could result in the inadvertent modification of the original integer when the integer is passed into another method as an argument and the arg is then incremented/decremented.

Fixed a problem in the FromBCD
operator where the upper 32-bits of a 64-
bit
BCD number were truncated during conversion.

Fixed a problem in the ToDecimal operator where the length of the resulting
string could be set incorrectly too long if the input operand was a Buffer
object.

Fixed a problem in the Logical operators (LLess, etc.) where a NULL byte (0)
within a buffer would prematurely terminate a compare between buffer objects.

Added a check for string overflow (>200 characters as per the ACPI specification) during the Concatenate operator with two string operands.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced
by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note
that these values will vary depending on the efficiency of
the compiler
and
the compiler options used during generation.

Previous Release:
Non-Debug Version: 77.8K Code, 11.5K Data, 89.3K Total
Debug Version: 164.6K Code, 68.5K Data, 233.1K Total
Current Release:
Non-Debug Version: 78.0K Code, 11.5K Data, 89.5K Total
Debug Version: 164.8K Code, 68.6K Data, 233.4K Total

2) iASL Compiler/Disassembler:

Allow the use of the ObjectType operator on uninitialized Locals and Args
(returns 0 as per the ACPI specification).

Fixed a problem where the compiler would fault if there was a syntax
error
in the FieldName of all of the various CreateXXXField operators.

Disallow the use of lower case letters within the EISAID macro, as per
the
ACPI specification. All EISAID strings must be of the form "UUUNNNN"
Where
U is an uppercase letter and N is a hex digit.

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06 October 2004. Summary of changes for version 20041006:

1) ACPI CA Core Subsystem:

Implemented support
 for the ACPI 3.0 Timer operator. This ASL function
implements a 64-bit timer with 100 nanosecond granularity.

Defined a new OSL interface, AcpiOsGetTimer. This interface is used to
implement the ACPI 3.0 Timer operator. This allows the host OS to
implement
the timer with the best clock available. Also, it keeps the core
subsystem
out of the clock handling business, since the host OS (usually) performs
this function.

Fixed an alignment issue on 64-bit platforms. The HwLowLevelRead(Write)
functions use a 64-bit address which is part of the packed ACPI Generic
Address Structure. Since the structure is non-aligned, the alignment
macros
are now used to extract the address to a local variable before use.

Fixed a problem where the ToInteger operator assumed all input strings
were
hexadecimal. The operator now handles both decimal strings and hex
strings
(prefixed with "0x").

Fixed a problem where the string length in the string object created as a
result of the internal

ConvertToString procedure could be incorrect. This
potentially affected all implicit conversions and also the
ToDecimalString
and ToHexString operators.

Fixed two problems in the ToString operator. If the length parameter was
zero, an incorrect string object was created and the value of the input
length parameter was inadvertently changed from zero to Ones.

Fixed a problem where the optional ResourceSource string in the
ExtendedIRQ
resource macro was ignored.

Simplified the interfaces to the internal division functions, reducing
code
size and complexity.

Code and Data Size: Current and previous core subsystem library sizes are
shown below. These are the code and data sizes for the acpica.lib
produced
by the Microsoft Visual C++ 6.0 compiler, and these values do not include
any ACPI driver or OSPM code. The debug version of the code includes the
debug output trace mechanism and has a much larger code and data size.
Note
that these values will vary depending on the
efficiency of the compiler
and
the compiler options used during generation.

Previous Release:
Non-Debug Version: 77.9K Code, 11.4K Data, 89.3K Total
Debug Version: 164.5K Code, 68.3K Data, 232.8K Total
Current Release:
Non-Debug Version: 77.8K Code, 11.5K Data, 89.3K Total
Debug Version: 164.6K Code, 68.5K Data, 233.1K Total

2) iASL Compiler/Disassembler:

Implemented support for the ACPI 3.0 Timer operator.

Fixed a problem where the Default() operator was inadvertently ignored in
a
Switch/Case block. This was a problem in the translation of the Switch
statement to If...Else pairs.

Added support to allow a standalone Return operator, with no parentheses
(or

operands).

Fixed a problem with code generation for the ElseIf operator where the translated Else...If parse tree was improperly constructed leading to the loss of some code.

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22 September 2004. Summary of changes for version 20040922:

1)
ACPI CA Core Subsystem:

Fixed a problem with the implementation of the LNot() operator where "Ones"
was not returned for the TRUE case. Changed the code to return Ones instead
of (!Arg) which was usually 1. This change affects iASL constant folding for
this operator also.

Fixed a problem in AcpiUtInitializeBuffer where an existing buffer was not
initialized properly -- Now zero the entire buffer in this case where the buffer already exists.

Changed the interface to AcpiOsSleep from (UINT32 Seconds, UINT32 Milliseconds) to simply (ACPI_INTEGER Milliseconds). This simplifies all related code considerably. This will require changes/updates to all OS interface layers (OSLs.)

Implemented a new external interface, AcpiInstallExceptionHandler, to allow
a system exception handler to be installed. This handler is invoked upon any
run-time exception that occurs during control method execution.

Added support for the DSDT in AcpiTbFindTable. This allows the DataTableRegion()
operator to access the local copy of the DSDT.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced
by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note
that these values will vary depending on the efficiency of the compiler

and
the compiler options used during generation.

Previous Release:
Non-Debug Version: 77.8K Code, 11.4K Data, 89.2K Total
Debug Version: 164.2K Code, 68.2K Data, 232.4K Total
Current Release:
Non-Debug Version: 77.9K Code, 11.4K Data, 89.3K Total
Debug Version: 164.5K Code, 68.3K Data, 232.8K Total

2) iASL Compiler/Disassembler:

Fixed a problem with constant folding and the LNot operator. LNot was
returning 1 in the TRUE case, not Ones as per
the ACPI specification.
This
could result in the generation of an incorrect folded/reduced constant.

End-Of-File is now allowed within a "//"-style comment. A parse error no
longer occurs if such a comment is at the very end of the input ASL
source
file.

Implemented the "-r" option to override the Revision in the table header.
The initial use of this option will be to simplify the evaluation of the
AML
interpreter by allowing a single ASL source module to be compiled for
either
32-bit or 64-bit integers.

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27 August 2004. Summary of changes for version 20040827:

1) ACPI CA Core Subsystem:

- Implemented support for implicit object conversion in the non-numeric
logical operators (LEqual, LGreater, LGreaterEqual, LLess, LLessEqual,
and
LNotEqual.) Any combination of Integers/Strings/Buffers may now be used;
the second operand is implicitly converted on the fly to match the type
of
the first operand. For example:

LEqual
(Source1, Source2)

Source1 and Source2 must each evaluate to an integer, a string, or a buffer.
The data type of Source1 dictates the required type of Source2. Source2 is
implicitly converted if necessary to match the type of Source1.

- Updated and corrected the behavior of the string conversion support. The
rules concerning conversion of buffers to strings (according to the ACPI
specification) are as follows:

ToDecimalString - explicit byte-wise conversion of buffer to string of
decimal values (0-255) separated by commas. ToHexString - explicit byte-wise
conversion of buffer to string of hex values (0-FF) separated by commas.
ToString - explicit byte-wise conversion of buffer to string. Byte-by-byte
copy with no transform except NULL terminated. Any other implicit buffer-to-
string conversion - byte-wise conversion of buffer to string of hex values
(0-FF) separated by spaces.

- Fixed typo in definition of AcpiGbl_EnableInterpreterSlack.

- Fixed a problem in AcpiNsGetPathnameLength
where the returned length
was
one byte too short in the case of a node in the root scope. This could
cause a fault during debug output.

- Code and Data Size: Current and previous core subsystem library sizes are
shown below. These are the code and data sizes for the acpica.lib produced
by the Microsoft Visual C++ 6.0 compiler, and these values do not include
any ACPI driver or OSPM code. The debug version of the code includes the
debug output trace mechanism and has a much larger code and data size. Note
that these values will vary depending on the efficiency of the compiler and
the compiler options used during generation.

Previous Release:
Non-Debug Version: 77.9K Code, 11.5K Data, 89.4K Total
Debug Version: 164.1K Code, 68.3K Data, 232.4K Total
Current Release:
Non-Debug Version: 77.8K Code, 11.4K Data, 89.2K Total

Debug Version: 164.2K Code, 68.2K Data, 232.4K Total

2) iASL Compiler/Disassembler:

- Fixed
a Linux generation error.

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16 August 2004. Summary of changes for version 20040816:

1) ACPI CA Core Subsystem:

Designed and implemented support within the AML interpreter for the so-called "implicit return". This support returns the result of the last ASL operation within a control method, in the absence of an explicit Return() operator. A few machines depend on this behavior, even though it is not explicitly supported by the ASL language. It is optional support that can be enabled at runtime via the AcpiGbl_EnableInterpreterSlack flag.

Removed support for the PCI_Config address space from the internal low level hardware interfaces (AcpiHwLowLevelRead and AcpiHwLowLevelWrite). This support was not used internally, and would not work correctly anyway because the PCI bus number and segment number were not supported. There are separate interfaces for PCI configuration space access because of the unique interface.

Code and
Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:
Non-Debug Version: 78.0K Code, 11.5K Data, 89.5K Total
Debug Version: 164.1K Code, 68.2K Data, 232.3K Total

Current Release:
Non-Debug Version: 77.9K Code, 11.5K Data, 89.4K Total
Debug Version: 164.1K Code, 68.3K Data, 232.4K Total

2) iASL Compiler/Disassembler:

Fixed a problem where constants in ASL expressions at the root level (not within a control method) could be inadvertently truncated during code generation. This problem was introduced in the 20040715 release.

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15 July 2004. Summary of changes for version 20040715:

1) ACPI CA Core Subsystem:

Restructured the internal HW GPE interfaces to pass/track the current state of interrupts (enabled/disabled) in order to avoid possible deadlock and increase flexibility of the interfaces.

Implemented a "lexicographical compare" for String and Buffer objects within the logical operators -- LGreater, LLess, LGreaterEqual, and LLessEqual -- as per further clarification to the ACPI specification. Behavior is similar to C library "strcmp".

Completed a major reduction in CPU stack use for the AcpiGetFirmwareTable external function. In the 32-bit non-debug case, the stack use has been reduced from 168 bytes to 32 bytes.

Deployed a new run-time configuration flag, AcpiGbl_EnableInterpreterSlack, whose purpose is to allow the AML interpreter to forgive certain bad AML constructs. Default setting is FALSE.

Implemented the first use of AcpiGbl_EnableInterpreterSlack in the Field IO support code. If enabled, it allows field access to go beyond the end of a region definition if the field is within the region length rounded up to the next access width boundary (a common coding error.)

Renamed OSD_HANDLER to ACPI_OSD_HANDLER, and OSD_EXECUTION_CALLBACK to ACPI_OSD_EXEC_CALLBACK for consistency with other ACPI symbols. Also, these
symbols are lowercase by the latest version of the AcpiSrc tool.

The prototypes for the PCI interfaces in acpiosxf.h have been updated to rename "Register" to simply "Reg" to prevent certain compilers from complaining.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced
by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much
larger code and data size.
Note
that these values will vary depending on the efficiency of the compiler and
the compiler options used during generation.

Previous Release:
Non-Debug Version: 77.8K Code, 11.5K Data, 89.3K Total
Debug Version: 163.8K Code, 68.2K Data, 232.0K Total
Current Release:
Non-Debug Version: 78.0K Code, 11.5K Data, 89.5K Total
Debug Version: 164.1K Code, 68.2K Data, 232.3K Total

2) iASL Compiler/Disassembler:

Implemented full support for Package objects within the Case() operator. Note: The Break() operator is currently not supported within Case blocks (TermLists) as there is some question about backward compatibility with ACPI
1.0 interpreters.

Fixed a problem where complex terms were not supported properly within the
Switch() operator.

Eliminated extraneous warning for compiler-emitted reserved names of the form "_T_x". (Used in Switch/Case operators.)

Eliminated optimization messages for "_T_x" objects

and small constants
within the DefinitionBlock operator.

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15 June 2004. Summary of changes for version 20040615:

1) ACPI CA Core Subsystem:

Implemented support for Buffer and String objects (as per ACPI 2.0) for the
following ASL operators: LEqual, LGreater, LLess, LGreaterEqual, and LLessEqual.

All directory names in the entire source package are lower case, as they were in earlier releases.

Implemented "Disassemble" command in the AML debugger that will disassemble
a single control method.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced
by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note
that these values will vary depending on the efficiency of
the compiler
and
the compiler options used during generation.

Previous Release:
Non-Debug Version: 77.7K Code, 11.5K Data, 89.2K Total
Debug Version: 163.3K Code, 67.2K Data, 230.5K Total

Current Release:
Non-Debug Version: 77.8K Code, 11.5K Data, 89.3K Total
Debug Version: 163.8K Code, 68.2K Data, 232.0K Total

2) iASL Compiler/Disassembler:

Implemented support for Buffer and String objects (as per ACPI 2.0) for the
following ASL operators: LEqual, LGreater, LLess, LGreaterEqual, and LLessEqual.

All directory names in the entire source package are lower case, as they were in earlier releases.

Fixed a fault when using the -g or -d<nofilename> options if the FADT was not found.

Fixed an issue with the Windows version of the compiler where later versions of Windows place the FADT in the registry under the name "FADT" and not "FACP" as earlier versions did. This applies when using the -g or -d<nofilename> options. The compiler now looks for both strings as necessary.

Fixed a problem with compiler namepath optimization where a namepath within the Scope() operator could not be optimized if the namepath was a subpath of the current scope path.

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27 May 2004. Summary of changes for version 20040527:

1) ACPI CA Core Subsystem:

Completed a new design and implementation for EBDA (Extended BIOS Data Area) support in the RSDP scan code. The original code improperly scanned for the EBDA by simply scanning from memory location 0 to 0x400. The correct method is to first obtain the EBDA pointer from within the BIOS data area, then scan 1K of memory starting at the EBDA pointer. There appear to be few if any machines that place the RSDP in the EBDA, however.

Integrated a fix for a possible fault during evaluation of BufferField arguments. Obsolete code that was causing the problem was removed.

Found and fixed a problem in the Field Support Code where data could be corrupted on a bit field read that starts on an aligned boundary but does not end on an aligned boundary. Merged the read/write "datum length" calculation code into a common procedure.

Rolled in a couple of changes to the FreeBSD-specific header.

Code and Data Size: Current and previous core subsystem library sizes are
shown below. These are the code and data sizes for the acpica.lib
produced
by the Microsoft Visual C++ 6.0 compiler, and these values do not include
any ACPI driver or OSPM code. The debug version of the code includes the
debug output trace mechanism and has a much larger code and data size.
Note
that these values will vary depending on the efficiency of the compiler
and
the compiler options used during generation.

Previous Release:
Non-Debug Version: 77.6K Code, 11.5K Data, 89.1K Total
Debug Version: 163.2K Code, 67.2K Data, 230.4K Total
Current Release:
Non-Debug Version: 77.7K Code, 11.5K Data, 89.2K Total
Debug
Version: 163.3K Code, 67.2K Data, 230.5K Total

2) iASL Compiler/Disassembler:

Fixed a generation warning produced by some overly-verbose compilers for
a
64-bit constant.

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14 May 2004. Summary of changes for version 20040514:

1) ACPI CA Core Subsystem:

Fixed a problem where hardware GPE enable bits sometimes not set properly
during and after GPE method execution. Result of 04/27 changes.

Removed extra "clear all GPEs" when sleeping/waking.

Removed AcpiHwEnableGpe and AcpiHwDisableGpe, replaced by the single
AcpiHwWriteGpeEnableReg. Changed a couple of calls to the functions above
to
the new AcpiEv* calls as appropriate.

ACPI_OS_NAME was removed from the OS-specific headers. The default name
is
now "Microsoft Windows NT" for maximum compatibility. However this can
be
changed by modifying the acconfig.h file.

Allow a single invocation of AcpiInstallNotifyHandler for a handler that traps both types of notifies (System, Device). Use ACPI_ALL_NOTIFY flag.

Run _INI methods on ThermalZone objects. This is against the ACPI specification, but there is apparently ASL code in the field that has these _INI methods, and apparently "other" AML interpreters execute them.

Performed a full 16/32/64 bit lint that resulted in some small changes.

Added a sleep simulation command to the AML debugger to test sleep code.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release:
Non-Debug Version: 77.6K Code, 11.5K Data, 89.1K Total
Debug Version: 162.9K Code, 67.0K Data, 229.9K Total
Current Release:
Non-Debug Version: 77.6K Code, 11.5K Data, 89.1K Total
Debug Version: 163.2K Code, 67.2K Data, 230.4K Total

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27 April 2004. Summary of changes for version 20040427:

1) ACPI CA Core Subsystem:

Completed a major overhaul of the GPE handling within ACPI CA. There are now three types of GPEs: wake-only, runtime-only, and combination wake/run. The only GPEs allowed to be combination wake/run are for button-style devices such as a control-method power button, control-method sleep button, or a notebook lid switch. GPEs that have an _Lxx or _Exx method and are not referenced by any _PRW methods are marked for "runtime" and hardware enabled. Any GPE that is referenced by a _PRW method is marked for "wake"

(and disabled at runtime). However, at sleep time, only those GPEs that have been specifically enabled for wake via the AcpiEnableGpe interface

will
actually be hardware enabled.

A new external interface has been added, AcpiSetGpeType(), that is meant to
be used by device drivers to force a GPE to a particular type. It will be
especially useful for the drivers for the button devices mentioned above.

Completed restructuring of the ACPI CA initialization sequence so that default operation region handlers are installed before GPEs are initialized
and the _PRW methods are executed. This will prevent errors when the _PRW
methods attempt to access system memory or I/O space.

GPE enable/disable no longer reads the GPE enable register. We now keep the
enable info for runtime and wake separate and in the GPE_EVENT_INFO. We thus no longer depend on the hardware to maintain these bits.

Always clear the wake status and fixed/GPE status bits before sleep, even for state S5.

Improved the AML debugger output for displaying the GPE blocks and their current status.

Added new strings for the _OSI method, of the
form "Windows 2001 SPx"
where
x = 0,1,2,3,4.

Fixed a problem where the physical address was incorrectly calculated when
the Load() operator was used to directly load from an Operation Region (vs.
loading from a Field object.) Also added check for minimum table length for
this case.

Fix for multiple mutex acquisition. Restore original thread SyncLevel on mutex release.

Added ACPI_VALID_SXDS flag to the AcpiGetObjectInfo interface for consistency with the other fields returned.

Shrunk the ACPI_GPE_EVENT_INFO structure by 40%. There is one such structure for each GPE in the system, so the size of this structure is important.

CPU stack requirement reduction: Cleaned up the method execution and object
evaluation paths so that now a parameter structure is passed, instead of copying the various method parameters over and over again.

In evregion.c: Correctly exit and reenter the interpreter region if and only if dispatching an operation region request to a user-installed

handler.
Do not exit/reenter when dispatching to a default handler (e.g., default system memory or I/O handlers)

Notes for updating drivers for the new GPE support. The following changes
must be made to ACPI-related device drivers that are attached to one or more
GPEs: (This information will be added to the ACPI CA Programmer Reference.)

1) AcpiInstallGpeHandler no longer automatically enables the GPE, you must
explicitly call AcpiEnableGpe.
2) There is a new interface called AcpiSetGpeType. This should be called before enabling the GPE. Also, this interface will automatically disable the GPE if it is currently enabled.
3) AcpiEnableGpe no longer supports a GPE type flag.

Specific drivers that must be changed:
1) EC driver:
AcpiInstallGpeHandler (NULL, GpeNum, ACPI_GPE_EDGE_TRIGGERED, AeGpeHandler, NULL);
AcpiSetGpeType (NULL, GpeNum, ACPI_GPE_TYPE_RUNTIME);
AcpiEnableGpe (NULL, GpeNum, ACPI_NOT_ISR);

2) Button Drivers (Power, Lid, Sleep):
Run _PRW
method under parent device
If _PRW exists: /* This is a control-method button */
Extract GPE number and possibly GpeDevice
AcpiSetGpeType (GpeDevice, GpeNum, ACPI_GPE_TYPE_WAKE_RUN);
AcpiEnableGpe (GpeDevice, GpeNum, ACPI_NOT_ISR);

For all other devices that have _PRWs, we automatically set the GPE type
to
ACPI_GPE_TYPE_WAKE, but the GPE is NOT automatically (wake) enabled.
This
must be done on a selective basis, usually requiring some kind of user
app
to allow the user to pick the wake devices.

Code and Data Size: Current and previous core subsystem library sizes are
shown below. These are the code and data sizes for the acpica.lib
produced
by the Microsoft Visual C++ 6.0 compiler, and these values do not include
any ACPI driver or OSPM code. The debug version of the code includes the
debug output trace mechanism and has a much larger code and data size.
Note
that these values will vary depending on the efficiency of the compiler
and
the compiler options
used during generation.

Previous Release:
Non-Debug Version: 77.0K Code, 11.4K Data, 88.4K Total
Debug Version: 161.0K Code, 66.3K Data, 227.3K Total
Current Release:

Non-Debug Version: 77.6K Code, 11.5K Data, 89.1K Total
Debug Version: 162.9K Code, 67.0K Data, 229.9K Total

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02 April 2004. Summary of changes for version 20040402:

1) ACPI CA Core Subsystem:

Fixed an interpreter problem where an indirect store through an ArgX
parameter was incorrectly applying the "implicit conversion rules" during
the store. From the ACPI specification: "If the target is a method local
or
argument (LocalX or ArgX), no conversion is performed and the result is
stored directly to the target". The new behavior is to disable implicit
conversion during ALL stores to an ArgX.

Changed the behavior of the _PRW method scan to ignore any and all errors
returned by a given _PRW. This prevents the scan from aborting
from the
failure of any single _PRW.

Moved the runtime configuration parameters from the global init procedure to
static variables in acglobal.h. This will allow the host to override the
default values easily.

Code and Data Size: Current and previous core subsystem library sizes are
shown below. These are the code and data sizes for the acpica.lib produced
by the Microsoft Visual C++ 6.0 compiler, and these values do not include
any ACPI driver or OSPM code. The debug version of the code includes the
debug output trace mechanism and has a much larger code and data size. Note
that these values will vary depending on the efficiency of the compiler and
the compiler options used during generation.

Previous Release:
Non-Debug Version: 76.9K Code, 11.4K Data, 88.3K Total
Debug Version: 160.8K Code, 66.1K Data, 226.9K Total
Current Release:
Non-Debug Version: 77.0K Code, 11.4K Data, 88.4K Total
Debug Version: 161.0K Code, 66.3K Data,
227.3K Total

2) iASL Compiler/Disassembler:

iASL now fully disassembles SSDTs. However, External() statements are not
generated automatically for unresolved symbols at this time. This is a
planned feature for future implementation.

Fixed a scoping problem in the disassembler that occurs when the type of the
target of a Scope() operator is overridden. This problem caused an
incorrectly nested internal namespace to be constructed.

Any warnings or errors that are emitted during disassembly are now commented
out automatically so that the resulting file can be recompiled without any
hand editing.

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26 March 2004. Summary of changes for version 20040326:

1) ACPI CA Core Subsystem:

Implemented support for "wake" GPEs via interaction between GPEs and the
_PRW methods. Every GPE that is pointed to by one or more _PRWs is
identified as a WAKE GPE and by default will no longer be enabled at
runtime. Previously, we were blindly
enabling all GPEs with a
corresponding
_Lxx or _Exx method - but most of these turn out to be WAKE GPEs anyway.
We
believe this has been the cause of thousands of "spurious" GPEs on some
systems.

This new GPE behavior is can be reverted to the original behavior (enable
ALL GPEs at runtime) via a runtime flag.

Fixed a problem where aliased control methods could not access objects
properly. The proper scope within the namespace was not initialized
(transferred to the target of the aliased method) before executing the
target method.

Fixed a potential race condition on internal object deletion on the
return
object in AcpiEvaluateObject.

Integrated a fix for resource descriptors where both _MEM and _MTP were
being extracted instead of just _MEM. (i.e. bitmask was incorrectly too
wide, 0x0F instead of 0x03.)

Added a special case for ACPI_ROOT_OBJECT in AcpiUtGetNodeName,
preventing
a
fault in some cases.

Updated Notify() values for debug statements in evmisc.c

Return
proper status from AcpiUtMutexInitialize, not just simply AE_OK.

Code and Data Size: Current and previous core subsystem library sizes are
shown below. These are the code and data sizes for the acpica.lib
produced
by the Microsoft Visual C++ 6.0 compiler, and these values do not include
any ACPI driver or OSPM code. The debug version of the code includes the
debug output trace mechanism and has a much larger code and data size.
Note
that these values will vary depending on the efficiency of the compiler
and
the compiler options used during generation.

Previous Release:

Non-Debug Version: 76.5K Code, 11.3K Data, 87.8K Total
Debug Version: 160.3K Code, 66.0K Data, 226.3K Total
Current Release:
Non-Debug Version: 76.9K Code, 11.4K Data, 88.3K Total
Debug Version: 160.8K Code, 66.1K Data, 226.9K Total

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11 March 2004. Summary of changes for version 20040311:

1) ACPI CA Core Subsystem:

Fixed
a problem where errors occurring during the parse phase of control method execution did not abort cleanly. For example, objects created and installed in the namespace were not deleted. This caused all subsequent invocations of the method to return the AE_ALREADY_EXISTS exception.

Implemented a mechanism to force a control method to "Serialized" execution
if the method attempts to create namespace objects. (The root of the AE_ALREADY_EXISTS problem.)

Implemented support for the predefined _OSI "internal" control method. Initial supported strings are "Linux", "Windows 2000", "Windows 2001", and
"Windows 2001.1", and can be easily upgraded for new strings as necessary.
This feature will allow "other" operating systems to execute the fully tested, "Windows" code path through the ASL code

Global Lock Support: Now allows multiple acquires and releases with any internal thread. Removed concept of "owning thread" for this special mutex.

Fixed two functions that were inappropriately
declaring large objects on
the
CPU stack: PsParseLoop, NsEvaluateRelative. Reduces the stack usage during
method execution considerably.

Fixed a problem in the ACPI 2.0 FACS descriptor (actbl2.h) where the S4Bios_f field was incorrectly defined as UINT32 instead of UINT32_BIT.

Fixed a problem where AcpiEvGpeDetect would fault if there were no GPEs

defined on the machine.

Implemented two runtime options: One to force all control method execution
to "Serialized" to mimic Windows behavior, another to disable _OSI support
if it causes problems on a given machine.

Code and Data Size: Current and previous core subsystem library sizes are
shown below. These are the code and data sizes for the acpica.lib produced
by the Microsoft Visual C++ 6.0 compiler, and these values do not include
any ACPI driver or OSPM code. The debug version of the code includes the
debug output trace mechanism and has a much larger code and data size. Note
that these values will
vary depending on the efficiency of the compiler and
the compiler options used during generation.

Previous Release:
Non-Debug Version: 74.8K Code, 10.1K Data, 84.9K Total
Debug Version: 158.7K Code, 65.1K Data, 223.8K Total
Current Release:
Non-Debug Version: 76.5K Code, 11.3K Data, 87.8K Total
Debug Version: 160.3K Code, 66.0K Data, 226.3K Total

2) iASL Compiler/Disassembler:

Fixed an array size problem for FreeBSD that would cause the compiler to fault.

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20 February 2004. Summary of changes for version 20040220:

1) ACPI CA Core Subsystem:

Implemented execution of _SxD methods for Device objects in the GetObjectInfo interface.

Fixed calls to _SST method to pass the correct arguments.

Added a call to _SST on wake to restore to "working" state.

Check for End-Of-Buffer failure case in the WalkResources interface.

Integrated fix for 64-bit alignment issue in acglobal.h by moving two

structures
to the beginning of the file.

After wake, clear GPE status register(s) before enabling GPEs.

After wake, clear/enable power button. (Perhaps we should clear/enable all
fixed events upon wake.)

Fixed a couple of possible memory leaks in the Namespace manager.

Integrated latest acnetbsd.h file.

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11 February 2004. Summary of changes for version 20040211:

1) ACPI CA Core Subsystem:

Completed investigation and implementation of the call-by-reference mechanism for control method arguments.

Fixed a problem where a store of an object into an indexed package could fail if the store occurs within a different method than the method that created the package.

Fixed a problem where the ToDecimal operator could return incorrect results.

Fixed a problem where the CopyObject operator could fail on some of the more
obscure objects (e.g., Reference objects.)

Improved the output of the Debug object to display buffer, package, and index objects.

Fixed
a problem where constructs of the form "RefOf (ArgX)" did not return
the expected result.

Added permanent ACPI_REPORT_ERROR macros for all instances of the ACPI_AML_INTERNAL exception.

Integrated latest version of acfreebsd.h

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16 January 2004. Summary of changes for version 20040116:

The purpose of this release is primarily to update the copyright years in each module, thus causing a huge number of diffs. There are a few small functional changes, however.

1) ACPI CA Core Subsystem:

Improved error messages when there is a problem finding one or more of the
required base ACPI tables

Reintroduced the definition of APIC_HEADER in actbl.h

Changed definition of MADT_ADDRESS_OVERRIDE to 64 bits (actbl.h)

Removed extraneous reference to NewObj in dsmthdat.c

2) iASL compiler

Fixed a problem introduced in December that disabled the correct disassembly
of Resource Templates

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03 December 2003. Summary of changes for version 20031203:

1) ACPI CA Core Subsystem:

Changed the initialization of Operation Regions during subsystem init to perform two entire walks of the ACPI namespace; The first to initialize the regions themselves, the second to execute the _REG methods. This fixed some interdependencies across _REG methods found on some machines.

Fixed a problem where a Store(Local0, Local1) could simply update the object reference count, and not create a new copy of the object if the Local1 is uninitialized.

Implemented support for the _SST reserved method during sleep transitions.

Implemented support to clear the SLP_TYP and SLP_EN bits when waking up, this is apparently required by some machines.

When sleeping, clear the wake status only if SleepState is not S5.

Fixed a problem in AcpiRsExtendedIrqResource() where an incorrect pointer arithmetic advanced a string pointer too far.

Fixed a problem in AcpiTbGetTablePtr() where a garbage pointer could be returned
if the requested table has not been loaded.

Within the support for IRQ resources, restructured the handling of the active and edge/level bits.

Fixed a few problems in AcpiPsxExecute() where memory could be leaked under certain error conditions.

Improved error messages for the cases where the ACPI mode could not be entered.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release (20031029):
Non-Debug Version: 74.4K Code, 10.1K Data, 84.5K Total
Debug Version: 158.3K Code, 65.0K Data, 223.3K Total
Current Release:
Non-Debug Version: 74.8K Code, 10.1K Data, 84.9K Total
Debug Version: 158.7K Code, 65.1K Data, 223.8K Total

2) iASL Compiler/Disassembler:

Implemented a fix for the iASL disassembler where a bad index was generated. This was most noticeable on 64-bit platforms

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29 October 2003. Summary of changes for version 20031029:

1) ACPI CA Core Subsystem:

Fixed a problem where a level-triggered GPE with an associated _Lxx control method was incorrectly cleared twice.

Fixed a problem with the Field support code where an access can

occur beyond the end-of-region if the field is non-aligned but
extends to the very end of the parent region (resulted in an
AE_AML_REGION_LIMIT exception.)

Fixed a problem with ACPI Fixed Events where an RT Clock handler
would not get invoked on an RTC event. The RTC event bitmasks for
the PM1 registers were not being initialized properly.

Implemented support for executing _STA and _INI methods
for
Processor objects. Although this is currently not part of the
ACPI specification, there is existing ASL code that depends on the
init-time execution of these methods.

Implemented and deployed a GetDescriptorName function to decode
the various types of internal descriptors. Guards against null
descriptors during debug output also.

Implemented and deployed a GetNodeName function to extract the 4-
character namespace node name. This function simplifies the debug
and error output, as well as guarding against null pointers during
output.

Implemented and deployed the ACPI_FORMAT_UINT64 helper macro to
simplify the debug and error output of 64-bit integers. This
macro replaces the HIDWORD and LODWORD macros for dumping these
integers.

Updated the implementation of the Stall() operator to only call
AcpiOsStall(), and also return an error if the operand is larger
than 255. This preserves the required behavior of not
relinquishing the processor, as would happen if AcpiOsSleep() was
called
for "long stalls".

Constructs of the form "Store(LocalX,LocalX)" where LocalX is not
initialized are now treated as NOOPs.

Cleaned up a handful of warnings during 64-bit generation.

Fixed a reported error where and incorrect GPE number was passed
to the GPE dispatch handler. This value is only used for error
output, however. Used this opportunity to clean up and streamline
the GPE dispatch code.

Code and Data Size: Current and previous core subsystem library
sizes are shown below. These are the code and data sizes for the
acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and

these values do not include any ACPI driver or OSPM code. The

debug version of the code includes the debug output trace
mechanism and has a much larger code and data size. Note that
these values will vary depending on the efficiency of the compiler
and the compiler options used during generation.

Previous Release (20031002):
Non-Debug Version: 74.1K Code, 9.7K Data, 83.8K Total
Debug Version: 157.9K Code, 64.8K Data, 222.7K Total
Current Release:
Non-Debug Version: 74.4K Code, 10.1K Data, 84.5K Total
Debug Version: 158.3K Code, 65.0K Data, 223.3K Total

2) iASL Compiler/Disassembler:

Updated the iASL compiler to return an error if the operand to the
Stall() operator is larger than 255.

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02 October 2003. Summary of changes for version 20031002:

1) ACPI CA Core Subsystem:

Fixed a problem with Index Fields where the index was not
incremented for fields that require multiple writes to the
index/data registers (Fields that are wider than the data
register.)

Fixed a problem with all Field objects where a write could go
beyond the end-of-field if the field was larger than the access
granularity and therefore required multiple writes to complete the
request. An extra write beyond the end of the field could happen
inadvertently.

Fixed a problem with Index Fields where a BUFFER_OVERFLOW
error
would incorrectly be returned if the width of the Data Register
was larger than the specified field access width.

Completed fixes for LoadTable() and Unload() and verified their
operation. Implemented full support for the "DdbHandle" object
throughout the ACPI CA subsystem.

Implemented full support for the MADT and ECDT tables in the ACPI

CA header files. Even though these tables are not directly
consumed by ACPI CA, the header definitions are useful for ACPI
device drivers.

Integrated resource descriptor fixes posted to the Linux ACPI
list. This included checks for minimum descriptor length, and
support for trailing NULL strings within descriptors that have
optional string elements.

Code and Data Size: Current and previous core subsystem library
sizes are shown below. These are the code and data sizes for the
acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and
these values do not include any ACPI driver or OSPM code. The
debug version of the code includes
 the debug output trace
mechanism and has a much larger code and data size. Note that
these values will vary depending on the efficiency of the compiler
and the compiler options used during generation.

 Previous Release (20030918):
   Non-Debug Version: 73.9K Code,   9.7K Data,   83.6K Total
   Debug Version: 157.3K Code, 64.5K Data, 221.8K Total
 Current Release:
   Non-Debug Version: 74.1K Code,   9.7K Data,   83.8K Total
   Debug Version: 157.9K Code, 64.8K Data, 222.7K Total

2) iASL Compiler:

Implemented detection of non-ASCII characters within the input
source ASL file. This catches attempts to compile binary (AML)
files early in the compile, with an informative error message.

Fixed a problem where the disassembler would fault if the output
filename could not be generated or if the output file could not be
opened.

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18 September 2003. Summary of changes for version 20030918:

1) ACPI CA Core Subsystem:

Found and
 fixed a longstanding problem with the late execution of
the various deferred AML opcodes (such as Operation Regions,
Buffer Fields, Buffers, and Packages). If the name string
specified for the name of the new object placed the object in a

scope other than the current scope, the initialization/execution
of the opcode failed. The solution to this problem was to
implement a mechanism where the late execution of such opcodes
does not attempt to lookup/create the name a second time in an
incorrect scope. This fixes the "region size computed
incorrectly" problem.

Fixed a call to AcpiHwRegisterWrite in hwregs.c that was causing a
Global Lock AE_BAD_PARAMETER error.

Fixed several 64-bit issues with prototypes, casting and data
types.

Removed duplicate prototype from acdisasm.h

Fixed an issue involving EC Operation Region Detach (Shaohua Li)

Code and Data Size: Current and previous core subsystem library
sizes are shown below. These are the code and data sizes for the
acpica.lib produced
 by the Microsoft Visual C++ 6.0 compiler, and
these values do not include any ACPI driver or OSPM code. The
debug version of the code includes the debug output trace
mechanism and has a much larger code and data size. Note that
these values will vary depending on the efficiency of the compiler
and the compiler options used during generation.

 Previous Release:

   Non-Debug Version: 73.7K Code,   9.7K Data,   83.4K Total
   Debug Version: 156.9K Code, 64.2K Data, 221.1K Total
 Current Release:
   Non-Debug Version: 73.9K Code,   9.7K Data,   83.6K Total
   Debug Version: 157.3K Code, 64.5K Data, 221.8K Total

2) Linux:

Fixed the AcpiOsSleep implementation in osunixxf.c to pass the
correct sleep time in seconds.

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14 July 2003. Summary of changes for version 20030619:

1) ACPI CA Core Subsystem:

Parse SSDTs in order discovered, as opposed to reverse order
(Hrvoje Habjanic)

Fixes from FreeBSD and NetBSD. (Frank van
der Linden, Thomas
Klausner,
Nate Lawson)

2) Linux:

Dynamically allocate SDT list (suggested by Andi Kleen)

proc function return value cleanups (Andi Kleen)

Correctly handle NMI watchdog during long stalls (Andrew Morton)

Make it so acpismp=force works (reported by Andrew Morton)

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19 June 2003. Summary of changes for version 20030619:

1) ACPI CA Core Subsystem:

Fix To/FromBCD, eliminating the need for an arch-specific #define.

Do not acquire a semaphore in the S5 shutdown path.

Fix ex_digits_needed for 0. (Takayoshi Kochi)

Fix sleep/stall code reversal. (Andi Kleen)

Revert a change having to do with control method calling
semantics.

2) Linux:

acpiphp update (Takayoshi Kochi)

Export acpi_disabled for sonypi (Stelian Pop)

Mention acpismp=force in config help

Re-add acpitable.c and acpismp=force. This improves backwards

compatibility and also cleans up the code to a significant degree.

Add ASUS Value-add driver (Karol Kozimor

and Julien Lerouge)

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22 May 2003. Summary of changes for version 20030522:

1) ACPI CA Core Subsystem:

Found and fixed a reported problem where an AE_NOT_FOUND error occurred occasionally during _BST evaluation. This turned out to be an Owner ID allocation issue where a called method did not get a new ID assigned to it. Eventually, (after 64k calls), the Owner ID UINT16 would wraparound so that the ID would be the same as the caller's and the called method would delete the caller's namespace.

Implemented extended error reporting for control methods that are aborted due to a run-time exception. Output includes the exact AML instruction that caused the method abort, a dump of the method locals and arguments at the time of the abort, and a trace of all nested control method calls.

Modified the interpreter to allow the creation of buffers of zero length from the AML code. Implemented new code to ensure that no attempt is made to actually allocate a memory buffer (of length zero) - instead, a simple buffer object with a NULL buffer pointer and length zero is created. A warning is no longer issued when the AML attempts to create a zero-length buffer.

Implemented a workaround for the "leading asterisk issue" in _HIDs, _UIDs, and _CIDs in the AML interpreter. One leading asterisk is automatically removed if present in any HID, UID, or CID strings. The iASL compiler will still flag this asterisk as an error, however.

Implemented full support for _CID methods that return a package of multiple CIDs (Compatible IDs). The AcpiGetObjectInfo() interface now additionally returns a device _CID list if present. This required a change to the external interface in order to pass an ACPI_BUFFER object as a parameter since the _CID list is of variable length.

Fixed a problem with the new AE_SAME_HANDLER exception where handler initialization code did not know about this exception.

Code and Data Size: Current and previous core subsystem library sizes are shown below. These are the code and data sizes for the

acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release (20030509):
Non-Debug Version: 73.4K Code, 9.7K Data, 83.1K Total
Debug Version: 156.1K Code, 63.9K Data, 220.0K Total
Current Release:
Non-Debug Version: 73.7K Code, 9.7K Data, 83.4K Total
Debug Version: 156.9K Code, 64.2K Data, 221.1K Total

2) Linux:

Fixed a bug in which we would reinitialize the ACPI interrupt after it was already working, thus disabling all ACPI and the IRQs for any other device sharing the interrupt. (Thanks to Stian Jordet)

Toshiba driver update (John Belmonte)

Return only 0 or 1 for our interrupt handler status (Andrew Morton)

3) iASL Compiler:

Fixed a reported problem where multiple (nested) ElseIf() statements were not handled correctly by the compiler, resulting in incorrect warnings and incorrect AML code. This was a problem in both the ASL parser and the code generator.

4) Documentation:

Added changes to existing interfaces, new exception codes, and new text concerning reference count object management versus garbage collection.

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09 May 2003. Summary of changes for version 20030509.

1) ACPI CA Core Subsystem:

Changed the subsystem initialization sequence to hold off
installation of address space handlers until the hardware has been
initialized and the system has entered ACPI mode. This is because
the installation of space handlers can cause _REG methods to be
run. Previously, the _REG methods could potentially be run before
ACPI mode was enabled.

Fixed some memory leak issues related
 to address space handler and
notify handler installation. There were some problems with the
reference count mechanism caused by the fact that the handler
objects are shared across several namespace objects.

Fixed a reported problem where reference counts within the
namespace were not properly updated when named objects created by
method execution were deleted.

Fixed a reported problem where multiple SSDTs caused a deletion
issue during subsystem termination. Restructured the table data
structures to simplify the linked lists and the related code.

Fixed a problem where the table ID associated with secondary
tables (SSDTs) was not being propagated into the namespace objects
created by those tables. This would only present a problem for
tables that are unloaded at run-time, however.

Updated AcpiOsReadable and AcpiOsWritable to use the ACPI_SIZE
type as the length parameter (instead of UINT32).

Solved a long-standing problem where an ALREADY_EXISTS error
appears on various systems.
 This problem could happen when there
are multiple PCI_Config operation regions under a single PCI root
bus. This doesn't happen very frequently, but there are some
systems that do this in the ASL.

Fixed a reported problem where the internal DeleteNode function
was incorrectly handling the case where a namespace node was the
first in the parent's child list, and had additional peers (not
the only child, but first in the list of children.)

Code and Data Size: Current core subsystem library sizes are shown
below. These are the code and data sizes for the acpica.lib
produced by the Microsoft Visual C++ 6.0 compiler, and these
values do not include any ACPI driver or OSPM code. The debug
version of the code includes the debug output trace mechanism and
has a much larger code and data size. Note that these values will

vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release
Non-Debug Version: 73.7K Code, 9.5K Data,
83.2K Total
Debug Version: 156.1K Code, 63.6K Data, 219.7K Total
Current Release:
Non-Debug Version: 73.4K Code, 9.7K Data, 83.1K Total
Debug Version: 156.1K Code, 63.9K Data, 220.0K Total

2) Linux:

Allow ":" in OS override string (Ducrot Bruno)

Kobject fix (Greg KH)

3 iASL Compiler/Disassembler:

Fixed a problem in the generation of the C source code files (AML is emitted in C source statements for BIOS inclusion) where the Ascii dump that appears within a C comment at the end of each line could cause a compile time error if the AML sequence happens to have an open comment or close comment sequence embedded.

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24 April 2003. Summary of changes for version 20030424.

1) ACPI CA Core Subsystem:

Support for big-endian systems has been implemented. Most of the support has been invisibly added behind big-endian versions of the ACPI_MOVE_* macros.

Fixed a problem in AcpiHwDisableGpeBlock() and AcpiHwClearGpeBlock()
where an incorrect offset was passed to the
low level hardware write routine. The offset parameter was actually eliminated from the low level read/write routines because they had become obsolete.

Fixed a problem where a handler object was deleted twice during the removal of a fixed event handler.

2) Linux:

A fix for SMP systems with link devices was contributed by

Compaq's Dan Zink.

(2.5) Return whether we handled the interrupt in our IRQ handler.
(Linux ISRs no longer return void, so we can propagate the handler
return value from the ACPI CA core back to the OS.)

3) Documentation:

The ACPI CA Programmer Reference has been updated to reflect new
interfaces and changes to existing interfaces.

---
28 March 2003. Summary of changes for version 20030328.

1) ACPI CA Core Subsystem:

The GPE Block Device support has been completed. New interfaces
are AcpiInstallGpeBlock and AcpiRemoveGpeBlock. The Event
interfaces (enable, disable,
 clear, getstatus) have been split
into separate interfaces for Fixed Events and General Purpose
Events (GPEs) in order to support GPE Block Devices properly.

Fixed a problem where the error message "Failed to acquire
semaphore" would appear during operations on the embedded
controller (EC).

Code and Data Size: Current core subsystem library sizes are shown
below. These are the code and data sizes for the acpica.lib
produced by the Microsoft Visual C++ 6.0 compiler, and these
values do not include any ACPI driver or OSPM code. The debug
version of the code includes the debug output trace mechanism and
has a much larger code and data size. Note that these values will
vary depending on the efficiency of the compiler and the compiler
options used during generation.

 Previous Release
   Non-Debug Version: 72.3K Code,   9.5K Data,   81.8K Total
   Debug Version: 154.0K Code, 63.4K Data, 217.4K Total
 Current Release:
   Non-Debug Version: 73.7K Code,   9.5K Data,   83.2K

Total
Debug Version: 156.1K Code, 63.6K Data, 219.7K Total

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28 February 2003. Summary of changes for version 20030228.

1) ACPI CA Core Subsystem:

The GPE handling and dispatch code has been completely overhauled
in preparation for support of GPE Block Devices (ID ACPI0006).
This affects internal data structures and code only; there should
be no differences visible externally. One new file has been
added, evgpeblk.c

The FADT fields GPE0_BLK_LEN and GPE1_BLK_LEN are now the only
fields that are used to determine the GPE block lengths. The
REGISTER_BIT_WIDTH field of the X_GPEx_BLK extended address
structures are ignored. This is per the ACPI specification but it
isn't very clear. The full 256 Block 0/1 GPEs are now supported
(the use of REGISTER_BIT_WIDTH limited the number of GPEs to 128).

In the SCI interrupt handler, removed the read of the PM1_CONTROL
register to look at the SCI_EN bit. On some machines, this read
causes
an SMI event and greatly slows down SCI events. (This may
in fact be the cause of slow battery status response on some
systems.)

Fixed a problem where a store of a NULL string to a package object
could cause the premature deletion of the object. This was seen
during execution of the battery _BIF method on some systems,
resulting in no battery data being returned.

Added AcpiWalkResources interface to simplify parsing of resource
lists.

Code and Data Size: Current core subsystem library sizes are shown
below. These are the code and data sizes for the acpica.lib
produced by the Microsoft Visual C++ 6.0 compiler, and these
values do not include any ACPI driver or OSPM code. The debug
version of the code includes the debug output trace mechanism and
has a much larger code and data size. Note that these values will
vary depending on the efficiency of the compiler and the compiler
options used during generation.

Previous Release

Non-Debug Version: 72.0K Code, 9.5K Data,
81.5K Total
Debug Version: 153.0K Code, 62.9K Data, 215.9K Total
Current Release:
Non-Debug Version: 72.3K Code, 9.5K Data, 81.8K Total
Debug Version: 154.0K Code, 63.4K Data, 217.4K Total

2) Linux

S3 fixes (Ole Rohne)

Update ACPI PHP driver with to use new acpi_walk_resource API
(Bjorn Helgaas)

Add S4BIOS support (Pavel Machek)

Map in entire table before performing checksum (John Stultz)

Expand the mem= cmdline to allow the specification of reserved and
ACPI DATA blocks (Pavel Machek)

Never use ACPI on VISWS

Fix derive_pci_id (Ducrot Bruno, Alvaro Lopez)

Revert a change that allowed P_BLK lengths to be 4 or 5. This is
causing us to think that some systems support C2 when they really
don't.

Do not count processor objects for non-present CPUs (Thanks to
Dominik Brodowski)

3) iASL Compiler:

Fixed a problem where ASL include files could not be found and
opened.

Added support for the _PDC reserved name.

22
January 2003. Summary of changes for version 20030122.

1) ACPI CA Core Subsystem:

Added a check for constructs of the form: Store (Local0, Local0)
where Local0 is not initialized. Apparently, some BIOS
programmers believe that this is a NOOP. Since this store doesn't
do anything anyway, the new prototype behavior will ignore this
error. This is a case where we can relax the strict checking in
the interpreter in the name of compatibility.

2) Linux

The AcpiSrc Source Conversion Utility has been released with the
Linux package for the first time. This is the utility that is
used to convert the ACPI CA base source code to the Linux version.

(Both) Handle P_BLK lengths shorter than 6 more gracefully

(Both) Move more headers to include/acpi, and delete an unused
header.

(Both) Move drivers/acpi/include directory to include/acpi

(Both) Boot functions don't use cmdline, so don't pass it around

(Both) Remove include of unused header (Adrian Bunk)

(Both) acpiphp.h includes
 both linux/acpi.h and acpi_bus.h. Since
the
former now also includes the latter, acpiphp.h only needs the one,
now.

(2.5) Make it possible to select method of bios restoring after S3
resume. [=> no more ugly ifdefs] (Pavel Machek)

(2.5) Make proc write interfaces work (Pavel Machek)

(2.5) Properly init/clean up in cpufreq/acpi (Dominik Brodowski)

(2.5) Break out ACPI Perf code into its own module, under cpufreq
(Dominik Brodowski)

(2.4) S4BIOS support (Ducrot Bruno)

(2.4) Fix acpiphp_glue.c for latest ACPI struct changes (Sergio
Visinoni)

3) iASL Compiler:

Added support to disassemble SSDT and PSDTs.

Implemented support to obtain SSDTs from the Windows registry if
available.

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09 January 2003. Summary of changes for version 20030109.

1) ACPI CA Core Subsystem:

Changed the behavior of the internal Buffer-to-String conversion
function. The current ACPI specification states that the contents
of the buffer are "converted to a string
of two-character
hexadecimal numbers, each separated by a space". Unfortunately,
this definition is not backwards compatible with existing ACPI 1.0
implementations (although the behavior was not defined in the ACPI
1.0 specification). The new behavior simply copies data from the
buffer to the string until a null character is found or the end of
the buffer is reached. The new String object is always null
terminated. This problem was seen during the generation of _BIF
battery data where incorrect strings were returned for battery
type, etc. This will also require an errata to the ACPI
specification.

Renamed all instances of NATIVE_UINT and NATIVE_INT to
ACPI_NATIVE_UINT and ACPI_NATIVE_INT, respectively.

Copyright in all module headers (both Linux and non-Linux) has be
updated to 2003.

Code and Data Size: Current core subsystem library sizes are shown
below. These are the code and data sizes for the acpica.lib
produced by the Microsoft Visual C++ 6.0 compiler, and these
values do
not include any ACPI driver or OSPM code. The debug
version of the code includes the debug output trace mechanism and
has a much larger code and data size. Note that these values will
vary depending on the efficiency of the compiler and the compiler
options used during generation.

Previous Release
Non-Debug Version: 72.0K Code, 9.5K Data, 81.5K Total
Debug Version: 153.0K Code, 62.9K Data, 215.9K Total
Current Release:

Non-Debug Version: 72.0K Code, 9.5K Data, 81.5K Total
Debug Version: 153.0K Code, 62.9K Data, 215.9K Total

2) Linux

Fixed an oops on module insertion/removal (Matthew Tippett)

(2.4) Fix to handle dynamic size of mp_irqs (Joerg Prante)

(2.5) Replace pr_debug (Randy Dunlap)

(2.5) Remove usage of CPUFREQ_ALL_CPUS (Dominik Brodowski)

(Both) Eliminate spawning of thread from timer callback, in favor of schedule_work()

(Both) Show Lid status in /proc (Zdenek OGAR Skalak)

(Both) Added define for Fixed Function HW region (Matthew Wilcox)

(Both) Add missing statics to button.c (Pavel Machek)

Several changes have been made to the source code translation utility that generates the Linux Code in order to make the code more "Linux-like":

All typedefs on structs and unions have been removed in keeping with the Linux coding style.

Removed the non-Linux SourceSafe module revision number from each module header.

Completed major overhaul of symbols to be lowercase for linux. Doubled the number of symbols that are lowercase.

Fixed a problem where identifiers within procedure headers and within quotes were not fully lower cased (they were left with a starting capital.)

Some C macros whose only purpose is to allow the generation of 16-bit code are now completely removed in the Linux code, increasing readability and maintainability.

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12 December 2002. Summary of changes for version 20021212.

1) ACPI CA Core Subsystem:

Fixed a problem where the creation of a zero-length
AML Buffer
would cause a fault.

Fixed a problem where a Buffer object that pointed to a static AML
buffer (in an ACPI table) could inadvertently be deleted, causing
memory corruption.

Fixed a problem where a user buffer (passed in to the external
ACPI CA interfaces) could be overwritten if the buffer was too
small to complete the operation, causing memory corruption.

Fixed a problem in the Buffer-to-String conversion code where a
string of length one was always returned, regardless of the size
of the input Buffer object.

Removed the NATIVE_CHAR data type across the entire source due to
lack of need and lack of consistent use.

Code and Data Size: Current core subsystem library sizes are shown
below. These are the code and data sizes for the acpica.lib
produced by the Microsoft Visual C++ 6.0 compiler, and these
values do not include any ACPI driver or OSPM code. The debug
version of the code includes the debug output trace mechanism and
has a much larger code and data size.
Note that these values will
vary depending on the efficiency of the compiler and the compiler
options used during generation.

Previous Release
Non-Debug Version: 72.1K Code, 9.5K Data, 81.6K Total
Debug Version: 152.7K Code, 62.7K Data, 215.4K Total
Current Release:
Non-Debug Version: 72.0K Code, 9.5K Data, 81.5K Total
Debug Version: 153.0K Code, 62.9K Data, 215.9K Total

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05 December 2002. Summary of changes for version 20021205.

1) ACPI CA Core Subsystem:

Fixed a problem where a store to a String or Buffer object could
cause corruption of the DSDT if the object type being stored was

the same as the target object type and the length of the object
being stored was equal to or smaller than the original (existing)
target object. This was seen to cause corruption of battery _BIF
buffers if the _BIF method modified the buffer on the fly.

Fixed a problem where an internal error was generated if a control
method
invocation was used in an OperationRegion, Buffer, or
Package declaration. This was caused by the deferred parsing of
the control method and thus the deferred creation of the internal
method object. The solution to this problem was to create the
internal method object at the moment the method is encountered in
the first pass - so that subsequent references to the method will
able to obtain the required parameter count and thus properly
parse the method invocation. This problem presented itself as an
AE_AML_INTERNAL during the pass 1 parse phase during table load.

Fixed a problem where the internal String object copy routine did
not always allocate sufficient memory for the target String object
and caused memory corruption. This problem was seen to cause
"Allocation already present in list!" errors as memory allocation
became corrupted.

Implemented a new function for the evaluation of namespace objects
that allows the specification of the allowable return object
types.
This simplifies a lot of code that checks for a return
object of one or more specific objects returned from the
evaluation (such as _STA, etc.) This may become and external
function if it would be useful to ACPI-related drivers.

Completed another round of prefixing #defines with "ACPI_" for
clarity.

Completed additional code restructuring to allow more modular
linking for iASL compiler and AcpiExec. Several files were split
creating new files. New files: nsparse.c dsinit.c evgpe.c

Implemented an abort mechanism to terminate an executing control
method via the AML debugger. This feature is useful for debugging
control methods that depend (wait) for specific hardware
responses.

Code and Data Size: Current core subsystem library sizes are shown
below. These are the code and data sizes for the acpica.lib
produced by the Microsoft Visual C++ 6.0 compiler, and these
values do not include any ACPI driver or OSPM code. The debug
version of the code includes the debug output trace mechanism

and
has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release
Non-Debug Version: 71.4K Code, 9.0K Data, 80.4K Total
Debug Version: 152.9K Code, 63.3K Data, 216.2K Total
Current Release:
Non-Debug Version: 72.1K Code, 9.5K Data, 81.6K Total
Debug Version: 152.7K Code, 62.7K Data, 215.4K Total

2) iASL Compiler/Disassembler

Fixed a compiler code generation problem for "Interrupt" Resource Descriptors. If specified in the ASL, the optional "Resource Source Index" and "Resource Source" fields were not inserted into the correct location within the AML resource descriptor, creating an invalid descriptor.

Fixed a disassembler problem for "Interrupt" resource descriptors. The optional "Resource Source Index" and "Resource Source" fields were ignored.

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22 November 2002. Summary
of changes for version 20021122.

1) ACPI CA Core Subsystem:

Fixed a reported problem where an object stored to a Method Local or Arg was not copied to a new object during the store - the object pointer was simply copied to the Local/Arg. This caused all subsequent operations on the Local/Arg to also affect the original source of the store operation.

Fixed a problem where a store operation to a Method Local or Arg was not completed properly if the Local/Arg contained a reference (from RefOf) to a named field. The general-purpose store-to-namespace-node code is now used so that this case is handled automatically.

Fixed a problem where the internal object copy routine would cause a protection fault if the object being copied was a Package and contained either 1) a NULL package element or 2) a nested sub-

package.

Fixed a problem with the GPE initialization that resulted from an ambiguity in the ACPI specification. One section of the specification states that both the address and
length of the GPE
block must be zero if the block is not supported. Another section implies that only the address need be zero if the block is not supported. The code has been changed so that both the address and the length must be non-zero to indicate a valid GPE block (i.e., if either the address or the length is zero, the GPE block is invalid.)

Code and Data Size: Current core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release
Non-Debug Version: 71.3K Code, 9.0K Data, 80.3K Total
Debug Version: 152.7K Code, 63.2K Data, 215.5K Total
Current Release:
Non-Debug Version: 71.4K Code, 9.0K Data, 80.4K Total
Debug Version: 152.9K Code, 63.3K Data, 216.2K Total

2) Linux

Cleaned up EC driver. Exported an external EC read/write interface. By going through this, other drivers (most notably sonypi) will be able to serialize access to the EC.

3) iASL Compiler/Disassembler

Implemented support to optionally generate include files for both ASM and C (the -i switch). This simplifies BIOS development by automatically creating include files that contain external declarations for the symbols that are created within the

(optionally generated) ASM and C AML source files.

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15 November 2002. Summary of changes for version 20021115.

1) ACPI CA Core Subsystem:

Fixed a memory leak problem where an error during resolution of

method arguments during a method invocation from another method failed to cleanup properly by deleting all successfully resolved argument objects.

Fixed a problem
 where the target of the Index() operator was not
correctly constructed if the source object was a package. This problem has not been detected because the use of a target operand with Index() is very rare.

Fixed a problem with the Index() operator where an attempt was made to delete the operand objects twice.

Fixed a problem where an attempt was made to delete an operand twice during execution of the CondRefOf() operator if the target did not exist.

Implemented the first of perhaps several internal create object functions that create and initialize a specific object type. This consolidates duplicated code wherever the object is created, thus shrinking the size of the subsystem.

Implemented improved debug/error messages for errors that occur during nested method invocations. All executing method pathnames are displayed (with the error) as the call stack is unwound - thus simplifying debug.

Fixed a problem introduced in the 10/02 release that caused premature deletion of a buffer
 object if a buffer was used as an
ASL operand where an integer operand is required (Thus causing an implicit object conversion from Buffer to Integer.) The change in the 10/02 release was attempting to fix a memory leak (albeit incorrectly.)

Code and Data Size: Current core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler

options used during generation.

Previous Release
  Non-Debug Version: 71.9K Code,   9.1K Data,   81.0K Total
  Debug Version: 153.1K Code, 63.3K Data, 216.4K Total
Current Release:
  Non-Debug Version: 71.3K Code,   9.0K Data,   80.3K Total
  Debug Version: 152.7K Code, 63.2K
Data, 215.5K Total

2) Linux

Changed the implementation of the ACPI semaphores to use down()
instead of down_interruptable(). It is important that the
execution of ACPI control methods not be interrupted by signals.
Methods must run to completion, or the system may be left in an
unknown/unstable state.

Fixed a compilation error when CONFIG_SOFTWARE_SUSPEND is not set.
(Shawn Starr)

3) iASL Compiler/Disassembler

Changed the default location of output files. All output files
are now placed in the current directory by default instead of in
the directory of the source file. This change may affect some
existing makefiles, but it brings the behavior of the compiler in
line with other similar tools. The location of the output files
can be overridden with the -p command line switch.

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11 November 2002. Summary of changes for version 20021111.

0) ACPI Specification 2.0B is released and is now available at:
http://www.acpi.info/index.html

1)
ACPI CA Core Subsystem:

Implemented support for the ACPI 2.0 SMBus Operation Regions.
This includes the early detection and handoff of the request to
the SMBus region handler (avoiding all of the complex field

support code), and support for the bidirectional return packet
from an SMBus write operation. This paves the way for the
development of SMBus drivers in each host operating system.

Fixed a problem where the semaphore WAIT_FOREVER constant was
defined as 32 bits, but must be 16 bits according to the ACPI
specification. This had the side effect of causing ASL
Mutex/Event timeouts even though the ASL code requested a wait
forever. Changed all internal references to the ACPI timeout
parameter to 16 bits to prevent future problems. Changed the name
of WAIT_FOREVER to ACPI_WAIT_FOREVER.

Code and Data Size: Current core subsystem library sizes are shown
below. These are the code and data sizes for the acpica.lib
produced by the Microsoft Visual C++ 6.0 compiler, and these
values
 do not include any ACPI driver or OSPM code. The debug
version of the code includes the debug output trace mechanism and
has a much larger code and data size. Note that these values will
vary depending on the efficiency of the compiler and the compiler
options used during generation.

 Previous Release
   Non-Debug Version: 71.4K Code,   9.0K Data,   80.4K Total
   Debug Version: 152.3K Code, 63.0K Data, 215.3K Total
 Current Release:
   Non-Debug Version: 71.9K Code,   9.1K Data,   81.0K Total
   Debug Version: 153.1K Code, 63.3K Data, 216.4K Total

2) Linux

Module loading/unloading fixes (John Cagle)

3) iASL Compiler/Disassembler

Added support for the SMBBlockProcessCall keyword (ACPI 2.0)

Implemented support for the disassembly of all SMBus protocol
keywords (SMBQuick, SMBWord, etc.)

---
01 November 2002. Summary of changes for version 20021101.

1) ACPI CA Core Subsystem:

Fixed a problem where platforms that
have a GPE1 block but no GPE0
block were not handled correctly. This resulted in a "GPE
overlap" error message. GPE0 is no longer required.

Removed code added in the previous release that inserted nodes
into the namespace in alphabetical order. This caused some side-
effects on various machines. The root cause of the problem is
still under investigation since in theory, the internal ordering
of the namespace nodes should not matter.

Enhanced error reporting for the case where a named object is not
found during control method execution. The full ACPI namepath
(name reference) of the object that was not found is displayed in
this case.

Note: as a result of the overhaul of the namespace object types in
the previous release, the namespace nodes for the predefined
scopes (_TZ, _PR, etc.) are now of the type ACPI_TYPE_LOCAL_SCOPE
instead of ACPI_TYPE_ANY. This simplifies the namespace
management code but may affect code that walks the namespace tree
looking for specific object types.

Code
and Data Size: Current core subsystem library sizes are shown
below. These are the code and data sizes for the acpica.lib
produced by the Microsoft Visual C++ 6.0 compiler, and these
values do not include any ACPI driver or OSPM code. The debug
version of the code includes the debug output trace mechanism and
has a much larger code and data size. Note that these values will
vary depending on the efficiency of the compiler and the compiler
options used during generation.

Previous Release
Non-Debug Version: 70.7K Code, 8.6K Data, 79.3K Total
Debug Version: 151.7K Code, 62.4K Data, 214.1K Total
Current Release:
Non-Debug Version: 71.4K Code, 9.0K Data, 80.4K Total
Debug Version: 152.3K Code, 63.0K Data, 215.3K Total

2) Linux

Fixed a problem introduced in the previous release where the
Processor and Thermal objects were not recognized and installed in
/proc. This was related to the scope type change described above.

3) iASL Compiler/Disassembler

Implemented
the -g option to get all of the required ACPI tables
from the registry and save them to files (Windows version of the
compiler only.) The required tables are the FADT, FACS, and DSDT.

Added ACPI table checksum validation during table disassembly in
order to catch corrupted tables.

---

22 October 2002. Summary of changes for version 20021022.

1) ACPI CA Core Subsystem:

Implemented a restriction on the Scope operator that the target
must already exist in the namespace at the time the operator is
encountered (during table load or method execution). In other
words, forward references are not allowed and Scope() cannot
create a new object. This changes the previous behavior where the
interpreter would create the name if not found. This new behavior
correctly enables the search-to-root algorithm during namespace
lookup of the target name. Because of this upsearch, this fixes
the known Compaq _SB_.OKEC problem and
makes both the AML
interpreter and iASL compiler compatible with other ACPI
implementations.

Completed a major overhaul of the internal ACPI object types for
the ACPI Namespace and the associated operand objects. Many of
these types had become obsolete with the introduction of the two-
pass namespace load. This cleanup simplifies the code and makes
the entire namespace load mechanism much clearer and easier to
understand.

Improved debug output for tracking scope opening/closing to help
diagnose scoping issues. The old scope name as well as the new
scope name are displayed. Also improved error messages for
problems with ASL Mutex objects and error messages for GPE
problems.

Cleaned up the namespace dump code, removed obsolete code.

All string output (for all namespace/object dumps) now uses the
common ACPI string output procedure which handles escapes properly
and does not emit non-printable characters.

Fixed some issues with constants in the 64-bit version of the
local C library
(utclib.c)

2) Linux

EC Driver: No longer attempts to acquire the Global Lock at
interrupt level.

3) iASL Compiler/Disassembler

Implemented ACPI 2.0B grammar change that disallows all Type 1 and
2 opcodes outside of a control method. This means that the
"executable" operators (versus the "namespace" operators) cannot
be used at the table level; they can only be used within a control
method.

Implemented the restriction on the Scope() operator where the
target must already exist in the namespace at the time the
operator is encountered (during ASL compilation). In other words,
forward references are not allowed and Scope() cannot create a new
object. This makes the iASL compiler compatible with other ACPI
implementations and makes the Scope() implementation adhere to the
ACPI specification.

Fixed a problem where namepath optimization for the Alias operator
was optimizing the wrong path (of the two namepaths.) This caused
a "Missing alias link" error message.

Fixed a problem
where an "unknown reserved name" warning could be
incorrectly generated for names like "_SB" when the trailing
underscore is not used in the original ASL.

Fixed a problem where the reserved name check did not handle
NamePaths with multiple NameSegs correctly. The first nameseg of
the NamePath was examined instead of the last NameSeg.

---

02 October 2002. Summary of changes for this release.

1) ACPI CA Core Subsystem version 20021002:

Fixed a problem where a store/copy of a string to an existing
string did not always set the string length properly in the String
object.

Fixed a reported problem with the ToString operator where the
behavior was identical to the ToHexString operator instead of just
simply converting a raw buffer to a string data type.

Fixed a problem where CopyObject and the other "explicit"
conversion operators were not updating the internal namespace node
type as part of the store operation.

Fixed a memory leak during implicit
source operand conversion
where the original object was not deleted if it was converted to a
new object of a different type.

Enhanced error messages for all problems associated with namespace
lookups. Common procedure generates and prints the lookup name as
well as the formatted status.

Completed implementation of a new design for the Alias support
within the namespace. The existing design did not handle the case
where a new object was assigned to one of the two names due to the
use of an explicit conversion operator, resulting in the two names
pointing to two different objects. The new design simply points
the Alias name to the original name node - not to the object.
This results in a level of indirection that must be handled in the
name resolution mechanism.

Code and Data Size: Current core subsystem library sizes are shown
below. These are the code and data sizes for the acpica.lib
produced by the Microsoft Visual C++ 6.0 compiler, and these
values do not include any ACPI
driver or OSPM code. The debug
version of the code includes the debug output trace mechanism and
has a larger code and data size. Note that these values will vary
depending on the efficiency of the compiler and the compiler
options used during generation.

Previous Release
Non-Debug Version: 69.6K Code, 8.3K Data, 77.9K Total
Debug Version: 150.0K Code, 61.7K Data, 211.7K Total
Current Release:
Non-Debug Version: 70.7K Code, 8.6K Data, 79.3K Total
Debug Version: 151.7K Code, 62.4K Data, 214.1K Total

2) Linux

Initialize thermal driver's timer before it is used. (Knut
Neumann)

Allow handling negative celsius values. (Kochi Takayoshi)

Fix thermal management and make trip points. R/W (Pavel Machek)

Fix /proc/acpi/sleep. (P. Christeas)

IA64 fixes. (David Mosberger)

Fix reversed logic in blacklist code. (Sergio Monteiro Basto)

Replace ACPI_DEBUG define with ACPI_DEBUG_OUTPUT. (Dominik
Brodowski)

3) iASL Compiler/Disassembler

Clarified
some warning/error messages.

---
18 September 2002. Summary of changes for this release.

1) ACPI CA Core Subsystem version 20020918:

Fixed a reported problem with reference chaining (via the Index()
and RefOf() operators) in the ObjectType() and SizeOf() operators.
The definition of these operators includes the dereferencing of
all chained references to return information on the base object.

Fixed a problem with stores to indexed package elements - the
existing code would not complete the store if an "implicit
conversion" was not performed. In other words, if the existing
object (package element) was to be replaced completely, the code
didn't handle this case.

Relaxed typechecking on the ASL "Scope" operator to allow the
target name to refer to an object of type Integer, String, or
Buffer, in addition to the scoping object types (Device,
predefined Scopes, Processor, PowerResource, and ThermalZone.)
This allows existing AML code that has

workarounds for a bug in
Windows to function properly. A warning is issued, however. This affects both the AML interpreter and the iASL compiler. Below is an example of this type of ASL code:

```
Name(DEB,0x00)
Scope(DEB)
{
```

Fixed some reported problems with 64-bit integer support in the local implementation of C library functions (clib.c)

2) Linux

Use ACPI fix map region instead of IOAPIC region, since it is undefined in non-SMP.

Ensure that the SCI has the proper polarity and trigger, even on systems that do not have an interrupt override entry in the MADT.

2.5 big driver reorganization (Pat Mochel)

Use early table mapping code from acpitable.c (Andi Kleen)

New blacklist entries (Andi Kleen)

Blacklist improvements. Split blacklist code out into a separate file. Move checking the blacklist to very early. Previously, we would use ACPI tables, and then halfway through init, check the blacklist -- too late. Now, it's early enough to completely fall-back to non-ACPI.

3)
iASL Compiler/Disassembler version 20020918:

Fixed a problem where the typechecking code didn't know that an alias could point to a method. In other words, aliases were not being dereferenced during typechecking.

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29 August 2002. Summary of changes for this release.

1) ACPI CA Core Subsystem Version 20020829:

If the target of a Scope() operator already exists, it must be an

object type that actually opens a scope -- such as a Device,
Method, Scope, etc. This is a fatal runtime error. Similar error
check has been added to the iASL compiler also.

Tightened up the namespace load to disallow multiple names in the
same scope. This previously was allowed if both objects were of
the same type. (i.e., a lookup was the same as entering a new
name).

2) Linux

Ensure that the ACPI interrupt has the proper trigger and
polarity.

local_irq_disable is extraneous. (Matthew Wilcox)

Make "acpi=off" actually do what it says, and not use the
 ACPI
interpreter *or* the tables.

Added arch-neutral support for parsing SLIT and SRAT tables (Kochi
Takayoshi)

3) iASL Compiler/Disassembler Version 20020829:

Implemented namepath optimization for name declarations. For
example, a declaration like "Method (_SB_.ABCD)" would get
optimized to "Method (ABCD)" if the declaration is within the
_SB_ scope. This optimization is in addition to the named
reference path optimization first released in the previous
version. This would seem to complete all possible optimizations
for namepaths within the ASL/AML.

If the target of a Scope() operator already exists, it must be an
object type that actually opens a scope -- such as a Device,
Method, Scope, etc.

Implemented a check and warning for unreachable code in the same
block below a Return() statement.

Fixed a problem where the listing file was not generated if the
compiler aborted if the maximum error count was exceeded (200).

Fixed a problem where the typechecking of method return
 values was
broken. This includes the check for a return value when the

method is invoked as a TermArg (a return value is expected.)

Fixed a reported problem where EOF conditions during a quoted
string or comment caused a fault.

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15 August 2002. Summary of changes for this release.

1) ACPI CA Core Subsystem Version 20020815:

Fixed a reported problem where a Store to a method argument that
contains a reference did not perform the indirect store correctly.
This problem was created during the conversion to the new
reference object model - the indirect store to a method argument
code was not updated to reflect the new model.

Reworked the ACPI mode change code to better conform to ACPI 2.0,
handle corner cases, and improve code legibility (Kochi Takayoshi)

Fixed a problem with the pathname parsing for the carat (^)
prefix. The heavy use of the carat operator by the new namepath
optimization in the iASL compiler uncovered a problem with the
AML
interpreter handling of this prefix. In the case where one or
more carats precede a single nameseg, the nameseg was treated as
standalone and the search rule (to root) was inadvertently
applied. This could cause both the iASL compiler and the
interpreter to find the wrong object or to miss the error that
should occur if the object does not exist at that exact pathname.

Found and fixed the problem where the HP Pavilion DSDT would not
load. This was a relatively minor tweak to the table loading code
(a problem caused by the unexpected encounter with a method
invocation not within a control method), but it does not solve the
overall issue of the execution of AML code at the table level.
This investigation is still ongoing.

Code and Data Size: Current core subsystem library sizes are shown
below. These are the code and data sizes for the acpica.lib
produced by the Microsoft Visual C++ 6.0 compiler, and these
values do not include any ACPI driver or OSPM code. The debug
version
of the code includes the debug output trace mechanism and
has a larger code and data size. Note that these values will vary
depending on the efficiency of the compiler and the compiler
options used during generation.

Previous Release
Non-Debug Version: 69.1K Code, 8.2K Data, 77.3K Total
Debug Version: 149.4K Code, 61.6K Data, 211.0K Total
Current Release:
Non-Debug Version: 69.6K Code, 8.3K Data, 77.9K Total
Debug Version: 150.0K Code, 61.7K Data, 211.7K Total

2) Linux

Remove redundant slab.h include (Brad Hards)

Fix several bugs in thermal.c (Herbert Nachtnebel)

Make CONFIG_ACPI_BOOT work properly (Pavel Machek)

Change acpi_system_suspend to use updated irq functions (Pavel Machek)

Export acpi_get_firmware_table (Matthew Wilcox)

Use proper root proc entry for ACPI (Kochi Takayoshi)

Fix early-boot table parsing (Bjorn Helgaas)

3) iASL Compiler/Disassembler

Reworked the compiler options to make them more consistent and to use two-letter
options where appropriate. We were running out of sensible letters. This may break some makefiles, so check the current options list by invoking the compiler with no parameters.

Completed the design and implementation of the ASL namepath optimization option for the compiler. This option optimizes all references to named objects to the shortest possible path. The first attempt tries to utilize a single nameseg (4 characters) and the "search-to-root" algorithm used by the interpreter. If that cannot be used (because either the name is not in the search path or there is a conflict with another object with the same name), the pathname is optimized using the carat prefix (usually a shorter string than specifying the entire path from the root.)

Implemented support to obtain the DSDT from the Windows registry (when the disassembly option is specified with no input file). Added this code as the implementation for AcpiOsTableOverride in the Windows OSL. Migrated the 16-bit code (used

in the AcpiDump
utility) to scan memory for the DSDT to the AcpiOsTableOverride
function in the DOS OSL to make the disassembler truly OS
independent.

Implemented a new option to disassemble and compile in one step.
When used without an input filename, this option will grab the
DSDT from the local machine, disassemble it, and compile it in one
step.

Added a warning message for invalid escapes (a backslash followed
by any character other than the allowable escapes). This catches
the quoted string error "_SB_" (which should be "_SB_").

Also, there are numerous instances in the ACPI specification where
this error occurs.

Added a compiler option to disable all optimizations. This is
basically the "compatibility mode" because by using this option,
the AML code will come out exactly the same as other ASL
compilers.

Added error messages for incorrectly ordered dependent resource
functions. This includes: missing EndDependentFn macro at end of
dependent resource list, nested dependent
function macros (both
start and end), and missing StartDependentFn macro. These are
common errors that should be caught at compile time.

Implemented _OSI support for the disassembler and compiler. _OSI
must be included in the namespace for proper disassembly (because
the disassembler must know the number of arguments.)

Added an "optimization" message type that is optional (off by
default). This message is used for all optimizations - including
constant folding, integer optimization, and namepath optimization.

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25 July 2002. Summary of changes for this release.

1) ACPI CA Core Subsystem Version 20020725:

The AML Disassembler has been enhanced to produce compilable ASL
code and has been integrated into the iASL compiler (see below) as
well as the single-step disassembly for the AML debugger and the
disassembler for the AcpiDump utility. All ACPI 2.0A opcodes,
resource templates and macros are fully supported. The

disassembler has
been tested on over 30 different AML files,
producing identical AML when the resulting disassembled ASL file
is recompiled with the same ASL compiler.

Modified the Resource Manager to allow zero interrupts and zero
dma channels during the GetCurrentResources call. This was
causing problems on some platforms.

Added the AcpiOsRedirectOutput interface to the OSL to simplify
output redirection for the AcpiOsPrintf and AcpiOsVprintf
interfaces.

Code and Data Size: Current core subsystem library sizes are shown
below. These are the code and data sizes for the acpica.lib
produced by the Microsoft Visual C++ 6.0 compiler, and these
values do not include any ACPI driver or OSPM code. The debug
version of the code includes the debug output trace mechanism and
has a larger code and data size. Note that these values will vary
depending on the efficiency of the compiler and the compiler
options used during generation.

Previous Release
Non-Debug Version: 68.7K Code, 7.4K Data,
76.1K Total
Debug Version: 142.9K Code, 58.7K Data, 201.6K Total
Current Release:
Non-Debug Version: 69.1K Code, 8.2K Data, 77.3K Total
Debug Version: 149.4K Code, 61.6K Data, 211.0K Total

2) Linux

Fixed a panic in the EC driver (Dominik Brodowski)

Implemented checksum of the R/XSDT itself during Linux table scan
(Richard Schaal)

3) iASL compiler

The AML disassembler is integrated into the compiler. The "-d"
option invokes the disassembler to completely disassemble an
input AML file, producing as output a text ASL file with the
extension ".dsl" (to avoid name collisions with existing .asl
source files.) A future enhancement will allow the disassembler
to obtain the BIOS DSDT from the registry under Windows.

Fixed a problem with the VendorShort and VendorLong resource descriptors where an invalid AML sequence was created.

Implemented a fix for BufferData term in the ASL parser. It was inadvertently defined twice, allowing invalid syntax to pass
and
causing reduction conflicts.

Fixed a problem where the Ones opcode could get converted to a value of zero if "Ones" was used where a byte, word or dword value was expected. The 64-bit value is now truncated to the correct size with the correct value.

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02 July 2002. Summary of changes for this release.

1) ACPI CA Core Subsystem Version 20020702:

The Table Manager code has been restructured to add several new features. Tables that are not required by the core subsystem (other than the FADT, DSDT, FACS, PSDTs, etc.) are no longer validated in any way and are returned from AcpiGetFirmwareTable if requested. The AcpiOsTableOverride interface is now called for each table that is loaded by the subsystem in order to allow the host to override any table it chooses. Previously, only the DSDT could be overridden. Added one new files, tbrsdt.c and tbgetall.c.

Fixed a problem with the conversion of internal package objects to external objects
(when a package is returned from a control
method.) The return buffer length was set to zero instead of the proper length of the package object.

Fixed a reported problem with the use of the RefOf and DeRefOf operators when passing reference arguments to control methods. A new type of Reference object is used internally for references produced by the RefOf operator.

Added additional error messages in the Resource Manager to explain AE_BAD_DATA errors when they occur during resource parsing.

Split the AcpiEnableSubsystem into two primitives to enable a finer granularity initialization sequence. These two calls should be called in this order: AcpiEnableSubsystem (flags),

AcpiInitializeObjects (flags). The flags parameter remains the
same.

2) Linux

Updated the ACPI utilities module to understand the new style of
fully resolved package objects that are now returned from the core
subsystem. This eliminates errors of the form:

```
ACPI: PCI Interrupt Routing Table [\_SB_.PCI0.PPB_._PRT]
 acpi_utils-0430 [145] acpi_evaluate_reference:
   Invalid element in package (not a device reference)
```

The method evaluation utility uses the new buffer allocation
scheme instead of calling AcpiEvaluate Object twice.

Added support for ECDT. This allows the use of the Embedded

Controller before the namespace has been fully initialized, which
is necessary for ACPI 2.0 support, and for some laptops to
initialize properly. (Laptops using ECDT are still rare, so only
limited testing was performed of the added functionality.)

Fixed memory leaks in the EC driver.

Eliminated a brittle code structure in acpi_bus_init().

Eliminated the acpi_evaluate() helper function in utils.c. It is
no longer needed since acpi_evaluate_object can optionally
allocate memory for the return object.

Implemented fix for keyboard hang when getting battery readings on
some systems (Stephen White)

PCI IRQ routing update (Dominik Brodowski)

Fix an ifdef to allow compilation on UP with LAPIC
but no IOAPIC
support

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11 June 2002. Summary of changes for this release.

1) ACPI CA Core Subsystem Version 20020611:

Fixed a reported problem where constants such as Zero and One

appearing within _PRT packages were not handled correctly within
the resource manager code. Originally reported against the ASL
compiler because the code generator now optimizes integers to
their minimal AML representation (i.e. AML constants if possible.)
The _PRT code now handles all AML constant opcodes correctly
(Zero, One, Ones, Revision).

Fixed a problem with the Concatenate operator in the AML
interpreter where a buffer result object was incorrectly marked as
not fully evaluated, causing a run-time error of AE_AML_INTERNAL.

All package sub-objects are now fully resolved before they are
returned from the external ACPI interfaces. This means that name
strings are resolved to object handles, and constant operators
(Zero, One, Ones, Revision) are resolved to
 Integers.

Implemented immediate resolution of the AML Constant opcodes
(Zero, One, Ones, Revision) to Integer objects upon detection
within the AML stream. This has simplified and reduced the
generated code size of the subsystem by eliminating about 10
switch statements for these constants (which previously were
contained in Reference objects.) The complicating issues are that
the Zero opcode is used as a "placeholder" for unspecified
optional target operands and stores to constants are defined to be
no-ops.

Code and Data Size: Current core subsystem library sizes are shown
below. These are the code and data sizes for the acpica.lib
produced by the Microsoft Visual C++ 6.0 compiler, and these
values do not include any ACPI driver or OSPM code. The debug
version of the code includes the debug output trace mechanism and
has a larger code and data size. Note that these values will vary
depending on the efficiency of the compiler and the compiler
options used during generation.

 Previous
 Release
   Non-Debug Version: 69.3K Code,   7.4K Data,   76.7K Total
   Debug Version: 143.8K Code, 58.8K Data, 202.6K Total
 Current Release:
   Non-Debug Version: 68.7K Code,   7.4K Data,   76.1K Total
   Debug Version: 142.9K Code, 58.7K Data, 201.6K Total

2) Linux

Added preliminary support for obtaining _TRA data for PCI root
bridges (Bjorn Helgaas).

3) iASL Compiler Version X2046:

Fixed a problem where the "_DDN" reserved name was defined to be a
control method with one argument. There are no arguments, and
_DDN does not have to be a control method.

Fixed a problem with the Linux version of the compiler where the
source lines printed with error messages were the wrong lines.
This turned out to be the "LF versus CR/LF" difference between
Windows and Unix. This appears to be the longstanding issue
concerning listing output and error messages.

Fixed a problem with the Linux version of compiler where opcode
names within error messages were wrong.
 This was caused by a
slight difference in the output of the Flex tool on Linux versus
Windows.

Fixed a problem with the Linux compiler where the hex output files
contained some garbage data caused by an internal buffer overrun.

---
17 May 2002. Summary of changes for this release.

1) ACPI CA Core Subsystem Version 20020517:

Implemented a workaround to an BIOS bug discovered on the HP
OmniBook where the FADT revision number and the table size are
inconsistent (ACPI 2.0 revision vs. ACPI 1.0 table size). The new
behavior is to fallback to using only the ACPI 1.0 fields of the
FADT if the table is too small to be a ACPI 2.0 table as claimed
by the revision number. Although this is a BIOS bug, this is a
case where the workaround is simple enough and with no side
effects, so it seemed prudent to add it. A warning message is
issued, however.

Implemented minimum size checks for the fixed-length ACPI tables -
- the FADT and FACS, as well as consistency
 checks between the
revision number and the table size.

Fixed a reported problem in the table override support where the

new table pointer was incorrectly treated as a physical address
instead of a logical address.

Eliminated the use of the AE_AML_ERROR exception and replaced it
with more descriptive codes.

Fixed a problem where an exception would occur if an ASL Field was
defined with no named Field Units underneath it (used by some
index fields).

Code and Data Size: Current core subsystem library sizes are shown
below. These are the code and data sizes for the acpica.lib
produced by the Microsoft Visual C++ 6.0 compiler, and these
values do not include any ACPI driver or OSPM code. The debug
version of the code includes the debug output trace mechanism and
has a larger code and data size. Note that these values will vary
depending on the efficiency of the compiler and the compiler
options used during generation.

Previous Release
Non-Debug Version: 68.8K Code, 7.1K
Data, 75.9K Total
Debug Version: 142.9K Code, 58.4K Data, 201.3K Total
Current Release:
Non-Debug Version: 69.3K Code, 7.4K Data, 76.7K Total
Debug Version: 143.8K Code, 58.8K Data, 202.6K Total

2) Linux

Much work done on ACPI init (MADT and PCI IRQ routing support).
(Paul D. and Dominik Brodowski)

Fix PCI IRQ-related panic on boot (Sam Revitch)

Set BM_ARB_DIS when entering a sleep state (Ducrot Bruno)

Fix "MHz" typo (Dominik Brodowski)

Fix RTC year 2000 issue (Dominik Brodowski)

Preclude multiple button proc entries (Eric Brunet)

Moved arch-specific code out of include/platform/aclinux.h

3) iASL Compiler Version X2044:

Implemented error checking for the string used in the EISAID macro
(Usually used in the definition of the _HID object.) The code now
strictly enforces the PnP format - exactly 7 characters, 3
uppercase letters and 4 hex digits.

If a raw string is used in the definition of the _HID object
(instead of the EISAID macro), the
 string must contain all
alphanumeric characters (e.g., "*PNP0011" is not allowed because
of the asterisk.)

Implemented checking for invalid use of ACPI reserved names for
most of the name creation operators (Name, Device, Event, Mutex,
OperationRegion, PowerResource, Processor, and ThermalZone.)
Previously, this check was only performed for control methods.

Implemented an additional check on the Name operator to emit an
error if a reserved name that must be implemented in ASL as a
control method is used. We know that a reserved name must be a
method if it is defined with input arguments.

The warning emitted when a namespace object reference is not found
during the cross reference phase has been changed into an error.
The "External" directive should be used for names defined in other
modules.

4) Tools and Utilities

The 16-bit tools (adump16 and aexec16) have been regenerated and
tested.

Fixed a problem with the output of both acpidump and adump16 where
the indentation of closing
 parentheses and brackets was not

aligned properly with the parent block.

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03 May 2002. Summary of changes for this release.

1) ACPI CA Core Subsystem Version 20020503:

Added support a new OSL interface that allows the host operating

system software to override the DSDT found in the firmware -

AcpiOsTableOverride. With this interface, the OSL can examine the version of the firmware DSDT and replace it with a different one if desired.

Added new external interfaces for accessing ACPI registers from device drivers and other system software - AcpiGetRegister and AcpiSetRegister. This was simply an externalization of the existing AcpiHwBitRegister interfaces.

Fixed a regression introduced in the previous build where the ASL/AML CreateField operator always returned an error, "destination must be a NS Node".

Extended the maximum time (before failure) to successfully enable ACPI mode to 3 seconds.

Code and Data Size: Current core subsystem
library sizes are shown
below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release
Non-Debug Version: 68.5K Code, 7.0K Data, 75.5K Total
Debug Version: 142.4K Code, 58.3K Data, 200.7K Total
Current Release:
Non-Debug Version: 68.8K Code, 7.1K Data, 75.9K Total
Debug Version: 142.9K Code, 58.4K Data, 201.3K Total

2) Linux

Enhanced ACPI init code for SMP. We are now fully MPS and $PIR-free. While 3 out of 4 of our in-house systems work fine, the last one still hangs when testing the LAPIC timer.

Renamed many files in 2.5 kernel release to omit "acpi_" from the name.

Added warning
on boot for Presario 711FR.

Sleep improvements (Pavel Machek)

ACPI can now be built without CONFIG_PCI enabled.

IA64: Fixed memory map functions (JI Lee)

3) iASL Compiler Version X2043:

Added support to allow the compiler to be integrated into the MS VC++ development environment for one-button compilation of single files or entire projects -- with error-to-source-line mapping.

Implemented support for compile-time constant folding for the Type3, Type4, and Type5 opcodes first defined in the ACPI 2.0 specification. This allows the ASL writer to use expressions instead of Integer/Buffer/String constants in terms that must evaluate to constants at compile time and will also simplify the emitted AML in any such sub-expressions that can be folded (evaluated at compile-time.) This increases the size of the compiler significantly because a portion of the ACPI CA AML interpreter is included within the compiler in order to pre-evaluate constant expressions.

Fixed a problem with
the "Unicode" ASL macro that caused the
compiler to fault. (This macro is used in conjunction with the _STR reserved name.)

Implemented an AML opcode optimization to use the Zero, One, and Ones opcodes where possible to further reduce the size of integer constants and thus reduce the overall size of the generated AML code.

Implemented error checking for new reserved terms for ACPI version 2.0A.

Implemented the -qr option to display the current list of ACPI reserved names known to the compiler.

Implemented the -qc option to display the current list of ASL operators that are allowed within constant expressions and can therefore be folded at compile time if the operands are constants.

4) Documentation

Updated the Programmer's Reference for new interfaces, data types, and memory allocation model options.

Updated the iASL Compiler User Reference to apply new format and
add information about new features and options.

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19 April 2002. Summary
of changes for this release.

1) ACPI CA Core Subsystem Version 20020419:

The source code base for the Core Subsystem has been completely
cleaned with PC-lint (FlexLint) for both 32-bit and 64-bit
versions. The Lint option files used are included in the
/acpi/generate/lint directory.

Implemented enhanced status/error checking across the entire
Hardware manager subsystem. Any hardware errors (reported from
the OSL) are now bubbled up and will abort a running control
method.

Fixed a problem where the per-ACPI-table integer width (32 or 64)
was stored only with control method nodes, causing a fault when
non-control method code was executed during table loading. The
solution implemented uses a global variable to indicate table
width across the entire ACPI subsystem. Therefore, ACPI CA does
not support mixed integer widths across different ACPI tables
(DSDT, SSDT).

Fixed a problem where NULL extended fields (X fields) in an ACPI
2.0 ACPI FADT caused the table load to fail. Although
the
existing ACPI specification is a bit fuzzy on this topic, the new
behavior is to fall back on a ACPI 1.0 field if the corresponding
ACPI 2.0 X field is zero (even though the table revision indicates
a full ACPI 2.0 table.) The ACPI specification will be updated to
clarify this issue.

Fixed a problem with the SystemMemory operation region handler
where memory was always accessed byte-wise even if the AML-
specified access width was larger than a byte. This caused
problems on systems with memory-mapped I/O. Memory is now
accessed with the width specified. On systems that do not support
non-aligned transfers, a check is made to guarantee proper address
alignment before proceeding in order to avoid an AML-caused
alignment fault within the kernel.

Fixed a problem with the ExtendedIrq resource where only one byte
of the 4-byte Irq field was extracted.

Fixed the AcpiExDigitsNeeded() procedure to support _UID. This
function was out of date and required a rewrite.

Code and Data
Size: Current core subsystem library sizes are shown
below. These are the code and data sizes for the acpica.lib
produced by the Microsoft Visual C++ 6.0 compiler, and these
values do not include any ACPI driver or OSPM code. The debug
version of the code includes the debug output trace mechanism and
has a larger code and data size. Note that these values will vary
depending on the efficiency of the compiler and the compiler
options used during generation.

Previous Release
Non-Debug Version: 66.6K Code, 6.5K Data, 73.1K Total
Debug Version: 139.8K Code, 57.4K Data, 197.2K Total
Current Release:
Non-Debug Version: 68.5K Code, 7.0K Data, 75.5K Total
Debug Version: 142.4K Code, 58.3K Data, 200.7K Total

2) Linux

PCI IRQ routing fixes (Dominik Brodowski)

3) iASL Compiler Version X2042:

Implemented an additional compile-time error check for a field
unit whose size + minimum access width would cause a run-time
access beyond the end-of-region.
Previously, only the field size
itself was checked.

The Core subsystem and iASL compiler now share a common parse
object in preparation for compile-time evaluation of the type
3/4/5 ASL operators.

Summary of changes for this release: 03_29_02

1) ACPI CA Core Subsystem Version 20020329:

Implemented support for late evaluation of TermArg operands to

Buffer and Package objects. This allows complex expressions to be used in the declarations of these object types.

Fixed an ACPI 1.0 compatibility issue when reading Fields. In ACPI 1.0, if the field was larger than 32 bits, it was returned as a buffer - otherwise it was returned as an integer. In ACPI 2.0, the field is returned as a buffer only if the field is larger than 64 bits. The TableRevision is now considered when making this conversion to avoid incompatibility with existing ASL code.

Implemented logical addressing for AcpiOsGetRootPointer. This allows an RSDP with either a logical
or physical address. With
this support, the host OS can now override all ACPI tables with one logical RSDP. Includes implementation of "typed" pointer support to allow a common data type for both physical and logical pointers internally. This required a change to the AcpiOsGetRootPointer interface.

Implemented the use of ACPI 2.0 Generic Address Structures for all GPE, Fixed Event, and PM Timer I/O. This allows the use of memory mapped I/O for these ACPI features.

Initialization now ignores not only non-required tables (All tables other than the FADT, FACS, DSDT, and SSDTs), but also does not validate the table headers of unrecognized tables.

Fixed a problem where a notify handler could only be installed/removed on an object of type Device. All "notify"

objects are now supported -- Devices, Processor, Power, and Thermal.

Removed most verbosity from the ACPI_DB_INFO debug level. Only critical information is returned when this debug level is enabled.

Code and Data Size: Current
core subsystem library sizes are shown
below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release
Non-Debug Version: 65.4K Code, 6.2K Data, 71.6K Total

Debug Version: 138.0K Code, 56.6K Data, 194.6K Total
Current Release:
Non-Debug Version: 66.6K Code, 6.5K Data, 73.1K Total
Debug Version: 139.8K Code, 57.4K Data, 197.2K Total

2) Linux:

The processor driver (acpi_processor.c) now fully supports ACPI 2.0-based processor performance control (e.g. Intel(R) SpeedStep(TM) technology) Note that older laptops that only have the Intel "applet" interface are not supported through this. The 'limit' and 'performance' interface (/proc) are fully functional. [Note that basic policy for controlling performance state transitions will be included in the next version of ospmd.] The idle handler was modified to more aggressively use C2, and PIIX4 errata handling underwent a complete overhaul (big thanks to Dominik Brodowski).

Added support for ACPI-PCI device binding (acpi_pci_root.c). _ADR-based devices in the ACPI namespace are now dynamically bound (associated) with their PCI counterparts (e.g. PCI1->01:00.0). This allows, among other things, ACPI to resolve bus numbers for subordinate PCI bridges.

Enhanced PCI IRQ routing to get the proper bus number for _PRT entries defined underneath PCI bridges.

Added IBM 600E to bad bios list due to invalid _ADR value for PIIX4 PCI-ISA bridge, resulting in improper PCI IRQ routing.

In the process of adding full MADT support (e.g. IOAPIC) for IA32 (acpi.c, mpparse.c) -- stay tuned.

Added back visual differentiation between fixed-feature and control-method buttons in dmesg. Buttons are also subtyped (e.g. button/power/PWRF) to simplify button identification.

We no longer use -Wno-unused when compiling debug. Please ignore any "_THIS_MODULE defined but not used" messages.

Can now shut down the system using "magic sysrq" key.

3) iASL Compiler version 2041:

Fixed a problem where conversion errors for hex/octal/decimal
constants were not reported.

Implemented a fix for the General Register template Address field.
This field was 8 bits when it should be 64.

Fixed a problem where errors/warnings were no longer being emitted
within the listing output file.

Implemented the ACPI 2.0A restriction on ACPI Table Signatures to
exactly 4 characters, alphanumeric only.

Summary of changes for this release: 03_08_02

1) ACPI CA Core Subsystem Version 20020308:

Fixed a problem with AML Fields where the use of the "AccessAny"
keyword could cause an interpreter error due
to attempting to read
or write beyond the end of the parent Operation Region.

Fixed a problem in the SystemMemory Operation Region handler where
an attempt was made to map memory beyond the end of the region.
This was the root cause of the "AE_ERROR" and "AE_NO_MEMORY"
errors on some Linux systems.

Fixed a problem where the interpreter/namespace "search to root"
algorithm was not functioning for some object types. Relaxed the
internal restriction on the search to allow upsearches for all
external object types as well as most internal types.

2) Linux:

We now use safe_halt() macro versus individual calls to sti | hlt.

Writing to the processor limit interface should now work. "echo 1"
will increase the limit, 2 will decrease, and 0 will reset to the

default.

3) ASL compiler:

Fixed segfault on Linux version.

Summary of changes for this release: 02_25_02

1) ACPI CA Core Subsystem:

Fixed a problem where the GPE bit masks were not initialized
properly,
 causing erratic GPE behavior.

Implemented limited support for multiple calling conventions. The
code can be generated with either the VPL (variable parameter
list, or "C") convention, or the FPL (fixed parameter list, or
"Pascal") convention. The core subsystem is about 3.4% smaller
when generated with FPL.

2) Linux

Re-add some /proc/acpi/event functionality that was lost during
the rewrite

Resolved issue with /proc events for fixed-feature buttons showing
up as the system device.

Fixed checks on C2/C3 latencies to be inclusive of maximum values.

Replaced AE_ERRORs in acpi_osl.c with more specific error codes.

Changed ACPI PRT option from "pci=noacpi-routing" to "pci=noacpi"

Fixed limit interface & usage to fix bugs with passive cooling
hysterisis.

Restructured PRT support.

Summary of changes for this label: 02_14_02

1) ACPI CA Core Subsystem:

Implemented support in AcpiLoadTable to allow loading of FACS and

FADT
tables.

Support for the now-obsolete interim 0.71 64-bit ACPI tables has
been removed. All 64-bit platforms should be migrated to the ACPI
2.0 tables. The actbl71.h header has been removed from the source
tree.

All C macros defined within the subsystem have been prefixed with
"ACPI_" to avoid collision with other system include files.

Removed the return value for the two AcpiOsPrint interfaces, since
it is never used and causes lint warnings for ignoring the return
value.

Added error checking to all internal mutex acquire and release
calls. Although a failure from one of these interfaces is
probably a fatal system error, these checks will cause the
immediate abort of the currently executing method or interface.

Fixed a problem where the AcpiSetCurrentResources interface could
fault. This was a side effect of the deployment of the new memory
allocation model.

Fixed a couple of problems with the Global Lock support introduced
in the last major build. The "common" (1.0/2.0)
internal FACS was
being overwritten with the FACS signature and clobbering the
Global Lock pointer. Also, the actual firmware FACS was being
unmapped after construction of the "common" FACS, preventing
access to the actual Global Lock field within it. The "common"
internal FACS is no longer installed as an actual ACPI table; it
is used simply as a global.

Code and Data Size: Current core subsystem library sizes are shown
below. These are the code and data sizes for the acpica.lib
produced by the Microsoft Visual C++ 6.0 compiler, and these
values do not include any ACPI driver or OSPM code. The debug
version of the code includes the debug output trace mechanism and
has a larger code and data size. Note that these values will vary
depending on the efficiency of the compiler and the compiler
options used during generation.

Previous Release (02_07_01)
Non-Debug Version: 65.2K Code, 6.2K Data, 71.4K Total
Debug Version: 136.9K Code, 56.4K Data, 193.3K Total

Current Release:
Non-Debug Version: 65.4K Code, 6.2K Data, 71.6K Total
Debug Version: 138.0K Code, 56.6K Data, 194.6K Total

2) Linux

Updated Linux-specific code for core macro and OSL interface changes described above.

Improved /proc/acpi/event. It now can be opened only once and has proper poll functionality.

Fixed and restructured power management (acpi_bus).

Only create /proc "view by type" when devices of that class exist.

Fixed "charging/discharging" bug (and others) in acpi_battery.

Improved thermal zone code.

3) ASL Compiler, version X2039:

Implemented the new compiler restriction on ASL String hex/octal escapes to non-null, ASCII values. An error results if an invalid value is used. (This will require an ACPI 2.0 specification change.)

AML object labels that are output to the optional C and ASM source are now prefixed with both the ACPI table signature and table ID to help guarantee uniqueness within a large BIOS project.

Summary
of changes for this label: 02_01_02

1) ACPI CA Core Subsystem:

ACPI 2.0 support is complete in the entire Core Subsystem and the ASL compiler. All new ACPI 2.0 operators are implemented and all other changes for ACPI 2.0 support are complete. With simultaneous code and data optimizations throughout the subsystem, ACPI 2.0 support has been implemented with almost no additional cost in terms of code and data size.

Implemented a new mechanism for allocation of return buffers. If the buffer length is set to ACPI_ALLOCATE_BUFFER, the buffer will be allocated on behalf of the caller. Consolidated all return buffer validation and allocation to a common procedure. Return buffers will be allocated via the primary OSL allocation interface since it appears that a separate pool is not needed by most users. If a separate pool is required for these buffers, the caller can still use the original mechanism and pre-allocate the buffer(s).

Implemented support for string operands within the DerefOf operator.

Restructured the Hardware and Event managers to be table driven, simplifying the source code and reducing the amount of generated code.

Split the common read/write low-level ACPI register bitfield procedure into a separate read and write, simplifying the code considerably.

Obsoleted the AcpiOsCallocate OSL interface. This interface was used only a handful of times and didn't have enough critical mass for a separate interface. Replaced with a common calloc procedure in the core.

Fixed a reported problem with the GPE number mapping mechanism that allows GPE1 numbers to be non-contiguous with GPE0. Reorganized the GPE information and shrunk a large array that was originally large enough to hold info for all possible GPEs (256) to simply large enough to hold all GPEs up to the largest GPE number on the machine.

Fixed a reported problem with resource structure alignment on 64-bit platforms.

Changed the AcpiEnableEvent and AcpiDisableEvent external interfaces to not require any flags for the common case of enabling/disabling a GPE.

Implemented support to allow a "Notify" on a Processor object.

Most TBDs in comments within the source code have been resolved and eliminated.

Fixed a problem in the interpreter where a standalone parent

prefix (^) was not handled correctly in the interpreter and
debugger.

Removed obsolete and unnecessary GPE save/restore code.

Implemented Field support in the ASL Load operator. This allows a
table to be loaded from a named field, in addition to loading a
table directly from an Operation Region.

Implemented timeout and handle support in the external Global Lock
interfaces.

Fixed a problem in the AcpiDump utility where pathnames were no
longer being generated correctly during the dump of named objects.

Modified the AML debugger to give a full display of if/while
predicates instead of just one AML opcode at a time. (The
predicate can have several nested ASL statements.) The old method
was
confusing during single stepping.

Code and Data Size: Current core subsystem library sizes are shown
below. These are the code and data sizes for the acpica.lib
produced by the Microsoft Visual C++ 6.0 compiler, and these
values do not include any ACPI driver or OSPM code. The debug
version of the code includes the debug output trace mechanism and
has a larger code and data size. Note that these values will vary
depending on the efficiency of the compiler and the compiler
options used during generation.

Previous Release (12_18_01)
Non-Debug Version: 66.1K Code, 5.5K Data, 71.6K Total
Debug Version: 138.3K Code, 55.9K Data, 194.2K Total
Current Release:
Non-Debug Version: 65.2K Code, 6.2K Data, 71.4K Total
Debug Version: 136.9K Code, 56.4K Data, 193.3K Total

2) Linux

Implemented fix for PIIX reverse throttling errata (Processor
driver)

Added new Limit interface (Processor and Thermal drivers)

New thermal policy (Thermal driver)

Many

updates to /proc

Battery "low" event support (Battery driver)

Supports ACPI PCI IRQ routing (PCI Link and PCI root drivers)

IA32 - IA64 initialization unification, no longer experimental

Menuconfig options redesigned

3) ASL Compiler, version X2037:

Implemented several new output features to simplify integration of AML code into firmware: 1) Output the AML in C source code with labels for each named ASL object. The original ASL source code is interleaved as C comments. 2) Output the AML in ASM source code with labels and interleaved ASL source. 3) Output the AML in raw hex table form, in either C or ASM.

Implemented support for optional string parameters to the LoadTable operator.

Completed support for embedded escape sequences within string literals. The compiler now supports all single character escapes as well as the Octal and Hex escapes. Note: the insertion of a null byte into a string literal (via the hex/octal escape) causes the string to be immediately
terminated. A warning is issued.

Fixed a problem where incorrect AML was generated for the case where an ASL namepath consists of a single parent prefix (

) with no trailing name segments.

The compiler has been successfully generated with a 64-bit C compiler.

Summary of changes for this label: 12_18_01

1) Linux

Enhanced blacklist with reason and severity fields. Any table's signature may now be used to identify a blacklisted system.

Call _PIC control method to inform the firmware which interrupt model the OS is using. Turn on any disabled link devices.

Cleaned up busmgr /proc error handling (Andreas Dilger)

2) ACPI CA Core Subsystem:

Implemented ACPI 2.0 semantics for the "Break" operator (Exit from while loop)

Completed implementation of the ACPI 2.0 "Continue", "ConcatenateResTemplate", "DataTableRegion", and "LoadTable" operators. All new ACPI 2.0 operators are now implemented in both the ASL compiler and the AML interpreter.
The only remaining ACPI 2.0 task is support for the String data type in the DerefOf operator. Fixed a problem with AcquireMutex where the status code was lost if the caller had to actually wait for the mutex.

Increased the maximum ASL Field size from 64K bits to 4G bits.

Completed implementation of the external Global Lock interfaces -- AcpiAcquireGlobalLock and AcpiReleaseGlobalLock. The Timeout and Handler parameters were added.

Completed another pass at removing warnings and issues when compiling with 64-bit compilers. The code now compiles cleanly with the Intel 64-bit C/C++ compiler. Most notably, the pointer add and subtract (diff) macros have changed considerably.

Created and deployed a new ACPI_SIZE type that is 64-bits wide on 64-bit platforms, 32-bits on all others. This type is used wherever memory allocation and/or the C sizeof() operator is used, and affects the OSL memory allocation interfaces AcpiOsAllocate and AcpiOsCallocate.

Implemented sticky user breakpoints in the AML debugger.

Code and Data Size: Current core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options used during generation.

Previous Release (12_05_01)
Non-Debug Version: 64.7K Code, 5.3K Data, 70.0K Total
Debug Version: 136.2K Code, 55.6K Data, 191.8K Total
Current Release:
Non-Debug Version: 66.1K Code, 5.5K Data, 71.6K Total
Debug Version: 138.3K Code, 55.9K Data, 194.2K Total

3) ASL Compiler, version X2034:

Now checks for (and generates an error if detected) the use of a
Break or Continue statement without an enclosing While statement.

Successfully generated
the compiler with the Intel 64-bit C
compiler.

Summary of changes for this label: 12_05_01

1) ACPI CA Core Subsystem:

The ACPI 2.0 CopyObject operator is fully implemented. This
operator creates a new copy of an object (and is also used to
bypass the "implicit conversion" mechanism of the Store operator.)

The ACPI 2.0 semantics for the SizeOf operator are fully
implemented. The change is that performing a SizeOf on a
reference object causes an automatic dereference of the object to
the actual value before the size is evaluated. This behavior was
undefined in ACPI 1.0.

The ACPI 2.0 semantics for the Extended IRQ resource descriptor
have been implemented. The interrupt polarity and mode are now
independently set.

Fixed a problem where ASL Constants (Zero, One, Ones, Revision)
appearing in Package objects were not properly converted to
integers when the internal Package was converted to an external
object (via the AcpiEvaluateObject interface.)

Fixed
a problem with the namespace object deletion mechanism for
objects created by control methods. There were two parts to this
problem: 1) Objects created during the initialization phase method
parse were not being deleted, and 2) The object owner ID mechanism
to track objects was broken.

Fixed a problem where the use of the ASL Scope operator within a control method would result in an invalid opcode exception.

Fixed a problem introduced in the previous label where the buffer length required for the _PRT structure was not being returned correctly.

Code and Data Size: Current core subsystem library sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the debug output trace mechanism and has a larger code and data size. Note that these values will vary depending on the efficiency of the compiler
and the compiler
options used during generation.

Previous Release (11_20_01)
Non-Debug Version: 64.1K Code, 5.3K Data, 69.4K Total
Debug Version: 135.1K Code, 55.4K Data, 190.5K Total

Current Release:
Non-Debug Version: 64.7K Code, 5.3K Data, 70.0K Total
Debug Version: 136.2K Code, 55.6K Data, 191.8K Total

2) Linux:

Updated all files to apply cleanly against 2.4.16.

Added basic PCI Interrupt Routing Table (PRT) support for IA32 (acpi_pci.c), and unified the PRT code for IA32 and IA64. This version supports both static and dynamic PRT entries, but dynamic entries are treated as if they were static (not yet reconfigurable). Architecture- specific code to use this data is absent on IA32 but should be available shortly.

Changed the initialization sequence to start the ACPI interpreter (acpi_init) prior to initialization of the PCI driver (pci_init) in init/main.c. This ordering is required to support PRT and facilitate other (future)
enhancement. A side effect is that the
ACPI bus driver and certain device drivers can no longer be loaded as modules.

Modified the 'make menuconfig' options to allow PCI Interrupt Routing support to be included without the ACPI Bus and other device drivers.

3) ASL Compiler, version X2033:

Fixed some issues with the use of the new CopyObject and
DataTableRegion operators. Both are fully functional.

Summary of changes for this label: 11_20_01

20 November 2001. Summary of changes for this release.

1) ACPI CA Core Subsystem:

Updated Index support to match ACPI 2.0 semantics. Storing a
Integer, String, or Buffer to an Index of a Buffer will store only
the least-significant byte of the source to the Indexed buffer
byte. Multiple writes are not performed.

Fixed a problem where the access type used in an AccessAs ASL
operator was not recorded correctly into the field object.

Fixed a problem where ASL Event objects were created in a
signalled
 state. Events are now created in an unsignalled state.

The internal object cache is now purged after table loading and
initialization to reduce the use of dynamic kernel memory -- on
the assumption that object use is greatest during the parse phase
of the entire table (versus the run-time use of individual control
methods.)

ACPI 2.0 variable-length packages are now fully operational.

Code and Data Size: Code and Data optimizations have permitted new
feature development with an actual reduction in the library size.
Current core subsystem library sizes are shown below. These are
the code and data sizes for the acpica.lib produced by the
Microsoft Visual C++ 6.0 compiler, and these values do not include
any ACPI driver or OSPM code. The debug version of the code
includes the debug output trace mechanism and has a larger code
and data size. Note that these values will vary depending on the
efficiency of the compiler and the compiler options used during
generation.

 Previous
 Release (11_09_01):
    Non-Debug Version: 63.7K Code,   5.2K Data,   68.9K Total
    Debug Version: 134.5K Code, 55.4K Data, 189.9K Total

Current Release:
Non-Debug Version: 64.1K Code, 5.3K Data, 69.4K Total
Debug Version: 135.1K Code, 55.4K Data, 190.5K Total

2) Linux:

Enhanced the ACPI boot-time initialization code to allow the use
of Local APIC tables for processor enumeration on IA-32, and to
pave the way for a fully MPS-free boot (on SMP systems) in the
near future. This functionality replaces
arch/i386/kernel/acpitables.c, which was introduced in an earlier
2.4.15-preX release. To enable this feature you must add
"acpi_boot=on" to the kernel command line -- see the help entry
for CONFIG_ACPI_BOOT for more information. An IA-64 release is in
the works...

Restructured the configuration options to allow boot-time table
parsing support without inclusion of the ACPI Interpreter (and
other) code.

NOTE: This release does not include fixes for the
reported events,
power-down, and thermal passive cooling issues (coming soon).

3) ASL Compiler:

Added additional typechecking for Fields within restricted access
Operation Regions. All fields within EC and CMOS regions must be
declared with ByteAcc. All fields within SMBus regions must be
declared with the BufferAcc access type.

Fixed a problem where the listing file output of control methods
no longer interleaved the actual AML code with the ASL source
code.

Summary of changes for this label: 11_09_01

1) ACPI CA Core Subsystem:

Implemented ACPI 2.0-defined support for writes to fields with a
Buffer, String, or Integer source operand that is smaller than the
target field. In these cases, the source operand is zero-extended
to fill the target field.

Fixed a problem where a Field starting bit offset (within the
parent operation region) was calculated incorrectly if the

alignment of the field differed from the access width. This
affected
CreateWordField, CreateDwordField, CreateQwordField, and
possibly other fields that use the "AccessAny" keyword.

Fixed a problem introduced in the 11_02_01 release where indirect
stores through method arguments did not operate correctly.

2) Linux:

Implemented boot-time ACPI table parsing support
(CONFIG_ACPI_BOOT) for IA32 and IA64 UP/SMP systems. This code
facilitates the use of ACPI tables (e.g. MADT, SRAT) rather than
legacy BIOS interfaces (e.g. MPS) for the configuration of system
processors, memory, and interrupts during setup_arch(). Note that
this patch does not include the required architecture-specific
changes required to apply this information -- subsequent patches
will be posted for both IA32 and IA64 to achieve this.

Added low-level sleep support for IA32 platforms, courtesy of Pat
Mochel. This allows IA32 systems to transition to/from various
sleeping states (e.g. S1, S3), although the lack of a centralized
driver model and power-manageable drivers will prevent
its
(successful) use on most systems.

Revamped the ACPI 'menuconfig' layout: created new "ACPI Support"
submenu, unified IA32 and IA64 options, added new "Boot using ACPI
tables" option, etc.

Increased the default timeout for the EC driver from 1ms to 10ms
(1000 cycles of 10us) to try to address AE_TIME errors during EC
transactions.

Summary of changes for this label: 11_02_01

1) ACPI CA Core Subsystem:

ACPI 2.0 Support: Implemented ACPI 2.0 64-bit Field access
(QWordAcc keyword). All ACPI 2.0 64-bit support is now
implemented.

OSL Interfaces: Several of the OSL (AcpiOs*) interfaces required

changes to support ACPI 2.0 Qword field access. Read/Write PciConfiguration(), Read/Write Memory(), and Read/Write Port() now accept an ACPI_INTEGER (64 bits) as the value parameter. Also, the value parameter for the address space handler interface is now an ACPI_INTEGER. OSL implementations of these interfaces must now handle the case where the
Width parameter is 64.

Index Fields: Fixed a problem where unaligned bit assembly and disassembly for IndexFields was not supported correctly.

Index and Bank Fields: Nested Index and Bank Fields are now supported. During field access, a check is performed to ensure that the value written to an Index or Bank register is not out of the range of the register. The Index (or Bank) register is written before each access to the field data. Future support will include allowing individual IndexFields to be wider than the DataRegister width.

Fields: Fixed a problem where the AML interpreter was incorrectly attempting to write beyond the end of a Field/OpRegion. This was a boundary case that occurred when a DWORD field was written to a BYTE access OpRegion, forcing multiple writes and causing the interpreter to write one datum too many.

Fields: Fixed a problem with Field/OpRegion access where the starting bit address of a field was incorrectly calculated if the current access type was wider
than a byte (WordAcc, DwordAcc, or
QwordAcc).

Fields: Fixed a problem where forward references to individual FieldUnits (individual Field names within a Field definition) were not resolved during the AML table load.

Fields: Fixed a problem where forward references from a Field definition to the parent Operation Region definition were not resolved during the AML table load.

Fields: Duplicate FieldUnit names within a scope are now detected during AML table load.

Acpi Interfaces: Fixed a problem where the AcpiGetName() interface returned an incorrect name for the root node.

Code and Data Size: Code and Data optimizations have permitted new feature development with an actual reduction in the library size. Current core subsystem library sizes are shown below. These are

the code and data sizes for the acpica.lib produced by the
Microsoft Visual C++ 6.0 compiler, and these values do not include
any ACPI driver or OSPM code. The debug version of the code
includes the debug output trace
 mechanism and has a larger code
and data size. Note that these values will vary depending on the
efficiency of the compiler and the compiler options used during
generation.

 Previous Release (10_18_01):
    Non-Debug Version: 63.9K Code,   5.1K Data,   69.0K Total
    Debug Version: 136.7K Code, 57.4K Data, 194.2K Total

 Current Release:
    Non-Debug Version: 63.7K Code,   5.2K Data,   68.9K Total
    Debug Version: 134.5K Code, 55.4K Data, 189.9K Total

2) Linux:

Improved /proc processor output (Pavel Machek) Re-added
MODULE_LICENSE("GPL") to all modules.

3) ASL Compiler version X2030:

Duplicate FieldUnit names within a scope are now detected and
flagged as errors.

4) Documentation:

Programmer Reference updated to reflect OSL and address space
handler interface changes described above.

Summary of changes for this label: 10_18_01

ACPI CA Core Subsystem:

Fixed a problem with the internal object reference count
 mechanism
that occasionally caused premature object deletion. This resolves
all of the outstanding problem reports where an object is deleted
in the middle of an interpreter evaluation. Although this problem
only showed up in rather obscure cases, the solution to the
problem involved an adjustment of all reference counts involving
objects attached to namespace nodes.

Fixed a problem with Field support in the interpreter where
writing to an aligned field whose length is an exact multiple (2

or greater) of the field access granularity would cause an attempt
to write beyond the end of the field.

The top level AML opcode execution functions within the
interpreter have been renamed with a more meaningful and
consistent naming convention. The modules exmonad.c and
exdyadic.c were eliminated. New modules are exoparg1.c,
exoparg2.c, exoparg3.c, and exoparg6.c.

Support for the ACPI 2.0 "Mid" ASL operator has been implemented.

Fixed a problem where the AML debugger was causing some internal
objects
 to not be deleted during subsystem termination.

Fixed a problem with the external AcpiEvaluateObject interface
where the subsystem would fault if the named object to be
evaluated referred to a constant such as Zero, Ones, etc.

Fixed a problem with IndexFields and BankFields where the
subsystem would fault if the index, data, or bank registers were
not defined in the same scope as the field itself.

Added printf format string checking for compilers that support
this feature. Corrected more than 50 instances of issues with
format specifiers within invocations of ACPI_DEBUG_PRINT
throughout the core subsystem code.

The ASL "Revision" operator now returns the ACPI support level
implemented in the core - the value "2" since the ACPI 2.0 support
is more than 50% implemented.

Enhanced the output of the AML debugger "dump namespace" command
to output in a more human-readable form.

Current core subsystem library code sizes are shown below. These

are the code and data sizes
 for the acpica.lib produced by the
Microsoft Visual C++ 6.0 compiler, and these values do not include
any ACPI driver or OSPM code. The debug version of the code
includes the full debug trace mechanism -- leading to a much

larger code and data size. Note that these values will vary
depending on the efficiency of the compiler and the compiler
options used during generation.

    Previous Label (09_20_01):

Non-Debug Version: 65K Code, 5K Data, 70K Total
Debug Version: 138K Code, 58K Data, 196K Total

This Label:

Non-Debug Version: 63.9K Code, 5.1K Data, 69.0K Total
Debug Version: 136.7K Code, 57.4K Data, 194.2K Total

Linux:

Implemented a "Bad BIOS Blacklist" to track machines that have known ASL/AML problems.

Enhanced the /proc interface for the thermal zone driver and added support for _HOT (the critical suspend trip point). The 'info' file now includes threshold/policy information, and allows setting of _SCP (cooling preference)
and _TZP (polling frequency) values
to the 'info' file. Examples: "echo tzp=5 > info" sets the polling frequency to 5 seconds, and "echo scp=1 > info" sets the cooling preference to the passive/quiet mode (if supported by the ASL).

Implemented a workaround for a gcc bug that resuted in an OOPs when loading the control method battery driver.

Summary of changes for this label: 09_20_01

ACPI CA Core Subsystem:

The AcpiEnableEvent and AcpiDisableEvent interfaces have been modified to allow individual GPE levels to be flagged as wake-enabled (i.e., these GPEs are to remain enabled when the platform sleeps.)

The AcpiEnterSleepState and AcpiLeaveSleepState interfaces now support wake-enabled GPEs. This means that upon entering the sleep state, all GPEs that are not wake-enabled are disabled. When leaving the sleep state, these GPEs are re-enabled.

A local double-precision divide/modulo module has been added to enhance portability to
OS kernels where a 64-bit math library is
not available. The new module is "utmath.c".

Several optimizations have been made to reduce the use of CPU stack. Originally over 2K, the maximum stack usage is now below 2K at 1860 bytes (1.82k)

Fixed a problem with the AcpiGetFirmwareTable interface where the root table pointer was not mapped into a logical address properly.

Fixed a problem where a NULL pointer was being dereferenced in the interpreter code for the ASL Notify operator.

Fixed a problem where the use of the ASL Revision operator returned an error. This operator now returns the current version of the ACPI CA core subsystem.

Fixed a problem where objects passed as control method parameters to AcpiEvaluateObject were always deleted at method termination. However, these objects may end up being stored into the namespace by the called method. The object reference count mechanism was applied to these objects instead of a force delete.

Fixed a problem where static strings
or buffers (contained in the
AML code) that are declared as package elements within the ASL code could cause a fault because the interpreter would attempt to delete them. These objects are now marked with the "static object" flag to prevent any attempt to delete them.

Implemented an interpreter optimization to use operands directly from the state object instead of extracting the operands to local variables. This reduces stack use and code size, and improves performance.

The module exxface.c was eliminated as it was an unnecessary extra layer of code.

Current core subsystem library code sizes are shown below. These are the code and data sizes for the acpica.lib produced by the Microsoft Visual C++ 6.0 compiler, and these values do not include any ACPI driver or OSPM code. The debug version of the code includes the full debug trace mechanism -- leading to a much larger code and data size. Note that these values will vary depending on the efficiency of the compiler and the compiler options
used during generation.

Non-Debug Version: 65K Code, 5K Data, 70K Total (Previously 69K) Debug Version: 138K Code, 58K Data, 196K Total (Previously 195K)

Linux:

Support for ACPI 2.0 64-bit integers has been added. All ACPI
Integer objects are now 64 bits wide

All Acpi data types and structures are now in lower case. Only
Acpi macros are upper case for differentiation.

Documentation:

Changes to the external interfaces as described above.

Summary of changes for this label: 08_31_01

ACPI CA Core Subsystem:

A bug with interpreter implementation of the ASL Divide operator
was found and fixed. The implicit function return value (not the
explicit store operands) was returning the remainder instead of
the quotient. This was a longstanding bug and it fixes several
known outstanding issues on various platforms.

The ACPI_DEBUG_PRINT and function trace entry/exit macros have
been further optimized for size. There
 are 700 invocations of the
DEBUG_PRINT macro alone, so each optimization reduces the size of
the debug version of the subsystem significantly.

A stack trace mechanism has been implemented. The maximum stack
usage is about 2K on 32-bit platforms. The debugger command "stat
stack" will display the current maximum stack usage.

All public symbols and global variables within the subsystem are
now prefixed with the string "Acpi". This keeps all of the
symbols grouped together in a kernel map, and avoids conflicts
with other kernel subsystems.

Most of the internal fixed lookup tables have been moved into the
code segment via the const operator.

Several enhancements have been made to the interpreter to both
reduce the code size and improve performance.

Current core subsystem library code sizes are shown below. These
are the code and data sizes for the acpica.lib produced by the
Microsoft Visual C++ 6.0 compiler, and these values do not include
any ACPI driver or OSPM code. The debug
 version of the code
includes the full debug trace mechanism which contains over 700

invocations of the DEBUG_PRINT macro, 500 function entry macro
invocations, and over 900 function exit macro invocations --
leading to a much larger code and data size. Note that these
values will vary depending on the efficiency of the compiler and
the compiler options used during generation.

Non-Debug Version: 64K Code, 5K Data, 69K Total
Debug Version: 137K Code, 58K Data, 195K Total

Linux:

Implemented wbinvd() macro, pending a kernel-wide definition.

Fixed /proc/acpi/event to handle poll() and short reads.

ASL Compiler, version X2026:

Fixed a problem introduced in the previous label where the AML

code emitted for package objects produced packages with zero
length.

Summary of changes for this label: 08_16_01

ACPI CA Core Subsystem:

The following ACPI 2.0 ASL operators have been implemented in the
AML interpreter (These are already
supported by the Intel ASL
compiler): ToDecimalString, ToHexString, ToString, ToInteger, and
ToBuffer. Support for 64-bit AML constants is implemented in the
AML parser, debugger, and disassembler.

The internal memory tracking mechanism (leak detection code) has
been upgraded to reduce the memory overhead (a separate tracking
block is no longer allocated for each memory allocation), and now
supports all of the internal object caches.

The data structures and code for the internal object caches have
been coelesced and optimized so that there is a single cache and
memory list data structure and a single group of functions that
implement generic cache management. This has reduced the code
size in both the debug and release versions of the subsystem.

The DEBUG_PRINT macro(s) have been optimized for size and replaced
by ACPI_DEBUG_PRINT. The syntax for this macro is slightly
different, because it generates a single call to an internal

function. This results in a savings of about
 90 bytes per
invocation, resulting in an overall code and data savings of about
16% in the debug version of the subsystem.

Linux:

Fixed C3 disk corruption problems and re-enabled C3 on supporting
machines.

Integrated low-level sleep code by Patrick Mochel.

Further tweaked source code Linuxization.

Other minor fixes.

ASL Compiler:

Support for ACPI 2.0 variable length packages is fixed/completed.

Fixed a problem where the optional length parameter for the ACPI
2.0 ToString operator.

Fixed multiple extraneous error messages when a syntax error is
detected within the declaration line of a control method.

Summary of changes for this label: 07_17_01

ACPI CA Core Subsystem:

Added a new interface named AcpiGetFirmwareTable to obtain any
ACPI table via the ACPI signature. The interface can be called at
any time during kernel initialization, even before the kernel
virtual memory manager is initialized and paging is enabled. This
allows kernel
 subsystems to obtain ACPI tables very early, even
before the ACPI CA subsystem is initialized.

Fixed a problem where Fields defined with the AnyAcc attribute
could be resolved to the incorrect address under the following
conditions: 1) the field width is larger than 8 bits and 2) the
parent operation region is not defined on a DWORD boundary.

Fixed a problem where the interpreter is not being locked during
namespace initialization (during execution of the _INI control
methods), causing an error when an attempt is made to release it
later.

ACPI 2.0 support in the AML Interpreter has begun and will be ongoing throughout the rest of this year. In this label, The Mod operator is implemented.

Added a new data type to contain full PCI addresses named ACPI_PCI_ID. This structure contains the PCI Segment, Bus, Device, and Function values.

Linux:

Enhanced the Linux version of the source code to change most capitalized ACPI type names to lowercase. For example, all instances of ACPI_STATUS
are changed to acpi_status. This will
result in a large diff, but the change is strictly cosmetic and aligns the CA code closer to the Linux coding standard.

OSL Interfaces:

The interfaces to the PCI configuration space have been changed to add the PCI Segment number and to split the single 32-bit combined DeviceFunction field into two 16-bit fields. This was accomplished by moving the four values that define an address in PCI configuration space (segment, bus, device, and function) to the new ACPI_PCI_ID structure.

The changes to the PCI configuration space interfaces led to a reexamination of the complete set of address space access interfaces for PCI, I/O, and Memory. The previously existing 18 interfaces have proven difficult to maintain (any small change must be propagated across at least 6 interfaces) and do not easily allow for future expansion to 64 bits if necessary. Also, on some systems, it would not be appropriate to demultiplex the access width (8, 16, 32,or
64) before calling the OSL if the
corresponding native OS interfaces contain a similar access width parameter. For these reasons, the 18 address space interfaces have been replaced by these 6 new ones:

AcpiOsReadPciConfiguration
AcpiOsWritePciConfiguration
AcpiOsReadMemory
AcpiOsWriteMemory
AcpiOsReadPort
AcpiOsWritePort

Added a new interface named AcpiOsGetRootPointer to allow the OSL

to perform the platform and/or OS-specific actions necessary to
obtain the ACPI RSDP table pointer. On IA-32 platforms, this
interface will simply call down to the CA core to perform the low-
memory search for the table. On IA-64, the RSDP is obtained from
EFI. Migrating this interface to the OSL allows the CA core to

remain OS and platform independent.

Added a new interface named AcpiOsSignal to provide a generic
"function code and pointer" interface for various miscellaneous
signals and notifications that must be made to the host OS. The
first such signals are intended to support the ASL Fatal
 and
Breakpoint operators. In the latter case, the AcpiOsBreakpoint
interface has been obsoleted.

The definition of the AcpiFormatException interface has been
changed to simplify its use. The caller no longer must supply a
buffer to the call; A pointer to a const string is now returned
directly. This allows the call to be easily used in printf
statements, etc. since the caller does not have to manage a local
buffer.

ASL Compiler, Version X2025:

The ACPI 2.0 Switch/Case/Default operators have been implemented
and are fully functional. They will work with all ACPI 1.0
interpreters, since the operators are simply translated to If/Else
pairs.

The ACPI 2.0 ElseIf operator is implemented and will also work
with 1.0 interpreters, for the same reason.

Implemented support for ACPI 2.0 variable-length packages. These
packages have a separate opcode, and their size is determined by
the interpreter at run-time.

Documentation The ACPI CA Programmer Reference has been updated to
reflect
 the new interfaces and changes to existing interfaces.

Summary of changes for this label: 06_15_01

ACPI CA Core Subsystem:

Fixed a problem where a DWORD-accessed field within a Buffer

object would get its byte address inadvertently rounded down to
the nearest DWORD. Buffers are always Byte-accessible.

ASL Compiler, version X2024:

Fixed a problem where the Switch() operator would either fault or
hang the compiler. Note however, that the AML code for this ACPI
2.0 operator is not yet implemented.

Compiler uses the new AcpiOsGetTimer interface to obtain compile
timings.

Implementation of the CreateField operator automatically converts
a reference to a named field within a resource descriptor from a
byte offset to a bit offset if required.

Added some missing named fields from the resource descriptor
support. These are the names that are automatically created by the
compiler to reference fields within a descriptor. They are only
valid
 at compile time and are not passed through to the AML
interpreter.

Resource descriptor named fields are now typed as Integers and
subject to compile-time typechecking when used in expressions.

Summary of changes for this label: 05_18_01

ACPI CA Core Subsystem:

Fixed a couple of problems in the Field support code where bits
from adjacent fields could be returned along with the proper field
bits. Restructured the field support code to improve performance,
readability and maintainability.

New DEBUG_PRINTP macro automatically inserts the procedure name
into the output, saving hundreds of copies of procedure name
strings within the source, shrinking the memory footprint of the
debug version of the core subsystem.

Source Code Structure:

The source code directory tree was restructured to reflect the
current organization of the component architecture. Some files
and directories have been moved and/or renamed.

Linux:

Fixed leaking kacpidpc
processes.

Fixed queueing event data even when /proc/acpi/event is not
opened.

ASL Compiler, version X2020:

Memory allocation performance enhancement - over 24X compile time
improvement on large ASL files. Parse nodes and namestring
buffers are now allocated from a large internal compiler buffer.

The temporary .SRC file is deleted unless the "-s" option is
specified

The "-d" debug output option now sends all output to the .DBG file
instead of the console.

"External" second parameter is now optional

"ElseIf" syntax now properly allows the predicate

Last operand to "Load" now recognized as a Target operand

Debug object can now be used anywhere as a normal object.

ResourceTemplate now returns an object of type BUFFER

EISAID now returns an object of type INTEGER

"Index" now works with a STRING operand

"LoadTable" now accepts optional parameters

"ToString" length parameter is now optional

"Interrupt (ResourceType," parse error fixed.

"Register" with a user-defined region
space parse error fixed

Escaped backslash at the end of a string ("\\") scan/parse error
fixed

"Revision" is now an object of type INTEGER.

Summary of changes for this label: 05_02_01

Linux:

/proc/acpi/event now blocks properly.

Removed /proc/sys/acpi. You can still dump your DSDT from
/proc/acpi/dsdt.

ACPI CA Core Subsystem:

Fixed a problem introduced in the previous label where some of the
"small" resource descriptor types were not recognized.

Improved error messages for the case where an ASL Field is outside
the range of the parent operation region.

ASL Compiler, version X2018:

Added error detection for ASL Fields that extend beyond the length
of the parent operation region (only if the length of the region
is known at compile time.) This includes fields that have a
minimum access width that is smaller than the parent region, and
individual field units that are partially or entirely beyond the
extent of the parent.

Summary
 of changes for this label: 04_27_01

ACPI CA Core Subsystem:

Fixed a problem where the namespace mutex could be released at the
wrong time during execution of AcpiRemoveAddressSpaceHandler.

Added optional thread ID output for debug traces, to simplify
debugging of multiple threads. Added context switch notification
when the debug code realizes that a different thread is now
executing ACPI code.

Some additional external data types have been prefixed with the
string "ACPI_" for consistency. This may effect existing code.
The data types affected are the external callback typedefs - e.g.,

WALK_CALLBACK becomes ACPI_WALK_CALLBACK.

Linux:

Fixed an issue with the OSL semaphore implementation where a
thread was waking up with an error from receiving a SIGCHLD
signal.

Linux version of ACPI CA now uses the system C library for string
manipulation routines instead of a local implementation.

Cleaned up comments and removed TBDs.

ASL
Compiler, version X2017:

Enhanced error detection and reporting for all file I/O
operations.

Documentation:

Programmer Reference updated to version 1.06.

Summary of changes for this label: 04_13_01

ACPI CA Core Subsystem:

Restructured support for BufferFields and RegionFields.
BankFields support is now fully operational. All known 32-bit
limitations on field sizes have been removed. Both BufferFields
and (Operation) RegionFields are now supported by the same field
management code.

Resource support now supports QWORD address and IO resources. The
16/32/64 bit address structures and the Extended IRQ structure
have been changed to properly handle Source Resource strings.

A ThreadId of -1 is now used to indicate a "mutex not acquired"
condition internally and must never be returned by AcpiOsThreadId.
This reserved value was changed from 0 since Unix systems allow a
thread ID of 0.

Linux:

Driver code reorganized to enhance portability

Added
a kernel configuration option to control ACPI_DEBUG

Fixed the EC driver to honor _GLK.

ASL Compiler, version X2016:

Fixed support for the "FixedHw" keyword. Previously, the FixedHw address space was set to 0, not 0x7f as it should be.

Summary of changes for this label: 03_13_01

ACPI CA Core Subsystem:

During ACPI initialization, the _SB_._INI method is now run if present.

Notify handler fix - notifies are deferred until the parent method completes execution. This fixes the "mutex already acquired" issue seen occasionally.

Part of the "implicit conversion" rules in ACPI 2.0 have been found to cause compatibility problems with existing ASL/AML. The convert "result-to-target-type" implementation has been removed for stores to method Args and Locals. Source operand conversion is still fully implemented. Possible changes to ACPI 2.0 specification pending.

Fix to AcpiRsCalculatePciRoutingTableLength to return correct length.

Fix
for compiler warnings for 64-bit compiles.

Linux:

/proc output aligned for easier parsing.

Release-version compile problem fixed.

New kernel configuration options documented in Configure.help.

IBM 600E - Fixed Sleep button may generate "Invalid <NULL> context" message.

OSPM:

Power resource driver integrated with bus manager.

Fixed kernel fault during active cooling for thermal zones.

Source Code:

The source code tree has been restructured.

Summary of changes for this label: 03_02_01

Linux OS Services Layer (OSL):

Major revision of all Linux-specific code.

Modularized all ACPI-specific drivers.

Added new thermal zone and power resource drivers.

Revamped /proc interface (new functionality is under /proc/acpi).

New kernel configuration options.

Linux known issues:

New kernel configuration options not documented in Configure.help yet.

Module dependencies not currently implemented. If used, they should be loaded in
this order: busmgr, power, ec, system,
processor, battery, ac_adapter, button, thermal.

Modules will not load if CONFIG_MODVERSION is set.

IBM 600E - entering S5 may reboot instead of shutting down.

IBM 600E - Sleep button may generate "Invalid <NULL> context" message.

Some systems may fail with "execution mutex already acquired" message.

ACPI CA Core Subsystem:

Added a new OSL Interface, AcpiOsGetThreadId. This was required for the deadlock detection code. Defined to return a non-zero, 32-bit thread ID for the currently executing thread. May be a non-zero constant integer on single-thread systems.

Implemented deadlock detection for internal subsystem mutexes. We may add conditional compilation for this code (debug only) later.

ASL/AML Mutex object semantics are now fully supported. This includes multiple acquires/releases by owner and support for the

Mutex SyncLevel parameter.

A new "Force Release" mechanism automatically frees all ASL Mutexes that have been acquired
but not released when a thread
exits the interpreter. This forces conformance to the ACPI spec ("All mutexes must be released when an invocation exits") and prevents deadlocked ASL threads. This mechanism can be expanded (later) to monitor other resource acquisitions if OEM ASL code continues to misbehave (which it will).

Several new ACPI exception codes have been added for the Mutex support.

Recursive method calls are now allowed and supported (the ACPI spec does in fact allow recursive method calls.) The number of recursive calls is subject to the restrictions imposed by the SERIALIZED method keyword and SyncLevel (ACPI 2.0) method parameter.

Implemented support for the SyncLevel parameter for control methods (ACPI 2.0 feature)

Fixed a deadlock problem when multiple threads attempted to use the interpreter.

Fixed a problem where the string length of a String package element was not always set in a package returned from AcpiEvaluateObject.

Fixed a problem where the length
of a String package element was
not always included in the length of the overall package returned from AcpiEvaluateObject.

Added external interfaces (Acpi*) to the ACPI debug memory manager. This manager keeps a list of all outstanding allocations, and can therefore detect memory leaks and attempts to free memory blocks more than once. Useful for code such as the power manager, etc. May not be appropriate for device drivers. Performance with the debug code enabled is slow.

The ACPI Global Lock is now an optional hardware element.

ASL Compiler Version X2015:

Integrated changes to allow the compiler to be generated on multiple platforms.

Linux makefile added to generate the compiler on Linux

Source Code:

All platform-specific headers have been moved to their own subdirectory, Include/Platform.

New source file added, Interpreter/ammutex.c

New header file, Include/acstruct.h

Documentation:

The programmer reference has been updated for the following new interfaces: AcpiOsGetThreadId
AcpiAllocate AcpiCallocate AcpiFree

Summary of changes for this label: 02_08_01

Core ACPI CA Subsystem: Fixed a problem where an error was incorrectly returned if the return resource buffer was larger than the actual data (in the resource interfaces).

References to named objects within packages are resolved to the

full pathname string before packages are returned directly (via the AcpiEvaluateObject interface) or indirectly via the resource interfaces.

Linux OS Services Layer (OSL):

Improved /proc battery interface.

Added C-state debugging output and other miscellaneous fixes.

ASL Compiler Version X2014:

All defined method arguments can now be used as local variables,
including the ones that are not actually passed in as parameters.
The compiler tracks initialization of the arguments and issues an
exception if they are used without prior assignment (just like
locals).

The -o option now specifies a filename prefix that is used
for all
output files, including the AML output file. Otherwise, the
default behavior is as follows: 1) the AML goes to the file
specified in the DSDT. 2) all other output files use the input
source filename as the base.

Summary of changes for this label: 01_25_01

Core ACPI CA Subsystem: Restructured the implementation of object
store support within the interpreter. This includes support for
the Store operator as well as any ASL operators that include a
target operand.

Partially implemented support for Implicit Result-to-Target
conversion. This is when a result object is converted on the fly
to the type of an existing target object. Completion of this
support is pending further analysis of the ACPI specification
concerning this matter.

CPU-specific code has been removed from the subsystem (hardware
directory).

New Power Management Timer functions added

Linux OS Services Layer (OSL): Moved system state transition code
to the
core, fixed it, and modified Linux OSL accordingly.

Fixed C2 and C3 latency calculations.

We no longer use the compilation date for the version message on
initialization, but retrieve the version from AcpiGetSystemInfo().

Incorporated for fix Sony VAIO machines.

Documentation: The Programmer Reference has been updated and
reformatted.

ASL Compiler: Version X2013: Fixed a problem where the line
numbering and error reporting could get out of sync in the
presence of multiple include files.

Summary of changes for this label: 01_15_01

Core ACPI CA Subsystem:

Implemented support for type conversions in the execution of the
ASL Concatenate operator (The second operand is converted to
match the type of the first operand before concatenation.)

Support for implicit source operand conversion is partially
implemented. The ASL source operand types Integer, Buffer, and
String are freely interchangeable for most ASL operators and are
converted
 by the interpreter on the fly as required. Implicit
Target operand conversion (where the result is converted to the
target type before storing) is not yet implemented.

Support for 32-bit and 64-bit BCD integers is implemented.

Problem fixed where a field read on an aligned field could cause a
read past the end of the field.

New exception, AE_AML_NO_RETURN_VALUE, is returned when a method
does not return a value, but the caller expects one. (The ASL
compiler flags this as a warning.)

ASL Compiler:

Version X2011:
1. Static typechecking of all operands is implemented. This
prevents the use of invalid objects (such as using a Package where
an Integer is required) at compile time instead of at interpreter
run-time.
2. The ASL source line is printed with ALL errors and warnings.
3. Bug fix for source EOF without final linefeed.
4. Debug option is split into a parse trace and a namespace trace.
5. Namespace output option (-n) includes initial values for
integers and strings.
6.

Parse-only option added for quick syntax checking.
7. Compiler checks for duplicate ACPI name declarations

Version X2012:
1. Relaxed typechecking to allow interchangeability between
strings, integers, and buffers. These types are now converted by
the interpreter at runtime.
2. Compiler reports time taken by each internal subsystem in the
debug output file.

Summary of changes for this label: 12_14_00

ASL Compiler:

This is the first official release of the compiler. Since the
compiler requires elements of the Core Subsystem, this label
synchronizes everything.

Summary of changes for this label: 12_08_00

Fixed a problem where named references within the ASL definition
of both OperationRegions and CreateXXXFields did not work
properly. The symptom was an AE_AML_OPERAND_TYPE during
initialization of the region/field. This is similar (but not
related internally) to the problem that was
fixed in the last
label.

Implemented both 32-bit and 64-bit support for the BCD ASL
functions ToBCD and FromBCD.

Updated all legal headers to include "2000" in the copyright
years.

Summary of changes for this label: 12_01_00

Fixed a problem where method invocations within the ASL definition
of both OperationRegions and CreateXXXFields did not work
properly. The symptom was an AE_AML_OPERAND_TYPE during
initialization of the region/field:

nsinit-0209: AE_AML_OPERAND_TYPE while getting region arguments
[DEBG] ammonad-0284: Exec_monadic2_r/Not: bad operand(s)

(0x3005)

Fixed a problem where operators with more than one nested
subexpression would fail. The symptoms were varied, by mostly
AE_AML_OPERAND_TYPE errors. This was actually a rather serious
problem that has gone unnoticed until now.

Subtract (Add (1,2), Multiply (3,4))

Fixed a problem where AcpiGetHandle didn't quite get fixed in the
previous build (The prefix part of a
relative path was handled
incorrectly).

Fixed a problem where Operation Region initialization failed if
the operation region name was a "namepath" instead of a simple
"nameseg". Symptom was an AE_NO_OPERAND error.

Fixed a problem where an assignment to a local variable via the
indirect RefOf mechanism only worked for the first such
assignment. Subsequent assignments were ignored.

Summary of changes for this label: 11_15_00

ACPI 2.0 table support with backwards support for ACPI 1.0 and the
0.71 extensions. Note: although we can read ACPI 2.0 BIOS tables,
the AML interpreter does NOT have support for the new 2.0 ASL
grammar terms at this time.

All ACPI hardware access is via the GAS structures in the ACPI 2.0
FADT.

All physical memory addresses across all platforms are now 64 bits
wide. Logical address width remains dependent on the platform
(i.e., "void *").

AcpiOsMapMemory interface changed to a 64-bit physical address.

The AML interpreter
integer size is now 64 bits, as per the ACPI
2.0 specification.

For backwards compatibility with ACPI 1.0, ACPI tables with a
revision number less than 2 use 32-bit integers only.

Fixed a problem where the evaluation of OpRegion operands did not
always resolve them to numbers properly.

Summary of changes for this label: 10_20_00

Fix for CBN_._STA issue. This fix will allow correct access to CBN_ OpRegions when the _STA returns 0x8.

Support to convert ACPI constants (Ones, Zeros, One) to actual values before a package object is returned

Fix for method call as predicate to if/while construct causing incorrect if/while behavior

Fix for Else block package lengths sometimes calculated wrong (if block > 63 bytes)

Fix for Processor object length field, was always zero

Table load abort if FACP sanity check fails

Fix for problem with Scope(name) if name already exists

Warning emitted if a named object referenced cannot be found (resolved)
during method execution.

Summary of changes for this label: 9_29_00

New table initialization interfaces: AcpiInitializeSubsystem no longer has any parameters AcpiFindRootPointer - Find the RSDP (if necessary) AcpiLoadTables (RSDP) - load all tables found at RSDP->RSDT Obsolete Interfaces AcpiLoadFirmwareTables - replaced by AcpiLoadTables

Note: These interface changes require changes to all existing OSDs

The PCI_Config default address space handler is always installed at the root namespace object.

Summary of changes for this label: 09_15_00

The new initialization architecture is implemented. New

interfaces are: AcpiInitializeSubsystem (replaces AcpiInitialize)
AcpiEnableSubsystem Obsolete Interfaces: AcpiLoadNamespace

(Namespace is automatically loaded when a table is loaded)

The ACPI_OPERAND_OBJECT has been optimized to shrink its size from
52 bytes to 32 bytes. There is usually
one of these for every
namespace object, so the memory savings is significant.

Implemented just-in-time evaluation of the CreateField operators.

Bug fixes for IA-64 support have been integrated.

Additional code review comments have been implemented

The so-called "third pass parse" has been replaced by a final walk
through the namespace to initialize all operation regions (address
spaces) and fields that have not yet been initialized during the
execution of the various _INI and REG methods.

New file - namespace/nsinit.c

Summary of changes for this label: 09_01_00

Namespace manager data structures have been reworked to change the
primary object from a table to a single object. This has
resulted in dynamic memory savings of 3X within the namespace and
2X overall in the ACPI CA subsystem.

Fixed problem where the call to AcpiEvFindPciRootBuses was
inadvertently left commented out.

Reduced the warning count when generating the source
with the GCC
compiler.

Revision numbers added to each module header showing the
SourceSafe version of the file. Please refer to this version
number when giving us feedback or comments on individual modules.

The main object types within the subsystem have been renamed to
clarify their purpose:

ACPI_INTERNAL_OBJECT -> ACPI_OPERAND_OBJECT
ACPI_GENERIC_OP -> ACPI_PARSE_OBJECT
ACPI_NAME_TABLE_ENTRY -> ACPI_NAMESPACE_NODE

NOTE: no changes to the initialization sequence are included in
this label.

Summary of changes for this label: 08_23_00

Fixed problem where TerminateControlMethod was being called
multiple times per method

Fixed debugger problem where single stepping caused a semaphore to
be oversignalled

Improved performance through additional parse object caching -
added ACPI_EXTENDED_OP type

Summary of changes for this label: 08_10_00

Parser/Interpreter integration: Eliminated the creation
 of
complete parse trees for ACPI tables and control methods.
Instead, parse subtrees are created and then deleted as soon as
they are processed (Either entered into the namespace or executed
by the interpreter). This reduces the use of dynamic kernel
memory significantly. (about 10X)

Exception codes broken into classes and renumbered. Be sure to
recompile all code that includes acexcep.h. Hopefully we won't
have to renumber the codes again now that they are split into
classes (environment, programmer, AML code, ACPI table, and
internal).

Fixed some additional alignment issues in the Resource Manager
subcomponent

Implemented semaphore tracking in the AcpiExec utility, and fixed
several places where mutexes/semaphores were being unlocked
without a corresponding lock operation. There are no known
semaphore or mutex "leaks" at this time.

Fixed the case where an ASL Return operator is used to return an
unnamed package.

Summary
 of changes for this label: 07_28_00

Fixed a problem with the way addresses were calculated in AcpiAmlReadFieldData() and AcpiAmlWriteFieldData(). This problem manifested itself when a Field was created with WordAccess or DwordAccess, but the field unit defined within the Field was less

than a Word or Dword.

Fixed a problem in AmlDumpOperands() module's loop to pull operands off of the operand stack to display information. The problem manifested itself as a TLB error on 64-bit systems when accessing an operand stack with two or more operands.

Fixed a problem with the PCI configuration space handlers where context was getting confused between accesses. This required a change to the generic address space handler and address space setup definitions. Handlers now get both a global handler context (this is the one passed in by the user when executing AcpiInstallAddressSpaceHandler() and a specific region context that is unique to each region (For example, the _ADR, _SEG and _BBN
values associated with a specific region). The generic function definitions have changed to the following:

typedef ACPI_STATUS (*ADDRESS_SPACE_HANDLER) (UINT32 Function, UINT32 Address, UINT32 BitWidth, UINT32 *Value, void *HandlerContext, // This used to be void *Context void *RegionContext); // This is an additional parameter

typedef ACPI_STATUS (*ADDRESS_SPACE_SETUP) (ACPI_HANDLE RegionHandle, UINT32 Function, void *HandlerContext, void **RegionContext); // This used to be **ReturnContext

---

Summary of changes for this label: 07_21_00

Major file consolidation and rename. All files within the interpreter have been renamed as well as most header files. This was done to prevent collisions with existing files in the host OSs -- filenames such as "config.h" and "global.h" seem to be quite common. The VC project files have been updated. All makefiles will require modification.

The parser/interpreter integration continues in Phase 5 with the implementation of a complete 2-pass parse (the AML is parsed twice) for each table; This avoids the construction of a huge parse tree and therefore reduces the amount of dynamic memory required by the subsystem. Greater use of the parse object cache

means that performance is unaffected.

Many comments from the two code reviews have been rolled in.

The 64-bit alignment support is complete.

Summary of changes for this label: 06_30_00

With a nod and a tip of the hat to the technology of yesteryear,
we've added support in the source code for 80 column output
devices. The code is now mostly constrained to 80 columns or
less to support environments and editors that 1) cannot display
or print more than 80 characters on a single line, and 2) cannot
disable line wrapping.

A major restructuring of the namespace data structure has been
completed. The result is 1) cleaner and more
understandable/maintainable code, and 2)
a significant reduction
in the dynamic memory requirement for each named ACPI object
(almost half).

Summary of changes for this label: 06_23_00

Linux support has been added. In order to obtain approval to get
the ACPI CA subsystem into the Linux kernel, we've had to make
quite a few changes to the base subsystem that will affect all
users (all the changes are generic and OS- independent). The
effects of these global changes have been somewhat far reaching.
Files have been merged and/or renamed and interfaces have been
renamed. The major changes are described below.

Osd* interfaces renamed to AcpiOs* to eliminate namespace
pollution/confusion within our target kernels. All OSD
interfaces must be modified to match the new naming convention.

Files merged across the subsystem. A number of the smaller source
and header files have been merged to reduce the file count and
increase the density of the existing files. There are too
many
to list here. In general, makefiles that call out individual
files will require rebuilding.

Interpreter files renamed. All interpreter files now have the
prefix am* instead of ie* and is*.

Header files renamed: The acapi.h file is now acpixf.h. The acpiosd.h file is now acpiosxf.h. We are removing references to the acronym "API" since it is somewhat windowsy. The new name is "external interface" or xface or xf in the filenames.j

All manifest constants have been forced to upper case (some were mixed case.) Also, the string "ACPI_" has been prepended to many (not all) of the constants, typedefs, and structs.

The globals "DebugLevel" and "DebugLayer" have been renamed "AcpiDbgLevel" and "AcpiDbgLayer" respectively.

All other globals within the subsystem are now prefixed with "AcpiGbl_" Internal procedures within the subsystem are now prefixed with "Acpi" (with only a few exceptions). The original two-letter abbreviation for the subcomponent remains after "Acpi"
-
for example, CmCallocate became AcpiCmCallocate.

Added a source code translation/conversion utility. Used to generate the Linux source code, it can be modified to generate other types of source as well. Can also be used to cleanup existing source by removing extraneous spaces and blank lines. Found in tools/acpisrc/*

OsdUnMapMemory was renamed to OsdUnmapMemory and then AcpiOsUnmapMemory. (UnMap became Unmap).

A "MaxUnits" parameter has been added to AcpiOsCreateSemaphore. When set to one, this indicates that the caller wants to use the

semaphore as a mutex, not a counting semaphore. ACPI CA uses both types. However, implementers of this call may want to use different OS primitives depending on the type of semaphore requested. For example, some operating systems provide separate

"mutex" and "semaphore" interfaces - where the mutex interface is much faster because it doesn't have all the overhead of a full semaphore implementation.

Fixed a deadlock problem where
a method that accesses the PCI
address space can block forever if it is the first access to the space.

Summary of changes for this label: 06_02_00

Support for environments that cannot handle unaligned data
accesses (e.g. firmware and OS environments devoid of alignment
handler technology namely SAL/EFI and the IA-64 Linux kernel) has
been added (via configurable macros) in these three areas: -
Transfer of data from the raw AML byte stream is done via byte
moves instead of word/dword/qword moves. - External objects are
aligned within the user buffer, including package elements (sub-
objects). - Conversion of name strings to UINT32 Acpi Names is now
done byte-wise.

The Store operator was modified to mimic Microsoft's
implementation when storing to a Buffer Field.

Added a check of the BM_STS bit before entering C3.

The methods subdirectory has been obsoleted and removed. A new
file, cmeval.c subsumes the functionality.

A 16-bit
 (DOS) version of AcpiExec has been developed. The
makefile is under the acpiexec directory.

Found in path(s):
* /acpica-unix-20210105-tar-gz/acpica-unix-20210105/changes.txt
No license file was found, but licenses were detected in source scan.

NoEcho('
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*
* Module Name: aslcstyle.y - Production rules for symbolic operators
*
**/

/**
*
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* Software Foundation.
*
*************************************************************************/

')

/*************************************************************************
*
* Production rules for the symbolic (c-style) operators
```

```
*
*****************************************************************************/

/*
* ASL Extensions: C-style math/logical operators and expressions.
* The implementation transforms these operators into the standard
* AML opcodes and syntax.
*
* Supported operators and precedence rules (high-to-low)
*
* NOTE: The operator precedence and associativity rules are
* implemented by the tokens in asltokens.y
 *
* (left-to-right):
*  1)     ( ) expr++ expr--
*
* (right-to-left):
*  2)     ! ~
*
* (left-to-right):
*  3)     *  /  %
*  4)     +  -
*  5)     >>  <<
*  6)     <  >  <=  >=
*  7)     ==  !=
*  8)     &
*  9)     ^
*  10)    |
*  11)    &&
*  12)    ||
*
* (right-to-left):
*  13)     = += -= *= /= %= <<= >>= &= ^= |=
*/


/*****************************************************************************
*
* Basic operations for math and logical expressions.
*
*****************************************************************************/

Expression

  /* Unary operators */

  : PARSEOP_EXP_LOGICAL_NOT          {$<n>$ = TrCreateLeafOp (PARSEOP_LNOT);}
    TermArg                    {$$ = TrLinkOpChildren ($<n>2,1,$3);}
```

```
  | PARSEOP_EXP_NOT                {$<n>$ = TrCreateLeafOp (PARSEOP_NOT);}
    TermArg                      {$$ = TrLinkOpChildren ($<n>2,2,$3,TrCreateNullTargetOp ());}

  | SuperName PARSEOP_EXP_INCREMENT
  {$<n>$ = TrCreateLeafOp (PARSEOP_INCREMENT);}
                               {$$ = TrLinkOpChildren ($<n>3,1,$1);}
  | SuperName PARSEOP_EXP_DECREMENT   {$<n>$ = TrCreateLeafOp (PARSEOP_DECREMENT);}
                               {$$ = TrLinkOpChildren ($<n>3,1,$1);}

  /* Binary operators: math and logical */

  | TermArg PARSEOP_EXP_ADD          {$<n>$ = TrCreateLeafOp (PARSEOP_ADD);}
    TermArg                      {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,TrCreateNullTargetOp ());}
  | TermArg PARSEOP_EXP_DIVIDE       {$<n>$ = TrCreateLeafOp (PARSEOP_DIVIDE);}
    TermArg                      {$$ = TrLinkOpChildren ($<n>3,4,$1,$4,TrCreateNullTargetOp (),
                                 TrCreateNullTargetOp ());}
  | TermArg PARSEOP_EXP_MODULO       {$<n>$ = TrCreateLeafOp (PARSEOP_MOD);}
    TermArg                      {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,TrCreateNullTargetOp ());}
  | TermArg PARSEOP_EXP_MULTIPLY
    {$<n>$ = TrCreateLeafOp (PARSEOP_MULTIPLY);}
    TermArg                      {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,TrCreateNullTargetOp ());}
  | TermArg PARSEOP_EXP_SHIFT_LEFT   {$<n>$ = TrCreateLeafOp (PARSEOP_SHIFTLEFT);}
    TermArg                      {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,TrCreateNullTargetOp ());}
  | TermArg PARSEOP_EXP_SHIFT_RIGHT  {$<n>$ = TrCreateLeafOp (PARSEOP_SHIFTRIGHT);}
    TermArg                      {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,TrCreateNullTargetOp ());}
  | TermArg PARSEOP_EXP_SUBTRACT     {$<n>$ = TrCreateLeafOp (PARSEOP_SUBTRACT);}
    TermArg                      {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,TrCreateNullTargetOp ());}

  | TermArg PARSEOP_EXP_AND          {$<n>$ = TrCreateLeafOp (PARSEOP_AND);}
    TermArg                      {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,TrCreateNullTargetOp ());}
  | TermArg PARSEOP_EXP_OR           {$<n>$ = TrCreateLeafOp (PARSEOP_OR);}
     TermArg                     {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,TrCreateNullTargetOp ());}
  | TermArg PARSEOP_EXP_XOR          {$<n>$ = TrCreateLeafOp (PARSEOP_XOR);}
    TermArg                      {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,TrCreateNullTargetOp ());}

  | TermArg PARSEOP_EXP_GREATER      {$<n>$ = TrCreateLeafOp (PARSEOP_LGREATER);}
    TermArg                      {$$ = TrLinkOpChildren ($<n>3,2,$1,$4);}
  | TermArg PARSEOP_EXP_GREATER_EQUAL {$<n>$ = TrCreateLeafOp
(PARSEOP_LGREATEREQUAL);}
    TermArg                      {$$ = TrLinkOpChildren ($<n>3,2,$1,$4);}
  | TermArg PARSEOP_EXP_LESS         {$<n>$ = TrCreateLeafOp (PARSEOP_LLESS);}
    TermArg                      {$$ = TrLinkOpChildren ($<n>3,2,$1,$4);}
  | TermArg PARSEOP_EXP_LESS_EQUAL   {$<n>$ = TrCreateLeafOp (PARSEOP_LLESSEQUAL);}
    TermArg                      {$$ = TrLinkOpChildren ($<n>3,2,$1,$4);}

  | TermArg PARSEOP_EXP_EQUAL
  {$<n>$ = TrCreateLeafOp (PARSEOP_LEQUAL);}
    TermArg                      {$$ = TrLinkOpChildren ($<n>3,2,$1,$4);}
```

```
  | TermArg PARSEOP_EXP_NOT_EQUAL     {$<n>$ = TrCreateLeafOp (PARSEOP_LNOTEQUAL);}
    TermArg                         {$$ = TrLinkOpChildren ($<n>3,2,$1,$4);}

  | TermArg PARSEOP_EXP_LOGICAL_AND   {$<n>$ = TrCreateLeafOp (PARSEOP_LAND);}
    TermArg                         {$$ = TrLinkOpChildren ($<n>3,2,$1,$4);}
  | TermArg PARSEOP_EXP_LOGICAL_OR    {$<n>$ = TrCreateLeafOp (PARSEOP_LOR);}
    TermArg                         {$$ = TrLinkOpChildren ($<n>3,2,$1,$4);}

  /* Parentheses */

  | PARSEOP_OPEN_PAREN
    Expression
    PARSEOP_CLOSE_PAREN             {$$ = $2;}

  /* Index term -- "= BUF1[5]" on right-hand side of an equals (source) */

  | IndexExpTerm
  ;

  /*
   * Index term -- "BUF1[5] = " or " = BUF1[5] on either the left side
   * of an equals (target) or the right side (source)
   * Currently used in
 these terms:
   *      Expression
   *      ObjectTypeSource
   *      DerefOfSource
   *      Type6Opcode
   */
IndexExpTerm

  : SuperName
    PARSEOP_EXP_INDEX_LEFT
    TermArg
    PARSEOP_EXP_INDEX_RIGHT         {$$ = TrCreateLeafOp (PARSEOP_INDEX);
                            TrLinkOpChildren ($$,3,$1,$3,TrCreateNullTargetOp ());}
  ;


/*******************************************************************************
*
* All assignment-type operations -- math and logical. Includes simple
* assignment and compound assignments.
*
*******************************************************************************/

EqualsTerm
```

```
  /* Allow parens anywhere */

  : PARSEOP_OPEN_PAREN
     EqualsTerm
     PARSEOP_CLOSE_PAREN            {$$ = $2;}

  /* Simple Store() operation */

  | SuperName
     PARSEOP_EXP_EQUALS
     TermArg                        {$$ = TrCreateAssignmentOp ($1, $3);}

  /* Chained equals: (a=RefOf)=b, a=b=c=d
etc. */

  | PARSEOP_OPEN_PAREN
     EqualsTerm
     PARSEOP_CLOSE_PAREN
     PARSEOP_EXP_EQUALS
     TermArg                        {$$ = TrCreateAssignmentOp ($2, $5);}

  /* Compound assignments -- Add (operand, operand, target) */

  | TermArg PARSEOP_EXP_ADD_EQ      {$<n>$ = TrCreateLeafOp (PARSEOP_ADD);}
     TermArg                        {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,
                                 TrSetOpFlags (TrCreateTargetOp ($1, NULL), OP_IS_TARGET));}

  | TermArg PARSEOP_EXP_DIV_EQ      {$<n>$ = TrCreateLeafOp (PARSEOP_DIVIDE);}
     TermArg                        {$$ = TrLinkOpChildren ($<n>3,4,$1,$4,TrCreateNullTargetOp (),
                                 TrSetOpFlags (TrCreateTargetOp ($1, NULL), OP_IS_TARGET));}

  | TermArg PARSEOP_EXP_MOD_EQ      {$<n>$ = TrCreateLeafOp (PARSEOP_MOD);}
     TermArg                        {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,

              TrSetOpFlags (TrCreateTargetOp ($1, NULL), OP_IS_TARGET));}

  | TermArg PARSEOP_EXP_MUL_EQ      {$<n>$ = TrCreateLeafOp (PARSEOP_MULTIPLY);}
     TermArg                        {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,
                                 TrSetOpFlags (TrCreateTargetOp ($1, NULL), OP_IS_TARGET));}

  | TermArg PARSEOP_EXP_SHL_EQ      {$<n>$ = TrCreateLeafOp (PARSEOP_SHIFTLEFT);}
     TermArg                        {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,
                                 TrSetOpFlags (TrCreateTargetOp ($1, NULL), OP_IS_TARGET));}

  | TermArg PARSEOP_EXP_SHR_EQ      {$<n>$ = TrCreateLeafOp (PARSEOP_SHIFTRIGHT);}
     TermArg                        {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,
                                 TrSetOpFlags (TrCreateTargetOp ($1, NULL), OP_IS_TARGET));}
```

```
  | TermArg PARSEOP_EXP_SUB_EQ       {$<n>$ = TrCreateLeafOp (PARSEOP_SUBTRACT);}
    TermArg
        {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,
                        TrSetOpFlags (TrCreateTargetOp ($1, NULL), OP_IS_TARGET));}

  | TermArg PARSEOP_EXP_AND_EQ       {$<n>$ = TrCreateLeafOp (PARSEOP_AND);}
    TermArg                  {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,
                        TrSetOpFlags (TrCreateTargetOp ($1, NULL), OP_IS_TARGET));}

  | TermArg PARSEOP_EXP_OR_EQ        {$<n>$ = TrCreateLeafOp (PARSEOP_OR);}
    TermArg                  {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,
                        TrSetOpFlags (TrCreateTargetOp ($1, NULL), OP_IS_TARGET));}

  | TermArg PARSEOP_EXP_XOR_EQ       {$<n>$ = TrCreateLeafOp (PARSEOP_XOR);}
    TermArg                  {$$ = TrLinkOpChildren ($<n>3,3,$1,$4,
                        TrSetOpFlags (TrCreateTargetOp ($1, NULL), OP_IS_TARGET));}
  ;

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%{
/******************************************************************************
*
* Module Name: dtcompilerparser.y - Bison input file for table compiler parser
*
*****************************************************************************/

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*
*****************************************************************************/

#include "aslcompiler.h"


#define _COMPONENT          DT_COMPILER
     ACPI_MODULE_NAME    ("dtcompilerparser")

void *                  AslLocalAllocate (unsigned int Size);

/* Bison/yacc configuration */

#undef alloca
#define alloca              AslLocalAllocate
```

```
int                 DtCompilerParserlex (void);
int                 DtCompilerParserparse (void);
void                DtCompilerParsererror (char const *msg);
extern char             *DtCompilerParsertext;
extern DT_FIELD         *AslGbl_CurrentField;

extern
 int            DtLabelByteOffset;
extern UINT64           DtCompilerParserlineno; /* Current line number */

extern UINT32           DtTokenFirstLine;
extern UINT32           DtTokenFirstColumn;

/* Bison/yacc configuration */

#define yytname         DtCompilerParsername
#define YYDEBUG         1           /* Enable debug output */
#define YYERROR_VERBOSE 1           /* Verbose error messages */
#define YYFLAG          -32768

/* Define YYMALLOC/YYFREE to prevent redefinition errors  */

#define YYMALLOC        malloc
#define YYFREE          free

%}


%union {
  char          *s;
  DT_FIELD      *f;
  DT_TABLE_UNIT     *u;
}


%type  <f> Table
%token <u> DT_PARSEOP_DATA
%token <u> DT_PARSEOP_LABEL
%token <u> DT_PARSEOP_STRING_DATA
%token <u> DT_PARSEOP_LINE_CONTINUATION
%type  <u> Data
%type  <u> Datum
%type  <u> MultiLineData
%type  <u> MultiLineDataList


%%
```

```
Table
  :
  FieldList { }
  ;

FieldList
   : Field FieldList
  | Field
  ;

Field
  : DT_PARSEOP_LABEL ':' Data { DtCreateField ($1, $3, DtLabelByteOffset); }
  ;

Data
  : MultiLineDataList       { $$ = $1; }
  | Datum                   { $$ = $1; }
  | Datum MultiLineDataList  { $$ = $1; } /* combine the string with strcat */
  ;

MultiLineDataList
  : MultiLineDataList MultiLineData { $$ = DtCreateTableUnit (AcpiUtStrcat(AcpiUtStrcat($1->Value, " "), $2-
>Value), $1->Line, $1->Column); } /* combine the strings with strcat */
  | MultiLineData                   { $$ = $1; }
  ;

MultiLineData
  : DT_PARSEOP_LINE_CONTINUATION Datum { DbgPrint (ASL_PARSE_OUTPUT, "line continuation
detected\n"); $$ = $2; }
  ;

Datum
  : DT_PARSEOP_DATA       {
                        DbgPrint (ASL_PARSE_OUTPUT, "parser       data: [%s]\n", DtCompilerParserlval.s);
                        $$ = DtCreateTableUnit (AcpiUtStrdup(DtCompilerParserlval.s), DtTokenFirstLine,
DtTokenFirstColumn);

                    }
  | DT_PARSEOP_STRING_DATA {
                        DbgPrint (ASL_PARSE_OUTPUT, "parser string data: [%s]\n", DtCompilerParserlval.s);
                        $$ = DtCreateTableUnit (AcpiUtStrdup(DtCompilerParserlval.s), DtTokenFirstLine,
DtTokenFirstColumn);
                    }
  ;


%%
```

```
/*
* Local support functions, including parser entry point
*/
/*******************************************************************************
*
* FUNCTION:    DtCompilerParsererror
*
* PARAMETERS:  Message             - Parser-generated error message
*
* RETURN:      None
*
* DESCRIPTION: Handler for parser errors
*
******************************************************************************/

void
DtCompilerParsererror (
  char const             *Message)
{
  DtError (ASL_ERROR, ASL_MSG_SYNTAX,
     AslGbl_CurrentField, (char *) Message);
}

int
DtCompilerParserwrap(void)
{
 return (1);
}
```

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* /acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/dtcompilerparser.y
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```
NoEcho('
/*******************************************************************************
*
* Module Name: asltypes.y - Bison/Yacc production types/names
*
******************************************************************************/

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```
*
*****************************************************************************/

')

/*****************************************************************************
*
* Production names
*
*****************************************************************************/

%type <n> ArgList
%type <n> AslCode
%type <n> BufferData
%type <n> BufferTermData
%type <n> CompilerDirective
%type <n> DataObject
%type <n> DefinitionBlockTerm
%type <n> DefinitionBlockList
%type <n> IntegerData
%type <n> NamedObject
%type <n> NameSpaceModifier
%type <n> Object
%type <n> PackageData
%type <n> ParameterTypePackage
%type <n> ParameterTypePackageList
%type <n>
 ParameterTypesPackage
%type <n> ParameterTypesPackageList
%type <n> RequiredTarget
%type <n> SimpleName
%type <n> StringData
%type <n> StringLiteral
%type <n> Target
%type <n> Term
%type <n> TermArg
%type <n> TermList
%type <n> MethodInvocationTerm

/* Type4Opcode is obsolete */

%type <n> Type1Opcode
%type <n> Type2BufferOpcode
%type <n> Type2BufferOrStringOpcode
%type <n> Type2IntegerOpcode
%type <n> Type2Opcode
%type <n> Type2StringOpcode
%type <n> Type3Opcode
```

```
%type <n> Type5Opcode
%type <n> Type6Opcode

%type <n> AccessAsTerm
%type <n> ExternalTerm
%type <n> FieldUnit
%type <n> FieldUnitEntry
%type <n> FieldUnitList
%type <n> IncludeTerm
%type <n> OffsetTerm
%type <n> OptionalAccessAttribTerm

/* Named Objects */

%type <n> BankFieldTerm
%type <n> CreateBitFieldTerm
%type <n> CreateByteFieldTerm
%type <n> CreateDWordFieldTerm
%type <n> CreateFieldTerm
%type <n> CreateQWordFieldTerm
%type <n> CreateWordFieldTerm
%type <n> DataRegionTerm
%type <n> DeviceTerm
%type <n> EventTerm
%type
 <n> FieldTerm
%type <n> FunctionTerm
%type <n> IndexFieldTerm
%type <n> MethodTerm
%type <n> MutexTerm
%type <n> OpRegionTerm
%type <n> OpRegionSpaceIdTerm
%type <n> PowerResTerm
%type <n> ProcessorTerm
%type <n> ThermalZoneTerm

/* Namespace modifiers */

%type <n> AliasTerm
%type <n> NameTerm
%type <n> ScopeTerm

/* Type 1 opcodes */

%type <n> BreakPointTerm
%type <n> BreakTerm
%type <n> CaseDefaultTermList
%type <n> CaseTerm
```

```
%type <n> ContinueTerm
%type <n> DefaultTerm
%type <n> ElseTerm
%type <n> FatalTerm
%type <n> ElseIfTerm
%type <n> IfTerm
%type <n> LoadTerm
%type <n> NoOpTerm
%type <n> NotifyTerm
%type <n> ReleaseTerm
%type <n> ResetTerm
%type <n> ReturnTerm
%type <n> SignalTerm
%type <n> SleepTerm
%type <n> StallTerm
%type <n> SwitchTerm
%type <n> UnloadTerm
%type <n> WhileTerm
/* %type <n> CaseTermList */

/* Type 2 opcodes */

%type <n> AcquireTerm
%type <n> AddTerm
%type <n> AndTerm
%type <n> ConcatResTerm
%type <n> ConcatTerm
%type <n> CondRefOfTerm
%type <n> CopyObjectTerm
%type
 <n> DecTerm
%type <n> DerefOfTerm
%type <n> DivideTerm
%type <n> FindSetLeftBitTerm
%type <n> FindSetRightBitTerm
%type <n> FromBCDTerm
%type <n> IncTerm
%type <n> IndexTerm
%type <n> LAndTerm
%type <n> LEqualTerm
%type <n> LGreaterEqualTerm
%type <n> LGreaterTerm
%type <n> LLessEqualTerm
%type <n> LLessTerm
%type <n> LNotEqualTerm
%type <n> LNotTerm
%type <n> LoadTableTerm
%type <n> LOrTerm
```

%type <n> MatchTerm
%type <n> MidTerm
%type <n> ModTerm
%type <n> MultiplyTerm
%type <n> NAndTerm
%type <n> NOrTerm
%type <n> NotTerm
%type <n> ObjectTypeTerm
%type <n> OrTerm
%type <n> RawDataBufferTerm
%type <n> RefOfTerm
%type <n> ShiftLeftTerm
%type <n> ShiftRightTerm
%type <n> SizeOfTerm
%type <n> StoreTerm
%type <n> SubtractTerm
%type <n> TimerTerm
%type <n> ToBCDTerm
%type <n> ToBufferTerm
%type <n> ToDecimalStringTerm
%type <n> ToHexStringTerm
%type <n> ToIntegerTerm
%type <n> ToStringTerm
%type <n> WaitTerm
%type <n> XOrTerm

/* Keywords */

%type <n> AccessAttribKeyword
%type <n>
AccessTypeKeyword
%type <n> AddressingModeKeyword
%type <n> AddressKeyword
%type <n> AddressSpaceKeyword
%type <n> BitsPerByteKeyword
%type <n> ClockPhaseKeyword
%type <n> ClockPolarityKeyword
%type <n> DecodeKeyword
%type <n> DevicePolarityKeyword
%type <n> DMATypeKeyword
%type <n> EndianKeyword
%type <n> FlowControlKeyword
%type <n> InterruptLevel
%type <n> InterruptTypeKeyword
%type <n> IODecodeKeyword
%type <n> IoRestrictionKeyword
%type <n> LockRuleKeyword
%type <n> MatchOpKeyword

```
%type <n> MaxKeyword
%type <n> MemTypeKeyword
%type <n> MinKeyword
%type <n> ObjectTypeKeyword
%type <n> OptionalBusMasterKeyword
%type <n> OptionalReadWriteKeyword
%type <n> ParityTypeKeyword
%type <n> PinConfigByte
%type <n> PinConfigKeyword
%type <n> RangeTypeKeyword
%type <n> RegionSpaceKeyword
%type <n> ResourceTypeKeyword
%type <n> SerializeRuleKeyword
%type <n> ShareTypeKeyword
%type <n> SlaveModeKeyword
%type <n> StopBitsKeyword
%type <n> TranslationKeyword
%type <n> TypeKeyword
%type <n> UpdateRuleKeyword
%type
 <n> WireModeKeyword
%type <n> XferSizeKeyword
%type <n> XferTypeKeyword

/* Types */

%type <n> SuperName
%type <n> ObjectTypeSource
%type <n> DerefOfSource
%type <n> RefOfSource
%type <n> CondRefOfSource
%type <n> ArgTerm
%type <n> LocalTerm
%type <n> DebugTerm

%type <n> Integer
%type <n> ByteConst
%type <n> WordConst
%type <n> DWordConst
%type <n> QWordConst
%type <n> String

%type <n> ConstTerm
%type <n> ConstExprTerm
%type <n> ByteConstExpr
%type <n> WordConstExpr
%type <n> DWordConstExpr
%type <n> QWordConstExpr
```

```
%type <n> DWordList
%type <n> BufferTerm
%type <n> ByteList

%type <n> PackageElement
%type <n> PackageList
%type <n> PackageTerm

/* Macros */

%type <n> EISAIDTerm
%type <n> ResourceMacroList
%type <n> ResourceMacroTerm
%type <n> ResourceTemplateTerm
%type <n> PldKeyword
%type <n> PldKeywordList
%type <n> ToPLDTerm
%type <n> ToUUIDTerm
%type <n> UnicodeTerm
%type <n> PrintfArgList
%type <n> PrintfTerm
%type <n> FprintfTerm
%type <n> ForTerm

/* Resource
 Descriptors */

%type <n> ConnectionTerm
%type <n> DMATerm
%type <n> DWordIOTerm
%type <n> DWordMemoryTerm
%type <n> DWordSpaceTerm
%type <n> EndDependentFnTerm
%type <n> ExtendedIOTerm
%type <n> ExtendedMemoryTerm
%type <n> ExtendedSpaceTerm
%type <n> FixedDmaTerm
%type <n> FixedIOTerm
%type <n> GpioIntTerm
%type <n> GpioIoTerm
%type <n> I2cSerialBusTerm
%type <n> I2cSerialBusTermV2
%type <n> InterruptTerm
%type <n> IOTerm
%type <n> IRQNoFlagsTerm
%type <n> IRQTerm
%type <n> Memory24Term
```

%type <n> Memory32FixedTerm
%type <n> Memory32Term
%type <n> NameSeg
%type <n> NameString
%type <n> PinConfigTerm
%type <n> PinFunctionTerm
%type <n> PinGroupTerm
%type <n> PinGroupConfigTerm
%type <n> PinGroupFunctionTerm
%type <n> QWordIOTerm
%type <n> QWordMemoryTerm
%type <n> QWordSpaceTerm
%type <n> RegisterTerm
%type <n> SpiSerialBusTerm
%type <n> SpiSerialBusTermV2
%type <n> StartDependentFnNoPriTerm
%type <n> StartDependentFnTerm
%type <n> UartSerialBusTerm
%type <n> UartSerialBusTermV2
%type
 <n> VendorLongTerm
%type <n> VendorShortTerm
%type <n> WordBusNumberTerm
%type <n> WordIOTerm
%type <n> WordSpaceTerm

/* Local types that help construct the AML, not in ACPI spec */

%type <n> AmlPackageLengthTerm
%type <n> IncludeEndTerm
%type <n> NameStringItem
%type <n> TermArgItem

%type <n> OptionalAccessSize
%type <n> OptionalAccessTypeKeyword
%type <n> OptionalAddressingMode
%type <n> OptionalAddressRange
%type <n> OptionalBitsPerByte
%type <n> OptionalBuffer_Last
%type <n> OptionalByteConstExpr
%type <n> OptionalCount
%type <n> OptionalDataCount
%type <n> OptionalDecodeType
%type <n> OptionalDevicePolarity
%type <n> OptionalDWordConstExpr
%type <n> OptionalEndian
%type <n> OptionalFlowControl
%type <n> OptionalIoRestriction

```
%type <n> OptionalListString
%type <n> OptionalLockRuleKeyword
%type <n> OptionalMaxType
%type <n> OptionalMemType
%type <n> OptionalMinType
%type <n> OptionalNameString
%type <n> OptionalNameString_First
%type <n> OptionalNameString_Last
%type <n> OptionalObjectTypeKeyword
%type
 <n> OptionalParameterTypePackage
%type <n> OptionalParameterTypesPackage
%type <n> OptionalParentheses
%type <n> OptionalParityType
%type <n> OptionalPredicate
%type <n> OptionalQWordConstExpr
%type <n> OptionalRangeType
%type <n> OptionalReference
%type <n> OptionalResourceType
%type <n> OptionalResourceType_First
%type <n> OptionalProducerResourceType
%type <n> OptionalReturnArg
%type <n> OptionalSerializeRuleKeyword
%type <n> OptionalShareType
%type <n> OptionalShareType_First
%type <n> OptionalSlaveMode
%type <n> OptionalStopBits
%type <n> OptionalStringData
%type <n> OptionalSyncLevel
%type <n> OptionalTermArg
%type <n> OptionalTranslationType_Last
%type <n> OptionalType
%type <n> OptionalType_Last
%type <n> OptionalUpdateRuleKeyword
%type <n> OptionalWireMode
%type <n> OptionalWordConst
%type <n> OptionalWordConstExpr
%type <n> OptionalXferSize

/*
* ASL+ (C-style) parser
*/

/* Expressions and symbolic operators */

%type <n> Expression
%type <n> EqualsTerm
%type
```

<n> IndexExpTerm

/* ASL+ Named object declaration support */
/*
%type <n> NameTermAslPlus

%type <n> BufferBegin
%type <n> BufferEnd
%type <n> PackageBegin
%type <n> PackageEnd
%type <n> OptionalLength
*/
/* ASL+ Structure declarations */
/*
%type <n> StructureTerm
%type <n> StructureTermBegin
%type <n> StructureType
%type <n> StructureTag
%type <n> StructureElementList
%type <n> StructureElement
%type <n> StructureElementType
%type <n> OptionalStructureElementType
%type <n> StructureId
*/
/* Structure instantiantion */
/*
%type <n> StructureInstanceTerm
%type <n> StructureTagReference
%type <n> StructureInstanceEnd
*/
/* Pseudo-instantiantion for method Args/Locals */
/*
%type <n> MethodStructureTerm
%type <n> LocalStructureName
*/
/* Direct structure references via the Index operator */
/*
%type <n> StructureReference
%type <n> StructureIndexTerm
%type <n> StructurePointerTerm
%type <n> StructurePointerReference
%type <n> OptionalDefinePointer
*/

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*                       - Keep this file synched with the
*                         CvParseOpBlockType function in cvcompiler.c
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*
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**********************************************************************************/

')


/**********************************************************************************
*
* ASL Primary Terms
*
```

```
*****************************************************************************/

AccessAsTerm
  : PARSEOP_ACCESSAS
      PARSEOP_OPEN_PAREN
      AccessTypeKeyword
      OptionalAccessAttribTerm
      PARSEOP_CLOSE_PAREN        {$$ = TrCreateOp (PARSEOP_ACCESSAS,2,$3,$4);}
  | PARSEOP_ACCESSAS

     PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

AcquireTerm
  : PARSEOP_ACQUIRE
      PARSEOP_OPEN_PAREN         {$<n>$ = TrCreateLeafOp(PARSEOP_ACQUIRE);}
      SuperName
      ',' WordConstExpr
      PARSEOP_CLOSE_PAREN        {$$ = TrLinkOpChildren ($<n>3,2,$4,$6);}
  | PARSEOP_ACQUIRE
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

AddTerm
  : PARSEOP_ADD
      PARSEOP_OPEN_PAREN         {$<n>$ = TrCreateLeafOp (PARSEOP_ADD);}
      TermArg
      TermArgItem
      Target
      PARSEOP_CLOSE_PAREN        {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
  | PARSEOP_ADD
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

AliasTerm
  : PARSEOP_ALIAS
      PARSEOP_OPEN_PAREN         {$<n>$ = TrCreateLeafOp (PARSEOP_ALIAS);}
      NameString
      NameStringItem
      PARSEOP_CLOSE_PAREN        {$$
 = TrLinkOpChildren ($<n>3,2,$4,
                          TrSetOpFlags ($5, OP_IS_NAME_DECLARATION));}
  | PARSEOP_ALIAS
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
```

```
  ;

AndTerm
  : PARSEOP_AND
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_AND);}
      TermArg
      TermArgItem
      Target
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
  | PARSEOP_AND
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

ArgTerm
  : PARSEOP_ARG0                {$$ = TrCreateLeafOp (PARSEOP_ARG0);}
  | PARSEOP_ARG1                {$$ = TrCreateLeafOp (PARSEOP_ARG1);}
  | PARSEOP_ARG2                {$$ = TrCreateLeafOp (PARSEOP_ARG2);}
  | PARSEOP_ARG3                {$$ = TrCreateLeafOp (PARSEOP_ARG3);}
  | PARSEOP_ARG4                {$$ = TrCreateLeafOp (PARSEOP_ARG4);}
  | PARSEOP_ARG5
    {$$ = TrCreateLeafOp (PARSEOP_ARG5);}
  | PARSEOP_ARG6                {$$ = TrCreateLeafOp (PARSEOP_ARG6);}
  ;

BankFieldTerm
  : PARSEOP_BANKFIELD
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_BANKFIELD);}
      NameString
      NameStringItem
      TermArgItem
      OptionalAccessTypeKeyword
      OptionalLockRuleKeyword
      OptionalUpdateRuleKeyword
      PARSEOP_CLOSE_PAREN '{'
        FieldUnitList '}'       {$$ = TrLinkOpChildren ($<n>3,7,
                                  $4,$5,$6,$7,$8,$9,$12);}
  | PARSEOP_BANKFIELD
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN
      '{' error '}'             {$$ = AslDoError(); yyclearin;}
  ;

BreakTerm
  : PARSEOP_BREAK               {$$ = TrCreateOp (PARSEOP_BREAK, 0);}
  ;

BreakPointTerm
```

```
  : PARSEOP_BREAKPOINT          {$$ = TrCreateOp (PARSEOP_BREAKPOINT, 0);}
  ;

BufferTerm
  : PARSEOP_BUFFER              {$<n>$ = TrCreateLeafOp (PARSEOP_BUFFER);
 COMMENT_CAPTURE_OFF; }
      OptionalDataCount
      '{' BufferTermData '}'    {$$ = TrLinkOpChildren ($<n>2,2,$3,$5); COMMENT_CAPTURE_ON;}
  ;

BufferTermData
  : ByteList                    {}
  | StringData                  {}
  ;

CaseTerm
  : PARSEOP_CASE
      PARSEOP_OPEN_PAREN        {$<n>$ = TrCreateLeafOp (PARSEOP_CASE);}
      DataObject
      PARSEOP_CLOSE_PAREN '{'
         TermList '}'           {$$ = TrLinkOpChildren ($<n>3,2,$4,$7);}
  | PARSEOP_CASE
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

ConcatTerm
  : PARSEOP_CONCATENATE
      PARSEOP_OPEN_PAREN        {$<n>$ = TrCreateLeafOp (PARSEOP_CONCATENATE);}
      TermArg
      TermArgItem
      Target
      PARSEOP_CLOSE_PAREN       {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
  | PARSEOP_CONCATENATE
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

ConcatResTerm
   : PARSEOP_CONCATENATERESTEMPLATE
      PARSEOP_OPEN_PAREN        {$<n>$ = TrCreateLeafOp (
                          PARSEOP_CONCATENATERESTEMPLATE);}
      TermArg
      TermArgItem
      Target
      PARSEOP_CLOSE_PAREN       {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
  | PARSEOP_CONCATENATERESTEMPLATE
      PARSEOP_OPEN_PAREN
```

```
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

CondRefOfTerm
  : PARSEOP_CONDREFOF
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_CONDREFOF);}
    CondRefOfSource
    Target
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
  | PARSEOP_CONDREFOF
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

ConnectionTerm
  : PARSEOP_CONNECTION
    PARSEOP_OPEN_PAREN
    NameString
    PARSEOP_CLOSE_PAREN         {$$ = TrCreateOp (PARSEOP_CONNECTION,1,$3);}
  | PARSEOP_CONNECTION
     PARSEOP_OPEN_PAREN         {$<n>$ = TrCreateLeafOp (PARSEOP_CONNECTION);}
    ResourceMacroTerm
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3, 1,
                                TrLinkOpChildren (
                                  TrCreateLeafOp (PARSEOP_RESOURCETEMPLATE), 3,
                                  TrCreateLeafOp (PARSEOP_DEFAULT_ARG),
                                  TrCreateLeafOp (PARSEOP_DEFAULT_ARG),
                                  $4));}
  | PARSEOP_CONNECTION
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

ContinueTerm
  : PARSEOP_CONTINUE            {$$ = TrCreateOp (PARSEOP_CONTINUE, 0);}
  ;

CopyObjectTerm
  : PARSEOP_COPYOBJECT
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_COPYOBJECT);}
    TermArg
    ',' SimpleName
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren
($<n>3,2,$4,
                                TrSetOpFlags ($6, OP_IS_TARGET));}
  | PARSEOP_COPYOBJECT
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
```

```
  ;

CreateBitFieldTerm
  : PARSEOP_CREATEBITFIELD
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_CREATEBITFIELD);}
    TermArg
    TermArgItem
    NameStringItem
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,
                          TrSetOpFlags ($6, OP_IS_NAME_DECLARATION));}
  | PARSEOP_CREATEBITFIELD
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

CreateByteFieldTerm
  : PARSEOP_CREATEBYTEFIELD
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_CREATEBYTEFIELD);}
    TermArg
    TermArgItem
    NameStringItem
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,

        TrSetOpFlags ($6, OP_IS_NAME_DECLARATION));}
  | PARSEOP_CREATEBYTEFIELD
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

CreateDWordFieldTerm
  : PARSEOP_CREATEDWORDFIELD
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_CREATEDWORDFIELD);}
    TermArg
    TermArgItem
    NameStringItem
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,
                          TrSetOpFlags ($6, OP_IS_NAME_DECLARATION));}
  | PARSEOP_CREATEDWORDFIELD
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

CreateFieldTerm
  : PARSEOP_CREATEFIELD
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_CREATEFIELD);}
    TermArg
    TermArgItem
    TermArgItem
```

```
    NameStringItem
    PARSEOP_CLOSE_PAREN        {$$ = TrLinkOpChildren ($<n>3,4,$4,$5,$6,

   TrSetOpFlags ($7, OP_IS_NAME_DECLARATION));}
  | PARSEOP_CREATEFIELD
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

CreateQWordFieldTerm
  : PARSEOP_CREATEQWORDFIELD
    PARSEOP_OPEN_PAREN         {$<n>$ = TrCreateLeafOp (PARSEOP_CREATEQWORDFIELD);}
    TermArg
    TermArgItem
    NameStringItem
    PARSEOP_CLOSE_PAREN        {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,
                        TrSetOpFlags ($6, OP_IS_NAME_DECLARATION));}
  | PARSEOP_CREATEQWORDFIELD
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

CreateWordFieldTerm
  : PARSEOP_CREATEWORDFIELD
    PARSEOP_OPEN_PAREN         {$<n>$ = TrCreateLeafOp (PARSEOP_CREATEWORDFIELD);}
    TermArg
    TermArgItem
    NameStringItem
    PARSEOP_CLOSE_PAREN        {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,
                        TrSetOpFlags ($6,
 OP_IS_NAME_DECLARATION));}
  | PARSEOP_CREATEWORDFIELD
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

DataRegionTerm
  : PARSEOP_DATATABLEREGION
    PARSEOP_OPEN_PAREN         {$<n>$ = TrCreateLeafOp (PARSEOP_DATATABLEREGION);}
    NameString
    TermArgItem
    TermArgItem
    TermArgItem
    PARSEOP_CLOSE_PAREN        {$$ = TrLinkOpChildren ($<n>3,4,
                        TrSetOpFlags ($4, OP_IS_NAME_DECLARATION),$5,$6,$7);}
  | PARSEOP_DATATABLEREGION
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
```

```
  ;

DebugTerm
  : PARSEOP_DEBUG               {$$ = TrCreateLeafOp (PARSEOP_DEBUG);}
  ;

DecTerm
  : PARSEOP_DECREMENT
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_DECREMENT);}
    SuperName
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,1,$4);}
  | PARSEOP_DECREMENT
    PARSEOP_OPEN_PAREN
     error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
  ;

DefaultTerm
  : PARSEOP_DEFAULT '{'         {$<n>$ = TrCreateLeafOp (PARSEOP_DEFAULT);}
    TermList '}'                {$$ = TrLinkOpChildren ($<n>3,1,$4);}
  | PARSEOP_DEFAULT '{'
    error '}'                   {$$ = AslDoError(); yyclearin;}
  ;

DerefOfTerm
  : PARSEOP_DEREFOF
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_DEREFOF);}
    DerefOfSource
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,1,$4);}
  | PARSEOP_DEREFOF
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

DeviceTerm
  : PARSEOP_DEVICE
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_DEVICE);}
    NameString
    PARSEOP_CLOSE_PAREN '{'
      TermList '}'              {$$ = TrLinkOpChildren ($<n>3,2,
                                TrSetOpFlags ($4, OP_IS_NAME_DECLARATION),$7);}
   | PARSEOP_DEVICE
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

DivideTerm
  : PARSEOP_DIVIDE
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_DIVIDE);}
```

```
    TermArg
    TermArgItem
    Target
    Target
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,4,$4,$5,$6,$7);}
  | PARSEOP_DIVIDE
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

EISAIDTerm
  : PARSEOP_EISAID
    PARSEOP_OPEN_PAREN
    StringLiteral
    PARSEOP_CLOSE_PAREN         {$$ = TrSetOpIntegerValue (PARSEOP_EISAID, $3);}
  | PARSEOP_EISAID
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

ElseIfTerm
  : IfTerm ElseTerm             {$$ = TrLinkPeerOp ($1,$2);}
  ;

ElseTerm
  :                             {$$ = NULL;}
  | PARSEOP_ELSE '{'
    TermList          {$<n>$
 = TrCreateLeafOp (PARSEOP_ELSE);}
    '}'               {$$ = TrLinkOpChildren ($<n>4,1,$3);}

  | PARSEOP_ELSE '{'
    error '}'                   {$$ = AslDoError(); yyclearin;}

  | PARSEOP_ELSE
    error                       {$$ = AslDoError(); yyclearin;}

  | PARSEOP_ELSEIF
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_ELSE);}
    TermArg                     {$<n>$ = TrCreateLeafOp (PARSEOP_IF);}
    PARSEOP_CLOSE_PAREN '{'
      TermList '}'              {TrLinkOpChildren ($<n>5,2,$4,$8);}
    ElseTerm                    {TrLinkPeerOp ($<n>5,$11);}
                              {$$ = TrLinkOpChildren ($<n>3,1,$<n>5);}

  | PARSEOP_ELSEIF
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
```

```
  | PARSEOP_ELSEIF
      error                   {$$ = AslDoError(); yyclearin;}
  ;

EventTerm
  : PARSEOP_EVENT
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp
 (PARSEOP_EVENT);}
      NameString
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,1,
                              TrSetOpFlags ($4, OP_IS_NAME_DECLARATION));}
  | PARSEOP_EVENT
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

ExternalTerm
  : PARSEOP_EXTERNAL
      PARSEOP_OPEN_PAREN
      NameString
      OptionalObjectTypeKeyword
      OptionalParameterTypePackage
      OptionalParameterTypesPackage
      PARSEOP_CLOSE_PAREN         {$$ = TrCreateOp (PARSEOP_EXTERNAL,4,$3,$4,$5,$6);}
  | PARSEOP_EXTERNAL
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

FatalTerm
  : PARSEOP_FATAL
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_FATAL);}
      ByteConstExpr
      ',' DWordConstExpr
      TermArgItem
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,3,$4,$6,$7);}
  | PARSEOP_FATAL
       PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

FieldTerm
  : PARSEOP_FIELD
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_FIELD);}
      NameString
      OptionalAccessTypeKeyword
      OptionalLockRuleKeyword
```

```
    OptionalUpdateRuleKeyword
    PARSEOP_CLOSE_PAREN '{'
      FieldUnitList '}'      {$$ = TrLinkOpChildren ($<n>3,5,$4,$5,$6,$7,$10);}
  | PARSEOP_FIELD
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN
    '{' error '}'            {$$ = AslDoError(); yyclearin;}
  ;

FindSetLeftBitTerm
  : PARSEOP_FINDSETLEFTBIT
    PARSEOP_OPEN_PAREN       {$<n>$ = TrCreateLeafOp (PARSEOP_FINDSETLEFTBIT);}
    TermArg
    Target
    PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
  | PARSEOP_FINDSETLEFTBIT
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
  ;

FindSetRightBitTerm

  : PARSEOP_FINDSETRIGHTBIT
    PARSEOP_OPEN_PAREN       {$<n>$ = TrCreateLeafOp (PARSEOP_FINDSETRIGHTBIT);}
    TermArg
    Target
    PARSEOP_CLOSE_PAREN      {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
  | PARSEOP_FINDSETRIGHTBIT
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
  ;

  /* Convert a For() loop to a While() loop */
ForTerm
  : PARSEOP_FOR
    PARSEOP_OPEN_PAREN       {$<n>$ = TrCreateLeafOp (PARSEOP_WHILE);}
    OptionalTermArg ','      {}
    OptionalPredicate ','
    OptionalTermArg          {$<n>$ = TrLinkPeerOp ($4,$<n>3);
                              TrSetOpParent ($9,$<n>3);}          /* New parent is WHILE */
    PARSEOP_CLOSE_PAREN
    '{' TermList '}'         {$<n>$ = TrLinkOpChildren ($<n>3,2,$7,$13);}
                          {$<n>$ = TrLinkPeerOp ($13,$9);
                            $$ = $<n>10;}
  ;

OptionalPredicate
```

```
  :                         {$$ = TrCreateValuedLeafOp (PARSEOP_INTEGER, 1);}
  | TermArg                 {$$ = $1;}
  ;

FprintfTerm
  : PARSEOP_FPRINTF
    PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_FPRINTF);}
    TermArg ','
    StringLiteral
    PrintfArgList
    PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,3,$4,$6,$7);}
  | PARSEOP_FPRINTF
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

FromBCDTerm
  : PARSEOP_FROMBCD
    PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_FROMBCD);}
    TermArg
    Target
    PARSEOP_CLOSE_PAREN     {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
  | PARSEOP_FROMBCD
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

FunctionTerm
  : PARSEOP_FUNCTION
    PARSEOP_OPEN_PAREN      {COMMENT_CAPTURE_OFF; $<n>$ = TrCreateLeafOp
(PARSEOP_METHOD); }
    NameString
    OptionalParameterTypePackage
    OptionalParameterTypesPackage
    PARSEOP_CLOSE_PAREN '{'     {COMMENT_CAPTURE_ON; }
      TermList '}'          {$$ = TrLinkOpChildren ($<n>3,7,
                            TrSetOpFlags ($4, OP_IS_NAME_DECLARATION),
                            TrCreateLeafOp (PARSEOP_DEFAULT_ARG),
                            TrCreateLeafOp (PARSEOP_SERIALIZERULE_NOTSERIAL),
                            TrCreateValuedLeafOp (PARSEOP_BYTECONST, 0),$5,$6,$10);}
  | PARSEOP_FUNCTION
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

IfTerm
  : PARSEOP_IF
    PARSEOP_OPEN_PAREN      {$<n>$ = TrCreateLeafOp (PARSEOP_IF);}
```

```
    TermArg
    PARSEOP_CLOSE_PAREN '{'
      TermList '}'          {$$ = TrLinkOpChildren ($<n>3,2,$4,$7);}

  | PARSEOP_IF
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN
  {$$ = AslDoError(); yyclearin;}
  ;

IncludeTerm
  : PARSEOP_INCLUDE
    PARSEOP_OPEN_PAREN
    String
    PARSEOP_CLOSE_PAREN       {$$ = TrSetOpIntegerValue (PARSEOP_INCLUDE, $3);
                               FlOpenIncludeFile ($3);}
  ;

IncludeEndTerm
  : PARSEOP_INCLUDE_END       {$<n>$ = TrCreateLeafOp (PARSEOP_INCLUDE_END);
                               TrSetOpCurrentFilename ($$);}
  ;

IncTerm
  : PARSEOP_INCREMENT
    PARSEOP_OPEN_PAREN        {$<n>$ = TrCreateLeafOp (PARSEOP_INCREMENT);}
    SuperName
    PARSEOP_CLOSE_PAREN       {$$ = TrLinkOpChildren ($<n>3,1,$4);}
  | PARSEOP_INCREMENT
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN  {$$ = AslDoError(); yyclearin;}
  ;

IndexFieldTerm
  : PARSEOP_INDEXFIELD
    PARSEOP_OPEN_PAREN        {$<n>$ = TrCreateLeafOp (PARSEOP_INDEXFIELD);}
    NameString
    NameStringItem
    OptionalAccessTypeKeyword
     OptionalLockRuleKeyword
    OptionalUpdateRuleKeyword
    PARSEOP_CLOSE_PAREN '{'
      FieldUnitList '}'      {$$ = TrLinkOpChildren ($<n>3,6,$4,$5,$6,$7,$8,$11);}
  | PARSEOP_INDEXFIELD
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN
    '{' error '}'             {$$ = AslDoError(); yyclearin;}
  ;
```

```
IndexTerm
  : PARSEOP_INDEX
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_INDEX);}
      TermArg
      TermArgItem
      Target
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
  | PARSEOP_INDEX
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

LAndTerm
  : PARSEOP_LAND
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_LAND);}
      TermArg
      TermArgItem
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
  | PARSEOP_LAND
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN
  {$$ = AslDoError(); yyclearin;}
  ;

LEqualTerm
  : PARSEOP_LEQUAL
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_LEQUAL);}
      TermArg
      TermArgItem
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
  | PARSEOP_LEQUAL
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

LGreaterEqualTerm
  : PARSEOP_LGREATEREQUAL
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_LLESS);}
      TermArg
      TermArgItem
      PARSEOP_CLOSE_PAREN         {$$ = TrCreateOp (PARSEOP_LNOT, 1,
                                  TrLinkOpChildren ($<n>3,2,$4,$5));}
  | PARSEOP_LGREATEREQUAL
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;
```

```
LGreaterTerm
  : PARSEOP_LGREATER
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_LGREATER);}
      TermArg
      TermArgItem
      PARSEOP_CLOSE_PAREN
        {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
  | PARSEOP_LGREATER
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

LLessEqualTerm
  : PARSEOP_LLESSEQUAL
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_LGREATER);}
      TermArg
      TermArgItem
      PARSEOP_CLOSE_PAREN         {$$ = TrCreateOp (PARSEOP_LNOT, 1,
                                  TrLinkOpChildren ($<n>3,2,$4,$5));}
  | PARSEOP_LLESSEQUAL
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

LLessTerm
  : PARSEOP_LLESS
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_LLESS);}
      TermArg
      TermArgItem
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
  | PARSEOP_LLESS
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

LNotEqualTerm
  : PARSEOP_LNOTEQUAL
       PARSEOP_OPEN_PAREN         {$<n>$ = TrCreateLeafOp (PARSEOP_LEQUAL);}
      TermArg
      TermArgItem
      PARSEOP_CLOSE_PAREN         {$$ = TrCreateOp (PARSEOP_LNOT, 1,
                                  TrLinkOpChildren ($<n>3,2,$4,$5));}
  | PARSEOP_LNOTEQUAL
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

LNotTerm
```

```
  : PARSEOP_LNOT
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_LNOT);}
    TermArg
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,1,$4);}
  | PARSEOP_LNOT
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

LoadTableTerm
  : PARSEOP_LOADTABLE
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_LOADTABLE);}
    TermArg
    TermArgItem
    TermArgItem
    OptionalListString
    OptionalListString
    OptionalReference
    PARSEOP_CLOSE_PAREN         {$$ =
 TrLinkOpChildren ($<n>3,6,$4,$5,$6,$7,$8,$9);}
  | PARSEOP_LOADTABLE
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

LoadTerm
  : PARSEOP_LOAD
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_LOAD);}
    NameString
    RequiredTarget
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
  | PARSEOP_LOAD
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

LocalTerm
  : PARSEOP_LOCAL0              {$$ = TrCreateLeafOp (PARSEOP_LOCAL0);}
  | PARSEOP_LOCAL1              {$$ = TrCreateLeafOp (PARSEOP_LOCAL1);}
  | PARSEOP_LOCAL2              {$$ = TrCreateLeafOp (PARSEOP_LOCAL2);}
  | PARSEOP_LOCAL3              {$$ = TrCreateLeafOp (PARSEOP_LOCAL3);}
  | PARSEOP_LOCAL4              {$$ = TrCreateLeafOp (PARSEOP_LOCAL4);}
  | PARSEOP_LOCAL5              {$$ = TrCreateLeafOp (PARSEOP_LOCAL5);}
  | PARSEOP_LOCAL6
          {$$ = TrCreateLeafOp (PARSEOP_LOCAL6);}
  | PARSEOP_LOCAL7              {$$ = TrCreateLeafOp (PARSEOP_LOCAL7);}
  ;
```

```
LOrTerm
  : PARSEOP_LOR
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_LOR);}
      TermArg
      TermArgItem
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
  | PARSEOP_LOR
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

MatchTerm
  : PARSEOP_MATCH
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_MATCH);}
      TermArg
      ',' MatchOpKeyword
      TermArgItem
      ',' MatchOpKeyword
      TermArgItem
      TermArgItem
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,6,$4,$6,$7,$9,$10,$11);}
  | PARSEOP_MATCH
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

MethodTerm
  : PARSEOP_METHOD
      PARSEOP_OPEN_PAREN          {$<n>$
 = TrCreateLeafOp (PARSEOP_METHOD); COMMENT_CAPTURE_OFF;}
      NameString
      OptionalByteConstExpr       {UtCheckIntegerRange ($5, 0, 7);}
      OptionalSerializeRuleKeyword
      OptionalByteConstExpr
      OptionalParameterTypePackage
      OptionalParameterTypesPackage
      PARSEOP_CLOSE_PAREN '{'     {COMMENT_CAPTURE_ON;}
        TermList '}'              {$$ = TrLinkOpChildren ($<n>3,7,
                                  TrSetOpFlags ($4, OP_IS_NAME_DECLARATION),
                                  $5,$7,$8,$9,$10,$14);}
  | PARSEOP_METHOD
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

MidTerm
  : PARSEOP_MID
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_MID);}
```

```
    TermArg
    TermArgItem
    TermArgItem
    Target
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,4,$4,$5,$6,$7);}
  | PARSEOP_MID
    PARSEOP_OPEN_PAREN
    error
 PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

ModTerm
  : PARSEOP_MOD
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_MOD);}
    TermArg
    TermArgItem
    Target
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
  | PARSEOP_MOD
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

MultiplyTerm
  : PARSEOP_MULTIPLY
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_MULTIPLY);}
    TermArg
    TermArgItem
    Target
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
  | PARSEOP_MULTIPLY
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

MutexTerm
  : PARSEOP_MUTEX
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_MUTEX);}
    NameString
    OptionalSyncLevel
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren
($<n>3,2,
                        TrSetOpFlags ($4, OP_IS_NAME_DECLARATION),$5);}
  | PARSEOP_MUTEX
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;
```

```
NameTerm
  : PARSEOP_NAME
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_NAME);}
      NameString
      ',' DataObject
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,2,
                                TrSetOpFlags ($4, OP_IS_NAME_DECLARATION),$6);}
  | PARSEOP_NAME
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

NAndTerm
  : PARSEOP_NAND
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_NAND);}
      TermArg
      TermArgItem
      Target
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
  | PARSEOP_NAND
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}

  ;

NoOpTerm
  : PARSEOP_NOOP                {$$ = TrCreateOp (PARSEOP_NOOP, 0);}
  ;

NOrTerm
  : PARSEOP_NOR
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_NOR);}
      TermArg
      TermArgItem
      Target
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
  | PARSEOP_NOR
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

NotifyTerm
  : PARSEOP_NOTIFY
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_NOTIFY);}
      SuperName
      TermArgItem
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
  | PARSEOP_NOTIFY
```

```
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

NotTerm
  : PARSEOP_NOT
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_NOT);}
    TermArg
    Target
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
  | PARSEOP_NOT
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

ObjectTypeTerm
  : PARSEOP_OBJECTTYPE
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_OBJECTTYPE);}
    ObjectTypeSource
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,1,$4);}
  | PARSEOP_OBJECTTYPE
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

OffsetTerm
  : PARSEOP_OFFSET
    PARSEOP_OPEN_PAREN
    AmlPackageLengthTerm
    PARSEOP_CLOSE_PAREN         {$$ = TrCreateOp (PARSEOP_OFFSET,1,$3);}
  | PARSEOP_OFFSET
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

OpRegionTerm
  : PARSEOP_OPERATIONREGION
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_OPERATIONREGION);}
    NameString
    ',' OpRegionSpaceIdTerm
    TermArgItem
    TermArgItem
    PARSEOP_CLOSE_PAREN
      {$$ = TrLinkOpChildren ($<n>3,4,
                        TrSetOpFlags ($4, OP_IS_NAME_DECLARATION),
                        $6,$7,$8);}
  | PARSEOP_OPERATIONREGION
    PARSEOP_OPEN_PAREN
```

```
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

OpRegionSpaceIdTerm
  : RegionSpaceKeyword          {}
  | ByteConst                   {$$ = UtCheckIntegerRange ($1, 0x80, 0xFF);}
  ;

OrTerm
  : PARSEOP_OR
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_OR);}
    TermArg
    TermArgItem
    Target
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
  | PARSEOP_OR
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

PackageTerm
  : PARSEOP_PACKAGE             {$<n>$ = TrCreateLeafOp (PARSEOP_VAR_PACKAGE);}
    OptionalDataCount
    '{' PackageList '}'         {$$ = TrLinkOpChildren ($<n>2,2,$3,$5);}

PowerResTerm
   : PARSEOP_POWERRESOURCE
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_POWERRESOURCE);}
    NameString
    ',' ByteConstExpr
    ',' WordConstExpr
    PARSEOP_CLOSE_PAREN '{'
      TermList '}'              {$$ = TrLinkOpChildren ($<n>3,4,
                                TrSetOpFlags ($4, OP_IS_NAME_DECLARATION),
                                $6,$8,$11);}
  | PARSEOP_POWERRESOURCE
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

PrintfTerm
  : PARSEOP_PRINTF
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_PRINTF);}
    StringLiteral
    PrintfArgList
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
  | PARSEOP_PRINTF
    PARSEOP_OPEN_PAREN
```

```
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

PrintfArgList
  :                         {$$ = NULL;}
   | TermArg                    {$$ = $1;}
  | PrintfArgList ','
    TermArg                   {$$ = TrLinkPeerOp ($1, $3);}
  ;

ProcessorTerm
  : PARSEOP_PROCESSOR
    PARSEOP_OPEN_PAREN        {$<n>$ = TrCreateLeafOp (PARSEOP_PROCESSOR);}
    NameString
    ',' ByteConstExpr
    OptionalDWordConstExpr
    OptionalByteConstExpr
    PARSEOP_CLOSE_PAREN '{'
      TermList '}'            {$$ = TrLinkOpChildren ($<n>3,5,
                              TrSetOpFlags ($4, OP_IS_NAME_DECLARATION),
                              $6,$7,$8,$11);}
  | PARSEOP_PROCESSOR
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

RawDataBufferTerm
  : PARSEOP_DATABUFFER
    PARSEOP_OPEN_PAREN        {$<n>$ = TrCreateLeafOp (PARSEOP_DATABUFFER);}
    OptionalWordConst
    PARSEOP_CLOSE_PAREN '{'
      ByteList '}'            {$$ = TrLinkOpChildren ($<n>3,2,$4,$7);}

  | PARSEOP_DATABUFFER
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

/*
* In RefOf, the node isn't really a target, but we can't keep track of it after
* we've taken a pointer to it. (hard to tell if a local becomes initialized this way.)
*/
RefOfTerm
  : PARSEOP_REFOF
    PARSEOP_OPEN_PAREN        {$<n>$ = TrCreateLeafOp (PARSEOP_REFOF);}
    RefOfSource
    PARSEOP_CLOSE_PAREN        {$$ = TrLinkOpChildren ($<n>3,1,
                            TrSetOpFlags ($4, OP_IS_TARGET));}
```

```
  | PARSEOP_REFOF
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

ReleaseTerm
  : PARSEOP_RELEASE
      PARSEOP_OPEN_PAREN         {$<n>$ = TrCreateLeafOp (PARSEOP_RELEASE);}
      SuperName
      PARSEOP_CLOSE_PAREN        {$$ = TrLinkOpChildren ($<n>3,1,$4);}
  | PARSEOP_RELEASE
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError();
 yyclearin;}
  ;

ResetTerm
  : PARSEOP_RESET
      PARSEOP_OPEN_PAREN         {$<n>$ = TrCreateLeafOp (PARSEOP_RESET);}
      SuperName
      PARSEOP_CLOSE_PAREN        {$$ = TrLinkOpChildren ($<n>3,1,$4);}
  | PARSEOP_RESET
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

ReturnTerm
  : PARSEOP_RETURN
      PARSEOP_OPEN_PAREN         {$<n>$ = TrCreateLeafOp (PARSEOP_RETURN);}
      OptionalReturnArg
      PARSEOP_CLOSE_PAREN        {$$ = TrLinkOpChildren ($<n>3,1,$4);}
  | PARSEOP_RETURN               {$$ = TrLinkOpChildren (
                                 TrCreateLeafOp (PARSEOP_RETURN),1,
                                 TrSetOpFlags (TrCreateLeafOp (PARSEOP_ZERO),
                                    OP_IS_NULL_RETURN));}
  | PARSEOP_RETURN
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

ScopeTerm
  : PARSEOP_SCOPE

    PARSEOP_OPEN_PAREN         {$<n>$ = TrCreateLeafOp (PARSEOP_SCOPE);}
      NameString
      PARSEOP_CLOSE_PAREN '{'
        TermList '}'           {$$ = TrLinkOpChildren ($<n>3,2,
                               TrSetOpFlags ($4, OP_IS_NAME_DECLARATION),$7);}
```

```
  | PARSEOP_SCOPE
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

ShiftLeftTerm
  : PARSEOP_SHIFTLEFT
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_SHIFTLEFT);}
      TermArg
      TermArgItem
      Target
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
  | PARSEOP_SHIFTLEFT
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

ShiftRightTerm
  : PARSEOP_SHIFTRIGHT
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_SHIFTRIGHT);}
      TermArg
      TermArgItem
      Target
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren
($<n>3,3,$4,$5,$6);}
  | PARSEOP_SHIFTRIGHT
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

SignalTerm
  : PARSEOP_SIGNAL
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_SIGNAL);}
      SuperName
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,1,$4);}
  | PARSEOP_SIGNAL
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

SizeOfTerm
  : PARSEOP_SIZEOF
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_SIZEOF);}
      SuperName
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,1,$4);}
  | PARSEOP_SIZEOF
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
```

```
  ;

SleepTerm
  : PARSEOP_SLEEP
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_SLEEP);}
    TermArg
    PARSEOP_CLOSE_PARENT        {$$ = TrLinkOpChildren ($<n>3,1,$4);}
  | PARSEOP_SLEEP
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

StallTerm
  : PARSEOP_STALL
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_STALL);}
    TermArg
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,1,$4);}
  | PARSEOP_STALL
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

StoreTerm
  : PARSEOP_STORE
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_STORE);}
    TermArg
    ',' SuperName
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,2,$4,
                                TrSetOpFlags ($6, OP_IS_TARGET));}
  | PARSEOP_STORE
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

SubtractTerm
  : PARSEOP_SUBTRACT
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_SUBTRACT);}
    TermArg
     TermArgItem
    Target
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
  | PARSEOP_SUBTRACT
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

SwitchTerm
  : PARSEOP_SWITCH
```

```
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_SWITCH);}
    TermArg
    PARSEOP_CLOSE_PAREN '{'
      CaseDefaultTermList '}' {$$ = TrLinkOpChildren ($<n>3,2,$4,$7);}
  | PARSEOP_SWITCH
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

ThermalZoneTerm
  : PARSEOP_THERMALZONE
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_THERMALZONE);}
    NameString
    PARSEOP_CLOSE_PAREN '{'
      TermList '}'              {$$ = TrLinkOpChildren ($<n>3,2,
                                TrSetOpFlags ($4, OP_IS_NAME_DECLARATION),$7);}
  | PARSEOP_THERMALZONE
    PARSEOP_OPEN_PAREN

  error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

TimerTerm
  : PARSEOP_TIMER
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_TIMER);}
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,0);}
  | PARSEOP_TIMER               {$$ = TrLinkOpChildren (
                                TrCreateLeafOp (PARSEOP_TIMER),0);}
  | PARSEOP_TIMER
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

ToBCDTerm
  : PARSEOP_TOBCD
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_TOBCD);}
    TermArg
    Target
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
  | PARSEOP_TOBCD
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

ToBufferTerm
  : PARSEOP_TOBUFFER
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_TOBUFFER);}
    TermArg
```

```
    Target

 PARSEOP_CLOSE_PAREN        {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
  | PARSEOP_TOBUFFER
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

ToDecimalStringTerm
  : PARSEOP_TODECIMALSTRING
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_TODECIMALSTRING);}
    TermArg
    Target
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
  | PARSEOP_TODECIMALSTRING
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

ToHexStringTerm
  : PARSEOP_TOHEXSTRING
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_TOHEXSTRING);}
    TermArg
    Target
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
  | PARSEOP_TOHEXSTRING
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

ToIntegerTerm
  : PARSEOP_TOINTEGER
    PARSEOP_OPEN_PAREN
      {$<n>$ = TrCreateLeafOp (PARSEOP_TOINTEGER);}
    TermArg
    Target
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
  | PARSEOP_TOINTEGER
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

ToPLDTerm
  : PARSEOP_TOPLD
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_TOPLD);}
    PldKeywordList
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,1,$4);}
  | PARSEOP_TOPLD
```

```
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

PldKeywordList
  :                         {$$ = NULL;}
  | PldKeyword
    PARSEOP_EXP_EQUALS Integer  {$$ = TrLinkOpChildren ($1,1,$3);}
  | PldKeyword
    PARSEOP_EXP_EQUALS String   {$$ = TrLinkOpChildren ($1,1,$3);}
  | PldKeywordList ','          /* Allows a trailing comma at list end */
  | PldKeywordList ','
    PldKeyword
    PARSEOP_EXP_EQUALS
 Integer  {$$ = TrLinkPeerOp ($1,TrLinkOpChildren ($3,1,$5));}
  | PldKeywordList ','
    PldKeyword
    PARSEOP_EXP_EQUALS String   {$$ = TrLinkPeerOp ($1,TrLinkOpChildren ($3,1,$5));}
  ;


ToStringTerm
  : PARSEOP_TOSTRING
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_TOSTRING);}
    TermArg
    OptionalCount
    Target
    PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
  | PARSEOP_TOSTRING
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

ToUUIDTerm
  : PARSEOP_TOUUID
    PARSEOP_OPEN_PAREN
    StringLiteral
    PARSEOP_CLOSE_PAREN         {$$ = TrSetOpIntegerValue (PARSEOP_TOUUID, $3);}
  | PARSEOP_TOUUID
    PARSEOP_OPEN_PAREN
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

UnicodeTerm
  : PARSEOP_UNICODE
    PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_UNICODE);}
    StringLiteral
```

```
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,2,0,$4);}
  | PARSEOP_UNICODE
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

UnloadTerm
  : PARSEOP_UNLOAD
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_UNLOAD);}
      SuperName
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,1,$4);}
  | PARSEOP_UNLOAD
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

WaitTerm
  : PARSEOP_WAIT
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_WAIT);}
      SuperName
      TermArgItem
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,2,$4,$5);}
  | PARSEOP_WAIT
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

XOrTerm
  : PARSEOP_XOR
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_XOR);}
      TermArg

 TermArgItem
      Target
      PARSEOP_CLOSE_PAREN         {$$ = TrLinkOpChildren ($<n>3,3,$4,$5,$6);}
  | PARSEOP_XOR
      PARSEOP_OPEN_PAREN
      error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;

WhileTerm
  : PARSEOP_WHILE
      PARSEOP_OPEN_PAREN          {$<n>$ = TrCreateLeafOp (PARSEOP_WHILE);}
      TermArg
      PARSEOP_CLOSE_PAREN
        '{' TermList '}'          {$$ = TrLinkOpChildren ($<n>3,2,$4,$7);}
  | PARSEOP_WHILE
      PARSEOP_OPEN_PAREN
```

```
    error PARSEOP_CLOSE_PAREN   {$$ = AslDoError(); yyclearin;}
  ;
```

Found in path(s):
* /acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/compiler/aslprimaries.y

1.229 python3-iniparse 0.4

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

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

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

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes

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(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute

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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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1.236 eudev 3.2.10

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1.238 quota 4.06

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1.239 bsd-mailx 12.5-5

1.239.1 Available under license :

bsd-mailx for DEBIAN

The history of this package is quite complicated. The changelog

includes a summary with the different maintainers.

At the beginning of Debian, I think this package was based on a BSD 5.5
mail version from FreeBSD.

There has been a lot on work on the package shipped with Debian
0.93R6, which was based a BSD 8.1 mail version from BSD4.4Lite. The
extensions includes support for dotfile locking, setgid support, POP
support, signal handling hacks.

here is a README originally found:
+ README for Berkely mailx version 8.1 with POP extension
+
+ This is "mailx", a simple program for sending and receiving email.
+
+ This is based on mailx version 8.1 (as distributed with BSD 4.4lite).
+
+ It has been extended to support the post-office protocol (POP). Run
+ "mail -p" and it will retrive your email from a POP server rather than
+ from your local mail queue. See the manual page for more details.
+
+ The POP support was written
by Jonathan I. Kamens for version mailx 5.5
+ (as distributed with BSD 4.3.)
+
+ The POP support was integrated into version 8.1 by Salvatore Valente
+ for no particular reason. (It would have been simpler for me to
+ simply use Jonathan's 5.5 source tree. There are no major differences
+ between the two versions.)
+
+ Have a nice day.
+ -Salvatore Valente. <svalente@athena.mit.edu>
+ 5/12/94
+
+
+ PORTING
+
+ Before attempting to compile this for _any_ system, you should do two
+ things:
+
+ Edit CFLAGS in Makefile.
+ Edit pathnames.h.
+
+ These sources are _extremely_ BSDish. I have successfully built this
+ for Linux, BSD 4.3, NetBSD, Ultrix, Aix, and SunOS. I have never
+ successfully gotten it to build for Solaris or any System 5ish system.
+ If you want to try, here are some issues you will face:
+

+ It uses BSD signal() semantics. Use sigaction().
+ It uses BSD longjmp() semantics. Use siglongjmp().
+
It uses BSD sgtty. Use termios.
+ It uses BSD signal mask functions. Use posix sigmask functions.
+
+ There will probably be other hurdles too. Good luck.

With Debian1.1 a switch was done to a version base on a BSD5.5 mail
program, because of signal handling problems (which I think were due
to bad compilation options). So no more POP support. Some patches
from Ken Whang <Kenneth.C.Whang-1@umn.edu> included, the corresponding
README was:
+ mailx-5.5-kw 5/30/95
+
+
+ WHAT'S IN THIS PATCH
+
+ There are a bunch of little features, common in System V and SunOS
+ versions of mailx, that are missing from the NetBSD-based version
+ distributed with Linux. This patch attempts to fill in some of what's
+ missing.
+
+ Changes from debian mailx-5.5 include:
+
+ 5/4/95:
+
+ -- interpret prompt variable
+ -- interpret ~a and ~A tilde escapes
+ -- updated tildehelp list
+ -- changed mail.rc to ignore nothing (just my personal preference)
+ -- accept
From lines with times of the form hh:mm (formerly took only hh:mm:ss)
+
+ 5/7/95:
+
+ -- Save (S) command saves to mailbox named after author
+ -- take startup commands from file named by environment variable MAILRC
+
+ 5/30/95:
+
+ -- -H switch for header summary only
+
+ Still to be done:
+
+ -- pipe ~p output through PAGER (see type1 in cmd1.c for an example)
+ -- save (s) by default to MBOX (instead of "No file specified.")

+ -- ~q should save to dead.letter, ~x is not known
+ -- update man page
+ -- allnet and showto ("showto" shows recipient instead of sender if sender
+   is current user)
+
+ Possibly difficult:
+
+ -- interpret editheaders variable as in SunOS version
+
+ Bugs:
+
+ -- ~a,~A tilde escapes leave an extra trailing blank on each line
+ -- to conform to original style, I should really be using char *cp
+   instead of new variables sig and prompt to be looking up variables
+ -- -H switch implementation
is kind of gross. grep for "hdronly" in
+   source files; much room for improvement!
+
+
+ HOW TO INSTALL
+
+ Apply Sal Valente's debian patch first, so:
+
+   tar xvfz mailx-5.5.tar.gz
+   cd mailx-5.5
+   zcat ../mailx-5.5.debian.diff.gz | patch -p1
+   zcat ../mailx-5.5-kw.diff.gz | patch -p1
+   make
+
+ Or you may wish to just uncompress the diff file and pick and choose
+ the changes that you like.
+
+
+ AUTHOR
+
+ Ken Whang <Kenneth.C.Whang-1@umn.edu>

This version has no provision for the debian mail policy (permission
on /var/mail+dotfile locking), so Loic Prylli
<lprylli@graville.fdn.fr> finally recreate a package based on the OpenBSD
mail with the minimum number of patches to make it suited for debian
(see changelog). There is no more POP support, nor the added
functionality from Ken Whang, but all these patches are archived, so
mail <lprylli@graville.fdn.fr> if you want them to be incorporated.

Loic Prylli

<lprylli@graville.fdn.fr>, Mon, 23 Dec 1996 00:13:13 +0100

Sat Apr 4 14:05:38 CEST 1998:
After a security patch to fix tmp races, a number of things broke.
Here is what I have tried to fix them:
The rationale is to have all file openings go through safe_open:
File opened in mode "w", "w+", are created with O_EXCL mode,
(should coincide with temporary files or new files)
Files with "a" "a+" et "r+" mode do not require the O_EXCL files. "a+" et "r+" do not creat the file.

Still to do: check creat calls
3.0 (quilt)
diff-ignore
tar-ignore
00-Makefiles.patch
01-Fix-includes.patch
02-Base-fixes-1.patch
03-Base-fixes-2.patch
04-Add-custom-header.patch
05-Mailx-fixes.patch
06-Use-lockf-instead-of-flock.patch
07-Initialize-head-struct.patch
08-Use-liblockfile-library.patch
09-Saved-mbox-message.patch
10-Reply-To-header.patch
11-Showname-option.patch
12-REPLYTO-can-be-set-in-.mailrc-too.patch
13-Mailx-concatenates-messages.patch
14-Truncate-mailbox-instead-of-deleting-it.patch
15-No-space-left-in-tmp.patch
16-Stdin-not-a-tty.patch
17-Intialize-tv_used.patch
18-Wait-for-sendmail.patch
19-Fix-compilation-on-Hurd.patch
20-Don-t-delete-temporary-file.patch
21-Use-wordexpr-instead-of-echo.patch
22-Replace-newlines-with-spaces.patch
24-False-cant-send-email-errors.patch
25-Fix-confusing-error.patch
80-remove_T.patch
81-minus_f.patch
82-expandaddr.patch
83-nosendmail.patch
This package was debianized by Loic Prylli <lprylli@graville.fdn.fr> on
Mon, 23 Dec 1996 00:13:13 +0100.
The package is currently maintained by Robert Luberda <robert@debian.org>

It is now based on OpenBSD in directory src/usr.bin/mail on a lot of major
ftp sites.
See the README.Debian (and changelog.Debian) for the complicated history
of the Debian package.

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OF
SUCH DAMAGE.
etc
usr/bin
usr/share/bsd-mailx
usr/share/man/man1
9
#!/usr/bin/make -f

include /usr/share/dpkg/architecture.mk

```
ifneq ($(DEB_HOST_GNU_TYPE),$(DEB_BUILD_GNU_TYPE))
 export CC = $(DEB_HOST_GNU_TYPE)-gcc
else
 export CC = gcc
endif

%:
 dh "$@" --parallel

override_dh_auto_clean:
 # Don't try to run make clean on unpatched version of Makefile
 ! grep -q DEBIAN Makefile || dh_auto_clean

override_dh_installchangelogs:
 dh_installchangelogs -a debian/EXT/ChangeLog
bsd-mailx (8.1.2-0.20131005cvs-1ubuntu0.14.04.1) trusty-security; urgency=medium

 * SECURITY UPDATE: shell command injection
   - Apply OpenBSD patches from Todd Miller (taken from Debian update):
     + 80-remove_T.patch (remove undocumented/obsolete -T option)
     + 81-minus_f.patch (adjust -f processing)
     + 82-expandaddr.patch (fix CVE-2014-7844)
     + 83-nosendmail.patch (make -- work for option parsing suppression)
   - CVE-2014-7844

-- Marc Deslauriers <marc.deslauriers@ubuntu.com>  Mon, 05 Jan 2015 11:36:44 -0500

bsd-mailx (8.1.2-0.20131005cvs-1) unstable; urgency=low

 * New upstream version from OpenBSD CVS repository.
 * Remove 23-Treat-new-line-only-messages-as-empty-ones.patch, introduced
   in 1:8.1.2-0.20071017cvs-1 so that bsd-mailx will behave like other mailx
   implementations and will not treat messages containing a single new line
   only as an empty ones (LP: #607099, reopens #355545).
 * Extend description of this package to mention the fact
 that bsd-mailx lacks
   many features that may be found in other packages like heirloom-mailx
   or mailutils (closes: #508303).
 * Add 26-Fix-confusing-error.patch to make a message given when -b is used
   without -t less confusing (closes: #327809).
 * Fix 00-Makefile.patch not to override CC and pass CPPFLAGS while compiling.
 * debian/rules:
   + apply patch from Ubuntu to respect DEB_HOST_GNU_TYPE when selecting CC
     for cross-compiling;
   + do not try to run make clean on unpatched Makefile.
 * Bump Standards-Version to 3.9.4 (no changes).

-- Robert Luberda <robert@debian.org>  Sun, 06 Oct 2013 11:58:42 +0200
```

bsd-mailx (8.1.2-0.20111106cvs-1) unstable; urgency=low

 * New upstream version from OpenBSD CVS repository.
 * Drop the additional source files from EXT directory, use libbsd-dev
   instead. Move EXT to debian.
 * 00-Makefile: don't override CFLAGS set in environment.
 * Switch to dpkg-source 3.0 (quilt) format.
 * Use debhelper v9 and tiny debian/rules
 file.
 * debian/control:
   + Build-Depends on libbsd-dev;
   + Standards-Version: 3.9.2;
   + use Breaks instead of versioned Conflicts;
   + add Vcs fields;
   + reformat the dependencies fields with `wrap-and-sort' command.
 * Include full text of BSD licence in copyright (lintian).

-- Robert Luberda <robert@debian.org> Sun, 20 Nov 2011 23:37:22 +0100

bsd-mailx (8.1.2-0.20100314cvs-1) unstable; urgency=low

 * New upstream version from OpenBSD CVS repository.
 * Follow upstream and stop installing the outdated documentation
   (closes: #455708); also remove doc-base file.
 * debian/control:
   + depend on default-mta instead of exim4 (closes: #555495);
   + add ${misc:Depends} dependency (lintian);
   + Standards-Version: 3.8.4 (no changes).

-- Robert Luberda <robert@debian.org> Sun, 14 Mar 2010 13:22:18 +0100

bsd-mailx (8.1.2-0.20090911cvs-2) unstable; urgency=medium

 * Fix a bogus "can't send mail: sendmail process failed" errors appearing
   rarely
 on systems under heavy loads (closes: #550116).
   Many thanks to Ivan Zahariev <famzah(at)icdsoft.com> for his investigation
   and patch.

-- Robert Luberda <robert@debian.org> Sat, 10 Oct 2009 11:21:11 +0200

bsd-mailx (8.1.2-0.20090911cvs-1) unstable; urgency=low

 * New upstream release from OpenBSD repository.
 * Fix grammar in description (closes: #515781).
 * Drop mailx transitional package.
 * Bump debhelper compat mode to 7.

* Standards-Version: 3.8.3

-- Robert Luberda <robert@debian.org> Fri, 11 Sep 2009 18:14:22 +0200

bsd-mailx (8.1.2-0.20081101cvs-2) unstable; urgency=low

* Upload to unstable.

-- Robert Luberda <robert@debian.org> Sun, 09 Nov 2008 09:00:25 +0100

bsd-mailx (8.1.2-0.20081101cvs-1) experimental; urgency=low

* New upstream release.
* Lower priority of mailx package to extra.
* Standards-Version: 3.8.0 (no changes).
* Remove duplicated `it' from description (lintian).

-- Robert Luberda <robert@debian.org> Sat, 01 Nov 2008
12:40:12 +0100

bsd-mailx (8.1.2-0.20071201cvs-3) unstable; urgency=low

* Lower priority of mailx package to optional (see #477124).
* copyright: Add a copyright notice (lintian).
* Build depend on debhelper >= 6 (lintian).
* Change doc-base section to Network/Communication (lintian).

-- Robert Luberda <robert@debian.org> Sat, 26 Apr 2008 09:52:18 +0200

bsd-mailx (8.1.2-0.20071201cvs-2) unstable; urgency=medium

* Add conflict with old mailx packages (closes: #459621).
* Standards-Version: 3.7.3 (no changes).
* Fix invalid regexp in postinst.

-- Robert Luberda <robert@debian.org> Tue, 08 Jan 2008 23:01:18 +0100

bsd-mailx (8.1.2-0.20071201cvs-1) unstable; urgency=low

* New upstream version.
* Rename package to bsd-mailx, and create dummy mailx package for smooth
  upgrades.
* Manage /usr/bin/mailx with update-alternatives to allow other packages
  like mailutils or nail to be installed together with bsd-mailx.
* Remove outdated preinst script.

--

Robert Luberda <robert@debian.org> Sat, 01 Dec 2007 12:54:13 +0100

mailx (1:8.1.2-0.20071017cvs-2) unstable; urgency=low

 * collect.c: Ooops, for debugging I commented out the line responsible
   for removing temporary, and forgot to uncomment it...

-- Robert Luberda <robert@debian.org> Fri, 19 Oct 2007 23:10:11 +0200

mailx (1:8.1.2-0.20071017cvs-1) unstable; urgency=low

 * New upstream version from OpenBSD CVS repository.
 * send.c: treat messages which contain only a new line sign as empty
   messages (closes: #355545).
 * Fix ` debian-rules-ignores-make-clean-error' lintian warning.
 * Bump debhelper compat mode to v6.

-- Robert Luberda <robert@debian.org> Thu, 18 Oct 2007 23:35:53 +0200

mailx (1:8.1.2-0.20070424cvs-1) unstable; urgency=low

 * New upstream version from OpenBSD CVS repository.
 * Standards-Version: 3.7.2.
 * Lower package priority to standard to match the override file.
 * main.c: Replace with spaces any embeded newline passed in arguments

  for '-s' and '-a' options (closes: #419840).
 * mail.1: Fix a typo (closes: #411420).

-- Robert Luberda <robert@debian.org> Thu, 03 May 2007 12:09:36 +0200

mailx (1:8.1.2-0.20050715cvs-1) unstable; urgency=low

 * New upstream version from OpenBSD CVS repository:
   + fixed segfault in list.c (closes: #313306).
 * Standard-Version: 3.6.2 (no changes).

-- Robert Luberda <robert@debian.org> Fri, 15 Jul 2005 00:28:33 +0200

mailx (1:8.1.2-0.20040524cvs-4) unstable; urgency=low

 * Fix documentation of sendmail options in the man page and in the
   mailx's usage output (closes: #285259).

-- Robert Luberda <robert@debian.org> Sat, 18 Dec 2004 13:58:28 +0100

mailx (1:8.1.2-0.20040524cvs-3) unstable; urgency=medium

* fio.c: Fix segfault on wildcard expansion introduced in previous upload.
  Thanks to Yuri D'Elia for noticing this (see bug#148389).

-- Robert Luberda <robert@debian.org> Sat, 13 Nov 2004 22:23:14 +0100

mailx (1:8.1.2-0.20040524cvs-2) unstable; urgency=medium

  * Bugfix release (closes: #278748):
    + fio.c: Use wordexpr() instead of calling /bin/echo not to allow
      executing external commands while expanding shell variables
      and wildcards.
    + names.c: isfileaddr function return false if '@', '!' or '%' i
      characters occur anywhere (e.g not only before the slash) in the
      recipient name.

-- Robert Luberda <robert@debian.org> Wed, 3 Nov 2004 20:46:39 +0100

mailx (1:8.1.2-0.20040524cvs-1) unstable; urgency=low

 * New upstream version from OpenBSD CVS repository.
 * debian/control: add exim4 alternative to mail-transport-agent
   dependency (closes: #248498).
 * USD.doc/mail*.nr: changed references from /usr/lib/Mail.rc to
   /etc/mail.rc.
 * USD.doc/Makefile, debian/rules: generate and install manual.txt
   (like in the upstream version).
 * Removed lintian override file, it's no longer needed.
 * Add lintian source overrides for `cvsignore-file-in-source'
   and `source-contains-CVS-dir'.

--
 Robert Luberda <robert@debian.org> Mon, 24 May 2004 23:03:47 +0200

mailx (1:8.1.2-0.20031014cvs-2) unstable; urgency=medium

 * edit.c: if the external editor (called by ~e or ~v commands) fails for
   some reason, don't delete the temporary file if it has been modified.
   This partly fixes bug#148037.
 * popen.c: print exit code of failed commands.
 * quit.c: change message saying that mailbox was "removed" to "truncated"
   (closes: #196682); mailx does not remove mailboxes, see the entry
   for 1:8.1.2-0.20020316cvs-2 in this changelog for the reason.

-- Robert Luberda <robert@debian.org> Wed, 31 Mar 2004 23:42:19 +0200

mailx (1:8.1.2-0.20031014cvs-1) unstable; urgency=low

 * New upstream version from OpenBSD.

* Fix problem with building on Hurd (closes: #213929).
* mail.1: removed reference to non-existent lockspool man page.
* Standards-Version: 3.6.1 (no changes).

-- Robert Luberda <robert@debian.org> Tue, 14 Oct 2003 20:48:51 +0200

mailx (1:8.1.2-0.20030521cvs-1)
unstable; urgency=low

* New upstream version from OpenBSD.
* Added EXT/vis.[ch] files, needed for compiling this version.
* Minor fix in Makefile (closes: #181022).
* debian/control: Remove ending dot from synopsis line (lintian).
* Standards-Version: 3.5.10 (no changes).

-- Robert Luberda <robert@debian.org> Thu, 22 May 2003 21:12:21 +0200

mailx (1:8.1.2-0.20020411cvs-5) unstable; urgency=low

* cmd1.c: Check if return value of screensize() > 0 (closes: #170784).
* Support DEB_BUILD_OPTIONS=noopt instead of debug.
* Build with debhelper v4.
* Standards-Version: 3.5.8.

-- Robert Luberda <robert@debian.org> Sat, 7 Dec 2002 11:42:34 +0100

mailx (1:8.1.2-0.20020411cvs-4) unstable; urgency=low

* send.c: Always wait for a sendmail process, check its exit code
  and if non-zero, print a warning message to user and save original
  message to ~/dead.letter (closes: #145379).
* popen.c: Make wait_child() return an exit code of the child.

* mail.1:
s/^\.ne li$/.ne/g to fix groff warnings.

-- Robert Luberda <robert@debian.org> Sat, 24 Aug 2002 22:15:23 +0200

mailx (1:8.1.2-0.20020411cvs-3) unstable; urgency=low

* aux.c: in function alter() do initialize tv_usec part of the
  timeval structure used to set modification time on the mailbox
  file (closes: #152038).
  Thanks to John Girash for help.

-- Robert Luberda <robert@debian.org> Thu, 11 Jul 2002 05:21:34 +0200

mailx (1:8.1.2-0.20020411cvs-2) unstable; urgency=low

* collect.c: return from grabh() if stdin is not a terminal.
  This fixes the `-I' option (closes: #149005).

-- Robert Luberda <robert@debian.org> Tue, 18 Jun 2002 22:55:27 +0200

mailx (1:8.1.2-0.20020411cvs-1) unstable; urgency=high

* New upstream CVS snapshot, with only one change, which fixes
  potential security problem:
  + collect.c:
    Don't do tilde escapes unless we are in interactive mode. Now the
    behavior matches the man page...
* Many thanks to Michal
Pajak for pointing out the problem.

-- Robert Luberda <robert@debian.org> Thu, 11 Apr 2002 19:07:59 +0200

mailx (1:8.1.2-0.20020316cvs-3) unstable; urgency=low

* fio.c: fixed previous patch (closes: #140527,#140485).

-- Robert Luberda <robert@debian.org> Tue, 2 Apr 2002 07:14:58 +0200

mailx (1:8.1.2-0.20020316cvs-2) unstable; urgency=low

* fio.c: Don't delete mailbox file, always truncate it, because liblockfile
  fails to remove the lock file if mailbox doesn't exist (closes: #111537).

-- Robert Luberda <robert@debian.org> Wed, 27 Mar 2002 09:20:08 +0100

mailx (1:8.1.2-0.20020316cvs-1) unstable; urgency=low

* Applied patches from Arnaud Giersch <arnaud.giersch@free.fr>
  which fix outstanding problems:
  + closes: #37104: Bug in all mailx* (tested: <=mailx_8.1.1-10).
  + closes: #71759: mailx concatenates messages.
  MANY THANKS FOR YOUR HELP, Arnaud!

* New upstream version from OpenBSD CVS repository:
  + closes: #34752: mail causes segmentation
fault when pushing Ctrl+C.
* This version uses strlcpy&strlcat functions, appropriate files were
  included in Debian patch.
* Added upstream changelog file, generated by hand from CVS logs using
  `cvs2cl --no-wrap -S'.
* Makefile: added -p option to install (preserve timestamps of installed
  files).

-- Robert Luberda <robert@debian.org> Tue, 26 Mar 2002 05:47:53 +0100

mailx (1:8.1.2-0.20010922cvs-3) unstable; urgency=low

 * debian/copyright: text of BSD license can be found in common-licences,
   so do not include it here...

-- Robert Luberda <robert@debian.org> Fri, 4 Jan 2002 08:13:30 +0100

mailx (1:8.1.2-0.20010922cvs-2) unstable; urgency=low

 * debian/copyright: removed 3th paragraph from the text of BSD license
   as suggested by Branden Robinson (closes: #123828).
 * Upgraded standards version to 3.5.6 (no changes needed).

-- Robert Luberda <robert@debian.org> Sat, 22 Dec 2001 21:56:31 +0100

mailx (1:8.1.2-0.20010922cvs-1) unstable; urgency=low

  * New version from OpenBSD cvs repository:
    + aux.c: In skin(), only add a space after a comma if there is actually a
      space in the input buffer. This prevents a rare buffer overflow on very
      long header lines... (closes: #108677). See #108677 for more info.
    + aux.c: In skin() don't die if realloc() fails since its only purpose is
      to shrink the buffer, not expand it.

 * No other changes was made, so I think this version should go to woody
   as well.

-- Robert Luberda <robert@debian.org> Sun, 23 Sep 2001 21:42:22 +0200

mailx (1:8.1.2-0.20010705cvs-2) unstable; urgency=low

 * Removed exim from exim|mail-transport-agent dependency (closes: #106122).
 * Added a lintian override file for virtual-package-without-real-package-
   dependency warning.
 * Fix spelling in description of the package (closes: #106449).

-- Robert Luberda <robert@debian.org> Wed, 8 Aug 2001 23:31:21 +0200

mailx (1:8.1.2-0.20010705cvs-1) unstable; urgency=low

 * New version
 from OpenBSD cvs.
 * Updated copyright and README.Debian files.
 * Removed IOSAFE patch - it wasn't used.
 * REPLYTO can be set in ~/.mailrc too.

-- Robert Luberda <robert@debian.org> Thu, 12 Jul 2001 18:58:01 +0200

mailx (1:8.1.2-0.20010319cvs-4) unstable; urgency=low

 * Applied patch from Tormod Volden <volden@iqe.phys.ethz.ch>, which adds
   "showname" option to mailx (closes: #96867).
 * v7.local.c: Removed /var/spool/mail hack added by Paul in 1:8.1.1-10.1.1
 * quit.c: Use lockf instead if flock.
 * quit.c: Add missing newline in `Saved ...' message.
 * Added doc-base support.
 * Added versioned dependency on base-files, as suggested in upgrading-
   checklist for Debian Policy 3.5.4.
 * Standards-Version: 3.5.5

-- Robert Luberda <robert@debian.org> Tue, 12 Jun 2001 23:43:10 +0200

mailx (1:8.1.2-0.20010319cvs-3) unstable; urgency=low

 * Applied some patches from FreeBSD:
   + Add Relpy-To header if REPLYTO environment variable is set.
   + Add In-Reply-To
 header for replies (closes: #23115).
 * When saving messages to mbox, print its real filename (closes: #68920).
   Thanks to Tollef Fog Heen for patch.
 * /etc/mail.rc: Add Delivered-To to list of ignored headers.

-- Robert Luberda <robert@debian.org> Wed, 4 Apr 2001 00:20:57 +0200

mailx (1:8.1.2-0.20010319cvs-2) unstable; urgency=low

 * Don't ask about (B)Cc: header twice (closes: #90822).

-- Robert Luberda <robert@debian.org> Fri, 23 Mar 2001 23:47:43 +0100

mailx (1:8.1.2-0.20010319cvs-1) unstable; urgency=medium

 * New maintainer (closes: #90146).
 * New upstream version from OpenBSD CVS repository.
 * Security fix: don't install mailx binary setgid mail.
   Now the liblockfile library is used for mailbox locking.
 * cmd3.c: Initialize head variable with NULLs. This should fix
   problem with garbage text when replying (closes: #84166).
 * Add conflicts with older suidmanager.
 * Helpfiles moved to /usr/share/mailx.
 * Added support for DEB_BUILD_OPTIONS=debug,nostrip.
  * Updated Standards-Version: 3.5.2
 * Switch to debhelper v3.

* Updated Build-Depends field.
* Closing bugs fixed in NMUs (closes: #23901, #64238, #68725, #68745).

-- Robert Luberda <robert@debian.org> Thu, 22 Mar 2001 08:05:56 +0100

mailx (1:8.1.1-10.3) unstable; urgency=low

* debian/rules: added install dependancy to binary-arch (Closes: Bug#83361).

-- Edward Betts <edward@debian.org> Sun, 28 Jan 2001 14:40:05 -0700

mailx (1:8.1.1-10.2) unstable; urgency=low

* debian/control: Standards-Version updated.
* debian/control: Build-Depends added.
* debian/control: Depends line fixed (Closes: Bug#41909).
* debian/rules: rewritten, still uses debhelper.
* Makefile: man pages moved to /usr/share/man (Closes: Bug#80758).
* applied patch from Martin Schulze (Closes: Bug#23356, Bug#13756).
* applied patch from Ulf Jaenicke-Roessler <ujr@physik.phy.tu-dresden.de>
  (Closes: Bug#26757, Bug#40424).
* misc/mail.help, USD.doc/mail[1568].nr: changed
references from
  /usr/spool/mail to /var/mail (Closes: Bug#41910).
* send.c: Comment out bcc code (Closes: Bug#75232).
* pathnames.h: Change default shell from /bin/csh to /bin/sh.
* pathnames.h: Change default pager from /bin/more to
  /usr/bin/pager (Closes: Bug#41228).
* pathnames.h: Change default editor from /bin/ex to /usr/bin/editor
  (Closes: Bug#66385).
* debian/rules: stop using dh_suidregister

-- Edward Betts <edward@debian.org> Sun, 14 Jan 2001 12:36:16 -0700

mailx (1:8.1.1-10.1.3) frozen unstable; urgency=high

* Fix the security fix: only accept a couple environment variables
  instead of blindly using them all

-- Wichert Akkerman <wakkerma@debian.org> Tue, 8 Aug 2000 11:42:02 -0700

mailx (1:8.1.1-10.1.2) frozen unstable; urgency=high

* Another security problem: refuse to get the interactive variable
  from the environment by explicitly setting it in the hashtable.

-- Wichert Akkerman <wakkerma@debian.org> Mon, 7 Aug 2000 12:36:10

-0700

mailx (1:8.1.1-10.1.1) frozen unstable; urgency=high

* NMU to fix RC bug. Now accepts both /var/mail and /var/spool/mail as
  allowed places for setgid file manipulation. fixes:#64238

-- Paul Slootman <paul@debian.org> Thu, 8 Jun 2000 19:51:14 +0200

mailx (1:8.1.1-10.1) stable frozen unstable; urgency=high

* Security fix for a GID=mail shell.

-- Daniel Jacobowitz <dan@debian.org> Sun, 4 Jun 2000 22:45:19 -0700

mailx (1:8.1.1-10) frozen unstable; urgency=high

* correct major security flaw, patch from Alvaro Martinez Echevarria
  <alvaro@lander.es>, bug#23880, bug#23901

* other potential buffer overflow, patch from Juan-Mariano de Goyeneche
  <jmseyas@selva.dit.upm.es>, bug #22937

-- Loic Prylli <Loic.Prylli@graville.fdn.fr> Sun, 28 Jun 1998 20:15:18 -0400

mailx (1:8.1.1-9) frozen unstable; urgency=high

* recompile without the signal handling workarounds (lo
  that eliminate critical bugs where message parts can be lost
  (#20798) and (#20558)

-- Loic Prylli <lprylli@graville.fdn.fr> Thu, 9 Apr 1998 02:11:26 +0200

mailx (1:8.1.1-8) frozen unstable; urgency=high

* previous patch broke most file accesses, corrected safe_open (#20634)
* try to check every access to Fopen, change "a" into "w" for new files,
  to suit behaviour of safe_open.

-- Loic Prylli <lprylli@graville.fdn.fr> Sat, 4 Apr 1998 22:01:19 +0200

mailx (1:8.1.1-7) frozen; urgency=medium

* security fix for tmp races patch from Martin Schulze (#20059)

-- Loic Prylli <lprylli@graville.fdn.fr> Mon, 23 Mar 1998 22:52:35 +0100

mailx (1:8.1.1-6) unstable; urgency=low

 * convert to debhelper
 * changelog now compressed (bug#15431)
 * removed .orig and .rej from source (bug#18409)

-- Loic Prylli <lprylli@graville.fdn.fr> Sat, 14 Feb 1998 14:34:22 +0100

mailx (1:8.1.1-5) unstable; urgency=low

 * apply David Brown patch so mailx choose the right window size
   (#12197)
 * correct Depends: in control file.

-- Loic Prylli <lprylli@graville.fdn.fr>
  Sat, 15 Nov 1997 00:30:38 +0100

mailx (1:8.1.1-4) unstable; urgency=high

 * mailx was sending empty message, ignoring user input
   add clearerr when EAGAIN occur in "IOSAFE" code (#14263)

-- Loic Prylli <lprylli@graville.fdn.fr> Tue, 11 Nov 1997 20:22:35 +0100

mailx (1:8.1.1-3.1) unstable; urgency=low

 * Non-maintainer release.
 * Libc6 compile. (#11705)
 * Install missing symlink to manpage. (#7274)

-- Martin Mitchell <martin@debian.org> Wed, 29 Oct 1997 04:34:39 +1100

mailx (1:8.1.1-3) unstable; urgency=low

 * add dpkg --assert-working-epoch in preinst bug#6850
 * add writing of pid in mailbox locking file
 * fix:mailx was not removing temporary lock files

-- Loic Prylli <lprylli@graville.fdn.fr> Sat, 1 Feb 1997 11:44:04 +0100

mailx (1:8.1.1-2) unstable; urgency=low

 * correct bug #2733 (occur when no space left) dans quit.c
 * detection of From_ lines with tring to match the date bug#2010
 * corrected garble output bug #2284

-- Loic

Prylli <lprylli@graville.fdn.fr> Sat, 28 Dec 1996 15:02:22 +0100

mailx (1:8.1.1-1) unstable; urgency=medium

 * recreate completely starting from OpenBSD mail version (we loose a lot
   of extension but we have a working program now)
 * OpenBSD base version is the last one in december 96
 * rechange the numbering of version, so epoch 1+8.1 is from 4.4BSD, the
   last upstream digit is to change each time we update to a new openbsd
   version.
 * fix the problem of longjmp inside signals inside stdio calls
 * reincorporate a patch to be dot file locking+setgid safe
 * some fix in signal handling

-- Loic Prylli <lprylli@graville.fdn.fr> Mon, 23 Dec 1996 01:57:44 +0100

Mon Apr 29 17:21:42 1996 Sven Rudolph <sr1@inf.tu-dresden.de>

 * releasing 8.5.5-1

 * added symlink /usr/bin/Mail -> /usr/bin/mailx

Thu Apr 25 23:55:36 1996 Sven Rudolph <sr1@inf.tu-dresden.de>

 * set version number to 8.5.5 because it has to superseed 8.1

 * switched back to mailx-5.5-kw (see mailx-5.5-kw.diff.README)

 * no POP support

mailx 8.1 Debian 5 - 10/19/95 Sven Rudolph <sr1@inf.tu-dresden.de>
* uses now BSD signal emulation (/usr/include/bsd/signal.h)
* added virtual package names in Depends: and Provides fields (Bug#1460)
* added Section: field
* created symlink for mailx manpage (Bug#1114)

mailx 8.1 Debian 4 - 5/20/95 Carl Streeter <streeter@cae.wisc.edu>
* Added diffs from Delman Lee <delman@mipg.upenn.edu>:

  Hi! I got mailx-8.1-3 from the Linux Debian distribution, and have
  added a "hold-pop" option to hold messages on the POP server after
  retrieving them. (Also fixed a minor bug with mailx thinking that there
  is mail even if the POP mailbox is empty. Code around stat() below.)

mailx 8.1 Debian 3 - 4/18/95 Carl Streeter <streeter@cae.wisc.edu>
* Fixed control file to depend on smail|sendmail. Updated to latest
 guidelines

bsd-mailx source: source-contains-cvs-control-dir
Source: bsd-mailx
Section: mail
Priority: standard
Maintainer: Ubuntu Developers <ubuntu-devel-discuss@lists.ubuntu.com>
XSBC-Original-Maintainer: Robert Luberda <robert@debian.org>
Standards-Version: 3.9.4
Build-Depends: debhelper (>= 9),
groff,
libbsd-dev (>= 0.3),
liblockfile-dev (>= 1.05)
Vcs-Git: git://anonscm.debian.org/users/robert/bsd-mailx.git
Vcs-Browser: http://anonscm.debian.org/gitweb/?p=users/robert/bsd-mailx.git

Package: bsd-mailx
Architecture: any
Depends: base-files (>= 2.2.0),
default-mta | mail-transport-agent,
${misc:Depends},
${shlibs:Depends}
Provides: mail-reader, mailx
Breaks: mailutils (<< 1:1.1+dfsg1-4), mailx (<< 1:20071201)
Replaces: mailx (<< 1:20071201)
Description: simple mail user agent
bsd-mailx is the traditional simple command-line-mode mail user agent.
Even if you don't use it, it may be required by other programs.
.
The /usr/bin/mail command provided by this package is a very
simple one,
and does not include many features that can be found in more advanced
mail user agents.
.
For example bsd-mailx DOES NOT support:
- MIME (i.e. no attachments, no UTF-8 or other charsets support);
- SMTP protocol (/usr/sbin/sendmail interface only is used);
- POP3/IMAP (bsd-mailx reads local mailboxes only);
- maildir format (traditional mbox only format is supported).
.
If the above features are needed, please consider installing another package
providing similar /usr/bin/mail interface:
- heirloom-mailx package,
- or mailutils package.

1.240 zstd 1.4.9

1.240.1 Available under license :

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1.254 gobject-introspection 1.66.1

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

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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
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1.261 tcpdump 4.99.0

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1.264 python 2.7.18

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
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Zope Corporation was a sponsoring member of the PSF.

All
Python releases are Open Source (see http://www.opensource.org for
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releases have also been GPL-compatible; the table below summarizes
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes

2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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

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

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

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

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

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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.

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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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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!

1.267 c-ares 1.16.1

1.267.1 Available under license :

c-ares license

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1.268 vim 8.2

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uganda.txt   For Vim version 8.2. Last change: 2019 Dec 07

VIM REFERENCE MANUAL   by Bram Moolenaar

uganda *Uganda* *copying* *copyright* *license*
SUMMARY
iccf *ICCF*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See |sponsor|. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see |manual-copyright|.

=== begin of license ===

VIM LICENSE

I) There are no restrictions on distributing unmodified copies of Vim except
  that they must include this license text. You can also distribute
  unmodified parts of Vim, likewise unrestricted except that they must
  include this license text. You
 are also allowed to include executables
  that you made from the unmodified Vim sources, plus your own usage
  examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim,
  including executables and/or source code, when the following four
  conditions are met:
  1) This license text must be included unmodified.
  2) The modified Vim must be distributed in one of the following five ways:
    a) If you make changes to Vim yourself, you must clearly describe in
  the distribution how to contact you. When the maintainer asks you
  (in any way) for a copy of the modified Vim you distributed, you
  must make your changes, including source code, available to the
  maintainer without fee. The maintainer reserves the right to
  include your changes in the official version of Vim. What the
  maintainer will do with your changes and under what license they
  will be distributed is negotiable. If there has been no negotiation

 then this license, or a later version, also applies to your changes.
  The current maintainer is Bram Moolenaar <Bram@vim.org>. If this
  changes it will be announced in appropriate places (most likely
  vim.sf.net, www.vim.org and/or comp.editors). When it is completely
  impossible to contact the maintainer, the obligation to send him
  your changes ceases. Once the maintainer has confirmed that he has
  received your changes they will not have to be sent again.
    b) If you have received a modified Vim that was distributed as
  mentioned under a) you are allowed to further distribute it
  unmodified, as mentioned at I). If you make additional changes the
  text under a) applies to those changes.
    c) Provide all the changes, including source code, with every copy of
  the modified Vim you distribute. This may be done in the form of a
  context diff. You can choose what license to use for new code you
  add. The changes and their license must not restrict

others from
making their own changes to the official version of Vim.
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under c), you can distribute it without the source code for the
changes if the following three conditions are met:
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permits the Vim maintainer to include the changes in the official
version of Vim without fee or restriction.
- You keep the changes for at least three years after last
distributing the corresponding modified Vim. When the maintainer
or someone who you distributed the modified Vim to asks you (in
any way) for the changes within this period, you must make them
available to him.
- You clearly describe in the distribution how to contact you. This
contact information must remain valid for at least three years
after last distributing the corresponding
modified Vim, or as long
as possible.
e) When the GNU General Public License (GPL) applies to the changes,
you can distribute the modified Vim under the GNU GPL version 2 or
any later version.
3) A message must be added, at least in the output of the ":version"
command and in the intro screen, such that the user of the modified Vim
is able to see that it was modified. When distributing as mentioned
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not conflict with the license used for the changes.
4) The contact information as required under 2)a) and 2)d) must not be
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III) If you distribute a modified version of Vim, you are encouraged to use
the Vim license for your changes and make them available to the
maintainer, including the source code. The preferred way to do this is
by e-mail or by uploading
the files to a server and e-mailing the URL.
If the number of changes is small (e.g., a modified Makefile) e-mailing a
context diff will do. The e-mail address to be used is
<maintainer@vim.org>

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license for previous Vim releases instead of the license that they came
with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this
 file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a
 |sponsor|. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible.
 A few minor changes have been made since he checked it, but that should not
 make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits
 further
 distribution to the GNU GPL. Also when you didn't actually change
 anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all
 further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and
 contact information with the "--with-modified-by" configure argument or the
 MODIFIED_BY define.

==
Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the
south of Uganda, near Tanzania, in East Africa. The area is known as Rakai
District. The population is mostly farmers. Although people are poor, there
is enough food. But this district is suffering from AIDS more than any other
part of the world. Some say that it started there. Estimations are that 10
to 30% of the Ugandans are infected with HIV. Because parents
 die, there are
many orphans. In this district about 60,000 children have lost one or both
parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy
with food, medical care and education. Food and medical care to keep them
healthy now, and education so that they can take care of themselves in the
future. KCC works on a Christian base, but help is given to children of any
religion.

The key to solving the problems in this area is education. This has been
neglected in the past years with president Idi Amin and the following civil
wars. Now that the government is stable again, the children and parents have
to learn how to take care of themselves and how to avoid infections. There is
also help for people who are ill and hungry, but the primary goal is to
prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

donate

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now

under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o.
box 1658
Masaka, Uganda, East Africa

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See |iccf| for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If
you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:

http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any
country, mostly from the post office. Use this name (which is
in my passport): "Abraham Moolenaar". Use Euro for the
currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form
that you can use for this. See "Others" below for the swift
code and IBAN number.
Any other method should work. Ask for information about
sponsorship.

Credit Card: You can use PayPal to send money with a Credit
card. This is
the most widely used Internet based payment system. It's
really simple to use. Use this link to find more info:
    https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q
The e-mail address for sending the money to is:
    Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is
preferred.

Others: Transfer to one of these accounts if possible:
    Postbank, account 4548774
  Swift code: INGB NL 2A
  IBAN: NL95 INGB 0004 5487 74
 under the name "stichting ICCF Holland", Lisse
    If that doesn't work:
    Rabobank Lisse, account 3765.05.117
  Swift code: RABO NL 2U
 under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
  Bram Moolenaar
  Finsterruetihof 1
  8134 Adliswil
  Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:noet:ft=help:norl:
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      Version 2.1, February 1999

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1.269 ppp 2.4.9

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1.270 syslog-ng 3.36.1

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====

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1.271 hwloc 1.11.13

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1.274 perl 5.32.1

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1.275 expat 2.2.10

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1.277 d-bus 1.12.20

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1.278 libgd 2.3.3

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1.279 xmlsec 1.2.31

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http://www.aleksey.com/pipermail/xmlsec/attachments/20030729/0e25648e/attachment.htm

* Cordys R&D BV
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* Cryptocom LTD
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1.280 e2fsprogs 1.46.1

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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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===
--- 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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    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 EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became

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

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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
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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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1.284 libcap 2.48

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NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M

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```
#!/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{|}~

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./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

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1.288 qemu 5.2.0

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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL
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{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___sysctl, "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR__umtx_op,
 "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\"", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
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{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap,
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{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(\"%s\",%#o,%#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, \"%s\",%#x,%#o)", NULL, NULL },
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{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d,
 %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
```

```
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)",
 NULL, NULL },
bsd_user_ss.add(files(
 'bsdload.c',
 'elfload.c',
 'main.c',
 'mmap.c',
 'signal.c',
 'strace.c',
 'syscall.c',
 'uaccess.c',
))
```

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==========
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and "Contributed-under" message.
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= Change Description / Commit Message / Patch Email =
==========

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== 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'.
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  example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
  'EDK II INF File Format'.

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==========
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==========

To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to
use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution
agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.0
The "TianoCore Contribution Agreement" is included below in
this document.
4. Submit your code to the TianoCore project using the process
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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.
```

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John R. Hauser
2018 January 20

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TARGET_ARCH=i386
TARGET_XML_FILES= gdb-xml/i386-32bit.xml
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1.289 pam 1.5.1

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1.290 net-snmp 5.8

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1.296 libsdl 2.0.14

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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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limitation in the term "modification".)

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

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

d) If a facility in the modified
Library refers to a function or a
table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that,

in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,
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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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this
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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
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

e) Verify that the user has already received a copy of these

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

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

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The test programs in this directory tree are for demonstrating and
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October 28, 1997
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Sam Lantinga (slouken@libsdl.org)

1.297 fuse 3.10.3

1.297.1 Available under license :

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

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

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

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

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

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

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

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

5. A program that contains no derivative of any portion of the
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1.300 memcached 1.6.6

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1.302 cmake 3.19.5

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CMAKE_INSTALL_DATADIR='share'
CMAKE_INSTALL_DATAROOTDIR='share'
CMAKE_INSTALL_DOCDIR='share/doc/UsrLocal'
CMAKE_INSTALL_INCLUDEDIR='include'
CMAKE_INSTALL_INFODIR='info'
CMAKE_INSTALL_LIBDIR='(lib|lib64)'
CMAKE_INSTALL_LIBEXECDIR='libexec'
CMAKE_INSTALL_LOCALEDIR='share/locale'
CMAKE_INSTALL_LOCALSTATEDIR='var'
CMAKE_INSTALL_RUNSTATEDIR='var/run'
CMAKE_INSTALL_MANDIR='man'

CMAKE_INSTALL_SBINDIR='sbin'
CMAKE_INSTALL_SHAREDSTATEDIR='com'
CMAKE_INSTALL_SYSCONFDIR='etc'
CMAKE_INSTALL_FULL_BINDIR='/usr/local/bin'
CMAKE_INSTALL_FULL_DATADIR='/usr/local/share'
CMAKE_INSTALL_FULL_DATAROOTDIR='/usr/local/share'
CMAKE_INSTALL_FULL_DOCDIR='/usr/local/share/doc/UsrLocal'
CMAKE_INSTALL_FULL_INCLUDEDIR='/usr/local/include'
CMAKE_INSTALL_FULL_INFODIR='/usr/local/info'
CMAKE_INSTALL_FULL_LIBDIR='/usr/local/(lib|lib64)'
CMAKE_INSTALL_FULL_LIBEXECDIR='/usr/local/libexec'
CMAKE_INSTALL_FULL_LOCALEDIR='/usr/local/share/locale'
CMAKE_INSTALL_FULL_LOCALSTATEDIR='/usr/local/var'
CMAKE_INSTALL_FULL_RUNSTATEDIR='/usr/local/var/run'
CMAKE_INSTALL_FULL_MANDIR='/usr/local/man'
CMAKE_INSTALL_FULL_SBINDIR='/usr/local/sbin'
CMAKE_INSTALL_FULL_SHAREDSTATEDIR='/usr/local/com'
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CMAKE_INSTALL_DATADIR='share'
CMAKE_INSTALL_DATAROOTDIR='share'
CMAKE_INSTALL_DOCDIR='share/doc/Usr'
CMAKE_INSTALL_INCLUDEDIR='include'
CMAKE_INSTALL_INFODIR='info'
CMAKE_INSTALL_LIBDIR='(lib|lib64|lib/arch)'
CMAKE_INSTALL_LIBEXECDIR='libexec'
CMAKE_INSTALL_LOCALEDIR='share/locale'
CMAKE_INSTALL_LOCALSTATEDIR='var'
CMAKE_INSTALL_RUNSTATEDIR='var/run'
CMAKE_INSTALL_MANDIR='man'
CMAKE_INSTALL_SBINDIR='sbin'
CMAKE_INSTALL_SHAREDSTATEDIR='com'
CMAKE_INSTALL_SYSCONFDIR='etc'
CMAKE_INSTALL_FULL_BINDIR='/usr/bin'
CMAKE_INSTALL_FULL_DATADIR='/usr/share'
CMAKE_INSTALL_FULL_DATAROOTDIR='/usr/share'
CMAKE_INSTALL_FULL_DOCDIR='/usr/share/doc/Usr'
CMAKE_INSTALL_FULL_INCLUDEDIR='/usr/include'
CMAKE_INSTALL_FULL_INFODIR='/usr/info'
CMAKE_INSTALL_FULL_LIBDIR='/usr/(lib|lib64|lib/arch)'
CMAKE_INSTALL_FULL_LIBEXECDIR='/usr/libexec'
CMAKE_INSTALL_FULL_LOCALEDIR='/usr/share/locale'
CMAKE_INSTALL_FULL_LOCALSTATEDIR='/var'
CMAKE_INSTALL_FULL_RUNSTATEDIR='/var/run'
CMAKE_INSTALL_FULL_MANDIR='/usr/man'
CMAKE_INSTALL_FULL_SBINDIR='/usr/sbin'
CMAKE_INSTALL_FULL_SHAREDSTATEDIR='/usr/com'
CMAKE_INSTALL_FULL_SYSCONFDIR='/etc'$
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hello world
merhaba dnya

4-Byte sequences:
 Perch (Fish) Elevator !
^CMAKE_INSTALL_BINDIR='bin'
CMAKE_INSTALL_DATADIR='share'
CMAKE_INSTALL_DATAROOTDIR='share'
CMAKE_INSTALL_DOCDIR='share/doc/Opt'
CMAKE_INSTALL_INCLUDEDIR='include'
CMAKE_INSTALL_INFODIR='info'
CMAKE_INSTALL_LIBDIR='(lib|lib64)'
CMAKE_INSTALL_LIBEXECDIR='libexec'
CMAKE_INSTALL_LOCALEDIR='share/locale'
CMAKE_INSTALL_LOCALSTATEDIR='var'
CMAKE_INSTALL_RUNSTATEDIR='var/run'
CMAKE_INSTALL_MANDIR='man'
CMAKE_INSTALL_SBINDIR='sbin'
CMAKE_INSTALL_SHAREDSTATEDIR='com'
CMAKE_INSTALL_SYSCONFDIR='etc'
CMAKE_INSTALL_FULL_BINDIR='/opt/Opt/bin'
CMAKE_INSTALL_FULL_DATADIR='/opt/Opt/share'
CMAKE_INSTALL_FULL_DATAROOTDIR='/opt/Opt/share'
CMAKE_INSTALL_FULL_DOCDIR='/opt/Opt/share/doc/Opt'
CMAKE_INSTALL_FULL_INCLUDEDIR='/opt/Opt/include'
CMAKE_INSTALL_FULL_INFODIR='/opt/Opt/info'
CMAKE_INSTALL_FULL_LIBDIR='/opt/Opt/(lib|lib64)'
CMAKE_INSTALL_FULL_LIBEXECDIR='/opt/Opt/libexec'
CMAKE_INSTALL_FULL_LOCALEDIR='/opt/Opt/share/locale'
CMAKE_INSTALL_FULL_LOCALSTATEDIR='/var/opt/Opt'
CMAKE_INSTALL_FULL_RUNSTATEDIR='/var/run/opt/Opt'
CMAKE_INSTALL_FULL_MANDIR='/opt/Opt/man'
CMAKE_INSTALL_FULL_SBINDIR='/opt/Opt/sbin'
CMAKE_INSTALL_FULL_SHAREDSTATEDIR='/opt/Opt/com'
CMAKE_INSTALL_FULL_SYSCONFDIR='/etc/opt/Opt'$

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==========

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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

^CMake Deprecation Warning at.*/Tests/RunCMake/message/message-all-loglevels\.cmake:2 \(message\):
 Deprecation warning
+
CMake Warning \(dev\) at.*/Tests/RunCMake/message/message-all-loglevels\.cmake:3 \(message\):
 Author warning message
This warning is for project developers\. Use -Wno-dev to suppress it\.
+
CMake Warning at.*/Tests/RunCMake/message/message-all-loglevels\.cmake:4 \(message\):
 Warning message
+
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CMAKE_INSTALL_DATADIR='usr/share'
CMAKE_INSTALL_DATAROOTDIR='usr/share'
CMAKE_INSTALL_DOCDIR='usr/share/doc/Root'
CMAKE_INSTALL_INCLUDEDIR='usr/include'
CMAKE_INSTALL_INFODIR='usr/info'
CMAKE_INSTALL_LIBDIR='usr/(lib|lib64)'
CMAKE_INSTALL_LIBEXECDIR='usr/libexec'
CMAKE_INSTALL_LOCALEDIR='usr/share/locale'
CMAKE_INSTALL_LOCALSTATEDIR='var'
CMAKE_INSTALL_RUNSTATEDIR='var/run'
CMAKE_INSTALL_MANDIR='usr/man'
CMAKE_INSTALL_SBINDIR='usr/sbin'
CMAKE_INSTALL_SHAREDSTATEDIR='usr/com'
CMAKE_INSTALL_SYSCONFDIR='etc'
CMAKE_INSTALL_FULL_BINDIR='/usr/bin'
CMAKE_INSTALL_FULL_DATADIR='/usr/share'
CMAKE_INSTALL_FULL_DATAROOTDIR='/usr/share'
CMAKE_INSTALL_FULL_DOCDIR='/usr/share/doc/Root'
CMAKE_INSTALL_FULL_INCLUDEDIR='/usr/include'
CMAKE_INSTALL_FULL_INFODIR='/usr/info'
CMAKE_INSTALL_FULL_LIBDIR='/usr/(lib|lib64)'
CMAKE_INSTALL_FULL_LIBEXECDIR='/usr/libexec'
CMAKE_INSTALL_FULL_LOCALEDIR='/usr/share/locale'
CMAKE_INSTALL_FULL_LOCALSTATEDIR='/var'
CMAKE_INSTALL_FULL_RUNSTATEDIR='/var/run'
CMAKE_INSTALL_FULL_MANDIR='/usr/man'
CMAKE_INSTALL_FULL_SBINDIR='/usr/sbin'

CMAKE_INSTALL_FULL_SHAREDSTATEDIR='/usr/com'
CMAKE_INSTALL_FULL_SYSCONFDIR='/etc'$
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*
/41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnet/network.cc
* /41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnet/tn3270.cc
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* from: @(#)ext.h 5.7 (Berkeley) 3/1/91
* $Id: ext.h,v 1.9 1999/12/12 14:59:44 dholland Exp $
*/

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*
/41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnet/main.cc
* /41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnet/terminal.cc
* /41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnet/commands.cc
* /41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnet/sys_bsd.cc

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* $Id: types.h,v 1.2 1996/07/27 00:45:54 dholland Exp $
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* /41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnet/types.h
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*
 /41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnet/authenc.cc
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* from: @(#)ring.h 5.2 (Berkeley) 3/1/91
* $Id: ring.h,v 1.13 1996/08/13 08:43:28 dholland Exp $
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 path(s):
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* from: @(#)defs.h 5.10 (Berkeley) 3/1/91
* $Id: defs.h,v 1.7 1999/08/02 03:14:03 dholland Exp $
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 in path(s):
* /41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnetd/defs.h
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* $Id: telnetd.h,v 1.2 1999/03/27 07:46:21 dholland Exp $
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* /41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnetd/telnetd.h
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* from: @(#)pathnames.h 5.5 (Berkeley) 6/28/90
* $Id: pathnames.h,v 1.3 1996/08/29 22:31:24 dholland Exp
 $
*/
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* /41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnetd/pathnames.h
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* /41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnetd/telnetd.8
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* from: @(#)externs.h 5.3 (Berkeley) 3/22/91
* $Id: externs.h,v 1.20 1999/08/19 09:34:15 dholland Exp $
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* $Id: fdset.h,v 1.1 1996/07/16 05:17:22 dholland Exp $
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* /41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnet/ptrarray.h
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* /41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnetd/slc.c
* /41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnetd/termstat.c
* /41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnetd/utility.c
* /41213dedaf242126b54a3ac51b905a351eb22b15-netkit-telnet-0-17-orig-1-tar-gz/netkit-telnet-0.17/telnetd/telnetd.c
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1.310 libjitterentropy 3.4.1

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1.312 psmisc 23.4

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1.314 dmalloc 5.5.2

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/* close the connection with the client */
close_connection();
}
...
}

Usually you would set the mark after the initializations and before each transaction is processed. Then for each transaction you can use `dmalloc_log_changed' to show the unfreed memory. *Note Extensions::.

7. You can also use the `dmalloc_log_stats' function to dump general information about the heap. Also, remember that you can use the `dmalloc_message' and `dmalloc_vmessage' routines to annotate the dmalloc logfile with details to help you debug memory problems. *Note Extensions::.

File: dmalloc.info, Node: Logfile Details, Next: Other Hints, Prev: Debugging A Server, Up: Programming

3.13 Explanation of the Logfile Output
======================================

Most of time you will be using the logfile output from library as the sole information source for diagnosing problems in and getting statistics for your program.

1098918225:
3: Dmalloc version 'Version 5.5.2'
1098918225: 3: flags = 0x4f4e503, logfile '/tmp/dmalloc.log'
1098918225: 3: interval = 500, addr = 0, seen # = 0, limit = 0
1098918225: 3: starting time = 1098918225
1098918225: 3: process pid = 32406

1098918226: 4: WARNING: tried to free(0) from foo.c:708'
1098918228: 20: *** free: at 'unknown' pnt '0xed310080|s2': \
size 12, alloced at 'bar.c:102'
1098918230: 50: ERROR: heap_check: free space was overwritten (err 67)
1098918230: 50: error details: checking free pointer
1098918230: 50: pointer '0x291c5' from 'unknown' prev access 'foo.c:787'

Here is a short example of some logfile information. Each of the lines are prefixed by the time (in epoch seconds since 1/1/1970) and the iteration or call count which is the number of times the library has been called from malloc, free, verify, etc.. In the above example, the first 5 log entries where written at epoch 1098918225 or `Wed Oct 27 19:03:45 2004 EST' and they were generated by the 3rd call to the library.

See the `settings.dist' file entries to tune what elements appear on each line: LOG_TIME_NUMBER, LOG_ITERATION, LOG_PID, etc.. You can convert the epoch seconds to a date from the command line with the following perl code: `perl -e 'print localtime($ARGV[0])."\n";' epoch-seconds-number'

The first 5 lines of the sample logfile contain header information for all logfiles. They show the version number and URL for the library as well as all of the settings that the library is currently using. These settings are tuned using the dmalloc utility program. *Note Dmalloc Program::. The 5th line of is the process-id that generated the logfile.

The 6th line in the above example is what causes the logfile to be opened and the header to be written. It is a warning that tells you that you tried to free a 0L pointer at a certain location. You can disable these warnings by setting `ALLOW_FREE_NULL_MESSAGE' to 0 in `settings.dist'.

Line 7 is an example of a transaction log that you get when you enable the `log-trans' debug token. *Note Debug Tokens::. This line shows that a call to free was made from an unknown location. It is unknown because the file in question did not include `dmalloc.h' to get file/line-number information. The call to free was freeing the pointer address `0xed310080' which we have "seen" 2 times (s2). We saw the pointer when it was allocated and then we are seeing it again when it was freed. Because the library is reusing pointers (reclaiming freed memory) the seen count helps to track how many times a pointer was used. The last part of the line shows that the pointer to be freed was allocated by `bar.c' line 102.

Lines 8-10 is the next problem that the library caught and this one is an error. It happened 5 seconds from the start of the log

(1098918230) and at the 50th call into the library. It shows that an allocation that had been freed then was overwritten. This may imply that someone tried to use memory after it was freed or that there was a loose pointer reference. The last two lines give more details about when the error was discovered, the address of the offending pointer, and when the pointer was previous accessed, in this case freed. To discover where this problem is happening, you can use a debugger. *Note Using With a Debugger::.

File: dmalloc.info, Node: Other Hints, Prev: Logfile Details, Up: Programming

3.14 Various Other Hints That May Help
==========

One of the problems that is often seen is that a program crashes in the `libc' memory code and you suspect a heap memory problem but both dmalloc and maybe valgrind don't show any problems. One of the big problems with debugging is that it is very difficult to do it without effecting how the program is run. Sometimes errors are due to subtle race conditions that are only seen when the program is running at full speed - not slowed down by debugging code.

This is especially true with threaded code which is often heavily affected when used with dmalloc and valgrind. Older versions of valgrid (maybe current) forced all threads into a single virtual system by design, which often masks reentrance bugs.

One way to work through these issues is to run with the library with very few debugging flags enabled. Many memory problems are fence-post areas so start with dmalloc checking just the fence post and error logging enabled:

dmalloc -d 0 -l dmalloc.log -p log-stats -p log-non-free -p check-fence -p check-funcs

This enabled a small number of checks and should cause your program to run at close to full speed. The library has never been optimized for speed so some performance penalties will be felt.

File: dmalloc.info, Node: Dmalloc Program, Next: Source Code, Prev: Programming, Up: Top

4 Dmalloc Utility Program
****

The dmalloc program is designed to assist in the setting of the

environment variable `DMALLOC_OPTIONS'. *Note Environment Variable::.
It is designed to print
 the shell commands necessary to make the
appropriate changes to the environment. Unfortunately, it cannot make
the changes on its own so the output from dmalloc should be sent
through the `eval' shell command which will do the commands.

* Menu:

* Shell Alias:: Using a shell alias with the utility.
* Utility Usage:: How to use the dmalloc program.
* Environment Variable:: Environment variable name and features.
* Debug Tokens:: Description of the debugging tokens.
* RC File:: Format of the runtime configuration file.

File: dmalloc.info, Node: Shell Alias, Next: Utility Usage, Prev: Dmalloc Program, Up: Dmalloc Program

4.1 Using a Shell Alias with the Utility
==

The dmalloc program is designed to assist in the setting of the
environment variable `DMALLOC_OPTIONS'. *Note Environment Variable::.
It is designed to print the shell commands necessary to make the
appropriate
 changes to the environment. Unfortunately, it cannot make
the changes on its own so the output from dmalloc should be sent
through the `eval' shell command which will do the commands.

With shells that have aliasing or macro capabilities: csh, bash, ksh,
tcsh, zsh, etc., setting up an alias to dmalloc to do the eval call is
recommended. Bash, ksh, and zsh users should add the following to their
`.bashrc', `.profile', or `.zshrc' file respectively (notice the `-b'
option for bourne shell output):

```
function dmalloc { eval `command dmalloc -b $*`; }
```

If your shell does not support the `command' function then try:

```
function dmalloc { eval `\dmalloc -b $*`; }
```
or
```
function dmalloc { eval `/usr/local/bin/dmalloc -b $*`; }
```

If you are _still_ using csh or tcsh, you should add the following
to your `.cshrc' file (notice the `-C' option for c-shell output):

```
alias dmalloc 'eval `\dmalloc -C \!*`'
```

This allows the user to execute the dmalloc command as `dmalloc
arguments'.

Users of versions
of the Bourne shell (usually known as /bin/sh) that
don't have command functions will need to send the output to a temporary
file and the read it back in with the "." command:

```
$  dmalloc -b arguments ... > /tmp/out
$  . /tmp/out
```

By the way, if you are looking for a shell, I heartily recommend
trying out zsh. It is a bourne shell written from scratch with much
the same features as tcsh without the csh crap.

NOTE: After you add the alias to the file you need to log out and
log back in to have it take effect, or you can execute the above
appropriate command on the command line. If you enter `dmalloc
runtime' and see any output with DMALLOC_OPTIONS in it then the alias
did not work.

File: dmalloc.info, Node: Utility Usage, Next: Environment Variable, Prev: Shell Alias, Up: Dmalloc Program

4.2 How to Use the Dmalloc Program
==================================

The most basic usage for the program is `dmalloc [-bC] tag'.  The `-b'
or `-C' (either but not both flags used at a time)
are for generating
Bourne or C shell type commands respectively. dmalloc will try and use
the `SHELL' environment variable to determine whether bourne or C shell
commands should be generated but you may want to explicitly specify the
correct flag.

The `tag' argument to dmalloc should match a line from the user's
runtime configuration file or should be one of the built-in tags.
*Note RC File::. If no tag is specified and no other option-commands
used, dmalloc will display the current settings of the environment
variable. It is useful to specify one of the verbose options when doing
this.

To find out the usage for the debug malloc program try `dmalloc
--usage-long'. The standardized usage message that will be displayed is
one of the many features of the argv library included with this package.

It is available on the web at URL `http://256.com/sources/argv/'.
See the documentation there for more information.

Here is a detailed list of the flags that can passed to dmalloc:

`-a
address'
Set the `addr' part of the `DMALLOC_OPTIONS' variable to address
(or alternatively address:number).

`-b'
Output Bourne shell type commands. Usually handled automagically.

`-C'
Output C shell type commands. Usually handled automagically.

`-c'
Clear/unset all of the settings not specified with other
arguments. You can do this automatically when you set to a new
tag with the `-r' option.

NOTE: clear will never unset the `debug' setting. Use `-d 0' or
a tag to `none' to achieve this.

`-d bitmask'
Set the `debug' part of the `DMALLOC_OPTIONS' env variable to the
bitmask value which should be in hex. This is overridden (and
unnecessary) if a tag is specified.

`-D'
List all of the debug-tokens. Useful for finding a token to be
used with the `-p' or `-m' options. Use with `-v' or `-V' verbose
options.

`-e errno'
Print the dmalloc error string that corresponds to the error number
errno.

`-f filename'
Use this configuration file instead of the RC file
`$HOME/.dmallocrc'.

`-g'
Output
gdb type commands for using inside of the gdb debugger.

`-h (or --help)'
Output a help message for the utility.

`-i number'

Set the checking interval to number. If the `check-heap' token is enabled, this causes the library to only check the heap every Nth time which can _significantly_ increase the running speed of your program. If a problem is found, however, this limits your ability to determine when the problem occurred. Try values of 50 or 100 initially.

`-k'
Do not reset all of the settings when a tag is specified. This specifically overrides the `-r' option and is provided here to override `-r' if it has been added to the dmalloc alias.

`-l filename'
Write the debugging output and other log-file information to the filename. Filename can include some of the following patterns which get expanded into strings:

`%h'
Gets expanded into the hostname if the `gethostname()' function is available.

`%i'
Gets expanded into the thread-id if the library has been configure
to be used with threads. *Note Using With Threads::. See the end of the `settings.dist' file for settings which return the thread-id and convert it into a string.

`%p'
Gets expanded into the process-id if the `getpid()' function is available.

`%t'
Gets expanded into the time value in seconds if the `time()' function is available.

`%u'
Gets expanded into the user-id number if the `getuid()' function is available.

Some examples:

logfile produced with pid extension:
logfile.8412 or logfile.31451
dmalloc -l logfile.%p

hostname and time extensions:
dmalloc-box1.foo.com-1055213240
dmalloc -l dmalloc-%h-%t

if threads enabled, have thread-id extension: log.thread32
dmalloc -l log.thread%i

`-L'
Write the debug-value into the environment not in hex but by
individual debug-tokens in long form.

`-m token(s)'
Remove (minus) the debug capabilities of token(s) from the current
debug setting or from the selected tag (or `-d' value). Multiple
`-m' options can be specified.

`-M
 limit'
Set the memory allocation limit which will abort the program if the
total memory allocations exceed this number of bytes. The limit
can be a number with a k, m, or g at the end to indicate kilobyte,
megabyte, and gigabyte respectively. Ex: 100k, 200m, 1g. If the
limit is exceeded, this will generate an `ERROR_OVER_LIMIT' error.
*Note Error Codes::.

`-n'
Without changing the environment, output the commands resulting
from the supplied options.

`-o times'
Set the "lock-on" period which dictates to the threaded version of
the library to not initialize or lock the mutex lock around the
library until after a certain number of allocation calls have been
made. Some number between 2 and 30 is probably good. See the
"Using With Threads" section for more information about the
operation of the library with threads. *Note Using With Threads::.

`-p token(s)'
Add (plus) the debug capabilities of token(s) to the current debug
setting or to the selected tag (or `-d' value).
  Multiple `-p'
options can be specified.

`-r'
Remove (unset) all settings when using a tag. This is useful when
you are returning to a standard development tag and want the
logfile, address, and interval settings to be cleared
automatically. If you want this behavior by default, this can be

put into the dmalloc alias.

`-R'
Output rc shell type commands. This is not for the runtime configuration file but for the rc shell program.

`-s file:line'
Set the `start' part of the `DMALLOC_OPTIONS' env variable to a file-name and line-number location in the source where the library should begin more extensive heap checking. The file and line numbers for heap transactions must be working for this option to be obeyed. This is used if you are trying to locate a problem and you want the extensive checking to not happen initially because it's too slow.

`-S number'
Set the `start' part of the `DMALLOC_OPTIONS' env variable to an dmalloc mark number. The library will begin more extensive heap checking
after this number of memory transactions. If you `LOG_ITERATION' enabled in your `settings.h' file then the entries in the log file will be prepended with the number of memory transactions that the library has handled so far. This number can be used to delay the start of the fine grained heap checking which can be very slow.

`--start-size size'
Set the `start' part of the `DMALLOC_OPTIONS' env variable to a number of bytes. The library will begin more extensive heap checking after this amount of memory has been allocated by the library. This allows you to start the slow and detailed checking of the library later in the program execution. You can use patterns like 250m, 1g, or 102k to mean 250 megabytes, 1 gigabyte, and 102 kilobytes respectively.

`-t'
List all of the tags in the rc-file. Use with `-v' or `-V' verbose options.

`-u (or --usage)'
Output the usage information for the utility.

`-v'
Give verbose output. Especially useful when dumping current settings
or listing all of the tags.

`-V'

Give very verbose output for outputting even more details about
settings.

`--version'
Output the version string for the utility. _Please note_ that the
version of the library that is installed or has been linked into
your application may be different from the utility version.

If no arguments are specified, dmalloc dumps out the current settings
that you have for the environment variable. For example:

```
Debug-Flags  '0x40005c7' (runtime)
Address      0x1f008, count = 3
Interval     100
Logpath      'malloc'
Start-File   not-set
```

With a -v option and no arguments, dmalloc dumps out the current
settings in a verbose manner. For example:

```
Debug-Flags  '0x40005c7' (runtime)
log-stats, log-non-free, log-bad-space, check-fence, catch-null
Address      0x1f008, count = 10
Interval     100
Logpath      'malloc'
Start-File   not-set
```

Here are some examples of dmalloc usage:

```
# start tough debugging, check the heap every 100 times,
# send the log information
 to file 'logfile'
dmalloc high -i 100 -l logfile

# find out what error code 20 is (from the logfile)
dmalloc -e 20

# cause the library to halt itself when it sees the address 0x34238
# for the 6th time.
dmalloc -a 0x34238:6

# send the log information to file 'logfile' with the time in seconds
# as an extension.
dmalloc -l logfile.%t

# return to the normal 'runtime' settings and clear out all
# other settings
```

```
dmalloc -c runtime

# enable basic 'low' settings plus (-p) the logging of
# transactions (log-trans) to file 'logfile'
dmalloc low -p log-trans -l logfile

# print out the current settings with Very-verbose output
dmalloc -V

# list the available debug malloc tokens with Very-verbose output
dmalloc -DV

# list the available tags from the rc file with verbose output
dmalloc -tv
```

File: dmalloc.info, Node: Environment Variable, Next: Debug Tokens, Prev: Utility Usage, Up: Dmalloc Program

4.3 Environment Variable Name and Features

An "environment variable" is a variable that is part of the user's working environment and is shared by all the programs. The `DMALLOC_OPTIONS' variable is used by the dmalloc library to enable or disable the memory debugging features, at runtime. _NOTE:_ you can also use the `dmalloc_debug_setup' function to set the option string. It can be set either by hand or with the help of the dmalloc program. *Note Dmalloc Program::.

To set it by hand, Bourne shell (sh, bash, ksh, or zsh) users should use:

```
DMALLOC_OPTIONS=value
export DMALLOC_OPTIONS
```

C shell (csh or tcsh) users need to invoke:

```
setenv DMALLOC_OPTIONS value
```

The value in the above examples is a comma separated list of tokens each having a corresponding value. The tokens are described below:

`debug'
This should be set to a value in hexadecimal which corresponds to the functionality token values added together. *Note Debug Tokens::. For instance, if the user wanted to enable the logging of memory transactions (value `0x008')

and wanted to check
fence-post memory (value `0x400') then `debug' should be set to
`0x408' (`0x008' + `0x400').

NOTE: You don't have to worry about remembering all the hex
values of the tokens because the dmalloc program automates the
setting of this variable especially.

NOTE: You can also specify the debug tokens directly, separated
by commas. *Note Debug Tokens::. If `debug' and the tokens are
both used, the token values will be added to the debug value.

`lockon'
Set this to a number which is the "lock-on" period. This dictates
to the threaded version of the library to not initialize or lock
the mutex lock around the library until after a certain number of
allocation calls have been made. See the "Using With Threads"
section for more information about the operation of the library
with threads. *Note Using With Threads::.

`log'
Set this to a filename so that if `debug' has logging enabled, the
library can log transactions, administration information, and/or
errors to
the file so memory problems and usage can be tracked.

To get different logfiles for different processes, you can assign
`log' to a string with `%d' in it (for instance `logfile.%d').
This will be replaced with the pid of the running process (for
instance `logfile.2451').

WARNING: it is easy to core dump any program with dmalloc, if
you send in a format with arguments other than the one `%d'.

`addr'
When this is set to a hex address (taken from the dmalloc log-file
for instance) dmalloc will abort when it finds itself either
allocating or freeing that address.

The address can also have an `:number' argument. For instance, if
it was set it to `0x3e45:10', the library will kill itself the 10th
time it sees address `0x3e45'. By setting the number argument to
0, the program will never stop when it sees the address. This is
useful for logging all activity on the address and makes it easier
to track down specific addresses not being freed.

This works well in conjunction with the `STORE_SEEN_COUNT'

option.
*Note Memory Leaks::.

NOTE: dmalloc will also log all activity on this address along
with a count.

`inter'
By setting this to a number X, dmalloc will only check the heap
every X times. This means a number of debugging features can be
enabled while still running the program within a finite amount of
time.

A setting of `100' works well with reasonably memory intensive
programs. This of course means that the library will not catch
errors exactly when they happen but possibly 100 library calls
later.

`start'
Set this to a number X and dmalloc will begin checking the heap
after X times. This means the intensive debugging can be started
after a certain point in a program.

`start' also has the format `file:line'. For instance, if it is
set to `dmalloc_t.c:126' dmalloc will start checking the heap
after it sees a dmalloc call from the `dmalloc_t.c' file, line
number 126. If you use `dmalloc_t.c:0', with a 0 line number, then
dmalloc will start checking the
 heap after it sees a call from
anywhere in the `dmalloc_t.c' file.

This allows the intensive debugging to be started after a certain
routine or file has been reached in the program.

Some examples are:

```
# turn on transaction and stats logging and set
# 'logfile' as the log-file
setenv DMALLOC_OPTIONS log-trans,log-stats,log=logfile

# enable debug flags 0x1f as well as heap-checking and
# set the interval to be 100
setenv DMALLOC_OPTIONS debug=0x1f,check-heap,inter=100

# enable 'logfile' as the log-file, watch for
# address '0x1234', and start checking when we see
# file.c line 123
setenv DMALLOC_OPTIONS log=logfile,addr=0x1234,start=file.c:123
```

4.4 Description of the Debugging Tokens

The below tokens and their corresponding descriptions are for the
setting of the debug library setting in the environment variable.
*Note Environment Variable::.
 They should be specified in the user's
`.dmallocrc' file. *Note RC File::.

Each token, when specified, enables a specific debugging feature.
For instance, if you have the `log-stats' token enabled, the library
will log general statistics to the logfile.

To get this information on the fly, use `dmalloc -DV'. This will
print out the Debug tokens in Very-verbose mode. *Note Dmalloc
Program::.

`none'
No debugging functionality

`log-stats'
Log general statistics when dmalloc_shutdown or dmalloc_log_stats
is called.

`log-non-free'
Log non-freed memory pointers when dmalloc_shutdown or
dmalloc_log_unfreed is called.

`log-known'
Log only known memory pointers that have not been freed. Pointers
which do not have file/line or return-address information will not
be logged.

`log-trans'
Log general memory transactions (quite verbose).

`log-admin'
Log administrative information (quite verbose).

`log-bad-space'
Log actual bytes in and around bad pointers.

`log-nonfree-space'
Log

actual bytes in non-freed pointers.

`log-elapsed-time'
Log elapsed-time for allocated pointers (see `conf.h').

`log-current-time'
Log current-time for allocated pointers (see `conf.h').

`check-fence'
Check fence-post memory areas.

`check-heap'
Verify heap administrative structure.

`check-blank'
Check to see if space that was blanked when a pointer was
allocated or when it was freed has been overwritten. If this is
enabled then it will enable `free-blank' and `alloc-blank'
automatically.

`check-funcs'
Check the arguments of some functions (mostly string operations)
looking for bad pointers.

`check-shutdown'
Check all of the pointers in the heap when the program exits.

`catch-signals'
Shutdown the library automatically on SIGHUP, SIGINT, or SIGTERM.
This will cause the library to dump its statistics (if requested)
when you press control-c on the program (for example).

`realloc-copy'
Always copy data to a new pointer when realloc.

`free-blank'
Write special "dmalloc-free" byte
(hexadecimal `0xdf', octal
`0337', decimal `223') into space when it is freed. You can set
this to be something else in the `settings.dist' file. This
ensures that your program is not using memory after it has been
freed. You can check to see if areas have been improperly
overwritten with the `check-blank' token. If the free space has
been overwritten, then `ERROR_FREE_OVERWRITTEN' is triggered.
*Note Error Codes::.

`error-abort'
Abort the program (and dump core) on errors. See `error-dump'

below. *Note Dumping Core::.

`alloc-blank'
Write special "dmalloc-alloc" byte (hexadecimal `0xda', octal
`0332', decimal `218') into space when it is allocated. You can
set this to be something else in the `settings.dist' file. If you
are not using `calloc' this will overwrite the user space with the
special bytes ensuring that your program is initializing its
dynamic memory appropriately. Also, if you ask for 35 bytes and
the library has to give you a block of 64 because of rounding
issues,
 it will overwrite the extra memory with the special byte.
You can then check to see if the extra areas have been improperly
overwritten by enabling the `check-blank' token.

`print-messages'
Log any errors and messages to the screen via standard-error.

`catch-null'
Abort the program immediately if the library fails to get more heap
space from the heap allocation routine `mmap' or `sbrk'.

`never-reuse'
Have the heap never use space that has been used before and freed.
*Note Memory Leaks::. _WARNING_: This should be used with caution
since you may run out of heap space.

`error-dump'
Dump core on error and then continue. Later core dumps overwrite
earlier ones if the program encounters more than one error. See
`error-abort' above. *Note Dumping Core::.

NOTE: This will only work if your system supports the `fork'
system call and the configuration utility was able to fork without
going recursive.

`error-free-null'
By default the library will not generate an error when a program
tries
 to free a NULL pointer. By enabling this token, you can
change this behavior so an error is reported. See also the
ALLOW_FREE_NULL and ALLOW_FREE_NULL_MESSAGE settings in the
`settings.h' file to change the default behavior.

File: dmalloc.info, Node: RC File, Prev: Debug Tokens, Up: Dmalloc Program

4.5 Format of the Runtime Configuration File
==========

By using a "RC File" (or runtime configuration file) you can alias tags
to combinations of debug tokens. *Note Debug Tokens::.

NOTE: For beginning users, the dmalloc program has a couple of
tags built into it so it is not necessary for you to setup a RC file:

`runtime'
Enables basic runtime tests including fence-post checking, null
handling, and logging of any errors.

`low'
Runtime settings plus minimal checking of heap structures and
overwriting of allocated and freed space.

`medium'
Low settings plus checking of all heap structures on each memory
call, always relocates block
 on realloc, and aborts on errors.
You may want to use `-i' option to the dmalloc utility. *Note
Dmalloc Program::.

`high'
Medium settings plus checking of overwritten freed and allocated
memory and checking of arguments to a number of common functions.
You may want to use `-i' option to the dmalloc utility. *Note
Dmalloc Program::.

For expert users, a sample `dmallocrc' file has been provided but
you are encouraged to roll your own combinations. The name of default
rc-file is `$HOME/.dmallocrc'.  The `$HOME' environment variable should
be set by the system to point to your home-directory.

The file should contain lines in the general form of:

tag   token1, token2, ...

`tag' is to be matched with the tag argument passed to the dmalloc
program, while `token1, token2, ...' are debug capability tokens.
*Note Dmalloc Program::, *Note Debug Tokens::.

A line can be finished with a `\' meaning it continues onto the next
line. Lines beginning with `#' are treated as comments and
 are ignored
along with empty lines.

Here is an example of a `.dmallocrc' file:

```
#
# Dmalloc runtime configuration file for the debug malloc library
#

# no debugging
none    none

# basic debugging
debug1  log-stats, log-non-free, check-fence

# more logging and some heap checking
debug2  log-stats, log-non-free, log-trans, \
check-fence, check-heap, error-abort

# good utilities
debug3  log-stats, log-non-free, log-trans, \
log-admin, check-fence, check-heap, realloc-copy, \
free-blank, error-abort

...
```

For example, with the above file installed, you can type `dmalloc debug1' after setting up your shell alias. *Note Dmalloc Program::. This enables the logging of statistics, the logging of non-freed memory, and the checking of fence-post memory areas.

Enter `dmalloc none' to disable all memory debugging features.

File: dmalloc.info, Node: Source Code, Next: Troubleshooting, Prev: Dmalloc Program, Up: Top

5 Information on the Source Code

****

* Menu:

*
 Definitions:: Definition of terms and other information.
* Compatibility:: General compatibility concerns.
* Portability:: Issues important for porting the library.

File: dmalloc.info, Node: Definitions, Next: Compatibility, Prev: Source Code, Up: Source Code

5.1 Definition of Terms and other Information

==========

Here are a couple definitions and other information for those interested
in "picking the brain" of the library. The code is a little ugly here
and there and it conforms to the Gray-Watson handbook of coding
standards only.

"bblock"
basic block containing 2 ^ BASIC_BLOCK bytes of info

"bblock_adm"
administration for a set of basic blocks

"dblock"
divided block containing some base 2 number of blocks smaller than
a basic block.

"dblock_adm"
administration for a set of divided blocks

"chunk"
some anonymous amount of memory

For more information about administration structures,
 see the code
and comments from `chunk_loc.h'.

File: dmalloc.info, Node: Compatibility, Next: Portability, Prev: Definitions, Up: Source Code

5.2 General Compatibility Concerns
==========

* Realloc() backwards compatibility with being able to realloc from
the last freed block is _not_ supported. The author is interested
to know who is using this (cough, cough) feature and for what
reason.

* Realloc() of a NULL pointer is supported in which case the library
will just make a call to malloc(). This can be disabled with the
help of the `ALLOW_REALLOC_NULL' manual compilation option in the
`settings.h' file to adjust the library's default behavior.

* Some systems allow free(0) to not be an error for some reason.
Since 0 is not a valid address returned by the malloc call, it is
debatable that this should be allowed. See `settings.h' for the
`ALLOW_FREE_NULL' manual compilation option to adjust the
library's default behavior.

* Aside from possibly being slower
 than the system's memory
allocation functions, the library should be fully compatible with
the standard memory routines. If this is _not_ the case, please
bring this to my attention.

File: dmalloc.info, Node: Portability, Prev: Compatibility, Up: Source Code

5.3 Issues Important for Porting the Library
==========

General portability issues center around:

* mmap, sbrk, or compatible function usages. The library does
support a preallocated memory chunk heap. See the
`INTERNAL_MEMORY_SPACE' define in the `settings.dist' file.

* The locating of the caller's address from the dmalloc functions.
This is useful in locating problems from dmalloc functions called
from C files which did not include `dmalloc.h': C library calls for
instance.

See `return.h' for the available architecture/compiler
combinations. You may want to examine the assembly code from gcc
(GNUs superior c-compiler) version 2+ being run on the following
code. It should give
 you a good start on building a hack for your
box.

```
static char * x;

a()
{
x = __builtin_return_address(0);
}

main()
{
a();
}
```

---

6 Some Solutions to Common Problems

****

This section provides some answers to some common problems and questions. Please send me mail with any additions to this list - either problems you are still having or tips that you would like to pass on.

When diagnosing a problem, if possible, always make sure you are running the most up to date version of Dmalloc available from the home page at URL `http://dmalloc.com/'. Problems are often fixed and a new release can be published before people encounter them.

`Why does my program run so slow?'
This library has never been (and maybe never will be) optimized for space nor speed. Some of its features make it unable to use some of the organizational methods of other more efficient heap libraries.

If you
have the `check-heap' token enabled, your program might run slow or seem to hang. This is because by default, the library will run a full check of the heap with every memory allocation or free. You can have the library check itself less frequently by using the `-i' option to the dmalloc utility. *Note Dmalloc Program::. If you are using the `high' token and you need your program to run faster, try the `medium' or `low' tokens which don't check as many heap features and so run faster although they will not catch as many problems. *Note RC File::.

`Why was a log-file not produced after I ran my program?'
This could be caused by a number of different problems.

1. Are you sure you followed all of the items in the "Getting Started" section? Please review them if there is any doubt. *Note Getting Started::.

2. Use the `env' or `printenv' commands to make sure that the `DMALLOC_OPTIONS' variable is set in your exported environment. *Note Environment Variable::.

3. Make sure that your
program has been compiled correctly with
the dmalloc library. The `ident' program should show chunk.c and other dmalloc files compiled into your program. You can also do `strings -a your-program | grep chunk.c' and look for something like `$Id: chunk.c,v 1.152 1999/08/25 12:37:01 gray Exp $' with different versions and date information. If this doesn't show up then chances are dmalloc was not linked into

your program.

4. If your program changes its working directory, it may write the dmalloc log-file somewhere else in the filesystem. You will need to check both where the program was started and to where it might change directory.

5. The logfile is only produced when `dmalloc_shutdown()' is called. By default it will be called when `exit()' gets called. If you are running your program and press `Control-C' under Unix the program will stop immediately and `dmalloc_shutdown()' will not get called. You can either setup a signal handler for `SIGINTR' and call exit yourself, or
you can enable the `catch-signals' token. *Note Debug Tokens::.

6. If your program is segfaulting or otherwise crashing when it exits, the `exit()' routine may not being called. You will have to resolve these issues so the dmalloc library can gracefully exit and write its log file.

7. You may want to call `dmalloc_log_stats()' and `dmalloc_log_unfreed()' (or `dmalloc_log_changed()') directly to have the library write its log file. Some system modules may not have shutdown if you call this before `exit()' so extra unfreed memory may be reported.

`I don't see any information about my non-freed (leaked) memory?'
The library will not (by default) report on "unknown" non-freed memory. Unknown means memory that does not have associated file and line information.

This will be necessary if you are _not_ including `dmalloc.h' in all of your C files or if you are interested in tracking leaks in system functions.

`Dmalloc is returning the error "malloc library has gone recursive"'
This
most likely indicates that you are using the Dmalloc library within a threaded application and two threads are trying to use the dmalloc library at once. Please see the section of the manual about threads for more information about properly configuring the library. *Note Using With Threads::.

If you are not using threads, then your program could have caught a signal while within Dmalloc, which then in turn called a memory

allocation routine. It is unwise to allocate memory on the heap in most signal handlers. Lastly, some functions called by the library may call memory routines that it does not anticipate. If you think this the case, please report the problem and include a stack trace, operating system version/type, and the version of Dmalloc you are using.

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* /dmalloc-5-5-2-tgz/dmalloc-5.5.2/INSTALL
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/arg_check.c/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/arg_check.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/chunk.c/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/chunk.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/chunk_loc.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/compat.c/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/compat.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/conf.h.in/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/configure.ac#
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/contrib/atexit.c/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-
5.5.2/contrib/dmalloc_summarize.pl#!/usr/bin/perl5
 -w
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-
5.5.2/contrib/ra_info.pl#!/usr/bin/perl
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/debug_tok.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc.c/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc.h.1/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc.spec#
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc_argv.c/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc_argv.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc_argv_loc.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc_fc_t.c/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc_loc.h/*
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/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc_rand.h/*
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/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc_tab.c/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc_tab.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc_tab_loc.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmallocc.cc/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-
5.5.2/docs/dmalloc.html<!DOCTYPE

html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html401/loose.dtd">
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/docs/dmalloc.texi\input
texinfo @c -*-texinfo-*-
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/env.c/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/env.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/error.c/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/error.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/error_val.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/heap.c/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/heap.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/malloc.c/*
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/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/settings.dist/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/version.h/*

Found
in path(s):
*

1.315 libcheck 0.15.2

1.315.1 Available under license :

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1.317 mpclib 1.2.1

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1.319 pkg-config 0.29.2

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1.329 pyasn1 0.4.8

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Metadata-Version: 1.2
Name: pyasn1

Version: 0.4.8
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: Ilya Etingof <etingof@gmail.com>
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Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience :: Telecommunications Industry
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Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.4
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* /pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/PKG-INFO
* /pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1.egg-info/PKG-INFO
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1.330 readable-stream 1.1.14

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1.344 createrepo-c 0.17.0

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* [Fernando Montoya](https://github.com/montogeek) - Use separate lodash functions instead of the core package. Faster to install this way.

* [Jonathan Felchlin](https://github.com/GreenGremlin) - Smart merging for loaders.
* [David Gmez](https://github.com/davegomez) - Performance and cosmetic improvements.
* [siready](https://github.com/siready) - Extend `merge.smart` to support `include/exclude`.
* [C.J. Winslow](https://github.com/Whoaa512) - Make `merge.smart` `include/exclude` to work correctly with `loader`.
* [Artem Zakharchenko](https://github.com/blackrabbit99) - Fix `merge.smart` duplication so that if `include` exists, it will merge.
* [Matt Shwery](https://github.com/mshwery) - If `exclude` is the same while using `merge.smart`, merge `loaders`.
* [Lucretiel](https://github.com/Lucretiel) - Added a more generic test to describe merge behavior better.
* [Christian Hoffmeister](https://github.com/choffmeister) - Fix `merge.smart` behavior so that it checks against full loader names instead of just the first letter.
* [Ken Powers](https://github.com/knpwrs) - Changed Travis icon to use SVG (scales better).
* [Kyle Herock](https://github.com/rockmacaca) - Improved webpack 2 support, avoided concatenating loaders if the first matching entry's include/exclude doesn't match. #41
* [Steven Haddix](https://github.com/steven-haddix) - Clarify description. #42
* [Artem Sapegin](https://github.com/sapegin) - Tweaked customizeArray/customizeObject example. #60
* [Dan Kirkham](https://github.com/herecydev) - `merge.multiple`. #74
* [Ahmed Elmehri](https://github.com/ahmehri) - Add `customizeArray` and `customizeObject` examples. #93
* [Flvio](https://github.com/flaviorocks) - Maintenance - Update lodash, #97, #98
* [Amy Lynn](https://github.com/Amy-Lynn) - Smart merge should maintain existing loader order. #79, #101
* [Daniel Ruf](https://github.com/DanielRuf) - Remove bitHound from the README as it closed down. #102
* [Adrien Harnay](https://github.com/adrienharnay)
 - Update README to comply with webpack API. #108
* [Pawe Lula](https://github.com/desfero) - Support `oneOf` at `merge.smart`. #111

1.352 source-map-resolve 0.5.3

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1.368 balanced-match 1.0.0

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1.369 regenerate 1.4.0

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1.370 parallel-transform 1.1.0

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1.371 workbox-navigation-preload 4.3.1

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1.372 arr-diff 4.0.0

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1.403 console-control-strings 1.1.0

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1.407 mamacro 0.0.3

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1.409 deepmerge 4.2.2

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1.410 asap 2.0.6

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1.424 to-fast-properties 2.0.0

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* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/artifact/AbstractArtifact.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/filter/ScopeDependencyFilter.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/version/GenericVersionScheme.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/artifact/DefaultArtifactTypeRegistry.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/graph/Stack.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/filter/DependencyFilterUtils.java
*
/aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/graph/transformer/ConflictIdSorter.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/repository/ConservativeProxySelector.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/graph/transformer/ConflictMarker.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/filter/NotDependencyFilter.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/graph/selector/ExclusionDependencySelector.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/layout/RepositoryLayout.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/version/GenericVersionRange.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/graph/manager/ClassicDependencyManager.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/filter/PatternInclusionsDependencyFilter.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/graph/traverser/FatArtifactTraverser.java
*
/aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/FilterRepositorySystemSession.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/version/GenericVersionConstraint.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/artifact/OverlayArtifactTypeRegistry.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/graph/CloningDependencyVisitor.java

1.430 bcrypt-pbkdf 1.0.2

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1.431 @xtuc/ieee754 1.2.0

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1.433 registry-auth-token 3.4.0

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1.434 merge2 1.3.0

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1.436 confusing-browser-globals 1.0.9

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1.495 automat 20.2.0

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1.502 upath 1.2.0

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1.503 typedarray 0.0.6

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

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

1.504 babylon 6.18.0

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1.508 regex-not 1.0.2

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1.531 depd 1.1.2

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1.536 scroll-behavior 0.9.11

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1.538 expat 2.2.10

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1.539 prelude-ls 1.1.2

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```
name: 'prelude-ls'
version: '1.1.2'

author: 'George Zahariev <z@georgezahariev.com>'

description: "prelude.ls is a functionally oriented utility library. It is powerful and flexible. Almost all of its functions are curried. It is written in, and is the recommended base library for, LiveScript."

keywords:
 'prelude'
 'livescript'
 'utility'
 'ls'
 'coffeescript'
 'javascript'
 'library'
 'functional'
 'array'
 'list'
 'object'
 'string'

main: 'lib/'
files:
 'lib/'
 'README.md'
 'LICENSE'

homepage: 'http://preludels.com'
bugs: 'https://github.com/gkz/prelude-ls/issues'
licenses:
 * type: 'MIT'
   url: 'https://raw.github.com/gkz/prelude-ls/master/LICENSE'
 ...
engines:
 node: '>= 0.8.0'
repository:
 type: 'git'
 url: 'git://github.com/gkz/prelude-ls.git'
scripts:
 test: "make test"

dev-dependencies:
 livescript: '~1.4.0'
 'uglify-js': '~2.4.12'
 mocha: '~2.2.4'
 istanbul: '~0.2.4'
```

browserify: '~3.24.13'
sinon: '~1.10.2'
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1.540 maven-model-builder 3.0.5

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1.541 tar-fs 2.0.0

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1.542 css-select-base-adapter 0.1.1

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
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1.547 kmod 28

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member
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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no

2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
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A. HISTORY OF THE SOFTWARE
==========

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

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

software.

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

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

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

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
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GPL-compatible licenses make it possible to combine Python with
other software that is released under the GPL; the others don't.

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

Thanks to the many outside volunteers who have worked under Guido's

direction to make these releases possible.

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==========
Advice for new contributors
==========

New contributor and not sure what to do? Want to help but just don't know how
to get started? This is the section for you.

.. admonition:: Basic tools and workflow

If you are new to contributing to Django, the :doc:`/intro/contributing`
tutorial will give you an introduction to the tools and the workflow.

First steps
==========

Start with these easy tasks to discover Django's development process.

* **Triage tickets**

If an `unreviewed ticket`_ reports a bug, try and reproduce it. If you
can reproduce it and it seems valid, make a note that you confirmed the bug
and accept the ticket. Make sure the ticket is filed under the correct
component area. Consider writing a patch that adds a test for the bug's
behavior, even if you don't fix the bug itself. See more at
:ref:`how-can-i-help-with-triaging`

* **Look for tickets that are accepted and review patches to build familiarity

with the codebase and the process**

Mark the appropriate flags if a patch needs docs or tests. Look through the
changes a patch makes, and keep an eye out for syntax that is incompatible
with older but still supported versions of Python. :doc:`Run the tests
</internals/contributing/writing-code/unit-tests>` and make sure they pass.
Where possible and relevant, try them out on a database other than SQLite.
Leave comments and feedback!

* **Keep old patches up to date**

Oftentimes the codebase will change between a patch being submitted and the
time it gets reviewed. Make sure it still applies cleanly and functions as
expected. Simply updating a patch is both useful and important! See more on
:doc:`writing-code/submitting-patches`.

* **Write some documentation**

Django's documentation is great but it can always be improved. Did you find
a typo? Do you think that something should be clarified? Go ahead and
suggest a documentation patch! See also the guide on
:doc:`writing-documentation`.

.. note::

The `reports page`_ contains links to many useful Trac queries, including
several that are useful for triaging tickets and reviewing patches as
suggested above.

.. _reports page: https://code.djangoproject.com/wiki/Reports

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Guidelines
==========

As a newcomer on a large project, it's easy to experience frustration. Here's
some advice to make your work on Django more useful and rewarding.

* **Pick a subject
  area that you care about, that you are familiar with, or
  that you want to learn about**

  You don't already have to be an expert on the area you want to work on; you
  become an expert through your ongoing contributions to the code.

* **Analyze tickets' context and history**

  Trac isn't an absolute; the context is just as important as the words.
  When reading Trac, you need to take into account who says things, and when
  they were said. Support for an idea two years ago doesn't necessarily mean
  that the idea will still have support. You also need to pay attention to who
  hasn't spoken -- for example, if an experienced contributor hasn't been
  recently involved in a discussion, then a ticket may not have the support
  required to get into Django.

* **Start small**

  It's easier to get feedback on a little issue than on a big one. See the
  `easy pickings`_.

* **If you're going to engage in a big task, make sure that your idea has
  support first**

  This means getting
  someone else to confirm that a bug is real before you fix
  the issue, and ensuring that there's consensus on a proposed feature before

you go implementing it.

* **Be bold! Leave feedback!**

  Sometimes it can be scary to put your opinion out to the world and say "this
  ticket is correct" or "this patch needs work", but it's the only way the
  project moves forward. The contributions of the broad Django community
  ultimately have a much greater impact than that of any one person. We can't
  do it without **you**!

* **Err on the side of caution when marking things Ready For Check-in**

  If you're really not certain if a ticket is ready, don't mark it as
  such. Leave a comment instead, letting others know your thoughts. If you're
  mostly certain, but not completely certain, you might also try asking on IRC
  to see if someone else can confirm your suspicions.

* **Wait for feedback, and respond to feedback that you receive**

  Focus on one or two tickets, see them through from
  start to finish, and
  repeat. The shotgun approach of taking on lots of tickets and letting some
  fall by the wayside ends up doing more harm than good.

* **Be rigorous**

  When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch
  doesn't have docs and tests, there had better be a good reason. Arguments
  like "I couldn't find any existing tests of this feature" don't carry much
  weight--while it may be true, that means you have the extra-important job of
  writing the very first tests for that feature, not that you get a pass from
  writing tests altogether.

.. _easy pickings: https://code.djangoproject.com/query?status=!closed&easy=1

.. _new-contributors-faq:

FAQ
===

1. **This ticket I care about has been ignored for days/weeks/months! What can
   I do to get it committed?**

   First off, it's not personal. Django is entirely developed by volunteers
   (except the Django fellow), and sometimes folks just don't have time. The
   best thing to do is to
   send a gentle reminder to the |django-developers|
   mailing list asking for review on the ticket, or to bring it up in the

`#django-dev` IRC channel.

2. **I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself?**

Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see question 1, above.

1.555 capture-stack-trace 1.0.0

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1.556 promzard 0.3.0

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1.557 unique-slug 2.0.2

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1.559 browserify-des 1.0.2

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1.560 psmisc 23.4

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1.561 plexus-interpolation 1.14

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1.593 wagon-http-shared4 2.4

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1.594 array-iterate 1.1.3

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1.595 hsla-regex 1.0.0

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1.596 xml-parse-from-string 1.0.1

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1.597 has-binary2 1.0.3

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1.598 with-open-file 0.1.7

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1.599 scheduler 0.18.0

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1.600 execa 0.7.0

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1.601 docker-compose 1.28.2

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1.602 rfc3987 1.3.8

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1.616 maven-plugin-api 3.0.5

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1.622 unicode-property-aliases-ecmascript 1.0.5

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1.625 cyclist 0.2.2

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1.626 ignore-walk 3.0.3

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* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/converters/ConfigurationConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/converters/basic/LongConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/converters/basic/StringBufferConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/converters/AbstractConfigurationConverter.java
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/sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/converters/basic/BooleanConverter.java
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* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/converters/basic/StringConverter.java
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* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/converters/lookup/ConverterLookup.java
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* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/converters/composite/ObjectWithFieldsConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/converters/composite/ComponentDefaultValueSetter.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/converters/basic/FloatConverter.java

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* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/binders/PlexusXmlBeanModule.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/repository/ComponentRequirement.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/DefaultPlexusContainer.java
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* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/repository/ComponentDescriptor.java
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 /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/config/PlexusBeanLocator.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/DefaultContainerConfiguration.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/scanners/PlexusXmlScanner.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/config/PlexusBeanSource.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/binders/OptionalPropertyBinding.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/configuration/PlexusConfigurationException.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/logging/AbstractLogger.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/binders/ProvidedPropertyBinding.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/MutablePlexusContainer.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/locators/HintedPlexusBeans.java
*
 /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/context/ContextMapAdapter.java
* /sisu-inject-plexus-2-3-0-sources-2-

jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/InitializationException.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/config/Roles.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/binders/PlexusTypeBinder.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/locators/MissingPlexusBean.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/annotations/RequirementImpl.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/binders/PlexusBindingModule.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/Configurable.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/PlexusConstants.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/config/PlexusBeanModule.java
*
/sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/locators/DefaultPlexusBeanLocator.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/logging/AbstractLogEnabled.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/logging/BaseLoggerManager.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/scanners/CloningClassLoader.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/expression/ExpressionEvaluationException.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/logging/AbstractLoggerManager.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/config/Hints.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/logging/console/ConsoleLoggerManager.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/locators/LazyPlexusBean.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/scanners/PlexusAnnotatedMetadata.java
*
/sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/Initializable.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/Contextualizable.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/config/PlexusBean.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/ComponentDescriptorBeanModule.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/PlexusContainer.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/logging/console/ConsoleLogger.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/repository/ComponentSetDescriptor.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/scanners/PlexusTypeVisitor.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/binders/PlexusBeanManager.java
*
/sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/repository/ComponentDependency.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/configuration/DefaultPlexusConfiguration.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/converters/PlexusXmlBeanConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/repository/exception/ComponentLookupException.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/scanners/PlexusTypeListener.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/Startable.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/composition/CycleDetectedInComponentGraphException.java
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jar/org/codehaus/plexus/component/configurator/expression/ExpressionEvaluator.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/expression/DefaultExpressionEvaluator.java
*

/sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/PlexusTestCase.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/expression/TypeAwareExpressionEvaluator.java
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* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/converters/ComponentValueSetter.java

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1.641 libidn 2.3.0

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1.665 array-reduce 0.0.0

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1.666 meow 3.7.0

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1.667 lodash-union 4.6.0

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1.668 chalk 2.4.2

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1.669 wsgiref 0.1.2

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1.670 console-browserify 1.2.0

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1.671 etag 1.8.1

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1.672 require-directory 2.1.1

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1.673 object.fromentries 2.0.2

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1.674 pkg-dir 3.0.0

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1.675 glob 7.1.6

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1.676 batch 0.6.1

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1.677 alphanum-sort 1.0.2

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1.678 from2 2.3.0

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1.679 spdx-license-ids 3.0.5

1.679.1 Available under license :

workflow "Test" {
on = "push"
resolves = ["npm"]
}

action "npm" {

```
 uses = "shinnn/actions-npm-alpine@1.0.0"
 args = "install-ci-test"
}
root = true

[*]
charset = utf-8
end_of_line = lf
indent_style = tab
tab_width = 2
insert_final_newline = true
trim_trailing_whitespace = true

[*.{md,yml}]
indent_style = space

[*.md]
trim_trailing_whitespace = false
[
 "AGPL-1.0",
 "AGPL-3.0",
 "GFDL-1.1",
 "GFDL-1.2",
 "GFDL-1.3",
 "GPL-1.0",
 "GPL-2.0",
 "GPL-2.0-with-GCC-exception",
 "GPL-2.0-with-autoconf-exception",
 "GPL-2.0-with-bison-exception",
 "GPL-2.0-with-classpath-exception",
 "GPL-2.0-with-font-exception",
 "GPL-3.0",
 "GPL-3.0-with-GCC-exception",
 "GPL-3.0-with-autoconf-exception",
 "LGPL-2.0",
 "LGPL-2.1",
 "LGPL-3.0",
 "Nunit",
 "StandardML-NJ",
 "eCos-2.0",
 "wxWindows"
]
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* text=auto
# spdx-license-ids

[![npm version](https://img.shields.io/npm/v/spdx-license-ids.svg)](https://www.npmjs.com/package/spdx-license-ids)
```

[![Github Actions](https://action-badges.now.sh/shinnn/spdx-license-ids)](https://wdp9fww0r9.execute-api.us-west-2.amazonaws.com/production/results/shinnn/spdx-license-ids)

A list of [SPDX license](https://spdx.org/licenses/) identifiers

Installation

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

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

[Node.js](https://nodejs.org/) API

require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

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

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

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

Type: `string[]`

Deprecated license IDs.

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

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

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

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```
[
 "0BSD",
 "AAL",
 "ADSL",
 "AFL-1.1",
 "AFL-1.2",
 "AFL-2.0",
 "AFL-2.1",
 "AFL-3.0",
 "AGPL-1.0-only",
 "AGPL-1.0-or-later",
 "AGPL-3.0-only",
 "AGPL-3.0-or-later",
 "AMDPLPA",
 "AML",
 "AMPAS",
 "ANTLR-PD",
 "APAFML",
 "APL-1.0",
 "APSL-1.0",
 "APSL-1.1",
 "APSL-1.2",
 "APSL-2.0",
 "Abstyles",
 "Adobe-2006",
 "Adobe-Glyph",
 "Afmparse",
 "Aladdin",
 "Apache-1.0",
 "Apache-1.1",
 "Apache-2.0",
 "Artistic-1.0",
 "Artistic-1.0-Perl",
 "Artistic-1.0-cl8",
 "Artistic-2.0",
 "BSD-1-Clause",
 "BSD-2-Clause",
 "BSD-2-Clause-FreeBSD",
 "BSD-2-Clause-NetBSD",
 "BSD-2-Clause-Patent",
 "BSD-3-Clause",
 "BSD-3-Clause-Attribution",
 "BSD-3-Clause-Clear",
 "BSD-3-Clause-LBNL",
```

"BSD-3-Clause-No-Nuclear-License",
"BSD-3-Clause-No-Nuclear-License-2014",
"BSD-3-Clause-No-Nuclear-Warranty",
"BSD-3-Clause-Open-MPI",
"BSD-4-Clause",
"BSD-4-Clause-UC",
"BSD-Protection",
"BSD-Source-Code",
"BSL-1.0",
"Bahyph",
"Barr",
"Beerware",
"BitTorrent-1.0",
"BitTorrent-1.1",
"BlueOak-1.0.0",
"Borceux",
"CATOSL-1.1",
"CC-BY-1.0",
"CC-BY-2.0",
"CC-BY-2.5",
"CC-BY-3.0",
"CC-BY-4.0",
"CC-BY-NC-1.0",
"CC-BY-NC-2.0",
"CC-BY-NC-2.5",
"CC-BY-NC-3.0",
"CC-BY-NC-4.0",
"CC-BY-NC-ND-1.0",
"CC-BY-NC-ND-2.0",
"CC-BY-NC-ND-2.5",
"CC-BY-NC-ND-3.0",
"CC-BY-NC-ND-4.0",
"CC-BY-NC-SA-1.0",
"CC-BY-NC-SA-2.0",
"CC-BY-NC-SA-2.5",
"CC-BY-NC-SA-3.0",
"CC-BY-NC-SA-4.0",
"CC-BY-ND-1.0",
"CC-BY-ND-2.0",
"CC-BY-ND-2.5",
"CC-BY-ND-3.0",
"CC-BY-ND-4.0",
"CC-BY-SA-1.0",
"CC-BY-SA-2.0",
"CC-BY-SA-2.5",
"CC-BY-SA-3.0",
"CC-BY-SA-4.0",
"CC-PDDC",

"CC0-1.0",
"CDDL-1.0",
"CDDL-1.1",
"CDLA-Permissive-1.0",
"CDLA-Sharing-1.0",
"CECILL-1.0",
"CECILL-1.1",
"CECILL-2.0",
"CECILL-2.1",
"CECILL-B",
"CECILL-C",
"CERN-OHL-1.1",
"CERN-OHL-1.2",
"CNRI-Jython",
"CNRI-Python",
"CNRI-Python-GPL-Compatible",
"CPAL-1.0",
"CPL-1.0",
"CPOL-1.02",
"CUA-OPL-1.0",
"Caldera",
"ClArtistic",
"Condor-1.1",
"Crossword",
"CrystalStacker",
"Cube",
"D-FSL-1.0",
"DOC",
"DSDP",
"Dotseqn",
"ECL-1.0",
"ECL-2.0",
"EFL-1.0",
"EFL-2.0",
"EPL-1.0",
"EPL-2.0",
"EUDatagrid",
"EUPL-1.0",
"EUPL-1.1",
"EUPL-1.2",
"Entessa",
"ErlPL-1.1",
"Eurosym",
"FSFAP",
"FSFUL",
"FSFULLR",
"FTL",
"Fair",

"Frameworx-1.0",
"FreeImage",
"GFDL-1.1-only",
"GFDL-1.1-or-later",
"GFDL-1.2-only",
"GFDL-1.2-or-later",
"GFDL-1.3-only",
"GFDL-1.3-or-later",
"GL2PS",
"GPL-1.0-only",
"GPL-1.0-or-later",
"GPL-2.0-only",
"GPL-2.0-or-later",
"GPL-3.0-only",
"GPL-3.0-or-later",
"Giftware",
"Glide",
"Glulxe",
"HPND",
"HPND-sell-variant",
"HaskellReport",
"IBM-pibs",
"ICU",
"IJG",
"IPA",
"IPL-1.0",
"ISC",
"ImageMagick",
"Imlib2",
"Info-ZIP",
"Intel",
"Intel-ACPI",
"Interbase-1.0",
"JPNIC",
"JSON",
"JasPer-2.0",
"LAL-1.2",
"LAL-1.3",
"LGPL-2.0-only",
"LGPL-2.0-or-later",
"LGPL-2.1-only",
"LGPL-2.1-or-later",
"LGPL-3.0-only",
"LGPL-3.0-or-later",
"LGPLLR",
"LPL-1.0",
"LPL-1.02",
"LPPL-1.0",

"LPPL-1.1",
"LPPL-1.2",
"LPPL-1.3a",
"LPPL-1.3c",
"Latex2e",
"Leptonica",
"LiLiQ-P-1.1",
"LiLiQ-R-1.1",
"LiLiQ-Rplus-1.1",
"Libpng",
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"MPL-2.0",
"MPL-2.0-no-copyleft-exception",
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   "esquery": "^1.0.1",
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    "write": "^0.2.1"
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   "obj-props": "^1.0.0"
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  "requires": {
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  "dev":
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  "dev": true,
  "requires": {
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   "type-check": "~0.3.2"
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   "npm-cli-dir": "^2.0.1",
   "optional": "^0.1.4",
   "resolve-from-npm": "^2.0.4"
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  "dev": true
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  "integrity": "sha1-Sr6/7tdUHywnrPspvbvRXI1bpPc=",
  "dev": true
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  "dev": true,
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   "real-executable-path": "^2.0.2",
   "win-user-installed-npm-cli-path": "^2.0.2"
  }
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  "integrity": "sha1-YmMT+qRCvv1KROmgLDy2vek3tRE=",
  "dev": true
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   "dev": true,
   "requires": {
    "wrappy": "1"
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   "dev": true,
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   }
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   "integrity":
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   "fast-levenshtein": "~2.0.4",
   "levn": "~0.3.0",
   "prelude-ls": "~1.1.2",
   "type-check": "~0.3.2",
   "wordwrap": "~1.0.0"
  }
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 "os-tmpdir": {
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  "resolved": "http://registry.npmjs.org/os-tmpdir/-/os-tmpdir-1.0.2.tgz",
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  "dev": true
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  "resolved": "http://registry.npmjs.org/path-is-absolute/-/path-is-absolute-1.0.1.tgz",
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  "resolved": "https://registry.npmjs.org/path-is-inside/-/path-is-inside-1.0.2.tgz",
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   "resolved": "https://registry.npmjs.org/pluralize/-/pluralize-7.0.0.tgz",
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"dev": true
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"string_decoder": "^1.1.1",
"util-deprecate": "^1.0.1"
}
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"real-executable-path": {

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   "requires": {
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   "dev": true,
   "requires": {
    "inspect-with-kind": "^1.0.4",
    "is-plain-obj": "^1.1.0",
    "which": "^1.3.0"
   }
  },
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    "resolve-from": "^1.0.0"
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    "npm-cli-dir": "^2.0.2",
    "resolve-from": "^4.0.0"
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   }
  },
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  "requires": {
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   "glob": "^7.1.2",
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   "inspect-with-kind": "^1.0.4",
   "rimraf": "^2.6.2"
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  "requires": {
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   "astral-regex": "^1.0.0",
   "is-fullwidth-code-point": "^2.0.0"
  }
 },
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   "strip-ansi": "^4.0.0"
  }
 },
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  "dev": true,
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   "es-abstract": "^1.5.0",
   "function-bind": "^1.0.2"
  }
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    "defined": "~1.0.0",
    "for-each": "~0.3.3",
    "function-bind": "~1.1.1",
    "glob": "~7.1.2",
    "has": "~1.0.3",
    "inherits": "~2.0.3",
    "minimist": "~1.2.0",
    "object-inspect": "~1.6.0",
    "resolve": "~1.7.1",
    "resumer": "~0.0.0",
    "string.prototype.trim": "~1.1.2",
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    "indexed-filter": "^1.0.0",
    "inspect-with-kind": "^1.0.4",
    "is-plain-obj": "^1.1.0"
   }
  },
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  "dev": true
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  "dev": true,
  "requires": {
   "mkdirp": "^0.5.1"
  }
 }
}
}
```


1.680 path-type 4.0.0

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1.681 has-symbols 1.0.0

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1.682 workbox-google-analytics 4.3.1

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1.683 wagon-file 2.4

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1.691 python-certifi 2020.12.05

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file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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can be directly used with curl / libcurl / php_curl, or with
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1.692 scons 3.1.2

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Version 2, June 1991

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1.700 finalhandler 1.1.2

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1.701 util-promisify 2.1.0

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1.706 core-util-is 1.0.2

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1.707 create-hash 1.2.0

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1.725 tap.py 3.0

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1.731 http-parser-js 0.4.10

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- tests/iojs/test-http-parser-durability.js

This file is from https://github.com/mscdex/io.js/blob/js-http-parser/test/pummel/test-http-parser-durability.js with modifications by Jan Schr (jscissr).

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- tests/fixtures/*
tests/parallel/*
tests/testpy/*
tests/common.js
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1.732 color-convert 1.9.3

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

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2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
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2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
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	from			compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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In May 2000, Guido and the Python core development team moved to
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2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
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2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
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2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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1.761 lokijs 1.5.8

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1.766 sort-keys 2.0.0

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tirpc/rpc/des_crypt.h
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1.799 color-string 1.5.3

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1.800 forwarded 0.1.2

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1.808 sqlparse 0.4.1

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1.824 forever-agent 0.6.1

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1.831 sys-mountinfo 0.4.0

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1.832 maven-embedder 3.0.5

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1.838 tmp 0.0.33

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Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

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

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

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

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

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

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a) Accompany
the work with the complete corresponding
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properly with a modified version of the library, if
the user installs one, as long as the modified version is

interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
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1.844 cssnano 4.1.10

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1.846 has-to-string-tag-x 1.4.1

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1.847 py 1.10.0

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1.848 optionator 0.8.3

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1.849 form-data 2.3.3

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1.850 strip-json-comments 3.0.1

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1.853 yaml 1.7.2

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1.865 isomorphic-fetch 2.2.1

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isomorphic-fetch [![Build Status](https://travis-ci.org/matthew-andrews/isomorphic-fetch.svg?branch=master)](https://travis-ci.org/matthew-andrews/isomorphic-fetch)
==========

Fetch for node and Browserify. Built on top of [GitHub's WHATWG Fetch polyfill](https://github.com/github/fetch).

Warnings

- This adds `fetch` as a global so that its API is consistent between client and server.
- You must bring your own ES6 Promise compatible polyfill, I suggest [es6-promise](https://github.com/jakearchibald/es6-promise).

For [ease-of-maintenance and backward-compatibility reasons][why polyfill], this library will always be a polyfill. As a "safe" alternative, which does not modify the global, consider [fetch-ponyfill][].

[why polyfill]: https://github.com/matthew-andrews/isomorphic-fetch/issues/31#issuecomment-149668361
[fetch-ponyfill]: https://github.com/qubyte/fetch-ponyfill

Installation

NPM

```sh
npm
 install --save isomorphic-fetch es6-promise
```

Bower

```sh
bower install --save isomorphic-fetch es6-promise
```

Usage

```js
require('es6-promise').polyfill();
require('isomorphic-fetch');

fetch('//offline-news-api.herokuapp.com/stories')
 .then(function(response) {
  if (response.status >= 400) {
   throw new Error("Bad response from server");
  }
  return response.json();
 })
 .then(function(stories) {
  console.log(stories);
 });
```

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All open source code released by FT Labs is licenced under the MIT licence. Based on [the fine work by](https://github.com/github/fetch/pull/31) **[jxck](https://github.com/Jxck)**.

Found in path(s):
* /fis-components-isomorphic-fetch-2-2-1-0-g4801b9c-1-tar-gz/fis-components-isomorphic-fetch-9599403/README.md

1.866 libuv 1.41.0

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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02
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(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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Python was created in the early 1990s by Guido van Rossum at Stichting
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principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
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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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
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2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes

2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
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2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/BundleClassSpace.java
*
 /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/inject/PropertyBinding.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/DeferredClass.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/FileEntryIterator.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/URLClassSpace.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/DeclaredMembers.java
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 /sisu-inject-bean-2-3-0-sources-2-jar/javax/enterprise/inject/Typed.java
* /sisu-inject-bean-2-3-0-sources-2-jar/javax/enterprise/inject/InjectionException.java
* /sisu-inject-bean-2-3-0-sources-2-jar/javax/enterprise/inject/Instance.java
* /sisu-inject-bean-2-3-0-sources-2-jar/javax/enterprise/inject/AmbiguousResolutionException.java
* /sisu-inject-bean-2-3-0-sources-2-jar/javax/enterprise/inject/UnsatisfiedResolutionException.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/WatchedBeans.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/inject/Sisu.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/ImplicitBindings.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/RankingFunction.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/containers/SisuActivator.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/binders/Wiring.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/ImplementationVisitor.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/containers/SisuGuice.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/BeanLocator.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/containers/Main.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/binders/BeanProviders.java
*
 /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/spi/BindingPublisher.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/converters/URLTypeConverter.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/inject/Description.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/containers/InjectedTest.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/EmptyClassVisitor.java

* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/binders/ElementMerger.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/inject/Parameters.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/converters/package-info.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/inject/BeanEntry.java

* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/BeanDescription.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/RankedBindings.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/DefaultBeanLocator.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/javax/enterprise/inject/New.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/javax/inject/Inject.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/ClassVisitor.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/AnnotationVisitor.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/MethodWriter.java
*
 /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/Handler.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/Frame.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/package-info.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/AnnotationWriter.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/Label.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/Item.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/FieldVisitor.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/FieldWriter.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/ClassWriter.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/ByteVector.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/Attribute.java
*
 /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/Type.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/Opcodes.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/MethodVisitor.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/ClassReader.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/Edge.java
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***/

Found in path(s):
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/MildValues.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/index/SisuIndexFinder.java

* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/inject/BeanScanning.java
*
/sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/Weak.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/binders/MergedProperties.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/Soft.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/index/AbstractSisuIndex.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/index/SisuIndexAPT6.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/ClassFinder.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/Implicit.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/WildcardKey.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/binders/StringProperties.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/MildKeys.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/MildElements.java
*
/sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/index/SisuIndex.java

1.915 global-modules 1.0.0

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1.939 wcwidth 1.0.1

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==========

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1.955 multicast-dns 6.2.3

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1.959 thunky 1.1.0

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1.960 name-all-modules-plugin 1.0.1

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1.961 object-keys 1.0.12

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1.962 qs 6.5.2

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1.963 btrfsutil 5.10.1

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1.969 core-js-pure 3.6.2

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1.970 python-setuptools 58.1.0

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1.973 redux-thunk 2.3.0

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1.976 buffer-alloc-unsafe 1.1.0

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1.977 ci-info 1.6.0

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1.978 gatsby-plugin-offline 3.0.30

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1.979 querystringify 2.1.1

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1.980 cacache 12.0.3

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1.982 extend 3.0.2

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1.983 mdast-util-definitions 1.2.5

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1.984 pyrsistent 0.17.3

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1.987 uri-js 4.2.2

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options:URNOptions):URIComponents
{\n\t\tconst scheme = options.scheme || urnComponents.scheme || \"urn\";\n\t\tconst nid = urnComponents.nid;\n\t\tconst urnScheme = `${scheme}:${options.nid || nid}`;\n\t\tconst schemeHandler = SCHEMES[urnScheme];\n\n\t\tif (schemeHandler) {\n\t\t\turnComponents = schemeHandler.serialize(urnComponents, options) as URNComponents;\n\t\t}\n\n\t\tconst uriComponents = urnComponents as URIComponents;\n\t\tconst nss = urnComponents.nss;\n\t\turiComponents.path = `${nid || options.nid}:${nss}`;\n\n\t\treturn uriComponents;\n\t},\n};\n\nexport default handler;","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport { pctEncChar, pctDecChars, unescapeComponent } from \"../uri\";\nimport punycode from \"punycode\";\nimport { merge, subexp, toUpperCase, toArray } from \"../util\";\n\nexport interface MailtoHeaders {\n\t[hfname:string]:string\n}\n\nexport interface MailtoComponents extends URIComponents
{\n\tto:Array<string>,\n\theaders?:MailtoHeaders,\n\tsubject?:string,\n\tbody?:string\n}\n\nconst O:MailtoHeaders = {};\nconst isIRI = true;\n\n//RFC 3986\nconst UNRESERVED$$ = \"[A-Za-z0-9\\\\-\\\\._\\\\~\" + (isIRI ? \"\\\\xA0-\\\\u200D\\\\u2010-\\\\u2029\\\\u202F-\\\\uD7FF\\\\uF900-\\\\uFDCF\\\\uFDF0-\\\\uFFEF\" : \"\") + \"]\";\nconst HEXDIG$$ = \"[0-9A-Fa-f]\"; //case-insensitive\nconst PCT_ENCODED$ = subexp(subexp(\"%[EFef]\" + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%[89A-Fa-f]\" + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%\" + HEXDIG$$ + HEXDIG$$)); //expanded\n\n//RFC 5322, except these symbols as per RFC 6068: @ : / ? # [ ] & ; =\n//const ATEXT$$ = \"[A-Za-z0-9\\\\!\\\\#\\\\$\\\\%\\\\&\\\\'*\\\\+\\\\-\\\\/\\\\=\\\\?\\\\^_\\\\`\\\\{\\\\|\\\\}\\\\~]\";\n//const WSP$$ = \"[\\\\x20\\\\x09]\";\n//const OBS_QTEXT$$ = \"[\\\\x01-\\\\x08\\\\x0B\\\\x0C\\\\x0E-\\\\x1F\\\\x7F]\"; //(%d1-8 / %d11-12 / %d14-31 / %d127)\n//const QTEXT$$ = merge(\"[\\\\x21\\\\x23-\\\\x5B\\\\x5D-\\\\x7E]\",
OBS_QTEXT$$); //%d33 / %d35-91 / %d93-126 / obs-qtext\n//const VCHAR$$ = \"[\\\\x21-\\\\x7E]\";\n//const WSP$$ = \"[\\\\x20\\\\x09]\";\n//const OBS_QP$ = subexp(\"\\\\\\\\\" + merge(\"[\\\\x00\\\\x0D\\\\x0A]\", OBS_QTEXT$$)); //%d0 / CR / LF / obs-qtext\n//const FWS$ = subexp(subexp(WSP$$ + \"*\\" + \"\\\\x0D\\\\x0A\") + \"?\" + WSP$$ + \"+\");\n//const QUOTED_PAIR$ = subexp(subexp(\"\\\\\\\\\" + subexp(VCHAR$$ + \"|\" + WSP$$)) + \"|\" + OBS_QP$);\n//const QUOTED_STRING$ = subexp('\\\\\"' + subexp(FWS$ + \"?\" + QCONTENT$) + \"*\" + FWS$ + \"?\" + '\\\\\"');\nconst ATEXT$$ = \"[A-Za-z0-9\\\\!\\\\$\\\\%\\\\'*\\\\+\\\\-\\\\^_\\\\`\\\\{\\\\|\\\\}\\\\~]\";\nconst QTEXT$$ = \"[\\\\!\\\\$\\\\%\\\\'\\\\(\\\\)*\\\\+\\\\,\\\\-\\\\.0-9\\\\<\\\\>A-Z\\\\x5E-\\\\x7E]\";\nconst VCHAR$$ = merge(QTEXT$$, \"[\\\\\\\\\\\\\\\\]\");\nconst DOT_ATOM_TEXT$ = subexp(ATEXT$$ + \"+\" + subexp(\"\\\\.\" + ATEXT$$ + \"+\") + \"*\");\nconst QUOTED_PAIR$ = subexp(\"\\\\\\\\\" + VCHAR$$);\nconst QCONTENT$ = subexp(QTEXT$$ + \"|\" + QUOTED_PAIR$);\nconst QUOTED_STRING$ = subexp('\\\\\"' + QCONTENT$ + \"*\" + '\\\\\"');\n\n//RFC 6068\nconst DTEXT_NO_OBS$$ = \"[\\\\x21-\\\\x5A\\\\x5E-\\\\x7E]\"; //%d33-90 / %d94-126\nconst SOME_DELIMS$$ = \"[\\\\!\\\\$\\\\'\\\\(\\\\)*\\\\+\\\\,\\\\;\\\\:\\\\@]\";\nconst QCHAR$ = subexp(UNRESERVED$$ + \"|\" + PCT_ENCODED$ + \"|\" + SOME_DELIMS$$);\nconst DOMAIN$ = subexp(DOT_ATOM_TEXT$ + \"|\" + \"\\\\[\" + DTEXT_NO_OBS$$ + \"*\" + \"\\\\]\");\nconst LOCAL_PART$ = subexp(DOT_ATOM_TEXT$ + \"|\" + QUOTED_STRING$);\nconst ADDR_SPEC$ = subexp(LOCAL_PART$ + \"\\\\@\" + DOMAIN$);\nconst TO$ = subexp(ADDR_SPEC$ + subexp(\"\\\\,\" + ADDR_SPEC$) + \"*\");\nconst HFNAME$ = subexp(QCHAR$ + \"*\");\nconst HFVALUE$ = HFNAME$;\nconst HFIELD$ = subexp(HFNAME$ + \"\\\\=\" + HFVALUE$);\nconst HFIELDS2$ = subexp(HFIELD$ + subexp(\"\\\\&\" + HFIELD$) + \"*\");\nconst HFIELDS$ = subexp(\"\\\\?\" + HFIELDS2$);\nconst MAILTO_URI = new RegExp(\"^mailto\\\\:\"
+ TO$ + \"?\" + HFIELDS$ + \"?$\");\n\nconst UNRESERVED = new RegExp(UNRESERVED$$, \"g\");\nconst PCT_ENCODED = new RegExp(PCT_ENCODED$, \"g\");\nconst NOT_LOCAL_PART = new RegExp(merge(\"[^]\", ATEXT$$, \"[\\\\.]\", '[\\\\\"]', VCHAR$$), \"g\");\nconst NOT_DOMAIN = new RegExp(merge(\"[^]\", ATEXT$$, \"[\\\\.]\", \"[\\\\[]\", DTEXT_NO_OBS$$, \"[\\\\]]\"), \"g\");\nconst NOT_HFNAME = new RegExp(merge(\"[^]\", UNRESERVED$$, SOME_DELIMS$$), \"g\");\nconst

NOT_HFVALUE = NOT_HFNAME;\nconst TO = new RegExp(\"^\" + TO$ + \"$\");\nconst HFIELDS = new RegExp(\"^\" + HFIELDS2$ + \"$\");\n\nfunction decodeUnreserved(str:string):string {\n\tconst decStr = pctDecChars(str);\n\treturn (!decStr.match(UNRESERVED) ? str : decStr);\n}\n\nconst handler:URISchemeHandler<MailtoComponents> = {\n\tscheme : \"mailto\",\n\n\tparse : function (components:URIComponents, options:URIOptions):MailtoComponents {\n\t\tconst mailtoComponents = components as MailtoComponents;\n\t\tconst to = mailtoComponents.to = (mailtoComponents.path ? mailtoComponents.path.split(\",\") : []);\n\t\tmailtoComponents.path = undefined;\n\n\t\tif (mailtoComponents.query) {\n\t\t\tlet unknownHeaders = false\n\t\t\tconst headers:MailtoHeaders = {};\n\t\t\tconst hfields = mailtoComponents.query.split(\"&\");\n\n\t\t\tfor (let x = 0, xl = hfields.length; x < xl; ++x) {\n\t\t\t\tconst hfield = hfields[x].split(\"=\");\n\n\t\t\t\tswitch (hfield[0]) {\n\t\t\t\t\tcase \"to\":\n\t\t\t\t\t\tconst toAddrs = hfield[1].split(\",\");\n\t\t\t\t\t\tfor (let x = 0, xl = toAddrs.length; x < xl; ++x) {\n\t\t\t\t\t\t\tto.push(toAddrs[x]);\n\t\t\t\t\t\t}\n\t\t\t\t\t\tbreak;\n\t\t\t\t\tcase \"subject\":\n\t\t\t\t\t\tmailtoComponents.subject = unescapeComponent(hfield[1], options);\n\t\t\t\t\t\tbreak;\n\t\t\t\t\tcase \"body\":\n\t\t\t\t\t\tmailtoComponents.body = unescapeComponent(hfield[1], options);\n\t\t\t\t\t\tbreak;\n\t\t\t\t\tdefault:\n\t\t\t\t\t\tunknownHeaders = true;\n\t\t\t\t\t\theaders[unescapeComponent(hfield[0], options)] = unescapeComponent(hfield[1], options);\n\t\t\t\t\t\tbreak;\n\t\t\t\t}\n\t\t\t}\n\n\t\t\tif (unknownHeaders) mailtoComponents.headers = headers;\n\t\t}\n\n\tmailtoComponents.query = undefined;\n\n\tfor (let x = 0, xl = to.length; x < xl; ++x) {\n\t\tconst addr = to[x].split(\"@\");\n\n\t\taddr[0] = unescapeComponent(addr[0]);\n\n\t\tif (!options.unicodeSupport) {\n\t\t\t//convert Unicode IDN -> ASCII IDN\n\t\t\ttry {\n\t\t\t\taddr[1] = punycode.toASCII(unescapeComponent(addr[1], options).toLowerCase());\n\t\t\t} catch (e) {\n\t\t\t\tmailtoComponents.error = mailtoComponents.error || \"Email address's domain name can not be converted to ASCII via punycode: \" + e;\n\t\t\t}\n\t\t} else {\n\t\t\taddr[1] = unescapeComponent(addr[1], options).toLowerCase();\n\t\t}\n\n\tto[x] = addr.join(\"@\");\n\t}\n\n\treturn mailtoComponents;\n\t},\n\n\tserialize : function (mailtoComponents:MailtoComponents, options:URIOptions):URIComponents {\n\t\tconst components = mailtoComponents as URIComponents;\n\t\tconst to = toArray(mailtoComponents.to);\n\t\tif (to) {\n\t\t\tfor (let x = 0, xl = to.length; x < xl; ++x) {\n\t\t\t\tconst toAddr = String(to[x]);\n\t\t\t\tconst atIdx = toAddr.lastIndexOf(\"@\");\n\t\t\t\tconst localPart = (toAddr.slice(0, atIdx)).replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_LOCAL_PART, pctEncChar);\n\t\t\t\tlet domain = toAddr.slice(atIdx + 1);\n\n\t\t\t\t//convert IDN via punycode\n\t\t\t\ttry {\n\t\t\t\t\tdomain = (!options.iri ? punycode.toASCII(unescapeComponent(domain, options).toLowerCase()) : punycode.toUnicode(domain));\n\t\t\t\t} catch (e) {\n\t\t\t\t\tcomponents.error = components.error || \"Email address's domain name can not be converted to \" + (!options.iri ? \"ASCII\" : \"Unicode\") + \" via punycode: \" + e;\n\t\t\t\t}\n\n\t\t\t\tto[x] = localPart + \"@\" + domain;\n\t\t\t}\n\n\t\tcomponents.path = to.join(\",\");\n\t}\n\n\tconst headers = mailtoComponents.headers = mailtoComponents.headers || {};\n\n\tif (mailtoComponents.subject) headers[\"subject\"] = mailtoComponents.subject;\n\tif (mailtoComponents.body) headers[\"body\"] = mailtoComponents.body;\n\n\tconst fields = [];\n\tfor (const name in headers) {\n\t\tif (headers[name] !== O[name]) {\n\t\t\tfields.push(\n\t\t\t\ttname.replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFNAME, pctEncChar) +\n\t\t\t\t\"=\" +\n\t\t\t\theaders[name].replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFVALUE, pctEncChar)\n\t\t\t);\n\t\t}\n\t}\n\tif (fields.length) {\n\t\tcomponents.query = fields.join(\"&\");\n\t}\n\n\treturn components;\n\t}\n}\n\nexport default handler;","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport http from \"./http\";\n\nconst handler:URISchemeHandler = {\n\tscheme : \"https\",\n\tdomainHost : http.domainHost,\n\tparse : http.parse,\n\tserialize : http.serialize\n}\n\nexport default handler;","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\n\nconst handler:URISchemeHandler = {\n\tscheme : \"http\",\n\n\tdomainHost : true,\n\n\tparse : function

(components:URIComponents, options:URIOptions):URIComponents {\n\t\t//report missing host\n\t\tif (!components.host) {\n\t\t\tcomponents.error = components.error || \"HTTP URIs must have a host.\";\n\t\t}\n\n\treturn components;\n\t},\n\nserialize : function (components:URIComponents, options:URIOptions):URIComponents {\n\t\t//normalize the default port\n\t\tif (components.port === (String(components.scheme).toLowerCase() !== \"https\" ? 80 : 443) || components.port === \"\") {\n\t\t\tcomponents.port = undefined;\n\t\t}\n\t\t\n\t\t//normalize the empty path\n\t\tif (!components.path) {\n\t\t\tcomponents.path = \"/\";\n\t\t}\n\n\t\t//NOTE: We do not parse query strings for HTTP URIs\n\t\t//as WWW Form Url Encoded query strings are part of the HTML4+ spec,\n\t\t//and not the HTTP spec.\n\n\treturn components;\n\t}\n};\n\nexport default handler;","/**\n * URI.js\n *\n * @fileoverview An RFC 3986 compliant, scheme extendable URI parsing/validating/resolving library for JavaScript.\n * @author Gary Court\n * @see http://github.com/garycourt/uri-js\n */\n\n/**\n * Copyright 2011 Gary Court. All rights reserved.\n *\n * Redistribution and use in source and binary forms, with or without modification, are\n * permitted provided that the following conditions are met:\n *\n *   1. Redistributions of source code must retain the above copyright notice, this list of\n *   conditions and the following disclaimer.\n *\n *   2. Redistributions in binary form must reproduce the above copyright notice, this list\n *   of conditions and the following disclaimer in the documentation and/or other materials\n *   provided with the distribution.\n *\n * THIS SOFTWARE IS PROVIDED BY GARY COURT ``AS IS'' AND ANY EXPRESS OR IMPLIED\n * WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND\n * FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL GARY COURT OR\n * CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR\n * CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR\n * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON\n * ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING\n * NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF\n * ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.\n *\n * The views and conclusions contained in the software and documentation are those of the\n * authors and should not be interpreted as representing official policies, either expressed\n * or implied, of Gary Court.\n */\n\nimport URI_PROTOCOL from \"./regexps-uri\";\nimport IRI_PROTOCOL from \"./regexps-iri\";\nimport punycode from \"punycode\";\nimport { toUpperCase, typeOf, assign } from \"./util\";\n\nexport interface URIComponents {\n\tscheme?:string;\n\tuserinfo?:string;\n\thost?:string;\n\tport?:number|string;\n\tpath?:string;\n\tquery?:string;\n\tfragment?:string;\n\treference?:string;\n\terror?:string;\n}\n\nexport interface URIOptions {\n\tscheme?:string;\n\treference?:string;\n\ttolerant?:boolean;\n\tabsolutePath?:boolean;\n\tiri?:boolean;\n\tunicodeSupport?:boolean;\n\tdomainHost?:boolean;\n}\n\nexport interface URISchemeHandler<Components extends URIComponents = URIComponents, Options extends URIOptions = URIOptions, ParentComponents extends URIComponents = URIComponents> {\n\tscheme:string;\n\tparse(components:ParentComponents, options:Options):Components;\n\tserialize(components:Components, options:Options):ParentComponents;\n\tunicodeSupport?:boolean;\n\tdomainHost?:boolean;\n\tabsolutePath?:boolean;\n}\n\nexport interface URIRegExps {\n\tNOT_SCHEME : RegExp,\n\tNOT_USERINFO : RegExp,\n\tNOT_HOST : RegExp,\n\tNOT_PATH : RegExp,\n\tNOT_PATH_NOSCHEME : RegExp,\n\tNOT_QUERY : RegExp,\n\tNOT_FRAGMENT : RegExp,\n\tESCAPE : RegExp,\n\tUNRESERVED : RegExp,\n\tOTHER_CHARS : RegExp,\n\tPCT_ENCODED : RegExp,\n\tIPV4ADDRESS : RegExp,\n\tIPV6ADDRESS : RegExp,\n}\n\nexport const SCHEMES:{[scheme:string]:URISchemeHandler} = {};\n\nexport function pctEncChar(chr:string):string {\n\tconst c = chr.charCodeAt(0);\n\tlet e:string;\n\n\tif (c < 16) e = \"%0\" + c.toString(16).toUpperCase();\n\telse if (c < 128) e = \"%\" + c.toString(16).toUpperCase();\n\telse if (c < 2048) e = \"%\" + ((c >> 6) | 192).toString(16).toUpperCase() + \"%\" + ((c & 63) |

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128).toString(16).toUpperCase();\n\telse e = \"%\" + ((c >> 12) | 224).toString(16).toUpperCase() + \"%\" + (((c >> 6) & 63) | 128).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();\n\n\treturn e;\n}\n\nexport function pctDecChars(str:string):string {\n\tlet newStr = \"\";\n\tlet i = 0;\n\tconst il = str.length;\n\n\twhile (i < il) {\n\t\tconst c = parseInt(str.substr(i + 1, 2), 16);\n\n\t\tif (c < 128) {\n\t\t\tnewStr += String.fromCharCode(c);\n\t\t\ti += 3;\n\t\t}\n\t\telse if (c >= 194 && c < 224) {\n\t\t\tif ((il - i) >= 6) {\n\t\t\t\tconst c2 = parseInt(str.substr(i + 4, 2), 16);\n\t\t\t\tnewStr += String.fromCharCode(((c & 31) << 6) | (c2 & 63));\n\t\t\t} else {\n\t\t\t\tnewStr += str.substr(i, 6);\n\t\t\t}\n\t\t\ti += 6;\n\t\t}\n\t\telse if (c >= 224) {\n\t\t\tif ((il - i) >= 9) {\n\t\t\t\tconst c2 = parseInt(str.substr(i + 4, 2), 16);\n\t\t\t\tconst c3 = parseInt(str.substr(i + 7, 2), 16);\n\t\t\t\tnewStr += String.fromCharCode(((c & 15) << 12) | ((c2 & 63) << 6) | (c3 & 63));\n\t\t\t} else {\n\t\t\t\tnewStr += str.substr(i, 9);\n\t\t\t}\n\t\t\ti += 9;\n\t\t}\n\t\telse {\n\t\tnewStr += str.substr(i, 3);\n\t\ti += 3;\n\t}\n\n\treturn newStr;\n}\n\nfunction _normalizeComponentEncoding(components:URIComponents, protocol:URIRegExps) {\n\tfunction decodeUnreserved(str:string):string {\n\t\tconst decStr = pctDecChars(str);\n\t\treturn (!decStr.match(protocol.UNRESERVED) ? str : decStr);\n\t}\n\n\tif (components.scheme) components.scheme = String(components.scheme).replace(protocol.PCT_ENCODED, decodeUnreserved).toLowerCase().replace(protocol.NOT_SCHEME, \"\");\n\tif (components.userinfo !== undefined) components.userinfo = String(components.userinfo).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_USERINFO, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);\n\tif (components.host !== undefined) components.host = String(components.host).replace(protocol.PCT_ENCODED, decodeUnreserved).toLowerCase().replace(protocol.NOT_HOST, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);\n\tif (components.path !== undefined) components.path = String(components.path).replace(protocol.PCT_ENCODED, decodeUnreserved).replace((components.scheme ? protocol.NOT_PATH : protocol.NOT_PATH_NOSCHEME), pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);\n\tif (components.query !== undefined) components.query = String(components.query).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_QUERY, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);\n\tif (components.fragment !== undefined) components.fragment = String(components.fragment).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);\n\n\treturn components;\n};\n\nfunction _stripLeadingZeros(str:string):string {\n\treturn str.replace(/^0*(.*)/, \"$1\") || \"0\";\n}\n\nfunction _normalizeIPv4(host:string, protocol:URIRegExps):string {\n\tconst matches = host.match(protocol.IPV4ADDRESS) || [];\n\tconst [, address] = matches;\n\n\tif (address) {\n\t\treturn address.split(\".\").map(_stripLeadingZeros).join(\".\");\n\t} else {\n\t\treturn host;\n\t}\n}\n\nfunction _normalizeIPv6(host:string, protocol:URIRegExps):string {\n\tconst matches = host.match(protocol.IPV6ADDRESS) || [];\n\tconst [, address, zone] = matches;\n\n\tif (address) {\n\t\tconst [last, first] = address.toLowerCase().split('::').reverse();\n\t\tconst firstFields = first ? first.split(\":\").map(_stripLeadingZeros) : [];\n\t\tconst lastFields = last.split(\":\").map(_stripLeadingZeros);\n\t\tconst isLastFieldIPv4Address = protocol.IPV4ADDRESS.test(lastFields[lastFields.length - 1]);\n\t\tconst fieldCount = isLastFieldIPv4Address ? 7 : 8;\n\t\tconst lastFieldsStart = lastFields.length - fieldCount;\n\t\tconst fields = Array<string>(fieldCount);\n\n\t\tfor (let x = 0; x < fieldCount; ++x) {\n\t\t\tfields[x] = firstFields[x] || lastFields[lastFieldsStart + x] || '';\n\t\t}\n\n\tif (isLastFieldIPv4Address) {\n\t\tfields[fieldCount - 1] = _normalizeIPv4(fields[fieldCount - 1], protocol);\n\t}\n\n\tconst allZeroFields = fields.reduce<Array<{index:number,length:number}>>((acc, field, index) => {\n\t\tif (!field || field === \"0\") {\n\t\t\tconst lastLongest = acc[acc.length - 1];\n\t\t\tif (lastLongest && lastLongest.index + lastLongest.length === index) {\n\t\t\t\tlastLongest.length++;\n\t\t\t} else {\n\t\t\t\tacc.push({ index, length : 1 });\n\t\t\t}\n\t\t}\n\t\treturn acc;\n\t}, []);\n\n\tconst longestZeroFields = allZeroFields.sort((a, b) => b.length - a.length)[0];\n\n\tlet newHost:string;\n\tif (longestZeroFields && longestZeroFields.length > 1) {\n\t\tconst newFirst = fields.slice(0,
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longestZeroFields.index) ;\n\t\t\tconst newLast = fields.slice(longestZeroFields.index + longestZeroFields.length);\n\t\t\tnewHost = newFirst.join(\":\") + \"::\" + newLast.join(\":\");\n\t\t} else {\n\t\t\tnewHost = fields.join(\":\");\n\t\t}\n\n\tif (zone) {\n\t\t\tnewHost += \"%\" + zone;\n\t\t}\n\n\treturn newHost;\n\t} else {\n\t\treturn host;\n\t}\n}\n\nconst URI_PARSE = /^(?:([^:\/?#]+):)?(?:\/\/((?:([^\/?#@]*)@)?(\[[^\/?#\]]+\]|[^\/?#:]*)(?:\:(\d*))?))?([^?#]*)(?:\?([^#]*))?(?:#((?:.|\n|\r)*))?/i;\nconst NO_MATCH_IS_UNDEFINED = (<RegExpMatchArray>(\"\").match(/(){0}/))[1] === undefined;\n\nexport function parse(uriString:string, options:URIOptions = {}):URIComponents {\n\tconst components:URIComponents = {};\n\tconst protocol = (options.iri !== false ? IRI_PROTOCOL : URI_PROTOCOL);\n\n\tif (options.reference === \"suffix\") uriString = (options.scheme ? options.scheme + \":\" : \"\") + \"//\" + uriString;\n\n\tconst matches = uriString.match(URI_PARSE);\n\n\tif (matches) {\n\t\tif (NO_MATCH_IS_UNDEFINED) {\n\t\t\t//store each component\n\t\t\tcomponents.scheme = matches[1];\n\t\t\tcomponents.userinfo = matches[3];\n\t\t\tcomponents.host = matches[4];\n\t\t\tcomponents.port = parseInt(matches[5], 10);\n\t\t\tcomponents.path = matches[6] || \"\";\n\t\t\tcomponents.query = matches[7];\n\t\t\tcomponents.fragment = matches[8];\n\n\t\t\t//fix port number\n\t\t\tif (isNaN(components.port)) {\n\t\t\t\tcomponents.port = matches[5];\n\t\t\t}\n\t} else { //IE FIX for improper RegExp matching\n\t\t\t//store each component\n\t\t\tcomponents.scheme = matches[1] || undefined;\n\t\t\tcomponents.userinfo = (uriString.indexOf(\"@\") !== -1 ? matches[3] : undefined);\n\t\t\tcomponents.host = (uriString.indexOf(\"//\") !== -1 ? matches[4] : undefined);\n\t\t\tcomponents.port = parseInt(matches[5], 10);\n\t\t\tcomponents.path = matches[6] || \"\";\n\t\t\tcomponents.query = (uriString.indexOf(\"?\") !== -1 ? matches[7] : undefined);\n\t\t\tcomponents.fragment = (uriString.indexOf(\"#\") !== -1 ? matches[8] : undefined);\n\n\t\t\t//fix port number\n\t\t\tif (isNaN(components.port)) {\n\t\t\t\tcomponents.port = (uriString.match(/\\/\/(?:.|\n)*\:(?:\/|\?|\#|$)/) ? matches[4] : undefined);\n\t\t\t}\n\t\t}\n\n\tif (components.host) {\n\t\t//normalize IP hosts\n\t\tcomponents.host = _normalizeIPv6(_normalizeIPv4(components.host, protocol), protocol);\n\t}\n\n\t//determine reference type\n\tif (components.scheme === undefined && components.userinfo === undefined && components.host === undefined && components.port === undefined && !components.path && components.query === undefined) {\n\t\tcomponents.reference = \"same-document\";\n\t} else if (components.scheme === undefined) {\n\t\tcomponents.reference = \"relative\";\n\t} else if (components.fragment === undefined) {\n\t\tcomponents.reference = \"absolute\";\n\t} else {\n\t\tcomponents.reference = \"uri\";\n\t}\n\n\t//check for reference errors\n\tif (options.reference && options.reference !== \"suffix\" && options.reference !== components.reference) {\n\t\tcomponents.error = components.error || \"URI is not a \" + options.reference + \" reference.\";\n\t}\n\n\t//find scheme handler\n\tconst schemeHandler = SCHEMES[(options.scheme || components.scheme || \"\").toLowerCase()];\n\n\t//check if scheme can't handle IRIs\n\tif (!options.unicodeSupport && (!schemeHandler || !schemeHandler.unicodeSupport)) {\n\t\t//if host component is a domain name\n\t\tif (components.host && (options.domainHost || (schemeHandler && schemeHandler.domainHost))) {\n\t\t\t//convert Unicode IDN -> ASCII IDN\n\t\t\ttry {\n\t\t\t\tcomponents.host = punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase());\n\t\t\t} catch (e) {\n\t\t\t\tcomponents.error = components.error || \"Host's domain name can not be converted to ASCII via punycode: \" + e;\n\t\t\t}\n\t\t}\n\t\t//convert IRI -> URI\n\t\t_normalizeComponentEncoding(components, URI_PROTOCOL);\n\t} else {\n\t\t//normalize encodings\n\t\t_normalizeComponentEncoding(components, protocol);\n\t}\n\n\t//perform scheme specific parsing\n\tif (schemeHandler && schemeHandler.parse) {\n\t\tschemeHandler.parse(components, options);\n\t}\n} else {\n\tcomponents.error = components.error || \"URI can not be parsed.\";\n}\n\nreturn components;\n};\n\nfunction _recomposeAuthority(components:URIComponents, options:URIOptions):string|undefined {\n\tconst protocol = (options.iri

!== false ? IRI_PROTOCOL : URI_PROTOCOL);\n\tconst uriTokens:Array<string> = [];\n\n\tif (components.userinfo !== undefined) {\n\t\turiTokens.push(components.userinfo);\n\t\turiTokens.push(\"@\");\n\t}\n\n\tif (components.host !== undefined) {\n\t\t//normalize IP hosts, add brackets and escape zone separator for IPv6\n\t\turiTokens.push(_normalizeIPv6(_normalizeIPv4(String(components.host), protocol), protocol).replace(protocol.IPV6ADDRESS, (_, $1, $2) => \"[\" + $1 + ($2 ? \"%25\" + $2 : \"\") + \"]\"));\n\t}\n\n\tif (typeof components.port === \"number\") {\n\t\turiTokens.push(\":\");\n\t\turiTokens.push(components.port.toString(10));\n\t}\n\n\treturn uriTokens.length ? uriTokens.join(\"\") : undefined;\n};\n\nconst RDS1 = /^\\.\\.?\\//;\nconst RDS2 = /^\\/\\.(\\/|$)/;\nconst RDS3 = /^\\/\\.\\.(\\/|$)/;\nconst RDS4 = /^\\.\\.?$/;\nconst RDS5 = /^\\/?(?:.|\\n)*?(?=\\/|$)/;\n\nexport function removeDotSegments(input:string):string {\n\tconst output:Array<string> = [];\n\n\twhile (input.length) {\n\t\tif (input.match(RDS1)) {\n\t\t\tinput = input.replace(RDS1, \"\");\n\t\t} else if (input.match(RDS2)) {\n\t\t\tinput = input.replace(RDS2, \"/\");\n\t\t} else if (input.match(RDS3)) {\n\t\t\tinput = input.replace(RDS3, \"/\");\n\t\t\toutput.pop();\n\t\t} else if (input === \".\" || input === \"..\") {\n\t\t\tinput = \"\";\n\t\t} else {\n\t\t\tconst im = input.match(RDS5);\n\t\t\tif (im) {\n\t\t\t\tconst s = im[0];\n\t\t\t\tinput = input.slice(s.length);\n\t\t\t\toutput.push(s);\n\t\t} else {\n\t\t\t\tthrow new Error(\"Unexpected dot segment condition\");\n\t\t\t}\n\t\t}\n\t}\n\treturn output.join(\"\");\n};\n\nexport function serialize(components:URIComponents, options:URIOptions = {}):string {\n\tconst protocol = (options.iri ? IRI_PROTOCOL : URI_PROTOCOL);\n\tconst uriTokens:Array<string> = [];\n\n\t//find scheme handler\n\tconst schemeHandler = SCHEMES[(options.scheme || components.scheme || \"\").toLowerCase()];\n\n\t//perform scheme specific serialization\n\tif (schemeHandler && schemeHandler.serialize) schemeHandler.serialize(components, options);\n\n\tif (components.host) {\n\t\t//if host component is an IPv6 address\n\t\tif (protocol.IPV6ADDRESS.test(components.host)) {\n\t\t\t//TODO: normalize IPv6 address as per RFC 5952\n\t\t}\n\n\t\t//if host component is a domain name\n\t\telse if (options.domainHost || (schemeHandler && schemeHandler.domainHost)) {\n\t\t\t//convert IDN via punycode\n\t\t\ttry {\n\t\t\t\tcomponents.host = (!options.iri ? punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase()) : punycode.toUnicode(components.host));\n\t\t\t} catch (e) {\n\t\t\t\tcomponents.error = components.error || \"Host's domain name can not be converted to \" + (!options.iri ? \"ASCII\" : \"Unicode\") + \" via punycode: \" + e;\n\t\t\t}\n\t\t}\n\t}\n\n\t//normalize encoding\n\t_normalizeComponentEncoding(components, protocol);\n\n\tif (options.reference !== \"suffix\" && components.scheme) {\n\t\turiTokens.push(components.scheme);\n\t\turiTokens.push(\":\");\n\t}\n\n\tconst authority = _recomposeAuthority(components, options);\n\tif (authority !== undefined) {\n\t\tif (options.reference !== \"suffix\") {\n\t\t\turiTokens.push(\"//\");\n\t\t}\n\n\t\turiTokens.push(authority);\n\n\t\tif (components.path && components.path.charAt(0) !== \"/\") {\n\t\t\turiTokens.push(\"/\");\n\t\t}\n\t}\n\n\tif (components.path !== undefined) {\n\t\tlet s = components.path;\n\n\t\tif (!options.absolutePath && (!schemeHandler || !schemeHandler.absolutePath)) {\n\t\t\ts = removeDotSegments(s);\n\t\t}\n\n\t\tif (authority === undefined) {\n\t\t\ts = s.replace(/^\\/\\//, \"/%2F\"); //don't allow the path to start with \"//\"\n\t\t}\n\n\t\turiTokens.push(s);\n\t}\n\n\tif (components.query !== undefined) {\n\t\turiTokens.push(\"?\");\n\t\turiTokens.push(components.query);\n\t}\n\n\tif (components.fragment !== undefined) {\n\t\turiTokens.push(\"#\");\n\t\turiTokens.push(components.fragment);\n\t}\n\n\treturn uriTokens.join(\"\"); //merge tokens into a string\n};\n\nexport function resolveComponents(base:URIComponents, relative:URIComponents, options:URIOptions = {}, skipNormalization?:boolean):URIComponents {\n\tconst target:URIComponents = {};\n\n\tif (!skipNormalization) {\n\t\tbase = parse(serialize(base, options), options); //normalize base components\n\t\trelative = parse(serialize(relative, options), options); //normalize relative components\n\t}\n\toptions = options || {};\n\n\tif (!options.tolerant && relative.scheme) {\n\t\ttarget.scheme = relative.scheme;\n\t\t//target.authority = relative.authority;\n\t\ttarget.userinfo = relative.userinfo;\n\t\ttarget.host = relative.host;\n\t\ttarget.port = relative.port;\n\t\ttarget.path = removeDotSegments(relative.path ||

\"\");\n\t\ttarget.query = relative.query;\n\t} else {\n\t\tif (relative.userinfo !== undefined || relative.host !== undefined || relative.port !== undefined) {\n\t\t\t//target.authority = relative.authority;\n\t\t\ttarget.userinfo = relative.userinfo;\n\t\t\ttarget.host = relative.host;\n\t\t\ttarget.port = relative.port;\n\t\t\ttarget.path = removeDotSegments(relative.path || \"\");\n\t\t\ttarget.query = relative.query;\n\t\t} else {\n\t\t\tif (!relative.path) {\n\t\t\t\ttarget.path = base.path;\n\t\t\t\tif (relative.query !== undefined) {\n\t\t\t\t\ttarget.query = relative.query;\n\t\t\t\t} else {\n\t\t\t\t\ttarget.query = base.query;\n\t\t\t\t}\n\t\t} else {\n\t\t\tif (relative.path.charAt(0) === \"/\") {\n\t\t\t\ttarget.path = removeDotSegments(relative.path);\n\t\t\t} else {\n\t\t\t\tif ((base.userinfo !== undefined || base.host !== undefined || base.port !== undefined) && !base.path) {\n\t\t\t\t\ttarget.path = \"/\" + relative.path;\n\t\t\t\t} else if (!base.path) {\n\t\t\t\t\ttarget.path = relative.path;\n\t\t\t\t} else {\n\t\t\t\t\ttarget.path = base.path.slice(0, base.path.lastIndexOf(\"/\") + 1) + relative.path;\n\t\t\t\t}\n\t\t\t\ttarget.path = removeDotSegments(target.path);\n\t\t\t}\n\t\t\ttarget.query = relative.query;\n\t\t}\n\t\t//target.authority = base.authority;\n\t\ttarget.userinfo = base.userinfo;\n\t\ttarget.host = base.host;\n\t\ttarget.port = base.port;\n\t}\n\ttarget.scheme = base.scheme;\n}\n\ntarget.fragment = relative.fragment;\n\treturn target;\n};\n\nexport function resolve(baseURI:string, relativeURI:string, options?:URIOptions):string {\n\tconst schemelessOptions = assign({ scheme : 'null' }, options);\n\treturn serialize(resolveComponents(parse(baseURI, schemelessOptions), parse(relativeURI, schemelessOptions), schemelessOptions, true), schemelessOptions);\n};\n\nexport function normalize(uri:string, options?:URIOptions):string;\nexport function normalize(uri:URIComponents, options?:URIOptions):URIComponents;\nexport function normalize(uri:any, options?:URIOptions):any {\n\tif (typeof uri === \"string\") {\n\t\turi = serialize(parse(uri, options), options);\n\t} else if (typeOf(uri) === \"object\") {\n\t\turi = parse(serialize(<URIComponents>uri, options), options);\n\t}\n\n\treturn uri;\n};\n\nexport function equal(uriA:string, uriB:string, options?: URIOptions):boolean;\nexport function equal(uriA:URIComponents, uriB:URIComponents, options?:URIOptions):boolean;\nexport function equal(uriA:any, uriB:any, options?:URIOptions):boolean {\n\tif (typeof uriA === \"string\") {\n\t\turiA = serialize(parse(uriA, options), options);\n\t} else if (typeOf(uriA) === \"object\") {\n\t\turiA = serialize(<URIComponents>uriA, options);\n\t}\n\n\tif (typeof uriB === \"string\") {\n\t\turiB = serialize(parse(uriB, options), options);\n\t} else if (typeOf(uriB) === \"object\") {\n\t\turiB = serialize(<URIComponents>uriB, options);\n\t}\n\n\treturn uriA === uriB;\n};\n\nexport function escapeComponent(str:string, options?:URIOptions):string {\n\treturn str && str.toString().replace((!options || !options.iri ? URI_PROTOCOL.ESCAPE : IRI_PROTOCOL.ESCAPE), pctEncChar);\n};\n\nexport function unescapeComponent(str:string, options?:URIOptions):string {\n\treturn str && str.toString().replace((!options || !options.iri ? URI_PROTOCOL.PCT_ENCODED : IRI_PROTOCOL.PCT_ENCODED), pctDecChars);\n};\n","'use strict';\n\n/** Highest positive signed 32-bit float value */\nconst maxInt = 2147483647; // aka. 0x7FFFFFFF or 2^31-1\n\n/** Bootstring parameters */\nconst base = 36;\nconst tMin = 1;\nconst tMax = 26;\nconst skew = 38;\nconst damp = 700;\nconst initialBias = 72;\nconst initialN = 128; // 0x80\nconst delimiter = '-'; // '\\x2D'\n\n/** Regular expressions */\nconst regexPunycode = /^xn--/;\nconst regexNonASCII = /[^\\0-\\x7E]/; // non-ASCII chars\nconst regexSeparators = /[\\x2E\\u3002\\uFF0E\\uFF61]/g; // RFC 3490 separators\n\n/** Error messages */\nconst errors = {\n\t'overflow': 'Overflow: input needs wider integers to process',\n\t'not-basic': 'Illegal input >= 0x80 (not a basic code point)',\n\t'invalid-input': 'Invalid input'\n};\n\n/** Convenience shortcuts */\nconst baseMinusTMin = base - tMin;\nconst floor = Math.floor;\nconst stringFromCharCode = String.fromCharCode;\n\n/*--*/\n\n/**\n * A generic error utility function.\n * @private\n * @param {String} type The error type.\n * @returns {Error} Throws a `RangeError` with the applicable error message.\n */\nfunction error(type) {\n\tthrow new RangeError(errors[type]);\n}\n\n/**\n * A generic `Array#map` utility function.\n * @private\n * @param {Array} array The array to iterate over.\n * @param {Function} callback The function that gets called for every array\n * item.\n * @returns {Array} A new array of values returned by the callback function.\n */\nfunction map(array, fn) {\n\tconst result = [];\n\tlet length = array.length;\n\twhile (length--) {\n\t\tresult[length] = fn(array[length]);\n\t}\n\treturn result;\n}\n\n/**\n * A simple `Array#map`-like wrapper to

work with domain name strings or email\n * addresses.\n * @private\n * @param {String} domain The domain name or email address.\n * @param {Function} callback The function that gets called for every\n * character.\n * @returns {Array} A new string of characters returned by the callback\n * function.\n */\nfunction mapDomain(string, fn) {\n\tconst parts = string.split('@');\n\tlet result = '';\n\tif (parts.length > 1) {\n\t\t// In email addresses, only the domain name should be punycoded. Leave\n\t\t// the local part (i.e. everything up to `@`) intact.\n\t\tresult = parts[0] + '@';\n\t\tstring = parts[1];\n\t}\n\t// Avoid `split(regex)` for IE8 compatibility. See #17.\n\tstring = string.replace(regexSeparators, '\\x2E');\n\tconst labels = string.split('.');\n\tconst encoded = map(labels, fn).join('.');\n\treturn result + encoded;\n}\n\n/**\n * Creates an array containing the numeric code points of each Unicode\n * character in the string. While JavaScript uses UCS-2 internally,\n * this function will convert a pair of surrogate halves (each of which\n * UCS-2 exposes as separate characters) into a single code point,\n * matching UTF-16.\n * @see `punycode.ucs2.encode`\n * @see <https://mathiasbynens.be/notes/javascript-encoding>\n * @memberOf punycode.ucs2\n * @name decode\n * @param {String} string The Unicode input string (UCS-2).\n * @returns {Array} The new array of code points.\n */\nfunction ucs2decode(string) {\n\tconst output = [];\n\tlet counter = 0;\n\tconst length = string.length;\n\twhile (counter < length) {\n\t\tconst value = string.charCodeAt(counter++);\n\t\tif (value >= 0xD800 && value <= 0xDBFF && counter < length) {\n\t\t\t// It's a high surrogate, and there is a next character.\n\t\t\tconst extra = string.charCodeAt(counter++);\n\t\t\tif ((extra & 0xFC00) == 0xDC00) { // Low surrogate.\n\t\t\t\toutput.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);\n\t\t} else {\n\t\t\t// It's an unmatched surrogate; only append this code unit, in case the\n\t\t\t// next code unit is the high surrogate of a surrogate pair.\n\t\t\toutput.push(value);\n\t\t\tcounter--;\n\t\t}\n\t} else {\n\t\toutput.push(value);\n\t}\n\treturn output;\n}\n\n/**\n * Creates a string based on an array of numeric code points.\n * @see `punycode.ucs2.decode`\n * @memberOf punycode.ucs2\n * @name encode\n * @param {Array} codePoints The array of numeric code points.\n * @returns {String} The new Unicode string (UCS-2).\n */\nconst ucs2encode = array => String.fromCodePoint(...array);\n\n/**\n * Converts a basic code point into a digit/integer.\n * @see `digitToBasic()`\n * @private\n * @param {Number} codePoint The basic numeric code point value.\n * @returns {Number} The numeric value of a basic code point (for use in\n * representing integers) in the range `0` to `base - 1`, or `base` if\n * the code point does not represent a value.\n */\nconst basicToDigit = function(codePoint) {\n\tif (codePoint - 0x30 < 0x0A) {\n\t\treturn codePoint - 0x16;\n\t}\n\tif (codePoint - 0x41 < 0x1A) {\n\t\treturn codePoint - 0x41;\n\t}\n\tif (codePoint - 0x61 < 0x1A) {\n\t\treturn codePoint - 0x61;\n\t}\n\treturn base;\n};\n\n/**\n * Converts a digit/integer into a basic code point.\n * @see `basicToDigit()`\n * @private\n * @param {Number} digit The numeric value of a basic code point.\n * @returns {Number} The basic code point whose value (when used for\n * representing integers) is `digit`, which needs to be in the range\n * `0` to `base - 1`. If `flag` is non-zero, the uppercase form is\n * used; else, the lowercase form is used. The behavior is undefined\n * if `flag` is non-zero and `digit` has no uppercase form.\n */\nconst digitToBasic = function(digit, flag) {\n\t// 0..25 map to ASCII a..z or A..Z\n\t// 26..35 map to ASCII 0..9\n\treturn digit + 22 + 75 * (digit < 26) - ((flag != 0) << 5);\n};\n\n/**\n * Bias adaptation function as per section 3.4 of RFC 3492.\n * https://tools.ietf.org/html/rfc3492#section-3.4\n * @private\n */\nconst adapt = function(delta, numPoints, firstTime) {\n\tlet k = 0;\n\tdelta = firstTime ? floor(delta / damp) : delta >> 1;\n\tdelta += floor(delta / numPoints);\n\tfor (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {\n\t\tdelta = floor(delta / baseMinusTMin);\n\t}\n\treturn floor(k + (baseMinusTMin + 1) * delta / (delta + skew));\n};\n\n/**\n * Converts a Punycode string of ASCII-only symbols to a string of Unicode\n * symbols.\n * @memberOf punycode\n * @param {String} input The Punycode string of ASCII-only symbols.\n * @returns {String} The resulting string of Unicode symbols.\n */\nconst decode = function(input) {\n\t// Don't use UCS-2.\n\tconst output = [];\n\tconst inputLength = input.length;\n\tlet i = 0;\n\tlet n = initialN;\n\tlet bias = initialBias;\n\n\t// Handle the basic code points: let `basic` be the number of input code\n\t// points before the last delimiter, or `0` if there is none, then copy\n\t// the first basic code points to the output.\n\n\tlet basic = input.lastIndexOf(delimiter);\n\tif (basic < 0) {\n\t\tbasic

= 0;\n\t}\n\n\tfor (let j = 0; j < basic; ++j) {\n\t\t// if it's not a basic code point\n\t\tif (input.charCodeAt(j) >= 0x80) {\n\t\t\terror('not-basic');\n\t\t}\n\t\toutput.push(input.charCodeAt(j));\n\t}\n\n\t// Main decoding loop: start just after the last delimiter if any basic code\n\t// points were copied; start at the beginning otherwise.\n\n\tfor (let index = basic > 0 ? basic + 1 : 0; index < inputLength; /* no final expression */) {\n\n\t\t// `index` is the index of the next character to be consumed.\n\t\t// Decode a generalized variable-length integer into `delta`,\n\t\t// which gets added to `i`. The overflow checking is easier\n\t\t// if we increase `i` as we go, then subtract off its starting\n\t\t// value at the end to obtain `delta`.\n\t\tlet oldi = i;\n\t\tfor (let w = 1, k = base; /* no condition */; k += base) {\n\n\t\t\tif (index >= inputLength) {\n\t\t\t\terror('invalid-input');\n\t\t\t}\n\n\t\t\tconst digit = basicToDigit(input.charCodeAt(index++));\n\n\t\t\tif (digit >= base || digit > floor((maxInt - i) / w)) {\n\t\t\t\terror('overflow');\n\t\t\t}\n\n\t\t\ti += digit * w;\n\t\t\tconst t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\n\t\t\tif (digit < t) {\n\t\t\t\tbreak;\n\t\t\t}\n\n\t\t\tconst baseMinusT = base - t;\n\t\t\tif (w > floor(maxInt / baseMinusT)) {\n\t\t\t\terror('overflow');\n\t\t\t}\n\n\t\t\tw *= baseMinusT;\n\n\t\t}\n\n\tconst out = output.length + 1;\n\tbias = adapt(i - oldi, out, oldi == 0);\n\n\t// `i` was supposed to wrap around from `out` to `0`,\n\t// incrementing `n` each time, so we'll fix that now:\n\tif (floor(i / out) > maxInt - n) {\n\t\terror('overflow');\n\t}\n\n\tn += floor(i / out);\n\ti %= out;\n\n\t// Insert `n` at position `i` of the output.\n\toutput.splice(i++, 0, n);\n\n}\n\nreturn String.fromCodePoint(...output);\n};\n\n/**\n * Converts a string of Unicode symbols (e.g. a domain name label) to a\n * Punycode string of ASCII-only symbols.\n * @memberOf punycode\n * @param {String} input The string of Unicode symbols.\n * @returns {String} The resulting Punycode string of ASCII-only symbols.\n */\nconst encode = function(input) {\n\tconst output = [];\n\n\t// Convert the input in UCS-2 to an array of Unicode code points.\n\tinput = ucs2decode(input);\n\n\t// Cache the length.\n\tlet inputLength = input.length;\n\n\t// Initialize the state.\n\tlet n = initialN;\n\tlet delta = 0;\n\tlet bias = initialBias;\n\n\t// Handle the basic code points.\n\tfor (const currentValue of input) {\n\t\tif (currentValue < 0x80) {\n\t\t\toutput.push(stringFromCharCode(currentValue));\n\t\t}\n\t}\n\n\tlet basicLength = output.length;\n\tlet handledCPCount = basicLength;\n\n\t// `handledCPCount` is the number of code points that have been handled;\n\t// `basicLength` is the number of basic code points.\n\n\t// Finish the basic string with a delimiter unless it's empty.\n\tif (basicLength) {\n\t\toutput.push(delimiter);\n\t}\n\n\t// Main encoding loop:\n\twhile (handledCPCount < inputLength) {\n\n\t\t// All non-basic code points < n have been handled already. Find the next\n\t\t// larger one:\n\t\tlet m = maxInt;\n\t\tfor (const currentValue of input) {\n\t\t\tif (currentValue >= n && currentValue < m) {\n\t\t\t\tm = currentValue;\n\t\t\t}\n\t\t}\n\n\t\t// Increase `delta` enough to advance the decoder's <n,i> state to <m,0>,\n\t\t// but guard against overflow.\n\t\tconst handledCPCountPlusOne = handledCPCount + 1;\n\t\tif (m - n > floor((maxInt - delta) / handledCPCountPlusOne)) {\n\t\t\terror('overflow');\n\t\t}\n\n\t\tdelta += (m - n) * handledCPCountPlusOne;\n\t\tn = m;\n\n\t\tfor (const currentValue of input) {\n\t\t\tif (currentValue < n && ++delta > maxInt) {\n\t\t\t\terror('overflow');\n\t\t\t}\n\t\t\tif (currentValue == n) {\n\t\t\t\t// Represent delta as a generalized variable-length integer.\n\t\t\t\tlet q = delta;\n\t\t\t\tfor (let k = base; /* no condition */; k += base) {\n\t\t\t\t\tconst t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\t\t\t\t\tif (q < t) {\n\t\t\t\t\t\tbreak;\n\t\t\t\t\t}\n\t\t\t\t\tconst qMinusT = q - t;\n\t\t\t\t\tconst baseMinusT = base - t;\n\t\t\t\t\toutput.push(\n\t\t\t\t\t\tstringFromCharCode(digitToBasic(t + qMinusT % baseMinusT, 0))\n\t\t\t\t\t);\n\t\t\t\t\tq = floor(qMinusT / baseMinusT);\n\t\t\t\t}\n\n\t\t\t\toutput.push(stringFromCharCode(digitToBasic(q, 0)));\n\t\t\t\tbias = adapt(delta, handledCPCountPlusOne, handledCPCount == basicLength);\n\t\t\t\tdelta = 0;\n\t\t\t\t++handledCPCount;\n\t\t\t}\n\t\t}\n\n\t\t++delta;\n\t\t++n;\n\n\t}\n\treturn output.join('');\n};\n\n/**\n * Converts a Punycode string representing a domain name or an email address\n * to Unicode. Only the Punycoded parts of the input will be converted, i.e.\n * it doesn't matter if you call it on a string that has already been\n * converted to Unicode.\n * @memberOf punycode\n * @param {String} input The Punycoded domain name or email address to\n * convert to Unicode.\n * @returns {String} The Unicode representation of the given Punycode\n * string.\n */\nconst toUnicode = function(input) {\n\treturn mapDomain(input, function(string) {\n\t\treturn regexPunycode.test(string)\n\t\t?

decode(string.slice(4).toLowerCase())\n\t\t\t: string;\n\t});\n};\n\n/**\n * Converts a Unicode string representing a domain name or an email address to\n * Punycode. Only the non-ASCII parts of the domain name will be converted,\n * i.e. it doesn't matter if you call it with a domain that's already in\n * ASCII.\n * @memberOf punycode\n * @param {String} input The domain name or email address to convert, as a\n * Unicode string.\n * @returns {String} The Punycode representation of the given domain name or\n * email address.\n */\nconst toASCII = function(input) {\n\treturn mapDomain(input, function(string) {\n\t\treturn regexNonASCII.test(string)\n\t\t\t? 'xn--' + encode(string)\n\t\t\t: string;\n\t});\n};\n\n/*--*/\n\n/**
Define the public API */\nconst punycode = {\n\t/**\n\t * A string representing the current Punycode.js version number.\n\t * @memberOf punycode\n\t * @type String\n\t */\n\t'version': '2.1.0',\n\t/**\n\t * An object of methods to convert from JavaScript's internal character\n\t * representation (UCS-2) to Unicode code points, and back.\n\t * @see <https://mathiasbynens.be/notes/javascript-encoding>\n\t * @memberOf punycode\n\t * @type Object\n\t */\n\t'ucs2': {\n\t\t'decode': ucs2decode,\n\t\t'encode': ucs2encode\n\t},\n\t'decode': decode,\n\t'encode': encode,\n\t'toASCII': toASCII,\n\t'toUnicode': toUnicode\n};\n\nexport default punycode;\n","import { URIRegExps } from \"./uri\";\nimport { buildExps } from \"./regexps-uri\";\n\nexport default buildExps(true);\n","import { URIRegExps } from \"./uri\";\nimport { merge, subexp } from \"./util\";\n\nexport function buildExps(isIRI:boolean):URIRegExps {\n\tconst\n\t\tALPHA$$ = \"[A-Za-z]\",\n\t\tCR$ = \"[\\\\x0D]\",\n\t\tDIGIT$$ = \"[0-9]\",\n\t\tDQUOTE$$
= \"[\\\\x22]\",\n\t\tHEXDIG$$ = merge(DIGIT$$, \"[A-Fa-f]\"), //case-insensitive\n\t\tLF$$ = \"[\\\\x0A]\",\n\t\tSP$$ = \"[\\\\x20]\",\n\t\tPCT_ENCODED$ = subexp(subexp(\"%[EFef]\" + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%[89A-Fa-f]\" + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%\" + HEXDIG$$ + HEXDIG$$)),
//expanded\n\t\tGEN_DELIMS$$ = \"[\\\\:\\\\/\\\\?\\\\#\\\\[\\\\]\\\\@]\",\n\t\tSUB_DELIMS$$ = \"[\\\\!\\\\$\\\\&\\\\'\\\\(\\\\)*\\\\+\\\\,\\\\;\\\\=]\",\n\t\tRESERVED$$ = merge(GEN_DELIMS$$, SUB_DELIMS$$),\n\t\tUCSCHAR$$ = isIRI ? \"[\\\\xA0-\\\\u200D\\\\u2010-\\\\u2029\\\\u202F-\\\\uD7FF\\\\uF900-\\\\uFDCF\\\\uFDF0-\\\\uFFEF]\" : \"[]\", //subset, excludes bidi control characters\n\t\tIPRIVATE$$ = isIRI ? \"[\\\\uE000-\\\\uF8FF]\" : \"[]\", //subset\n\t\tUNRESERVED$$ = merge(ALPHA$$, DIGIT$$, \"[\\\\-\\\\._\\\\~]\", UCSCHAR$$),\n\t\tSCHEME$ = subexp(ALPHA$$ + merge(ALPHA$$, DIGIT$$, \"[\\\\+\\\\-\\\\.]\")
+ \"*\"),\n\t\tUSERINFO$ = subexp(subexp(PCT_ENCODED$ + \"|\" + merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:]\")) + \"*\"),\n\t\tDEC_OCTET$ = subexp(subexp(\"25[0-5]\") + \"|\" + subexp(\"2[0-4]\" + DIGIT$$) + \"|\" + subexp(\"1\" + DIGIT$$ + DIGIT$$) + \"|\" + subexp(\"[1-9]\" + DIGIT$$) + \"|\" + DIGIT$$),\n\t\tDEC_OCTET_RELAXED$ = subexp(subexp(\"25[0-5]\") + \"|\" + subexp(\"2[0-4]\" + DIGIT$$) + \"|\" + subexp(\"1\" + DIGIT$$ + DIGIT$$) + \"|\" + subexp(\"0?[1-9]\" + DIGIT$$) + \"|0?0?\" + DIGIT$$),
//relaxed parsing rules\n\t\tIPV4ADDRESS$ = subexp(DEC_OCTET_RELAXED$ + \"\\\\.\" + DEC_OCTET_RELAXED$ + \"\\\\.\" + DEC_OCTET_RELAXED$ + \"\\\\.\" + DEC_OCTET_RELAXED$),\n\t\tH16$ = subexp(HEXDIG$$ + \"{1,4}\"),\n\t\tLS32$ = subexp(subexp(H16$ + \"\\\\:\" + H16$) + \"|\" + IPV4ADDRESS$),\n\t\tIPV6ADDRESS1$ = subexp(
subexp(H16$ + \"\\\\:\") + \"{6}\" + LS32$), //   6(h16 \":\") ls32\n\t\tIPV6ADDRESS2$
= subexp(\"\\\\:\\\\:\" + subexp(H16$ + \"\\\\:\") + \"{5}\" + LS32$), //
\"::\" 5(h16 \":\") ls32\n\t\tIPV6ADDRESS3$ = subexp(subexp(H16$) + \"?\\\\:\\\\:\" + subexp(H16$ + \"\\\\:\") + \"{4}\" + LS32$), //[h16] \"::\" 4(h16 \":\") ls32\n\t\tIPV6ADDRESS4$ = subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,1}\" + H16$) + \"?\\\\:\\\\:\" + subexp(H16$ + \"\\\\:\") + \"{3}\" + LS32$), //[*1(h16 \":\") h16] \"::\" 3(h16 \":\") ls32\n\t\tIPV6ADDRESS5$ = subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,2}\" + H16$) + \"?\\\\:\\\\:\" + subexp(H16$ + \"\\\\:\") + \"{2}\" + LS32$), //[*2(h16 \":\") h16] \"::\" 2(h16 \":\") ls32\n\t\tIPV6ADDRESS6$ = subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,3}\" + H16$) + \"?\\\\:\\\\:\" +   H16$ + \"\\\\:\"   + LS32$), //[*3(h16 \":\") h16] \"::\"   h16 \":\"
ls32\n\t\tIPV6ADDRESS7$ = subexp(subexp(subexp(H16$

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 + \"\\\\:\") + \"{0,4}\" + H16$) + \"?\\\\:\\\\:\"                    + LS32$), //[ *4( h16 \":\" ) h16 ] \"::\"
ls32\n\t\tIPV6ADDRESS8$ = subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,5}\" + H16$) + \"?\\\\:\\\\:\"
          + H16$ ), //[ *5( h16 \":\" ) h16 ] \"::\"          h16\n\t\tIPV6ADDRESS9$ = subexp(subexp(subexp(H16$ +
\"\\\\:\") + \"{0,6}\" + H16$) + \"?\\\\:\\\\:\"                    ), //[ *6( h16 \":\" ) h16 ]
\"::\"\n\t\tIPV6ADDRESS$ = subexp([IPV6ADDRESS1$, IPV6ADDRESS2$, IPV6ADDRESS3$,
IPV6ADDRESS4$, IPV6ADDRESS5$, IPV6ADDRESS6$, IPV6ADDRESS7$, IPV6ADDRESS8$,
IPV6ADDRESS9$].join(\"|\")),\n\t\tZONEID$ = subexp(subexp(UNRESERVED$$ + \"|\" + PCT_ENCODED$) +
\"+\"),  //RFC 6874\n\t\tIPV6ADDRZ$ = subexp(IPV6ADDRESS$ + \"\\\\%25\" + ZONEID$),  //RFC
6874\n\t\tIPV6ADDRZ_RELAXED$ = subexp(IPV6ADDRESS$ + subexp(\"\\\\%25|\\\\%(?!\" + HEXDIG$$ +
\"{2})\") + ZONEID$),  //RFC 6874, with relaxed
 parsing rules\n\t\tIPVFUTURE$ = subexp(\"[vV]\" + HEXDIG$$ + \"+\\\\.\" + merge(UNRESERVED$$,
SUB_DELIMS$$, \"[\\\\:]\") + \"+\"),\n\t\tIP_LITERAL$ = subexp(\"\\\\[\" + subexp(IPV6ADDRZ_RELAXED$ +
\"|\" + IPV6ADDRESS$ + \"|\" + IPVFUTURE$) + \"\\\\]\"),  //RFC 6874\n\t\tREG_NAME$ =
subexp(subexp(PCT_ENCODED$ + \"|\" + merge(UNRESERVED$$, SUB_DELIMS$$)) + \"*\"),\n\t\tHOST$ =
subexp(IP_LITERAL$ + \"|\" + IPV4ADDRESS$ + \"(?!\" + REG_NAME$ + \")\" + \"|\" +
REG_NAME$),\n\t\tPORT$ = subexp(DIGIT$$ + \"*\"),\n\t\tAUTHORITY$ = subexp(subexp(USERINFO$ +
\"@\") + \"?\" + HOST$ + subexp(\"\\\\:\" + PORT$) + \"?\"),\n\t\tPCHAR$ = subexp(PCT_ENCODED$ + \"|\" +
merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:\\\\@]\")),\n\t\tSEGMENT$ = subexp(PCHAR$ +
\"*\"),\n\t\tSEGMENT_NZ$ = subexp(PCHAR$ + \"+\"),\n\t\tSEGMENT_NZ_NC$ =
subexp(subexp(PCT_ENCODED$ + \"|\" + merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\@]\")) +
\"+\"),\n\t\tPATH_ABEMPTY$ = subexp(subexp(\"\\\\/\" + SEGMENT$) + \"*\"),\n\t\tPATH_ABSOLUTE$
 = subexp(\"\\\\/\" + subexp(SEGMENT_NZ$ + PATH_ABEMPTY$) + \"?\"),
//simplified\n\t\tPATH_NOSCHEME$ = subexp(SEGMENT_NZ_NC$ + PATH_ABEMPTY$),
//simplified\n\t\tPATH_ROOTLESS$ = subexp(SEGMENT_NZ$ + PATH_ABEMPTY$),
//simplified\n\t\tPATH_EMPTY$ = \"(?!\" + PCHAR$ + \")\",\n\t\tPATH$ = subexp(PATH_ABEMPTY$ + \"|\" +
PATH_ABSOLUTE$ + \"|\" + PATH_NOSCHEME$ + \"|\" + PATH_ROOTLESS$ + \"|\" +
PATH_EMPTY$),\n\t\tQUERY$ = subexp(subexp(PCHAR$ + \"|\" + merge(\"[\\\\/\\\\?]\", IPRIVATE$$)) +
\"*\"),\n\t\tFRAGMENT$ = subexp(subexp(PCHAR$ + \"|[\\\\/\\\\?]\") + \"*\"),\n\t\tHIER_PART$ =
subexp(subexp(\"\\\\/\\\\/\" + AUTHORITY$ + PATH_ABEMPTY$) + \"|\" + PATH_ABSOLUTE$ + \"|\" +
PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$),\n\t\tURI$ = subexp(SCHEME$ + \"\\\\:\" + HIER_PART$ +
subexp(\"\\\\?\" + QUERY$) + \"?\" + subexp(\"\\\\#\" + FRAGMENT$) + \"?\"),\n\t\tRELATIVE_PART$ =
subexp(subexp(\"\\\\/\\\\/\" + AUTHORITY$ + PATH_ABEMPTY$) + \"|\" + PATH_ABSOLUTE$ + \"|\" +
PATH_NOSCHEME$ + \"|\" + PATH_EMPTY$),\n\t\tRELATIVE$
 = subexp(RELATIVE_PART$ + subexp(\"\\\\?\" + QUERY$) + \"?\" + subexp(\"\\\\#\" + FRAGMENT$) +
\"?\"),\n\t\tURI_REFERENCE$ = subexp(URI$ + \"|\" + RELATIVE$),\n\t\tABSOLUTE_URI$ =
subexp(SCHEME$ + \"\\\\:\" + HIER_PART$ + subexp(\"\\\\?\" + QUERY$) + \"?\"),\n\n\t\tGENERIC_REF$ =
\"^(\" + SCHEME$ + \")\\\\:\" + subexp(subexp(\"\\\\/\\\\/(\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" +
HOST$ + \")\" + subexp(\"\\\\:(\" + PORT$ + \")\") + \"?)\") + \"?(\" + PATH_ABEMPTY$ + \"|\" +
PATH_ABSOLUTE$ + \"|\" + PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$ + \")\") + subexp(\"\\\\?(\" +
QUERY$ + \")\") + \"?\" + subexp(\"\\\\#(\" + FRAGMENT$ + \")\") + \"?$\",\n\t\tRELATIVE_REF$ = \"^(){0}\" +
subexp(subexp(\"\\\\/\\\\/(\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" + HOST$ + \")\" + subexp(\"\\\\:(\" +
PORT$ + \")\") + \"?)\") + \"?(\" + PATH_ABEMPTY$ + \"|\" + PATH_ABSOLUTE$ + \"|\" +
PATH_NOSCHEME$ + \"|\" + PATH_EMPTY$ + \")\") + subexp(\"\\\\?(\" + QUERY$ + \")\") + \"?\"
 + subexp(\"\\\\#(\" + FRAGMENT$ + \")\") + \"?$\",\n\t\tABSOLUTE_REF$ = \"^(\" + SCHEME$ + \")\\\\:\" +
subexp(subexp(\"\\\\/\\\\/(\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" + HOST$ + \")\" + subexp(\"\\\\:(\" +
PORT$ + \")\") + \"?)\") + \"?(\" + PATH_ABEMPTY$ + \"|\" + PATH_ABSOLUTE$ + \"|\" +
PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$ + \")\") + subexp(\"\\\\?(\" + QUERY$ + \")\") +
\"?$\",\n\t\tSAMEDOC_REF$ = \"^\" + subexp(\"\\\\#(\" + FRAGMENT$ + \")\") +
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\"?$\",\n\t\tAUTHORITY_REF$ = \"^\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" + HOST$ + \")\" + subexp(\"\\\\:(\" + PORT$ + \")\") + \"?$\"\n\t;\n\n\treturn {\n\t\tNOT_SCHEME : new RegExp(merge(\"[^]\", ALPHA$$, DIGIT$$, \"[\\\\+\\\\-\\\\.]\"), \"g\"),\n\t\tNOT_USERINFO : new RegExp(merge(\"[^\\\\%\\\\:]\", UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tNOT_HOST : new RegExp(merge(\"[^\\\\%\\\\[\\\\]\\\\:]\", UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tNOT_PATH : new RegExp(merge(\"[^\\\\%\\\\/\\\\:\\\\@]\", UNRESERVED$$, SUB_DELIMS$$),
\"g\"),\n\t\tNOT_PATH_NOSCHEME : new RegExp(merge(\"[^\\\\%\\\\/\\\\@]\", UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tNOT_QUERY : new RegExp(merge(\"[^\\\\%]\", UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:\\\\@\\\\/\\\\?]\", IPRIVATE$$), \"g\"),\n\t\tNOT_FRAGMENT : new RegExp(merge(\"[^\\\\%]\", UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:\\\\@\\\\/\\\\?]\"), \"g\"),\n\t\tESCAPE : new RegExp(merge(\"[^]\", UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tUNRESERVED : new RegExp(UNRESERVED$$, \"g\"),\n\t\tOTHER_CHARS : new RegExp(merge(\"[^\\\\%]\", UNRESERVED$$, RESERVED$$), \"g\"),\n\t\tPCT_ENCODED : new RegExp(PCT_ENCODED$, \"g\"),\n\t\tIPV4ADDRESS : new RegExp(\"^(\" + IPV4ADDRESS$ + \")$\"),\n\t\tIPV6ADDRESS : new RegExp(\"^\\\\[?(\" + IPV6ADDRESS$ + \")\" + subexp(subexp(\"\\\\%25|\\\\%(?!\" + HEXDIG$$ + \"{2})\") + \"(\" + ZONEID$ + \")\") + \"?\\\\]?$\")
//RFC 6874, with relaxed parsing rules\n\t};\n}\n\nexport default buildExps(false);\n","export function merge(...sets:Array<string>):string
{\n\tif (sets.length > 1) {\n\t\tsets[0] = sets[0].slice(0, -1);\n\t\tconst xl = sets.length - 1;\n\t\tfor (let x = 1; x < xl; ++x) {\n\t\t\tsets[x] = sets[x].slice(1, -1);\n\t\t}\n\t\tsets[xl] = sets[xl].slice(1);\n\treturn sets.join('');\n\t} else {\n\treturn sets[0];\n\t}\n}\n\nexport function subexp(str:string):string {\n\treturn \"(?:\" + str + \")\";\n}\n\nexport function typeOf(o:any):string {\n\treturn o === undefined ? \"undefined\" : (o === null ? \"null\" : Object.prototype.toString.call(o).split(\" \").pop().split(\"]\").shift().toLowerCase());\n}\n\nexport function toUpperCase(str:string):string {\n\treturn str.toUpperCase();\n}\n\nexport function toArray(obj:any):Array<any> {\n\treturn obj !== undefined && obj !== null ? (obj instanceof Array ? obj : (typeof obj.length !== \"number\" || obj.split || obj.setInterval || obj.call ? [obj] : Array.prototype.slice.call(obj))) : [];\n}\n\n\nexport function assign(target: object, source: any): any {\n\tconst obj = target as
any;\n\tif (source) {\n\t\tfor (const key in source) {\n\t\t\tobj[key] = source[key];\n\t\t}\n\t}\n\treturn obj;\n}"],"names":["SCHEMES","uuid","scheme","urn","mailto","https","http","urnComponents","nss","uuidComponents","toLowerCase","options","error","tolerant","match","UUID","undefined","handler","uriComponents","path","nid","schemeHandler","serialize","urnScheme","parse","matches","components","URN_PARSE","query","fields","join","length","push","name","replace","PCT_ENCODED","decodeUnreserved","toUpperCase","NOT_HFNAME","pctEncChar","headers","NOT_HFVALUE","O","mailtoComponents","body","subject","to","x","localPart","domain","iri","e","punycode","toASCII","unescapeComponent","toUnicode","toAddr","slice","atIdx","NOT_LOCAL_PART","lastIndexOf","String","xl","toArray","addr","unicodeSupport","split","unknownHeaders","hfield","toAddrs","hfields","decStr","UNRESERVED","str","pctDecChars","RegExp","merge","UNRESERVED$$","SOME_DELIMS$$","ATEXT$$","VCHAR$$","PCT_ENCODED$","QTEXT$$","subexp","HEXDIG$$","isIRI","domainHost","port","host","toString","URI_PROTOCOL","IRI_PROTOCOL","ESCAPE","escapeComponent","uriA","uriB","typeOf","equal","uri","normalize","resolveComponents","baseURI","schemelessOptions","relativeURI","assign","resolve","target","fragment","relative","base","userinfo","removeDotSegments","charAt","skipNormalization","uriTokens","s","authority","absolutePath","reference","_recomposeAuthority","protocol","IPV6ADDRESS","test","output","Error","input","im","RDS5","pop","RDS3","RDS2","RDS1","$1","$2","_normalizeIPv6","_normalizeIPv4","_","uriString","isNaN","indexOf","parseInt","NO_MATCH_IS_UNDEFINED","URI_PARSE","newHost","zone","newFirst","newLast","longestZeroFields","index","b","a","allZeroFields","sort","acc","lastLongest","field","reduce","fieldCount","isLastFieldIPv4Address","firstFields","lastFields","lastFieldsStart","Array","IPV4ADDRESS","last","map","_stripLeadingZeros","first","address","reverse","NOT_FRAGMENT","NOT_QUERY","NOT_PATH","NOT_PATH_NOSCHEME","NOT_HOST","NOT_USERINFO","NOT_SCHEME","_normalizeComponentEncoding","newStr","substr","i","fromCharCode","c","c2","c3","il","chr","charCodeAt","encode","decode","ucs2encode","ucs2decode","regexNonASCII","string","mapDomain","regexPunycode","n","delta","handledCPCount","adapt","handledCP

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ASL,OAAOK,MAAP,CADL,GAEJA,MAFH;EADM,CAAP;CADD;;;;;AAWA,IAAM7I,WAAW;;;;;;YAML,OANK;;;;;;;;SAcR;YACG2I,UADH;YAEGD;EAhBK;WAkBND,MAlBM;WAmBND,MAnBM;YAoBLvI,OApBK;cAqBHE;CArBd,CAwBA;;ADvbA;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;AAoCA,AACA,AACA,AACA,AAiDA,AAAO,IAAMvD,UAA6C,EAAnD;AAEP,AAAO,IAAMwD,SAAS,SAATA,MAAS,CAAAC,KAAK,EAAI;EAC7B,IAAIC,MAAM,EAAV;EACA,KAAK,IAAIC,IAAI,CAAb,EAAgBA,IAAIF,KAApB,EAA2BE,GAA3B,EAAgC;IAC9BD,OAAO,GAAP;;;EAGF,OAAOA,GAAP;CAPK;;AAUP,AAAO,IAAME,WAAW,SAAXA,QAAW,CAAAC,MAAM,EAAI;EAChC,IAAIC,QAAQ,EAAZ;EACA,KAAK,IAAIH,IAAI,CAAb,EAAgBA,IAAIE,MAApB,EAA4BF,GAA5B,EAAiC;IAC/BG,SAAS,GAAT;;;EAGF,OAAOA,KAAP;CAPK;;AAUP,AAAO,IAAMC,WAAW,SAAXA,QAAW,CAAAC,MAAM,EAAI;EAChC,IAAIC,QAAQ,EAAZ;EACA,KAAK,IAAIP,IAAI,CAAb,EAAgBA,IAAIM,MAApB,EAA4BN,GAA5B,EAAiC;IAC/BO,SAAS,GAAT;;;EAGF,OAAOA,KAAP;CAPK;;AAUP,AAAO,IAAMC,WAAW,SAAXA,QAAW,CAAAF,MAAM,EAAI;EAChC,IAAIC,QAAQ,EAAZ;EACA,KAAK,IAAIP,IAAI,CAAb,EAAgBA,IAAIM,MAApB,EAA4BN,GAA5B,EAAiC;IAC/BO,SAAS,GAAT;;;EAGF,OAAOA,KAAP;CAPK;;AAUP,AAAO,IAAME,WAAW,SAAXA,QAAW,CAAAH,MAAM,EAAI;EAChC,IAAIC,QAAQ,EAAZ;EACA,KAAK,IAAIP,IAAI,CAAb,EAAgBA,IAAIM,MAApB,EAA4BN,GAA5B,EAAiC;IAC/BO,SAAS,GAAT;;;EAGF,OAAOA,KAAP;CAPK;;AAUP,AAAO,IAAMG,WAAW,SAAXA,QAAW,CAAAJ,MAAM,EAAI;EAChC,IAAIC,QAAQ,EAAZ;EACA,KAAK,IAAIP,IAAI,CAAb,EAAgBA,IAAIM,MAApB,EAA4BN,GAA5B,EAAiC;IAC/BO,SAAS,GAAT;;;EAGF,OAAOA,KAAP;CAPK;;AAUP,AAAO,IAAMI,WAAW,SAAXA,QAAW,CAAAL,MAAM,EAAI;EAChC,IAAIC,QAAQ,EAAZ;EACA,KAAK,IAAIP,IAAI,CAAb,EAAgBA,IAAIM,MAApB,EAA4BN,GAA5B,EAAiC;IAC/BO,SAAS,GAAT;;;EAGF,OAAOA,KAAP;CAPK;;AAUP,AAAO,IAAMK,WAAW,SAAXA,QAAW,CAAAN,MAAM,EAAI;EAChC,IAAIC,QAAQ,EAAZ;EACA,KAAK,IAAIP,IAAI,CAAb,EAAgBA,IAAIM,MAApB,EAA4BN,GAA5B,EAAiC;IAC/BO,SAAS,GAAT;;;EAGF,OAAOA,KAAP;CAPK;;AAUP,AAAO,IAAMM,WAAW,SAAXA,QAAW,CAAAP,MAAM,EAAI;EAChC,IAAIC,QAAQ,EAAZ;EACA,KAAK,IAAIP,IAAI,CAAb,EAAgBA,IAAIM,MAApB,EAA4BN,GAA5B,EAAiC;IAC/BO,SAAS,GAAT;;;EAGF,OAAOA,KAAP;CAPK;;AAUP,AAAO,IAAMO,WAAW,SAAXA,QAAW,CAAAR,MAAM,EAAI;EAChC,IAAIC,QAAQ,EAAZ;EACA,KAAK,IAAIP,IAAI,CAAb,EAAgBA,IAAIM,MAApB,EAA4BN,GAA5B,EAAiC;IAC/BO,SAAS,GAAT;;;EAGF,OAAOA,KAAP;CAPK;;AAUP,AAAO,IAAMQ,WAAW,SAAXA,QAAW,CAAAT,MAAM,EAAI;EAChC,IAAIC,QAAQ,EAAZ;EACA,KAAK,IAAIP,IAAI,CAAb,EAAgBA,IAAIM,MAApB,EAA4BN,GAA5B,EAAiC;IAC/BO,SAAS,GAAT;;;EAGF,OAAOA,KAAP;CAPK;;AAUP,AAAO,IAAMS,WAAW,SAAXA,QAAW,CAAAV,MAAM,EAAI;EAChC,IAAIC,QAAQ,EAAZ;EACA,KAAK,IAAIP,IAAI,CAAb,EAAgBA,IAAIM,MAApB,EAA4BN,GAA5B,EAAiC;IAC/BO,SAAS,GAAT;;;EAGF,OAAOA,KAAP;CAPK;;AAUP,AAAO,IAAMU,WAAW,SAAXA,QAAW,CAAAX,MAAM,EAAI;EAChC,IAAIC,QAAQ,EAAZ;EACA,KAAK,IAAIP,IAAI,CAAb,EAAgBA,IAAIM,MAApB,EAA4BN,GAA5B,EAAiC;IAC/BO,SAAS,GAAT;;;EAGF,OAAOA,KAAP;CAPK;;AAUP,AAAO,IAAMW,WAAW,SAAXA,QAAW,CAAAZ,MAAM,EAAI;EAChC,IAAIC,QAAQ,EAAZ;EACA,KAAK,IAAIP,IAAI,CAAb,EAAgBA,IAAIM,MAApB,EAA4BN,GAA5B,EAAiC;IAC/BO,SAAS,GAAT;;;EAGF,OAAOA,KAAP;CAPK;;AAUP,AAAO,IAAMY,WAAW,SAAXA,QAAW,CAAAb,MAAM,EAAI;EAChC,IAAIC,QAAQ,EAAZ;EACA,KAAK,IAAIP,IAAI,CAAb,EAAgBA,IAAIM,MAApB,EAA4BN,GAA5B,EAAiC;IAC/BO,SAAS,GAAT;;;EAGF,OAAOA,KAAP;CAPK;;AAUP,AAAO,IAAMa,WAAW,SAAXA,QAAW,CAAAd,MAAM,EAAI;EAChC,IAAIC,QAAQ,EAAZ;EACA,KAAK,IAAIP,IAAI,CAAb,EAAgBA,IAAIM,MAApB,EAA4BN,GAA5B,EAAiC;IAC/BO,SAAS,GAAT;;;EAGF,OAAOA,KAAP;CAPK;;AAUP,AAAO,IAAMc,WAAW,SAAXA,QAAW,CAAAf,MAAM,EAAI;EAChC,IAAIC,QAAQ,EAAZ;EACA,KAAK,IAAIP,IAAI,CAAb,EAAgBA,IAAIM,MAApB,EAA4BN,GAA5B,EAAiC;IAC/BO,SAAS,GAAT;;;EAGF,OAAOA,KAAP;CAPK;;AAUP,AAAO,IAAMe,WAAW,SAAXA,QAAW,CAAAhB,MAAM,EAAI;EAChC,IAAIC,QAAQ,EAAZ;EACA,KAAK,IAAIP,IAAI,CAAb,EAAgBA,IAAIM,MAApB,EAA4BN,GAA5B,EAAiC;IAC/BO,SAAS,GAAT;;;EAGF,OAAOA,KAAP;CAPK;;AAUP,AAAO,IAAMgB,WAAW,SAAXA,QAAW,CAAAjB,MAAM,EAAI;EAChC,IAAIC,QAAQ,EAAZ;EACA,KAAK,IAAIP,IAAI,CAAb,EAAgBA,IAAIM,MAApB,EAA4BN,GAA5B,EAAiC;IAC/BO,SAAS,GAAT;;;EAGF,OAAOA,KAAP;CAPK;;AAUP,AAAO,IAAMiB,WAAW,SAAXA,QAAW,CAAAlB,MAAM,EAAI;EAChC,IAAIC,QAAQ,EAAZ;EACA,KAAK,IAAIP,IAAI,CAAb,EAAgBA,IAAIM,MAApB,EAA4BN,GAA5B,EAAiC;IAC/BO,SAAS,GAAT;;;EAGF,OAAOA,KAAP;CAPK;;AAUP,AAAO,IAAMkB,WAAW,SAAXA,QAAW,CAAAnB,MAAM,EAAI;EAChC,IAAIC,QAAQ,EAAZ;EACA,KAAK,IAAIP,IAAI,CAAb,EAAgBA,IAAIM,MAApB,EAA4BN,GAA5B,EAAiC;IAC/BO,SAAS,GAAT;;;EAGF,OAAOA,KAAP;CAPK;;AAUP,AAAO,IAAMmB,WAAW,SAAXA,QAAW,CAAApB,MAAM,EAAI;EAChC,IAAIC,QAAQ,EAAZ;EACA,KAAK,IAAIP,IAAI,CAAb,EAAgBA,IAAIM,MAApB,EAA4BN,GAA5B,EAAiC;IAC/BO,SAAS,GAAT;;;EAGF,OAAOA,KAAP;CAPK;;AAUP,AAAO,IAAMoB,WAAW,SAAXA,QAAW,CAAArB,MAAM,EAAI;EAChC,IAAIC,QAAQ,EAAZ;EACA,KAAK,IAAIP,IAAI,CAAb,EAAgBA,IAAIM,MAApB,EAA4BN,GAA5B,EAAiC;IAC/BO,SAAS,GAAT;;;EAGF,OAAOA,KAAP;CAPK;;AAUP,AAAO,IAAMqB,WAAW,SAAXA,QAAW,CAAAtB,MAAM,EAAI;EAChC,IAAIC,QAAQ,EAAZ;EACA,KAAK,IAAIP,IAAI,CAAb,EAAgBA,IAAIM,MAApB,EAA4BN,GAA5B,EAAiC;IAC/BO,SAAS,GAAT;;;EAGF,OAAOA,KAAP;CAPK;;AAUP,AAAO,IAAMsB,WAAW,SAAXA,QAAW,CAAAvB,MAAM,EAAI;EAChC,IAAIC,QAAQ,EAAZ;EACA,KAAK,IAAIP,IAAI,CAAb,EAAgBA,IAAIM,MAApB,EAA4BN,GAA5B,EAAiC;IAC/BO,SAAS,GAAT;;;EAGF,OAAOA,KAAP;CAPK;;AAUP,AAAO,IAAMuB,WAAW,SAAXA,QAAW,CAAAxB,MAAM,EAAI;EAChC,IAAIC,QAAQ,EAAZ;EACA,KAAK,IAAIP,IAAI,CAAb,EAAgBA,IAAIM,MAApB,EAA4BN,GAA5B,EAAiC;IAC/BO,SAAS,GAAT;;;EAGF,OAAOA,KAAP;CAPK;;AAUP,AAAO,IAAMwB,WAAW,SAAXA,QAAW,CAAAzB,MAAM,EAAI;EAChC,IAAIC,QAAQ,EAAZ;EACA,KAAK,IAAIP,IAAI,CAAb,EAAgBA,IAAIM,MAApB,EAA4BN,GAA5B,EAAiC;IAC/BO,SAAS,GAAT;;;EAGF,OAAOA,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SAASxG,SACzByI,GAAc3E,KAAK9D,GACvB,OAASwK,EAAOxK,GAChBA,KAOC+F,WAMM,qBASA3F,SACAyI,UAEDe,SACAY,UACCxE,YACEiB,GC5VDrB,KA2IPN,EAAY,kIACZC,EAA4C,GAAI1D,MAAM,SAAU,KAAOhF,UAoHvE4J,EAAO,WACPC,EAAO,cACPC,GAAO,gBAAEPE,GAAAO,yBG1VPgF,WACI,mBAEIQ,EAEL,SAAUpK,EAEVqK,EAAO,WAAEC,EAAO,cAAEC,GAAO,gBAAEC,GAAO,yBAAEC,WACI,mBAAEC,EAAO,cAAEC,GAAO,gBAAEC,GAAO,yBAAEC,WAA

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 function merge(...sets:Array<string>):string {\n\tif (sets.length > 1) {\n\t\tsets[0] = sets[0].slice(0, -1);\n\t\tconst xl = sets.length - 1;\n\t\tfor (let x = 1; x < xl; ++x) {\n\t\t\tsets[x] = sets[x].slice(1, -1);\n\t\t}\n\t\tsets[xl] = sets[xl].slice(1);\n\t\treturn sets.join('');\n\t} else {\n\t\treturn sets[0];\n\t}\n}\n\nexport function subexp(str:string):string {\n\treturn \"(?:\" + str + \")\";\n}\n\nexport function typeOf(o:any):string {\n\treturn o === undefined ? \"undefined\" : (o === null ? \"null\" : Object.prototype.toString.call(o).split(\" \").pop().split(\"]\").shift().toLowerCase());\n}\n\nexport function toUpperCase(str:string):string {\n\treturn str.toUpperCase();\n}\n\nexport function toArray(obj:any):Array<any>
 {\n\treturn obj !== undefined && obj !== null ? (obj instanceof Array ? obj : (typeof obj.length !== \"number\" || obj.split || obj.setInterval || obj.call ? [obj] : Array.prototype.slice.call(obj))) : [];\n}\n\n\nexport function assign(target: object, source: any): any {\n\tconst obj = target as any;\n\tif (source) {\n\t\tfor (const key in source) {\n\t\t\tobj[key] = source[key];\n\t\t}\n\t}\n\treturn obj;\n}","import { URIRegExps } from \"./uri\";\nimport { merge, subexp } from \"./util\";\n\nexport function buildExps(isIRI:boolean):URIRegExps {\n\tconst\n\t\tALPHA$$ = \"[A-Za-z]\",\n\t\tCR$ = \"[\\\\x0D]\",\n\t\tDIGIT$$ = \"[0-9]\",\n\t\tDQUOTE$$ = \"[\\\\x22]\",\n\t\tHEXDIG$$ = merge(DIGIT$$, \"[A-Fa-f]\"),  //case-insensitive\n\t\tLF$$ = \"[\\\\x0A]\",\n\t\tSP$$ = \"[\\\\x20]\",\n\t\tPCT_ENCODED$ = subexp(subexp(\"%[EFef]\" + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%[89A-Fa-f]\" + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%\"
 + HEXDIG$$ + HEXDIG$$)),  //expanded\n\t\tGEN_DELIMS$$ = \"[\\\\:\\\\/\\\\?\\\\#\\\\[\\\\]\\\\@]\",\n\t\tSUB_DELIMS$$ = \"[\\\\!\\\\$\\\\&\\\\'\\\\(\\\\)\\\\*\\\\+\\\\,\\\\;\\\\=]\",\n\t\tRESERVED$$ = merge(GEN_DELIMS$$, SUB_DELIMS$$),\n\t\tUCSCHAR$$ = isIRI ? \"[\\\\xA0-\\\\u200D\\\\u2010-\\\\u2029\\\\u202F-\\\\uD7FF\\\\uF900-\\\\uFDCF\\\\uFDF0-\\\\uFFEF]\" : \"[]\",  //subset, excludes bidi control characters\n\t\tIPRIVATE$$ = isIRI ? \"[\\\\uE000-\\\\uF8FF]\" : \"[]\",  //subset\n\t\tUNRESERVED$$ = merge(ALPHA$$, DIGIT$$, \"[\\\\-\\\\.\\\\_\\\\~]\", UCSCHAR$$),\n\t\tSCHEME$ = subexp(ALPHA$$ + merge(ALPHA$$, DIGIT$$, \"[\\\\+\\\\-\\\\.]\") + \"*\"),\n\t\tUSERINFO$ = subexp(subexp(PCT_ENCODED$ + \"|\" + merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:]\")) + \"*\"),\n\t\tDEC_OCTET$ = subexp(subexp(\"25[0-5]\") + \"|\" + subexp(\"2[0-4]\" + DIGIT$$) + \"|\" + subexp(\"1\" + DIGIT$$ + DIGIT$$) + \"|\" + subexp(\"[1-9]\" + DIGIT$$) + \"|\" + DIGIT$$),\n\t\tDEC_OCTET_RELAXED$ = subexp(subexp(\"25[0-5]\")
 + \"|\" + subexp(\"2[0-4]\" + DIGIT$$) + \"|\" + subexp(\"1\" + DIGIT$$ + DIGIT$$) + \"|\" + subexp(\"0?[1-9]\" + DIGIT$$) + \"|0?0?\" + DIGIT$$),  //relaxed parsing rules\n\t\tIPV4ADDRESS$ = subexp(DEC_OCTET_RELAXED$ + \"\\\\.\" + DEC_OCTET_RELAXED$ + \"\\\\.\" + DEC_OCTET_RELAXED$ + \"\\\\.\" + DEC_OCTET_RELAXED$),\n\t\tH16$ = subexp(HEXDIG$$ + \"{1,4}\"),\n\t\tLS32$ = subexp(subexp(H16$ + \"\\\\:\" + H16$) + \"|\" + IPV4ADDRESS$),\n\t\tIPV6ADDRESS1$ = subexp(                                  subexp(H16$ + \"\\\\:\") + \"{6}\" + LS32$), //                  6( h16 \":\" ) ls32\n\t\tIPV6ADDRESS2$ = subexp(                                  \"\\\\:\\\\:\" + subexp(H16$ + \"\\\\:\") + \"{5}\" + LS32$), //                \"::\" 5( h16 \":\" ) ls32\n\t\tIPV6ADDRESS3$ = subexp(subexp(
     H16$) + \"?\\\\:\\\\:\" + subexp(H16$ + \"\\\\:\") + \"{4}\" + LS32$), //[           h16 ] \"::\"
 4( h16 \":\" ) ls32\n\t\tIPV6ADDRESS4$ = subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,1}\" + H16$) + \"?\\\\:\\\\:\" + subexp(H16$ + \"\\\\:\") + \"{3}\" + LS32$), //[ *1( h16 \":\" ) h16 ] \"::\" 3( h16 \":\" ) ls32\n\t\tIPV6ADDRESS5$ = subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,2}\" + H16$) + \"?\\\\:\\\\:\" + subexp(H16$ + \"\\\\:\") + \"{2}\" + LS32$), //[ *2( h16 \":\" ) h16 ] \"::\" 2( h16 \":\" ) ls32\n\t\tIPV6ADDRESS6$ = subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,3}\" + H16$) + \"?\\\\:\\\\:\" +      H16$ + \"\\\\:\"      + LS32$), //[ *3( h16 \":\" ) h16 ] \"::\"    h16 \":\"  ls32\n\t\tIPV6ADDRESS7$ = subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,4}\" + H16$) + \"?\\\\:\\\\:\"                    + LS32$), //[ *4( h16 \":\" ) h16 ] \"::\" ls32\n\t\tIPV6ADDRESS8$ = subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,5}\" + H16$) + \"?\\\\:\\\\:\"
          + H16$ ), //[ *5( h16 \":\" ) h16 ] \"::\"          h16\n\t\tIPV6ADDRESS9$
```

= subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,6}\" + H16$) + \"?\\\\:\\\\:\"), //[*6(h16 \":\") h16] \"::\"\n\t\tIPV6ADDRESS$ = subexp([IPV6ADDRESS1$, IPV6ADDRESS2$, IPV6ADDRESS3$, IPV6ADDRESS4$, IPV6ADDRESS5$, IPV6ADDRESS6$, IPV6ADDRESS7$, IPV6ADDRESS8$, IPV6ADDRESS9$].join(\"|\")),\n\t\tZONEID$ = subexp(subexp(UNRESERVED$$ + \"|\" + PCT_ENCODED$) + \"+\"), //RFC 6874\n\t\tIPV6ADDRZ$ = subexp(IPV6ADDRESS$ + \"\\\\%25\" + ZONEID$), //RFC 6874\n\t\tIPV6ADDRZ_RELAXED$ = subexp(IPV6ADDRESS$ + subexp(\"\\\\%25|\\\\%(?!\" + HEXDIG$$ + \"{2})\") + ZONEID$), //RFC 6874, with relaxed parsing rules\n\t\tIPVFUTURE$ = subexp(\"[vV]\" + HEXDIG$$ + \"+\\\\.\" + merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:]\") + \"+\"),\n\t\tIP_LITERAL$ = subexp(\"\\\\[\" + subexp(IPV6ADDRZ_RELAXED$ + \"|\" + IPV6ADDRESS$ + \"|\" + IPVFUTURE$) + \"\\\\]\"), //RFC 6874\n\t\tREG_NAME$ = subexp(subexp(PCT_ENCODED$ + \"|\" + merge(UNRESERVED$$, SUB_DELIMS$$)) +
\"*\"),\n\t\tHOST$ = subexp(IP_LITERAL$ + \"|\" + IPV4ADDRESS$ + \"(?!\" + REG_NAME$ + \")\" + \"|\" + REG_NAME$),\n\t\tPORT$ = subexp(DIGIT$$ + \"*\"),\n\t\tAUTHORITY$ = subexp(subexp(USERINFO$ + \"@\") + \"?\" + HOST$ + subexp(\"\\\\:\" + PORT$) + \"?\"),\n\t\tPCHAR$ = subexp(PCT_ENCODED$ + \"|\" + merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:\\\\@]\")),\n\t\tSEGMENT$ = subexp(PCHAR$ + \"*\"),\n\t\tSEGMENT_NZ$ = subexp(PCHAR$ + \"+\"),\n\t\tSEGMENT_NZ_NC$ = subexp(subexp(PCT_ENCODED$ + \"|\" + merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\@]\")) + \"+\"),\n\t\tPATH_ABEMPTY$ = subexp(subexp(\"\\\\/\" + SEGMENT$) + \"*\"),\n\t\tPATH_ABSOLUTE$ = subexp(\"\\\\/\" + subexp(SEGMENT_NZ$ + PATH_ABEMPTY$) + \"?\"), //simplified\n\t\tPATH_NOSCHEME$ = subexp(SEGMENT_NZ_NC$ + PATH_ABEMPTY$), //simplified\n\t\tPATH_ROOTLESS$ = subexp(SEGMENT_NZ$ + PATH_ABEMPTY$), //simplified\n\t\tPATH_EMPTY$ = \"(?!\" + PCHAR$ + \")\",\n\t\tPATH$ = subexp(PATH_ABEMPTY$ + \"|\" + PATH_ABSOLUTE$ + \"|\" + PATH_NOSCHEME$ + \"|\" + PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$),\n\t\tQUERY$ = subexp(subexp(PCHAR$ + \"|\" + merge(\"[\\\\/\\\\?]\", IPRIVATE$$)) + \"*\"),\n\t\tFRAGMENT$ = subexp(subexp(PCHAR$ + \"|[\\\\/\\\\?]\") + \"*\"),\n\t\tHIER_PART$ = subexp(subexp(\"\\\\/\\\\/\" + AUTHORITY$ + PATH_ABEMPTY$) + \"|\" + PATH_ABSOLUTE$ + \"|\" + PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$),\n\t\tURI$ = subexp(SCHEME$ + \"\\\\:\" + HIER_PART$ + subexp(\"\\\\?\" + QUERY$) + \"?\" + subexp(\"\\\\#\" + FRAGMENT$) + \"?\"),\n\t\tRELATIVE_PART$ = subexp(subexp(\"\\\\/\\\\/\" + AUTHORITY$ + PATH_ABEMPTY$) + \"|\" + PATH_ABSOLUTE$ + \"|\" + PATH_NOSCHEME$ + \"|\" + PATH_EMPTY$),\n\t\tRELATIVE$ = subexp(RELATIVE_PART$ + subexp(\"\\\\?\" + QUERY$) + \"?\" + subexp(\"\\\\#\" + FRAGMENT$) + \"?\"),\n\t\tURI_REFERENCE$ = subexp(URI$ + \"|\" + RELATIVE$),\n\t\tABSOLUTE_URI$ = subexp(SCHEME$ + \"\\\\:\" + HIER_PART$ + subexp(\"\\\\?\" + QUERY$) + \"?\"),\n\n\t\tGENERIC_REF$ = \"^(\" + SCHEME$ + \")\\\\:\" + subexp(subexp(\"\\\\/\\\\/(\"
+ subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" + HOST$ + \")\" + subexp(\"\\\\:(\" + PORT$ + \")\") + \"?)\") + \"?(\" + PATH_ABEMPTY$ + \"|\" + PATH_ABSOLUTE$ + \"|\" + PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$ + \")\") + subexp(\"\\\\?(\" + QUERY$ + \")\") + \"?\" + subexp(\"\\\\#(\" + FRAGMENT$ + \")\") + \"?$\",\n\t\tRELATIVE_REF$ = \"^(){0}\" + subexp(subexp(\"\\\\/\\\\/(\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" + HOST$ + \")\" + subexp(\"\\\\:(\" + PORT$ + \")\") + \"?)\") + \"?(\" + PATH_ABEMPTY$ + \"|\" + PATH_ABSOLUTE$ + \"|\" + PATH_NOSCHEME$ + \"|\" + PATH_EMPTY$ + \")\") + subexp(\"\\\\?(\" + QUERY$ + \")\") + \"?\" + subexp(\"\\\\#(\" + FRAGMENT$ + \")\") + \"?$\",\n\t\tABSOLUTE_REF$ = \"^(\" + SCHEME$ + \")\\\\:\" + subexp(subexp(\"\\\\/\\\\/(\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" + HOST$ + \")\" + subexp(\"\\\\:(\" + PORT$ + \")\") + \"?)\") + \"?(\" + PATH_ABEMPTY$ + \"|\" + PATH_ABSOLUTE$ + \"|\" + PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$ + \")\") + subexp(\"\\\\?(\"
+ QUERY$ + \")\") + \"?$\",\n\t\tSAMEDOC_REF$ = \"^\" + subexp(\"\\\\#(\" + FRAGMENT$ + \")\") + \"?$\",\n\t\tAUTHORITY_REF$ = \"^\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" + HOST$ + \")\" + subexp(\"\\\\:(\" + PORT$ + \")\") + \"?$\"\n\t;\n\n\treturn {\n\t\tNOT_SCHEME : new RegExp(merge(\"[^]\", ALPHA$$, DIGIT$$, \"[\\\\+\\\\-\\\\.]\"), \"g\"),\n\t\tNOT_USERINFO : new RegExp(merge(\"[^\\\\%\\\\:]\", UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tNOT_HOST : new RegExp(merge(\"[^\\\\%\\\\[\\\\]\\\\:]\",

UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tNOT_PATH : new RegExp(merge(\"[^\\\\%\\\\/\\\\:\\\\@]\", UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tNOT_PATH_NOSCHEME : new RegExp(merge(\"[^\\\\%\\\\/\\\\@]\", UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tNOT_QUERY : new RegExp(merge(\"[^\\\\%]\", UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:\\\\@\\\\/\\\\?]\", IPRIVATE$$), \"g\"),\n\t\tNOT_FRAGMENT : new RegExp(merge(\"[^\\\\%]\", UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:\\\\@\\\\/\\\\?]\"), \"g\"),\n\t\tESCAPE
: new RegExp(merge(\"[^]\", UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tUNRESERVED : new RegExp(UNRESERVED$$, \"g\"),\n\t\tOTHER_CHARS : new RegExp(merge(\"[^\\\\%]\", UNRESERVED$$, RESERVED$$), \"g\"),\n\t\tPCT_ENCODED : new RegExp(PCT_ENCODED$, \"g\"),\n\t\tIPV4ADDRESS : new RegExp(\"^(\" + IPV4ADDRESS$ + \")$\"),\n\t\tIPV6ADDRESS : new RegExp(\"^\\\\[?(\" + IPV6ADDRESS$ + \")\" + subexp(subexp(\"\\\\%25|\\\\%(?!\" + HEXDIG$$ + \"{2})\") + \"(\" + ZONEID$ + \")\") + \"?\\\\]?$\") //RFC 6874, with relaxed parsing rules\n\t};\n}\n\nexport default buildExps(false);\n","'use strict';\n\n/** Highest positive signed 32-bit float value */\nconst maxInt = 2147483647; // aka. 0x7FFFFFFF or 2^31-1\n\n/** Bootstring parameters */\nconst base = 36;\nconst tMin = 1;\nconst tMax = 26;\nconst skew = 38;\nconst damp = 700;\nconst initialBias = 72;\nconst initialN = 128; // 0x80\nconst delimiter = '-'; // '\\x2D'\n\n/** Regular expressions */\nconst regexPunycode = /^xn--/;\nconst regexNonASCII
= /[^\\0-\\x7E]/; // non-ASCII chars\nconst regexSeparators = /[\\x2E\\u3002\\uFF0E\\uFF61]/g; // RFC 3490 separators\n\n/** Error messages */\nconst errors = {\n\t'overflow': 'Overflow: input needs wider integers to process',\n\t'not-basic': 'Illegal input >= 0x80 (not a basic code point)',\n\t'invalid-input': 'Invalid input'\n};\n\n/** Convenience shortcuts */\nconst baseMinusTMin = base - tMin;\nconst floor = Math.floor;\nconst stringFromCharCode = String.fromCharCode;\n\n/*--*/\n\n/**\n * A generic error utility function.\n * @private\n * @param {String} type The error type.\n * @returns {Error} Throws a `RangeError` with the applicable error message.\n */\nfunction error(type) {\n\tthrow new RangeError(errors[type]);\n}\n\n/**\n * A generic `Array#map` utility function.\n * @private\n * @param {Array} array The array to iterate over.\n * @param {Function} callback The function that gets called for every
array\n * item.\n * @returns {Array} A new array of values returned by the callback function.\n */\nfunction map(array, fn) {\n\tconst result = [];\n\tlet length = array.length;\n\twhile (length--) {\n\t\tresult[length] = fn(array[length]);\n\t}\n\treturn result;\n}\n\n/**\n * A simple `Array#map`-like wrapper to work with domain name strings or email\n * addresses.\n * @private\n * @param {String} domain The domain name or email address.\n * @param {Function} callback The function that gets called for every\n * character.\n * @returns {Array} A new string of characters returned by the callback\n * function.\n */\nfunction mapDomain(string, fn) {\n\tconst parts = string.split('@');\n\tlet result = '';\n\tif (parts.length > 1) {\n\t\t// In email addresses, only the domain name should be punycoded. Leave\n\t\t// the local part (i.e. everything up to `@`) intact.\n\t\tresult = parts[0] + '@';\n\t\tstring = parts[1];\n\t}\n\t// Avoid `split(regex)` for IE8 compatibility. See #17.\n\tstring
= string.replace(regexSeparators, '\\x2E');\n\tconst labels = string.split('.');\n\tconst encoded = map(labels, fn).join('.');\n\treturn result + encoded;\n}\n\n/**\n * Creates an array containing the numeric code points of each Unicode\n * character in the string. While JavaScript uses UCS-2 internally,\n * this function will convert a pair of surrogate halves (each of which\n * UCS-2 exposes as separate characters) into a single code point,\n * matching UTF-16.\n * @see `punycode.ucs2.encode`\n * @see <https://mathiasbynens.be/notes/javascript-encoding>\n * @memberOf punycode.ucs2\n * @name decode\n * @param {String} string The Unicode input string (UCS-2).\n * @returns {Array} The new array of code points.\n */\nfunction ucs2decode(string) {\n\tconst output = [];\n\tlet counter = 0;\n\tconst length = string.length;\n\twhile (counter < length) {\n\t\tconst value = string.charCodeAt(counter++);\n\t\tif (value >= 0xD800 && value <= 0xDBFF && counter < length) {\n\t\t\t// It's a high
surrogate, and there is a next character.\n\t\t\tconst extra = string.charCodeAt(counter++);\n\t\t\tif ((extra & 0xFC00) == 0xDC00) { // Low surrogate.\n\t\t\t\toutput.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);\n\t\t\t} else {\n\t\t\t\t// It's an unmatched surrogate; only append this code unit, in case the\n\t\t\t\t// next code unit is the high surrogate of a surrogate pair.\n\t\t\t\toutput.push(value);\n\t\t\t\tcounter--;\n\t\t\t}\n\t\t} else

{\n\t\t\toutput.push(value);\n\t\t}\n\t}\n\treturn output;\n}\n\n/**\n * Creates a string based on an array of numeric code points.\n * @see `punycode.ucs2.decode`\n * @memberOf punycode.ucs2\n * @name encode\n * @param {Array} codePoints The array of numeric code points.\n * @returns {String} The new Unicode string (UCS-2).\n */\nconst ucs2encode = array => String.fromCodePoint(...array);\n\n/**\n * Converts a basic code point into a digit/integer.\n * @see `digitToBasic()`\n * @private\n * @param {Number} codePoint The basic numeric code point value.\n * @returns {Number} The numeric value of a basic code point (for use in\n * representing integers) in the range `0` to `base - 1`, or `base` if\n * the code point does not represent a value.\n */\nconst basicToDigit = function(codePoint) {\n\tif (codePoint - 0x30 < 0x0A) {\n\t\treturn codePoint - 0x16;\n\t}\n\tif (codePoint - 0x41 < 0x1A) {\n\t\treturn codePoint - 0x41;\n\t}\n\tif (codePoint - 0x61 < 0x1A) {\n\t\treturn codePoint - 0x61;\n\t}\n\treturn base;\n};\n\n/**\n * Converts a digit/integer into a basic code point.\n * @see `basicToDigit()`\n * @private\n * @param {Number} digit The numeric value of a basic code point.\n * @returns {Number} The basic code point whose value (when used for\n * representing integers) is `digit`, which needs to be in the range\n * `0` to `base - 1`. If `flag` is non-zero, the uppercase form is\n * used; else, the lowercase form is used. The behavior is undefined\n * if `flag` is non-zero and `digit` has no uppercase form.\n */\nconst digitToBasic = function(digit, flag) {\n\t// 0..25 map to ASCII a..z or A..Z\n\t// 26..35 map to ASCII 0..9\n\treturn digit + 22 + 75 * (digit < 26) - ((flag != 0) << 5);\n};\n\n/**\n * Bias adaptation function as per section 3.4 of RFC 3492.\n * https://tools.ietf.org/html/rfc3492#section-3.4\n * @private\n */\nconst adapt = function(delta, numPoints, firstTime) {\n\tlet k = 0;\n\tdelta = firstTime ? floor(delta / damp) : delta >> 1;\n\tdelta += floor(delta / numPoints);\n\tfor (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {\n\t\tdelta = floor(delta / baseMinusTMin);\n\t}\n\treturn floor(k + (baseMinusTMin + 1) * delta / (delta + skew));\n};\n\n/**\n * Converts a Punycode string of ASCII-only symbols to a string of Unicode\n * symbols.\n * @memberOf punycode\n * @param {String} input The Punycode string of ASCII-only symbols.\n * @returns {String} The resulting string of Unicode symbols.\n */\nconst decode = function(input) {\n\t// Don't use UCS-2.\n\tconst output = [];\n\tconst inputLength = input.length;\n\tlet i = 0;\n\tlet n = initialN;\n\tlet bias = initialBias;\n\n\t// Handle the basic code points: let `basic` be the number of input code\n\t// points before the last delimiter, or `0` if there is none, then copy\n\t// the first basic code points to the output.\n\n\tlet basic = input.lastIndexOf(delimiter);\n\tif (basic < 0) {\n\t\tbasic = 0;\n\t}\n\n\tfor (let j = 0; j < basic; ++j) {\n\t\t// if it's not a basic code point\n\t\tif (input.charCodeAt(j) >= 0x80) {\n\t\t\terror('not-basic');\n\t\t}\n\t\toutput.push(input.charCodeAt(j));\n\t}\n\n\t// Main decoding loop: start just after the last delimiter if any basic code\n\t// points were copied; start at the beginning otherwise.\n\n\tfor (let index = basic > 0 ? basic + 1 : 0; index < inputLength; /* no final expression */) {\n\n\t\t// `index` is the index of the next character to be consumed.\n\t\t// Decode a generalized variable-length integer into `delta`,\n\t\t// which gets added to `i`. The overflow checking is easier\n\t\t// if we increase `i` as we go, then subtract off its starting\n\t\t// value at the end to obtain `delta`.\n\t\tlet oldi = i;\n\t\tfor (let w = 1, k = base; /* no condition */; k += base) {\n\n\t\t\tif (index >= inputLength) {\n\t\t\t\terror('invalid-input');\n\t\t\t}\n\n\t\t\tconst digit = basicToDigit(input.charCodeAt(index++));\n\n\t\t\tif (digit >= base || digit > floor((maxInt - i) / w)) {\n\t\t\t\terror('overflow');\n\t\t\t}\n\n\t\t\ti += digit * w;\n\t\t\tconst t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\n\t\t\tif (digit < t) {\n\t\t\t\tbreak;\n\t\t\t}\n\n\t\t\tconst baseMinusT = base - t;\n\t\t\tif (w > floor(maxInt / baseMinusT)) {\n\t\t\t\terror('overflow');\n\t\t\t}\n\n\t\t\tw *= baseMinusT;\n\n\t\t}\n\n\t\tconst out = output.length + 1;\n\t\tbias = adapt(i - oldi, out, oldi == 0);\n\n\t\t// `i` was supposed to wrap around from `out` to `0`,\n\t\t// incrementing `n` each time, so we'll fix that now:\n\t\tif (floor(i / out) > maxInt - n) {\n\t\t\terror('overflow');\n\t\t}\n\n\t\tn += floor(i / out);\n\t\ti %= out;\n\n\t\t// Insert `n` at position `i` of the output.\n\t\toutput.splice(i++, 0, n);\n\n\t}\n\n\treturn String.fromCodePoint(...output);\n};\n\n/**\n * Converts a string of Unicode symbols (e.g. a domain name label) to a\n * Punycode string of ASCII-only symbols.\n * @memberOf punycode\n * @param {String} input The string of Unicode symbols.\n * @returns {String} The resulting Punycode string of ASCII-only symbols.\n */\nconst encode = function(input) {\n\tconst output = [];\n\n\t// Convert the input in UCS-2 to an array of Unicode code points.\n\tinput = ucs2decode(input);\n\n\t// Cache the length.\n\tlet inputLength = input.length;\n\n\t// Initialize the

state.\n\tlet n = initialN;\n\tlet delta = 0;\n\tlet bias = initialBias;\n\n\t// Handle the basic code points.\n\tfor (const currentValue of input) {\n\t\tif (currentValue < 0x80) {\n\t\t\toutput.push(stringFromCharCode(currentValue));\n\t\t}\n\t}\n\n\tlet basicLength = output.length;\n\tlet handledCPCount = basicLength;\n\n\t// `handledCPCount` is the number of code points that have been handled;\n\t// `basicLength` is the number of basic code points.\n\n\t// Finish the basic string with a delimiter unless it's empty.\n\tif (basicLength) {\n\t\toutput.push(delimiter);\n\t}\n\n\t// Main encoding loop:\n\twhile (handledCPCount < inputLength) {\n\n\t\t// All non-basic code points < n have been handled already. Find the next\n\t\t// larger one:\n\t\tlet m = maxInt;\n\t\tfor (const currentValue of input) {\n\t\t\tif (currentValue >= n && currentValue < m) {\n\t\t\t\tm = currentValue;\n\t\t\t}\n\t\t}\n\n\t\t// Increase `delta` enough to advance the decoder's <n,i> state to <m,0>,\n\t\t// but guard against overflow.\n\t\tconst handledCPCountPlusOne = handledCPCount + 1;\n\t\tif (m - n > floor((maxInt - delta) / handledCPCountPlusOne)) {\n\t\t\terror('overflow');\n\t\t}\n\n\t\tdelta += (m - n) * handledCPCountPlusOne;\n\t\tn = m;\n\n\t\tfor (const currentValue of input) {\n\t\t\tif (currentValue < n && ++delta > maxInt) {\n\t\t\t\terror('overflow');\n\t\t\t}\n\t\t\tif (currentValue == n) {\n\t\t\t\t// Represent delta as a generalized variable-length integer.\n\t\t\t\tlet q = delta;\n\t\t\t\tfor (let k = base; /* no condition */; k += base) {\n\t\t\t\t\tconst t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\t\t\t\t\tif (q < t) {\n\t\t\t\t\t\tbreak;\n\t\t\t\t\t}\n\t\t\t\t\tconst qMinusT = q - t;\n\t\t\t\t\tconst baseMinusT = base - t;\n\t\t\t\t\toutput.push(\n\t\t\t\t\t\tstringFromCharCode(digitToBasic(t + qMinusT % baseMinusT, 0))\n\t\t\t\t);\n\t\t\t\tq = floor(qMinusT / baseMinusT);\n\t\t\t}\n\n\t\t\toutput.push(stringFromCharCode(digitToBasic(q, 0)));\n\t\t\tbias = adapt(delta, handledCPCountPlusOne, handledCPCount == basicLength);\n\t\t\tdelta = 0;\n\t\t\t++handledCPCount;\n\t\t}\n\t}\n\n\t++delta;\n\t++n;\n\n}\n\treturn output.join('');\n};\n\n/**\n * Converts a Punycode string representing a domain name or an email address\n * to Unicode. Only the Punycoded parts of the input will be converted, i.e.\n * it doesn't matter if you call it on a string that has already been\n * converted to Unicode.\n * @memberOf punycode\n * @param {String} input The Punycoded domain name or email address to\n * convert to Unicode.\n * @returns {String} The Unicode representation of the given Punycode\n * string.\n */\nconst toUnicode = function(input) {\n\treturn mapDomain(input, function(string) {\n\t\treturn regexPunycode.test(string)\n\t\t? decode(string.slice(4).toLowerCase())\n\t\t: string;\n\t});\n};\n\n/**\n * Converts a Unicode string representing a domain name or an email address to\n * Punycode. Only the non-ASCII parts of the domain name will be converted,\n * i.e. it doesn't matter if you call it with a domain that's already in\n * ASCII.\n * @memberOf punycode\n * @param {String} input The domain name or email address to convert, as a\n * Unicode string.\n * @returns {String} The Punycode representation of the given domain name or\n * email address.\n */\nconst toASCII = function(input) {\n\treturn mapDomain(input, function(string) {\n\t\treturn regexNonASCII.test(string)\n\t\t? 'xn--' + encode(string)\n\t\t: string;\n\t});\n};\n\n/*--*/\n\n/** Define the public API */\nconst punycode = {\n\t/**\n\t * A string representing the current Punycode.js version number.\n\t * @memberOf punycode\n\t * @type String\n\t */\n\t'version': '2.1.0',\n\t/**\n\t * An object of methods to convert from JavaScript's internal character\n\t * representation (UCS-2) to Unicode code points, and back.\n\t * @see <https://mathiasbynens.be/notes/javascript-encoding>\n\t * @memberOf punycode\n\t * @type Object\n\t */\n\t'ucs2': {\n\t\t'decode': ucs2decode,\n\t\t'encode': ucs2encode\n\t},\n\t'decode': decode,\n\t'encode': encode,\n\t'toASCII': toASCII,\n\t'toUnicode': toUnicode\n};\n\nexport default punycode;\n","/**\n * URI.js\n *\n * @fileoverview An RFC 3986 compliant, scheme extendable URI parsing/validating/resolving library for JavaScript.\n * @author Gary Court\n * @see http://github.com/garycourt/uri-js\n */\n\n/**\n * Copyright 2011 Gary Court. All rights reserved.\n *\n * Redistribution and use in source and binary forms, with or without modification, are\n * permitted provided that the following conditions are met:\n *\n *   1. Redistributions of source code must retain the above copyright notice, this list of\n *   conditions and the following disclaimer.\n *\n *   2. Redistributions in binary form must reproduce the above copyright notice, this list\n *   of conditions and the following disclaimer in the documentation and/or other materials\n *   provided with the distribution.\n

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{ toUpperCase, typeOf, assign } from \"./util\";\n\nexport interface URIComponents {\n\tscheme?:string;\n\tuserinfo?:string;\n\thost?:string;\n\tport?:number|string;\n\tpath?:string;\n\tquery?:string;\n\tfragment?:string;\n\treference?:string;\n\terror?:string;\n}\n\nexport interface URIOptions {\n\tscheme?:string;\n\treference?:string;\n\ttolerant?:boolean;\n\tabsolutePath?:boolean;\n\tiri?:boolean;\n\tunicodeSupport?:boolean;\n\tdomainHost?:boolean;\n}\n\nexport interface URISchemeHandler<Components extends URIComponents = URIComponents, Options extends URIOptions = URIOptions, ParentComponents extends URIComponents = URIComponents> {\n\tscheme:string;\n\tparse(components:ParentComponents, options:Options):Components;\n\tserialize(components:Components, options:Options):ParentComponents;\n\tunicodeSupport?:boolean;\n\tdomainHost?:boolean;\n\tabsolutePath?:boolean;\n}\n\nexport interface URIRegExps {\n\tNOT_SCHEME : RegExp,\n\tNOT_USERINFO : RegExp,\n\tNOT_HOST :
RegExp,\n\tNOT_PATH : RegExp,\n\tNOT_PATH_NOSCHEME : RegExp,\n\tNOT_QUERY : RegExp,\n\tNOT_FRAGMENT : RegExp,\n\tESCAPE : RegExp,\n\tUNRESERVED : RegExp,\n\tOTHER_CHARS : RegExp,\n\tPCT_ENCODED : RegExp,\n\tIPV4ADDRESS : RegExp,\n\tIPV6ADDRESS : RegExp,\n}\n\nexport const SCHEMES:{[scheme:string]:URISchemeHandler} = {};\n\nexport function pctEncChar(chr:string):string {\n\tconst c = chr.charCodeAt(0);\n\tlet e:string;\n\n\tif (c < 16) e = \"%0\" + c.toString(16).toUpperCase();\n\telse if (c < 128) e = \"%\" + c.toString(16).toUpperCase();\n\telse if (c < 2048) e = \"%\" + ((c >> 6) | 192).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();\n\telse e = \"%\" + ((c >> 12) | 224).toString(16).toUpperCase() + \"%\" + (((c >> 6) & 63) | 128).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();\n\n\treturn e;\n}\n\nexport function pctDecChars(str:string):string {\n\tlet newStr = \"\";\n\tlet i = 0;\n\tconst il = str.length;\n\n\twhile
(i < il) {\n\t\tconst c = parseInt(str.substr(i + 1, 2), 16);\n\n\t\tif (c < 128) {\n\t\t\tnewStr += String.fromCharCode(c);\n\t\t\ti += 3;\n\t\t}\n\telse if (c >= 194 && c < 224) {\n\t\tif ((il - i) >= 6) {\n\t\t\tconst c2 = parseInt(str.substr(i + 4, 2), 16);\n\t\t\tnewStr += String.fromCharCode(((c & 31) << 6) | (c2 & 63));\n\t\t} else {\n\t\t\tnewStr += str.substr(i, 6);\n\t\t}\n\t\ti += 6;\n\t}\n\telse if (c >= 224) {\n\tif ((il - i) >= 9) {\n\t\tconst c2 = parseInt(str.substr(i + 4, 2), 16);\n\t\tconst c3 = parseInt(str.substr(i + 7, 2), 16);\n\t\tnewStr += String.fromCharCode(((c & 15) << 12) | ((c2 & 63) << 6) | (c3 & 63));\n\t} else {\n\t\tnewStr += str.substr(i, 9);\n\t\t}\n\t\ti += 9;\n\t}\n\telse {\n\t\tnewStr += str.substr(i, 3);\n\t\ti += 3;\n\t}\n}\n\n\treturn newStr;\n}\n\nfunction _normalizeComponentEncoding(components:URIComponents, protocol:URIRegExps) {\n\tfunction decodeUnreserved(str:string):string {\n\t\tconst
decStr = pctDecChars(str);\n\t\treturn (!decStr.match(protocol.UNRESERVED) ? str : decStr);\n\t}\n\n\tif (components.scheme) components.scheme = String(components.scheme).replace(protocol.PCT_ENCODED, decodeUnreserved).toLowerCase().replace(protocol.NOT_SCHEME, \"\");\n\tif (components.userinfo !==

undefined) components.userinfo = String(components.userinfo).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_USERINFO, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);\n\tif (components.host !== undefined) components.host = String(components.host).replace(protocol.PCT_ENCODED, decodeUnreserved).toLowerCase().replace(protocol.NOT_HOST, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);\n\tif (components.path !== undefined) components.path = String(components.path).replace(protocol.PCT_ENCODED, decodeUnreserved).replace((components.scheme ? protocol.NOT_PATH : protocol.NOT_PATH_NOSCHEME), pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);\n\tif (components.query
 !== undefined) components.query = String(components.query).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_QUERY, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);\n\tif (components.fragment !== undefined) components.fragment = String(components.fragment).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);\n\n\treturn components;\n};\n\nfunction _stripLeadingZeros(str:string):string {\n\treturn str.replace(/^0*(.*)/, \"$1\") || \"0\";\n}\n\nfunction _normalizeIPv4(host:string, protocol:URIRegExps):string {\n\tconst matches = host.match(protocol.IPV4ADDRESS) || [];\n\tconst [, address] = matches;\n\t\n\tif (address) {\n\t\treturn address.split(\".\").map(_stripLeadingZeros).join(\".\");\n\t} else {\n\t\treturn host;\n\t}\n}\n\nfunction _normalizeIPv6(host:string, protocol:URIRegExps):string {\n\tconst matches = host.match(protocol.IPV6ADDRESS) || [];\n\tconst [,
 address, zone] = matches;\n\n\tif (address) {\n\t\tconst [last, first] = address.toLowerCase().split('::').reverse();\n\t\tconst firstFields = first ? first.split(\":\").map(_stripLeadingZeros) : [];\n\t\tconst lastFields = last.split(\":\").map(_stripLeadingZeros);\n\t\tconst isLastFieldIPv4Address = protocol.IPV4ADDRESS.test(lastFields[lastFields.length - 1]);\n\t\tconst fieldCount = isLastFieldIPv4Address ? 7 : 8;\n\t\tconst lastFieldsStart = lastFields.length - fieldCount;\n\t\tconst fields = Array<string>(fieldCount);\n\n\t\tfor (let x = 0; x < fieldCount; ++x) {\n\t\t\tfields[x] = firstFields[x] || lastFields[lastFieldsStart + x] || '';\n\t\t}\n\n\t\tif (isLastFieldIPv4Address) {\n\t\t\tfields[fieldCount - 1] = _normalizeIPv4(fields[fieldCount - 1], protocol);\n\t\t}\n\n\t\tconst allZeroFields = fields.reduce<Array<{index:number,length:number}>>((acc, field, index) => {\n\t\t\tif (!field || field === \"0\") {\n\t\t\t\tconst lastLongest = acc[acc.length - 1];\n\t\t\t\tif (lastLongest
 && lastLongest.index + lastLongest.length === index) {\n\t\t\t\tlastLongest.length++;\n\t\t\t} else {\n\t\t\t\tacc.push({ index, length : 1 });\n\t\t\t}\n\t\t}\n\t\treturn acc;\n\t}, []);\n\n\tconst longestZeroFields = allZeroFields.sort((a, b) => b.length - a.length)[0];\n\n\tlet newHost:string;\n\tif (longestZeroFields &&
longestZeroFields.length > 1) {\n\t\tconst newFirst = fields.slice(0, longestZeroFields.index) ;\n\t\tconst newLast = fields.slice(longestZeroFields.index + longestZeroFields.length);\n\t\tnewHost = newFirst.join(\":\") + \"::\" + newLast.join(\":\");\n\t} else {\n\t\tnewHost = fields.join(\":\");\n\t}\n\n\tif (zone) {\n\t\tnewHost += \"%\" + zone;\n\t}\n\n\treturn newHost;\n} else {\n\treturn host;\n}\n}\n\nconst URI_PARSE = /^(?:([^:\/?#]+):)?(?:\/\/((?:([^\/?#@]*)@)?(\[[^\/?#\]]+\]|[^\/?#:]*)(?:\:(\d*))?))?([^?#]*)(?:\?([^#]*))?(?:#((?:.|\n|\r)*))?/i;\nconst NO_MATCH_IS_UNDEFINED = (<RegExpMatchArray>(\"\").match(/(){0}/))[1]
 === undefined;\n\nexport function parse(uriString:string, options:URIOptions = {}):URIComponents {\n\tconst components:URIComponents = {};\n\tconst protocol = (options.iri !== false ? IRI_PROTOCOL : URI_PROTOCOL);\n\n\tif (options.reference === \"suffix\") uriString = (options.scheme ? options.scheme + \":\" : \"\") + \"//\" + uriString;\n\n\tconst matches = uriString.match(URI_PARSE);\n\n\tif (matches) {\n\t\tif (NO_MATCH_IS_UNDEFINED) {\n\t\t\t//store each component\n\t\t\tcomponents.scheme = matches[1];\n\t\t\tcomponents.userinfo = matches[3];\n\t\t\tcomponents.host = matches[4];\n\t\t\tcomponents.port = parseInt(matches[5], 10);\n\t\t\tcomponents.path = matches[6] || \"\";\n\t\t\tcomponents.query = matches[7];\n\t\t\tcomponents.fragment = matches[8];\n\n\t\t\t//fix port number\n\t\t\tif (isNaN(components.port)) {\n\t\t\t\tcomponents.port = matches[5];\n\t\t\t}\n\t\t} else { //IE FIX for improper RegExp matching\n\t\t\t//store each component\n\t\t\tcomponents.scheme

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 = matches[1] || undefined;\n\t\t\tcomponents.userinfo = (uriString.indexOf(\"@\") !== -1 ? matches[3] :
undefined);\n\t\t\tcomponents.host = (uriString.indexOf(\"//\") !== -1 ? matches[4] :
undefined);\n\t\t\tcomponents.port = parseInt(matches[5], 10);\n\t\t\tcomponents.path = matches[6] ||
\"\";\n\t\t\tcomponents.query = (uriString.indexOf(\"?\") !== -1 ? matches[7] :
undefined);\n\t\t\tcomponents.fragment = (uriString.indexOf(\"#\") !== -1 ? matches[8] : undefined);\n\n\t\t\t//fix
port number\n\t\t\tif (isNaN(components.port)) {\n\t\t\t\tcomponents.port =
(uriString.match(/\\/\\/(?:.|\\n)*\\:(?:\\/|\\?|\\#|$)/) ? matches[4] : undefined);\n\t\t\t}\n\t\t}\n\n\tif (components.host)
{\n\t\t\t//normalize IP hosts\n\t\t\tcomponents.host = _normalizeIPv6(_normalizeIPv4(components.host, protocol),
protocol);\n\t\t}\n\n\t\t//determine reference type\n\tif (components.scheme === undefined &&
components.userinfo === undefined && components.host === undefined && components.port ===
 undefined && !components.path && components.query === undefined) {\n\t\t\tcomponents.reference = \"same-
document\";\n\t\t} else if (components.scheme === undefined) {\n\t\t\tcomponents.reference = \"relative\";\n\t\t}
else if (components.fragment === undefined) {\n\t\t\tcomponents.reference = \"absolute\";\n\t\t} else
{\n\t\t\tcomponents.reference = \"uri\";\n\t\t}\n\n\t\t//check for reference errors\n\tif (options.reference &&
options.reference !== \"suffix\" && options.reference !== components.reference) {\n\t\t\tcomponents.error =
components.error || \"URI is not a \" + options.reference + \" reference.\";\n\t\t}\n\n\t\t//find scheme
handler\n\tconst schemeHandler = SCHEMES[(options.scheme || components.scheme ||
\"\").toLowerCase()];\n\n\t\t//check if scheme can't handle IRIs\n\tif (!options.unicodeSupport &&
(!schemeHandler || !schemeHandler.unicodeSupport)) {\n\t\t\t//if host component is a domain name\n\t\t\tif
(components.host && (options.domainHost || (schemeHandler &&
 schemeHandler.domainHost))) {\n\t\t\t\t//convert Unicode IDN -> ASCII IDN\n\t\t\t\ttry {\n\t\t\t\t\tcomponents.host
= punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase());\n\t\t\t\t} 
catch (e) {\n\t\t\t\t\tcomponents.error = components.error || \"Host's domain name can not be converted to ASCII via
punycode: \" + e;\n\t\t\t\t}\n\t\t\t}\n\t\t\t//convert IRI -> URI\n\t\t\t_normalizeComponentEncoding(components,
URI_PROTOCOL);\n\t\t} else {\n\t\t\t//normalize encodings\n\t\t\t_normalizeComponentEncoding(components,
protocol);\n\t\t}\n\n\t\t//perform scheme specific parsing\n\tif (schemeHandler && schemeHandler.parse)
{\n\t\t\tschemeHandler.parse(components, options);\n\t\t}\n\t} else {\n\tcomponents.error = components.error ||
\"URI can not be parsed.\";\n\t}\n\n\treturn components;\n};\n\nfunction
_recomposeAuthority(components:URIComponents, options:URIOptions):string|undefined {\n\tconst protocol =
(options.iri !== false ? IRI_PROTOCOL : URI_PROTOCOL);\n\tconst
 uriTokens:Array<string> = [];\n\n\tif (components.userinfo !== undefined)
{\n\t\turiTokens.push(components.userinfo);\n\t\turiTokens.push(\"@\");\n\t}\n\n\tif (components.host !==
undefined) {\n\t\t//normalize IP hosts, add brackets and escape zone separator for
IPv6\n\t\turiTokens.push(_normalizeIPv6(_normalizeIPv4(String(components.host), protocol),
protocol).replace(protocol.IPV6ADDRESS, (_, $1, $2) => \"[\" + $1 + ($2 ? \"%25\" + $2 : \"\") + \"]\"));\n\t}\n\n\tif
(typeof components.port === \"number\")
{\n\t\turiTokens.push(\":\");\n\t\turiTokens.push(components.port.toString(10));\n\t}\n\n\treturn uriTokens.length ?
uriTokens.join(\"\") : undefined;\n};\n\nconst RDS1 = /^\\.\\.?\\//;\nconst RDS2 = /^\\/\\.(\\/|$)/;\nconst RDS3 =
/^\\/\\.\\.(\\/|$)/;\nconst RDS4 = /^\\.\\.?$/;\nconst RDS5 = /^\\/?(?:.|\\n)*?(?=\\/|$)/;\n\nexport function
removeDotSegments(input:string):string {\n\tconst output:Array<string> = [];\n\n\twhile (input.length) {\n\t\tif
(input.match(RDS1))
 {\n\t\t\tinput = input.replace(RDS1, \"\");\n\t\t} else if (input.match(RDS2)) {\n\t\t\tinput = input.replace(RDS2,
\"/\");\n\t\t} else if (input.match(RDS3)) {\n\t\t\tinput = input.replace(RDS3, \"/\");\n\t\t\toutput.pop();\n\t\t} else if
(input === \".\" || input === \"..\") {\n\t\t\tinput = \"\";\n\t\t} else {\n\t\t\tconst im = input.match(RDS5);\n\t\t\tif (im)
{\n\t\t\t\tconst s = im[0];\n\t\t\t\tinput = input.slice(s.length);\n\t\t\t\toutput.push(s);\n\t\t\t} else {\n\t\t\t\tthrow new
Error(\"Unexpected dot segment condition\");\n\t\t\t}\n\t\t}\n\t}\n\n\treturn output.join(\"\");\n};\n\nexport function
serialize(components:URIComponents, options:URIOptions = {}):string {\n\tconst protocol = (options.iri ?
IRI_PROTOCOL : URI_PROTOCOL);\n\tconst uriTokens:Array<string> = [];\n\n\t//find scheme handler\n\tconst
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schemeHandler = SCHEMES[(options.scheme || components.scheme || \"\").toLowerCase()];\n\n\t//perform scheme specific serialization\n\tif (schemeHandler && schemeHandler.serialize)
schemeHandler.serialize(components, options);\n\n\tif (components.host) {\n\t\t//if host component is an IPv6 address\n\t\tif (protocol.IPV6ADDRESS.test(components.host)) {\n\t\t\t//TODO: normalize IPv6 address as per RFC 5952\n\t\t}\n\n\t\t//if host component is a domain name\n\t\telse if (options.domainHost || (schemeHandler && schemeHandler.domainHost)) {\n\t\t\t//convert IDN via punycode\n\t\t\ttry {\n\t\t\t\tcomponents.host = (!options.iri ? punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase()) : punycode.toUnicode(components.host));\n\t\t\t} catch (e) {\n\t\t\t\tcomponents.error = components.error || \"Host's domain name can not be converted to \" + (!options.iri ? \"ASCII\" : \"Unicode\") + \" via punycode: \" + e;\n\t\t\t}\n\t\t}\n\t}\n\n\t//normalize encoding\n\t_normalizeComponentEncoding(components, protocol);\n\n\tif (options.reference !== \"suffix\" && components.scheme) {\n\t\turiTokens.push(components.scheme);\n\t\turiTokens.push(\":\");\n\t}\n\n\tconst authority = _recomposeAuthority(components, options);\n\tif (authority !== undefined) {\n\t\tif (options.reference !== \"suffix\") {\n\t\t\turiTokens.push(\"//\");\n\t\t}\n\n\t\turiTokens.push(authority);\n\n\t\tif (components.path && components.path.charAt(0) !== \"/\") {\n\t\t\turiTokens.push(\"/\");\n\t\t}\n\t}\n\n\tif (components.path !== undefined) {\n\t\tlet s = components.path;\n\n\t\tif (!options.absolutePath && (!schemeHandler || !schemeHandler.absolutePath)) {\n\t\t\ts = removeDotSegments(s);\n\t\t}\n\n\t\tif (authority === undefined) {\n\t\t\ts = s.replace(/^\\/\\//, \"/%2F\"); //don't allow the path to start with \"//\"\n\t\t}\n\n\t\turiTokens.push(s);\n\t}\n\n\tif (components.query !== undefined) {\n\t\turiTokens.push(\"?\");\n\t\turiTokens.push(components.query);\n\t}\n\n\tif (components.fragment !== undefined) {\n\t\turiTokens.push(\"#\");\n\t\turiTokens.push(components.fragment);\n\t}\n\n\treturn uriTokens.join(\"\"); //merge tokens into a string\n};\n\nexport function resolveComponents(base:URIComponents, relative:URIComponents, options:URIOptions = {}, skipNormalization?:boolean):URIComponents {\n\tconst target:URIComponents = {};\n\n\tif (!skipNormalization) {\n\t\tbase = parse(serialize(base, options), options); //normalize base components\n\t\trelative = parse(serialize(relative, options), options); //normalize relative components\n\t}\n\toptions = options || {};\n\n\tif (!options.tolerant && relative.scheme) {\n\t\ttarget.scheme = relative.scheme;\n\t\t//target.authority = relative.authority;\n\t\ttarget.userinfo = relative.userinfo;\n\t\ttarget.host = relative.host;\n\t\ttarget.port = relative.port;\n\t\ttarget.path = removeDotSegments(relative.path || \"\");\n\t\ttarget.query = relative.query;\n\t} else {\n\t\tif (relative.userinfo !== undefined || relative.host !== undefined || relative.port !== undefined) {\n\t\t\t//target.authority = relative.authority;\n\t\t\ttarget.userinfo = relative.userinfo;\n\t\t\ttarget.host = relative.host;\n\t\t\ttarget.port = relative.port;\n\t\t\ttarget.path = removeDotSegments(relative.path || \"\");\n\t\t\ttarget.query = relative.query;\n\t\t} else {\n\t\t\tif (!relative.path) {\n\t\t\t\ttarget.path = base.path;\n\t\t\t\tif (relative.query !== undefined) {\n\t\t\t\t\ttarget.query = relative.query;\n\t\t\t\t} else {\n\t\t\t\t\ttarget.query = base.query;\n\t\t\t\t}\n\t\t\t} else {\n\t\t\t\tif (relative.path.charAt(0) === \"/\") {\n\t\t\t\t\ttarget.path = removeDotSegments(relative.path);\n\t\t\t\t} else {\n\t\t\t\t\tif ((base.userinfo !== undefined || base.host !== undefined || base.port !== undefined) && !base.path) {\n\t\t\t\t\t\ttarget.path = \"/\" + relative.path;\n\t\t\t\t\t} else if (!base.path) {\n\t\t\t\t\t\ttarget.path = relative.path;\n\t\t\t\t\t} else {\n\t\t\t\t\t\ttarget.path = base.path.slice(0, base.path.lastIndexOf(\"/\") + 1) + relative.path;\n\t\t\t\t\t}\n\t\t\t\t\ttarget.path = removeDotSegments(target.path);\n\t\t\t\t}\n\t\t\t\ttarget.query = relative.query;\n\t\t\t}\n\t\t\t//target.authority = base.authority;\n\t\t\ttarget.userinfo = base.userinfo;\n\t\t\ttarget.host = base.host;\n\t\t\ttarget.port = base.port;\n\t\t}\n\t\ttarget.scheme = base.scheme;\n\t}\n\n\ttarget.fragment = relative.fragment;\n\n\treturn target;\n};\n\nexport function resolve(baseURI:string, relativeURI:string, options?:URIOptions):string {\n\tconst schemelessOptions = assign({ scheme : 'null' }, options);\n\treturn serialize(resolveComponents(parse(baseURI, schemelessOptions), parse(relativeURI, schemelessOptions), schemelessOptions, true), schemelessOptions);\n};\n\nexport function normalize(uri:string, options?:URIOptions):string;\nexport function normalize(uri:URIComponents,

options?:URIOptions):URIComponents;\nexport function normalize(uri:any, options?:URIOptions):any {\n\tif (typeof uri === \"string\") {\n\t\turi = serialize(parse(uri, options), options);\n\t} else if (typeOf(uri) === \"object\") {\n\t\turi = parse(serialize(<URIComponents>uri,
options), options);\n\t}\n\n\treturn uri;\n};\n\nexport function equal(uriA:string, uriB:string, options?:URIOptions):boolean;\nexport function equal(uriA:URIComponents, uriB:URIComponents, options?:URIOptions):boolean;\nexport function equal(uriA:any, uriB:any, options?:URIOptions):boolean {\n\tif (typeof uriA === \"string\") {\n\t\turiA = serialize(parse(uriA, options), options);\n\t} else if (typeOf(uriA) === \"object\") {\n\t\turiA = serialize(<URIComponents>uriA, options);\n\t}\n\n\tif (typeof uriB === \"string\") {\n\t\turiB = serialize(parse(uriB, options), options);\n\t} else if (typeOf(uriB) === \"object\") {\n\t\turiB = serialize(<URIComponents>uriB, options);\n\t}\n\n\treturn uriA === uriB;\n};\n\nexport function escapeComponent(str:string, options?:URIOptions):string {\n\treturn str && str.toString().replace((!options || !options.iri ? URI_PROTOCOL.ESCAPE : IRI_PROTOCOL.ESCAPE), pctEncChar);\n};\n\nexport function unescapeComponent(str:string, options?:URIOptions):string
{\n\treturn str && str.toString().replace((!options || !options.iri ? URI_PROTOCOL.PCT_ENCODED : IRI_PROTOCOL.PCT_ENCODED), pctDecChars);\n};\n","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport { pctEncChar, pctDecChars, unescapeComponent } from \"../uri\";\nimport punycode from \"punycode\";\nimport { merge, subexp, toUpperCase, toArray } from \"../util\";\n\nexport interface MailtoHeaders {\n\t[hfname:string]:string\n}\n\nexport interface MailtoComponents extends URIComponents {\n\tto:Array<string>,\n\theaders?:MailtoHeaders,\n\tsubject?:string,\n\tbody?:string\n}\n\nconst O:MailtoHeaders = {};\nconst isIRI = true;\n\n//RFC 3986\nconst UNRESERVED$$ = \"[A-Za-z0-9\\\\-\\\\._\\\\~\" + (isIRI ? \"\\\\xA0-\\\\u200D\\\\u2010-\\\\u2029\\\\u202F-\\\\uD7FF\\\\uF900-\\\\uFDCF\\\\uFDF0-\\\\uFFEF\" : \"\") + \"]\";\nconst HEXDIG$$ = \"[0-9A-Fa-f]\"; //case-insensitive\nconst PCT_ENCODED$ = subexp(subexp(\"%[EFef]\" + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$
+ \"%\" + HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%[89A-Fa-f]\" + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%\" + HEXDIG$$ + HEXDIG$$)); //expanded\n\n//RFC 5322, except these symbols as per RFC 6068: @ : / ? # [ ] & ; =\n//const ATEXT$$ = \"[A-Za-z0-9\\\\!\\\\#\\\\$\\\\%\\\\&\\\\'*\\\\+\\\\-\\\\/\\\\=\\\\?\\\\^_\\\\`\\\\{\\\\|\\\\}\\\\~]\";\n//const WSP$$ = \"[\\\\x20\\\\x09]\";\n//const OBS_QTEXT$$ = \"[\\\\x01-\\\\x08\\\\x0B\\\\x0C\\\\x0E-\\\\x1F\\\\x7F]\"; //(%d1-8 / %d11-12 / %d14-31 / %d127)\n//const QTEXT$$ = merge(\"[\\\\x21\\\\x23-\\\\x5B\\\\x5D-\\\\x7E]\", OBS_QTEXT$$); //%d33 / %d35-91 / %d93-126 / obs-qtext\n//const VCHAR$$ = \"[\\\\x21-\\\\x7E]\";\n//const WSP$$ = \"[\\\\x20\\\\x09]\";\n//const OBS_QP$ = subexp(\"\\\\\\\\\" + merge(\"[\\\\x00\\\\x0D\\\\x0A]\", OBS_QTEXT$$)); //%d0 / CR / LF / obs-qtext\n//const FWS$ = subexp(subexp(WSP$$ + \"*\" + \"\\\\x0D\\\\x0A\") + \"?\" + WSP$$ + \"+\");\n//const QUOTED_PAIR$ = subexp(subexp(\"\\\\\\\\\"
+ subexp(VCHAR$$ + \"|\" + WSP$$)) + \"|\" + OBS_QP$);\n//const QUOTED_STRING$ = subexp('\\\\\"' + subexp(FWS$ + \"?\" + QCONTENT$) + \"*\" + FWS$ + \"?\" + '\\\\\"');\nconst ATEXT$$ = \"[A-Za-z0-9\\\\!\\\\$\\\\%\\\\'*\\\\+\\\\-\\\\^_\\\\`\\\\{\\\\|\\\\}\\\\~]\";\nconst QTEXT$$ = \"[\\\\!\\\\$\\\\%\\\\'\\\\(\\\\)*\\\\+\\\\,\\\\-\\\\.0-9\\\\<\\\\>A-Z\\\\x5E-\\\\x7E]\";\nconst VCHAR$$ = merge(QTEXT$$, \"[\\\\\\\\\\\\\\\\]\");\nconst DOT_ATOM_TEXT$ = subexp(ATEXT$$ + \"+\" + subexp(\"\\\\.\" + ATEXT$$ + \"+\") + \"*\");\nconst QUOTED_PAIR$ = subexp(\"\\\\\\\\\" + VCHAR$$);\nconst QCONTENT$ = subexp(QTEXT$$ + \"|\" + QUOTED_PAIR$);\nconst QUOTED_STRING$ = subexp('\\\\\"' + QCONTENT$ + \"*\" + '\\\\\"');\n\n//RFC 6068\nconst DTEXT_NO_OBS$$ = \"[\\\\x21-\\\\x5A\\\\x5E-\\\\x7E]\"; //%d33-90 / %d94-126\nconst SOME_DELIMS$$ = \"[\\\\!\\\\$\\\\'\\\\(\\\\)*\\\\+\\\\,\\\\;\\\\:\\\\@]\";\nconst QCHAR$ = subexp(UNRESERVED$$ + \"|\" + PCT_ENCODED$ + \"|\" + SOME_DELIMS$$);\nconst
DOMAIN$ = subexp(DOT_ATOM_TEXT$ + \"|\" + \"\\\\[\" + DTEXT_NO_OBS$$ + \"*\" + \"\\\\]\");\nconst LOCAL_PART$ = subexp(DOT_ATOM_TEXT$ + \"|\" + QUOTED_STRING$);\nconst ADDR_SPEC$ = subexp(LOCAL_PART$ + \"\\\\@\" + DOMAIN$);\nconst TO$ = subexp(ADDR_SPEC$ + subexp(\"\\\\,\" + ADDR_SPEC$) + \"*\");\nconst HFNAME$ = subexp(QCHAR$ + \"*\");\nconst HFVALUE$ = HFNAME$;\nconst HFIELD$ = subexp(HFNAME$ + \"\\\\=\" + HFVALUE$);\nconst HFIELDS2$ =

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subexp(HFIELD$ + subexp(\"\\\\&\" + HFIELD$) + \"*\");\nconst HFIELDS$ = subexp(\"\\\\?\" +
HFIELDS2$);\nconst MAILTO_URI = new RegExp(\"^mailto\\\\:\" + TO$ + \"?\" + HFIELDS$ + \"?$\");\n\nconst
UNRESERVED = new RegExp(UNRESERVED$$, \"g\");\nconst PCT_ENCODED = new
RegExp(PCT_ENCODED$, \"g\");\nconst NOT_LOCAL_PART = new RegExp(merge(\"[^]\", ATEXT$$,
\"[\\\\.]\", '[\\\\\"]', VCHAR$$), \"g\");\nconst NOT_DOMAIN = new RegExp(merge(\"[^]\", ATEXT$$, \"[\\\\.]\",
\"[\\\\[]\", DTEXT_NO_OBS$$, \"[\\\\]]\"), \"g\");\nconst NOT_HFNAME = new RegExp(merge(\"[^]\",
 UNRESERVED$$, SOME_DELIMS$$), \"g\");\nconst NOT_HFVALUE = NOT_HFNAME;\nconst TO = new
RegExp(\"^\" + TO$ + \"$\");\nconst HFIELDS = new RegExp(\"^\" + HFIELDS2$ + \"$\");\n\nfunction
decodeUnreserved(str:string):string {\n\tconst decStr = pctDecChars(str);\n\treturn (!decStr.match(UNRESERVED)
? str : decStr);\n}\n\nconst handler:URISchemeHandler<MailtoComponents> =  {\n\tscheme : \"mailto\",\n\n\tparse
: function (components:URIComponents, options:URIOptions):MailtoComponents {\n\t\tconst mailtoComponents =
components as MailtoComponents;\n\t\tconst to = mailtoComponents.to = (mailtoComponents.path ?
mailtoComponents.path.split(\",\") : []);\n\t\tmailtoComponents.path = undefined;\n\n\t\tif
(mailtoComponents.query) {\n\t\t\tlet unknownHeaders = false\n\t\t\tconst headers:MailtoHeaders = {};\n\t\t\tconst
hfields = mailtoComponents.query.split(\"&\");\n\n\t\t\tfor (let x = 0, xl = hfields.length; x < xl; ++x) {\n\t\t\t\tconst
hfield = hfields[x].split(\"=\");\n\n\t\t\t\tswitch (hfield[0])
 {\n\t\t\t\tcase \"to\":\n\t\t\t\t\tconst toAddrs = hfield[1].split(\",\");\n\t\t\t\t\tfor (let x = 0, xl = toAddrs.length; x
< xl; ++x) {\n\t\t\t\t\tto.push(toAddrs[x]);\n\t\t\t\t}\n\t\t\t\tbreak;\n\t\t\tcase
\"subject\":\n\t\t\t\tmailtoComponents.subject = unescapeComponent(hfield[1],
options);\n\t\t\t\tbreak;\n\t\t\tcase \"body\":\n\t\t\t\tmailtoComponents.body =
unescapeComponent(hfield[1], options);\n\t\t\t\tbreak;\n\t\t\tdefault:\n\t\t\t\tunknownHeaders =
true;\n\t\t\t\theaders[unescapeComponent(hfield[0], options)] = unescapeComponent(hfield[1],
options);\n\t\t\t\tbreak;\n\t\t\t}\n\t\t}\n\n\t\tif (unknownHeaders) mailtoComponents.headers =
headers;\n\t}\n\n\tmailtoComponents.query = undefined;\n\n\tfor (let x = 0, xl = to.length; x < xl; ++x)
{\n\t\tconst addr = to[x].split(\"@\");\n\n\t\taddr[0] = unescapeComponent(addr[0]);\n\n\t\tif
(!options.unicodeSupport) {\n\t\t\t//convert Unicode IDN ->
 ASCII IDN\n\t\t\ttry {\n\t\t\t\taddr[1] = punycode.toASCII(unescapeComponent(addr[1],
options).toLowerCase());\n\t\t\t} catch (e) {\n\t\t\t\tmailtoComponents.error = mailtoComponents.error || \"Email
address's domain name can not be converted to ASCII via punycode: \" + e;\n\t\t\t}\n\t\t} else {\n\t\t\taddr[1] =
unescapeComponent(addr[1], options).toLowerCase();\n\t\t}\n\n\t\tto[x] = addr.join(\"@\");\n\t}\n\n\treturn
mailtoComponents;\n\t},\n\nserialize : function (mailtoComponents:MailtoComponents,
options:URIOptions):URIComponents {\n\t\tconst components = mailtoComponents as URIComponents;\n\t\tconst
to = toArray(mailtoComponents.to);\n\t\tif (to) {\n\t\t\tfor (let x = 0, xl = to.length; x < xl; ++x) {\n\t\t\t\tconst
toAddr = String(to[x]);\n\t\t\t\tconst atIdx = toAddr.lastIndexOf(\"@\");\n\t\t\t\tconst localPart = (toAddr.slice(0,
atIdx)).replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED,
toUpperCase).replace(NOT_LOCAL_PART, pctEncChar);\n\t\t\t\tlet
 domain = toAddr.slice(atIdx + 1);\n\n\t\t\t//convert IDN via punycode\n\t\t\ttry {\n\t\t\t\tdomain = (!options.iri ?
punycode.toASCII(unescapeComponent(domain, options).toLowerCase()) : punycode.toUnicode(domain));\n\t\t\t} catch (e) {\n\t\t\t\tcomponents.error = components.error || \"Email address's domain name can not be converted to
\" + (!options.iri ? \"ASCII\" : \"Unicode\") + \" via punycode: \" + e;\n\t\t\t}\n\n\t\t\tto[x] = localPart + \"@\" +
domain;\n\t\t}\n\n\t\tcomponents.path = to.join(\",\");\n\t}\n\n\tconst headers = mailtoComponents.headers =
mailtoComponents.headers || {};\n\n\tif (mailtoComponents.subject) headers[\"subject\"] =
mailtoComponents.subject;\n\tif (mailtoComponents.body) headers[\"body\"] =
mailtoComponents.body;\n\n\tconst fields = [];\n\tfor (const name in headers) {\n\t\tif (headers[name] !==
O[name]) {\n\t\t\tfields.push(\n\t\t\t\tname.replace(PCT_ENCODED,
decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFNAME,
 pctEncChar) +\n\t\t\t\t\"=\" +\n\t\t\t\theaders[name].replace(PCT_ENCODED,
decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFVALUE,
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pctEncChar)\n\t\t\t\t);\n\t\t\t\t}\n\t\t}\n\t\t}\n\t\tif (fields.length) {\n\t\t\tcomponents.query = fields.join(\"&\");\n\t\t\t}\n\n\t\treturn components;\n\t}\n}\n\nexport default handler;","import { URIRegExps } from \"./uri\";\nimport { buildExps } from \"./regexps-uri\";\n\nexport default buildExps(true);\n","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\n\nconst handler:URISchemeHandler = {\n\tscheme : \"http\",\n\n\tdomainHost : true,\n\n\tparse : function (components:URIComponents, options:URIOptions):URIComponents {\n\t\t//report missing host\n\t\tif (!components.host) {\n\t\t\tcomponents.error = components.error || \"HTTP URIs must have a host.\";\n\t\t}\n\n\treturn components;\n\t},\n\n\tserialize : function (components:URIComponents, options:URIOptions):URIComponents {\n\t\t//normalize the
 default port\n\t\tif (components.port === (String(components.scheme).toLowerCase() !== \"https\" ? 80 : 443) || components.port === \"\") {\n\t\t\tcomponents.port = undefined;\n\t\t}\n\t\t\n\t\t//normalize the empty path\n\t\tif (!components.path) {\n\t\t\tcomponents.path = \"/\";\n\t\t}\n\n\t\t//NOTE: We do not parse query strings for HTTP URIs\n\t\t//as WWW Form Url Encoded query strings are part of the HTML4+ spec,\n\t\t//and not the HTTP spec.\n\n\treturn components;\n\t}\n};\n\nexport default handler;","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport http from \"./http\";\n\nconst handler:URISchemeHandler = {\n\tscheme : \"https\",\n\tdomainHost : http.domainHost,\n\tparse : http.parse,\n\tserialize : http.serialize\n}\n\nexport default handler;","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport { pctEncChar, SCHEMES } from \"../uri\";\n\nexport interface URNComponents extends URIComponents {\n\tnid?:string;\n\tnss?:string;\n}\n\nexport
 interface URNOptions extends URIOptions {\n\tnid?:string;\n}\n\nconst NID$ = \"(?:[0-9A-Za-z][0-9A-Za-z\\\\-]{1,31})\";\nconst PCT_ENCODED$ = \"(?:\\\\%[0-9A-Fa-f]{2})\";\nconst TRANS$$ = \"[0-9A-Za-z\\\\(\\\\)\\\\+\\\\,\\\\-\\\\.\\\\:\\\\=\\\\@\\\\;\\\\$_\\\\!*\\\\'\\\\/\\\\?\\\\#]\";\nconst NSS$ = \"(?:(?:\" + PCT_ENCODED$ + \"|\" + TRANS$$ + \")+)\";\nconst URN_SCHEME = new RegExp(\"^urn\\\\:(\" + NID$ + \")$\");\nconst URN_PATH = new RegExp(\"^(\" + NID$ + \")\\\\:(\" + NSS$ + \")$\");\nconst URN_PARSE = /^([^\\:]+)\\:(.*)/;\nconst URN_EXCLUDED = /[\\x00-\\x20\\\\\\\"\\&\\<\\>\\[\\]\\^\\`\\{\\|\\}\\~\\x7F-\\xFF]/g;\n\n//RFC 2141\nconst handler:URISchemeHandler<URNComponents,URNOptions> = {\n\tscheme : \"urn\",\n\n\tparse : function (components:URIComponents, options:URNOptions):URNComponents {\n\t\tconst matches = components.path && components.path.match(URN_PARSE);\n\t\tlet urnComponents = components as URNComponents;\n\n\t\tif (matches) {\n\t\t\tconst
 scheme = options.scheme || urnComponents.scheme || \"urn\";\n\t\t\tconst nid = matches[1].toLowerCase();\n\t\t\tconst nss = matches[2];\n\t\t\tconst urnScheme = `${scheme}:${options.nid || nid}`;\n\t\t\tconst schemeHandler = SCHEMES[urnScheme];\n\n\t\t\turnComponents.nid = nid;\n\t\t\turnComponents.nss = nss;\n\t\t\turnComponents.path = undefined;\n\n\t\t\tif (schemeHandler) {\n\t\t\t\turnComponents = schemeHandler.parse(urnComponents, options) as URNComponents;\n\t\t\t}\n\t\t} else {\n\t\t\turnComponents.error = urnComponents.error || \"URN can not be parsed.\";\n\t\t}\n\n\treturn urnComponents;\n\t},\n\n\tserialize : function (urnComponents:URNComponents, options:URNOptions):URIComponents {\n\t\tconst scheme = options.scheme || urnComponents.scheme || \"urn\";\n\t\tconst nid = urnComponents.nid;\n\t\tconst urnScheme = `${scheme}:${options.nid || nid}`;\n\t\tconst schemeHandler = SCHEMES[urnScheme];\n\n\t\tif (schemeHandler) {\n\t\t\turnComponents = schemeHandler.serialize(urnComponents,
 options) as URNComponents;\n\t\t}\n\n\tconst uriComponents = urnComponents as URIComponents;\n\tconst nss = urnComponents.nss;\n\turiComponents.path = `${nid || options.nid}:${nss}`;\n\n\treturn uriComponents;\n\t},\n};\n\nexport default handler;","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport { URNComponents } from \"./urn\";\nimport { SCHEMES } from \"../uri\";\n\nexport interface UUIDComponents extends URNComponents {\n\tuuid?: string;\n}\n\nconst UUID = /^[0-9A-Fa-f]{8}(?:\\-[0-9A-Fa-f]{4}){3}\\-[0-9A-Fa-f]{12}$/;\nconst UUID_PARSE = /^[0-9A-Fa-f\\-]{36}/;\n\n//RFC 4122\nconst handler:URISchemeHandler<UUIDComponents, URIOptions, URNComponents> = {\n\tscheme : \"urn:uuid\",\n\n\tparse : function (urnComponents:URNComponents, options:URIOptions):UUIDComponents

{\n\t\tconst uuidComponents = urnComponents as UUIDComponents;\n\t\tuuidComponents.uuid = uuidComponents.nss;\n\t\tuuidComponents.nss = undefined;\n\n\t\tif (!options.tolerant && (!uuidComponents.uuid || !uuidComponents.uuid.match(UUID))) {\n\t\t\tuuidComponents.error = uuidComponents.error || \"UUID is not valid.\";\n\t\t}\n\n\t\treturn uuidComponents;\n\t},\n\n\tserialize : function (uuidComponents:UUIDComponents, options:URIOptions):URNComponents {\n\t\tconst urnComponents = uuidComponents as URNComponents;\n\t\t//normalize UUID\n\t\turnComponents.nss = (uuidComponents.uuid || \"\").toLowerCase();\n\t\treturn urnComponents;\n\t},\n};\n\nexport default handler;","import { SCHEMES } from \"./uri\";\n\nimport http from \"./schemes/http\";\nSCHEMES[http.scheme] = http;\n\nimport https from \"./schemes/https\";\nSCHEMES[https.scheme] = https;\n\nimport mailto from \"./schemes/mailto\";\nSCHEMES[mailto.scheme] = mailto;\n\nimport urn from \"./schemes/urn\";\nSCHEMES[urn.scheme] = urn;\n\nimport uuid from \"./schemes/urn-uuid\";\nSCHEMES[uuid.scheme] = uuid;\n\nexport * from \"./uri\";\n"]}

Found in path(s):
* /garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/dist/es5/uri.all.min.js.map

1.988 clone 1.0.4

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1.1000 unist-util-visit-parents 2.1.2

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* ~~~~~~~~~~~~~~~~~~~~
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1.1002 emoji-regex 8.0.0

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sources (e.g. the DES and DES3 modules were replaced with new ones
based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the
RIPEMD and Blowfish modules were re-implemented from their
respective algorithm specifications without reference to the old
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4. Removing some modules altogether without replacing them.

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Last updated: 2009-02-28

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=== EOF ===

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1.1015 ajv-keywords 3.4.1

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1.1027 unicode-canonical-property-names-ecmascript 1.0.4

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1.1039 workbox-build 4.3.1

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1.1052 v8-compile-cache 2.1.0

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1.1057 python-pip 19.2.3

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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
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes

2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
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2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
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2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
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2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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A. HISTORY OF THE SOFTWARE

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes

2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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1.1058 react-helmet 5.2.1

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1.1062 cmd-shim 3.0.3

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1.1063 stringify-entities 1.3.2

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1.1064 flat-cache 2.0.1

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1.1065 map-age-cleaner 0.1.3

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1.1066 word-wrap 1.2.3

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1.1067 prr 1.0.1

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1.1068 base 0.11.2

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1.1069 ajv 6.12.6

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1.1070 mixin-deep 1.3.2

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1.1072 opentracing 0.14.4

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1.1080 sisu-guava 0.9.9

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1.1089 events 3.0.0

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name: 'levn'
version: '0.3.0'

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keywords:
 'levn'
 'light'
 'ecmascript'
 'value'
 'notation'
 'json'
 'typed'
 'human'
 'concise'
 'typed'
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 node: '>= 0.8.0'
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 url: 'git://github.com/gkz/levn.git'
scripts:

test: "make test"

dependencies:
'prelude-ls': '~1.1.2'
'type-check': '~0.3.2'

dev-dependencies:
livescript: '~1.4.0'
mocha: '~2.3.4'
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1.1124 aether-connector-wagon 1.13.1

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1.1134 import-fresh 3.2.1

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1.1157 plexus-sec-dispatcher 1.3

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1.1158 create-hmac 1.1.7

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1.1159 jackson 2.12.0

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1.1162 chardet 4.0.0

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1.1171 tiny-relative-date 1.3.0

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1.1194 path-dirname 1.0.2

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1.1205 duplexer 0.1.1

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1.1209 plexus-cipher 1.7

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* /plexus-cipher-1-7-sources-jar/org/sonatype/plexus/components/cipher/PlexusCipherException.java
* /plexus-cipher-1-7-sources-jar/org/sonatype/plexus/components/cipher/DefaultPlexusCipher.java

1.1210 diffutils 3.7

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1.1211 define-properties 1.1.3

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1.1213 combined-stream 1.0.8

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1.1218 python-dotenv 0.17.0

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1.1219 jackson-databind 2.12.0

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1.1221 through2 2.0.5

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1.1223 meld 2.0.1

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1.1224 grpcio-tools 1.37.0

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* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/stringprintf_unittest.cc
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 /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/client_callback.h
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* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_tools/_proto/google/protobuf/duration.proto
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/io/tokenizer.cc
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/io/gzip_stream.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/repeated_field.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/proto3_arena_unittest.cc
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* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/util/json_format.proto
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 /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/timestamp.proto
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* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/unittest_proto3_lite.proto
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/util/internal/field_mask_utility.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_tools/_proto/google/protobuf/descriptor.proto
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/util/internal/object_location_tracker.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_bootstrap_unittest.cc
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/subprocess.h
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* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_generator.cc
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/util/internal/error_listener.cc
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/map_test_util.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/test_util2.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/dynamic_message_unittest.cc
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/descriptor.h
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*
*/
/** Signal that the call is cacheable. GRPC is free to use GET verb */
```

Found in path(s):
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/grpc_types.h
No license file was found, but licenses were detected in source scan.

```
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*
*/
```

Found in path(s):
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/census.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/server_builder.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/grpc.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/completion_queue.h
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*
*/
/** TLS server authorization check arguments, wraps
*  grpc_tls_server_authorization_check_arg. It is used for experimental
*  purposes for now and it is subject to change.
*
*  The server authorization check arg contains all the info necessary to
*  schedule/cancel a server authorization check request. The callback function
 *  must be called after finishing the schedule operation. See the description
*  of the grpc_tls_server_authorization_check_arg struct in grpc_security.h for
*  more details. **/
```

Found in path(s):
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/tls_credentials_options.h
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```
/* "grpc_tools/_protoc_compiler.pyx":1
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```

Found in path(s):
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_tools/_protoc_compiler.cpp
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*
*/
```

Found in path(s):
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/channel_argument_option.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/sync_custom.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/test/mock_stream.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/sync_custom.h
*
 /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/fork.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/fork.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/load_reporting.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/byte_buffer.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/error_details.h
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*/

Found in path(s):
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/message_allocator.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/validate_service_config.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/sync.h
*
 /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/cpp_plugin.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/opencensus.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/delegating_channel.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/server_context.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/config_protobuf.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/alts_util.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/cronet_credentials.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/alts_context.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/test/default_reactor_test_peer.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/message_allocator.h

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Found in path(s):
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_generator_unittest.cc
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/ruby/ruby_generator_unittest.cc
*
 /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/casts.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/map_util.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_helpers_unittest.cc
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*
*/
/// If set, grpc is free to use the HTTP GET verb for sending the request,

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* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/client_context.h
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* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/testing/zcgunzip.cc
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/testing/zcgzip.cc
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*
*/
```

Found in path(s):
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/log.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/security/auth_context.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/status.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/ruby_plugin.cc
*
 /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/atm.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/byte_buffer.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/csharp_generator_helpers.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/alarm.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/slice.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/python_plugin.cc
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/async_generic_service.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/rpc_method.h

* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/ruby_generator_string-inl.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/proto_utils.h
*
 /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/time.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/byte_buffer.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/objective_c_generator_helpers.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/compression.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/node_plugin.cc
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/client_unary_call.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/service_type.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/python_private_generator.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/byte_buffer_reader.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/grpc_security.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/python_generator_helpers.h
*
 /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/create_auth_context.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/atm.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/grpc_library.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/config_protobuf.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/generic/generic_stub.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/status.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/csharp_plugin.cc
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/csharp_generator.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/stub_options.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/client_interceptor.h
*
 /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/objective_c_generator.cc
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/schema_interface.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/completion_queue.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/async_unary_call.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/port_platform.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/string_util.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/slice.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/auth_metadata_processor.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/core_codegen_interface.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/method_handler.h
*
 /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/completion_queue_tag.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/atm_windows.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/stub_options.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/serialization_traits.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/async_stream.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/serialization_traits.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/sync_windows.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/time.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/interceptor.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/slice.h
*

/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/config.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/auth_context.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/server_interface.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/method_handler_impl.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/ruby_generator_map-inl.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/sync_generic.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/client_unary_call.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/string_ref.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/workaround_list.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/cpp_generator_helpers.h
*
/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/credentials.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/config.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/server_builder_option.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/status_code_enum.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/atm_gcc_atomic.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/call.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/status.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/byte_buffer_reader.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/generator_helpers.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/proto_buffer_reader.h
*
/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/objective_c_generator.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/channel.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/server.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/python_generator.cc
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/sync_posix.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/ext/proto_server_reflection_plugin.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/cpp_generator.cc
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/cpu.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/atm_gcc_sync.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/call_hook.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/cpp_plugin.cc
*
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* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/sync_stream.h
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* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/sync_posix.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/client_context.h
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/ruby_generator.h
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Found in path(s):
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/stubs/structurally_valid_unittest.cc
UNRECOGNIZED LICENSE; MD5 sum: 9a1eed2eb314ba24b64ad5a3ff7b03a0
No license file was found, but licenses were detected in source scan.

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*

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Metadata-Version: 1.1
Name: grpcio-tools
Version: 1.37.0
Summary: Protobuf code generator for gRPC
Home-page: https://grpc.io
Author: The gRPC Authors
Author-email: grpc-io@googlegroups.com
License: Apache License 2.0
Description: gRPC Python Tools
    ================

    Package for gRPC Python tools.

    Supported Python Versions

Python >= 3.5

Deprecated Python Versions

Python == 2.7. Python 2.7 support will be removed on January 1, 2020.

Installation

The gRPC Python tools package is available for Linux, Mac OS X, and Windows running Python 2.7.

Installing From PyPI
~~~~~~~~~~~~~~~~~~~~

If you are installing locally...

::

  $ pip install grpcio-tools

Else system wide (on Ubuntu)...

::

  $ sudo pip install grpcio-tools

If you're on Windows make sure that you installed the :code:`pip.exe` component when you installed Python (if not go back and install it!) then invoke:

::

  $ pip.exe install grpcio-tools

Windows users may need to invoke :code:`pip.exe` from a command line ran as administrator.

n.b. On Windows and on Mac OS X one *must* have a recent release of :code:`pip` to retrieve the proper wheel from PyPI. Be sure to upgrade to the latest version!

You might also need to install Cython to handle installation via the source distribution if gRPC Python's system coverage with wheels does not happen to include your system.

Installing From Source
~~~~~~~~~~~~~~~~~~~~~~

Building from source requires
that you have the Python headers (usually a
package named :code:`python-dev`) and Cython installed. It further requires a
GCC-like compiler to go smoothly; you can probably get it to work without
GCC-like stuff, but you may end up having a bad time.

::

```
$ export REPO_ROOT=grpc  # REPO_ROOT can be any directory of your choice
$ git clone -b RELEASE_TAG_HERE https://github.com/grpc/grpc $REPO_ROOT
$ cd $REPO_ROOT
$ git submodule update --init

$ cd tools/distrib/python/grpcio_tools
$ python ../make_grpcio_tools.py

# For the next command do `sudo pip install` if you get permission-denied errors
$ GRPC_PYTHON_BUILD_WITH_CYTHON=1 pip install .
```

You cannot currently install Python from source on Windows. Things might work
out for you in MSYS2 (follow the Linux instructions), but it isn't officially
supported at
the moment.

Troubleshooting
~~~~~~~~~~~~~~~

Help, I ...

* **... see a** :code:`pkg_resources.VersionConflict` **when I try to install
grpc**

This is likely because :code:`pip` doesn't own the offending dependency,
which in turn is likely because your operating system's package manager owns
it. You'll need to force the installation of the dependency:

:code:`pip install --ignore-installed $OFFENDING_DEPENDENCY`

For example, if you get an error like the following:

::

```
Traceback (most recent call last):
File "<string>", line 17, in <module>
 ...
File "/usr/lib/python2.7/dist-packages/pkg_resources.py", line 509, in find
  raise VersionConflict(dist, req)
```
~~~~~~~~~~~~~~~

pkg_resources.VersionConflict: (six 1.8.0 (/usr/lib/python2.7/dist-packages), Requirement.parse('six>=1.10'))

You can fix it by doing:

::

sudo pip install --ignore-installed six

* **... see compiler errors on some platforms when either installing from source or from the source distribution**

If you see

::

/tmp/pip-build-U8pSsr/cython/Cython/Plex/Scanners.c:4:20: fatal error: Python.h: No such file or directory
#include "Python.h"
^
compilation terminated.

You can fix it by installing `python-dev` package. i.e

::

sudo apt-get install python-dev

If you see something similar to:

::

third_party/protobuf/src/google/protobuf/stubs/mathlimits.h:173:31: note: in expansion of macro 'SIGNED_INT_MAX'
static const Type kPosMax = SIGNED_INT_MAX(Type); \\

^

And your toolchain is GCC (at the time of this writing, up through at least
GCC 6.0), this is probably a bug where GCC chokes on constant expressions
when the :code:`-fwrapv` flag is specified. You should consider setting your
environment with :code:`CFLAGS=-fno-wrapv` or using clang (:code:`CC=clang`).

Usage

Given protobuf include directories :code:`$INCLUDE`, an output directory
:code:`$OUTPUT`, and proto files :code:`$PROTO_FILES`, invoke as:

::

$ python -m grpc.tools.protoc -I$INCLUDE --python_out=$OUTPUT --grpc_python_out=$OUTPUT $PROTO_FILES

To use as a build step in distutils-based projects, you may use the provided command class in your :code:`setup.py`:

::

```
setuptools.setup(
  # ...
  cmdclass={
    'build_proto_modules': grpc.tools.command.BuildPackageProtos,
  }
  # ...
)
```

Invocation of the command will walk the project tree and transpile every :code:`.proto` file into a :code:`_pb2.py` file in the same directory.

Note that this particular approach requires :code:`grpcio-tools` to be installed on the machine before the setup script is invoked (i.e. no combination of :code:`setup_requires` or :code:`install_requires` will provide access to :code:`grpc.tools.command.BuildPackageProtos` if it isn't already installed). One way to work around this can be found in our :code:`grpcio-health-checking` `package <https://pypi.python.org/pypi/grpcio-health-checking>`_:

::

```
class BuildPackageProtos(setuptools.Command):
  """Command to generate project *_pb2.py modules from proto files."""
  # ...
  def run(self):
    from grpc.tools import
command
    command.build_package_protos(self.distribution.package_dir[''])
```

Now including :code:`grpcio-tools` in :code:`setup_requires` will provide the command on-setup as desired.

For more information on command classes, consult :code:`distutils` and :code:`setuptools` documentation.

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
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Found in path(s):
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpcio_tools.egg-info/PKG-INFO
* /grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/PKG-INFO

1.1225 xz 5.2.5

1.1225.1 Available under license :

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

e) Convey the object code using peer-to-peer transmission, provided

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==========

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1.1226 twisted 21.2.0

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1.1227 source-map 0.5.7

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1.1228 methods 1.1.2

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1.1229 fast-deep-equal 3.1.3

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1.1230 object.getownpropertydescriptors 2.0.3

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1.1231 react 16.12.0

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```
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*
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*/

'use strict';



if (process.env.NODE_ENV !== "production") {
```

```
 (function() {
'use strict';

var _assign = require('object-assign');
var checkPropTypes = require('prop-types/checkPropTypes');

// TODO: this is special because it gets imported during build.

var ReactVersion = '16.12.0';

// The Symbol used to tag the ReactElement-like types. If there is no native Symbol
// nor polyfill, then a plain number is used for performance.
var hasSymbol = typeof Symbol === 'function' && Symbol.for;
var REACT_ELEMENT_TYPE = hasSymbol ? Symbol.for('react.element') : 0xeac7;
var REACT_PORTAL_TYPE = hasSymbol ? Symbol.for('react.portal') : 0xeaca;
var REACT_FRAGMENT_TYPE = hasSymbol ? Symbol.for('react.fragment') : 0xeacb;
var REACT_STRICT_MODE_TYPE
 = hasSymbol ? Symbol.for('react.strict_mode') : 0xeacc;
var REACT_PROFILER_TYPE = hasSymbol ? Symbol.for('react.profiler') : 0xead2;
var REACT_PROVIDER_TYPE = hasSymbol ? Symbol.for('react.provider') : 0xeacd;
var REACT_CONTEXT_TYPE = hasSymbol ? Symbol.for('react.context') : 0xeace; // TODO: We don't use
AsyncMode or ConcurrentMode anymore. They were temporary
// (unstable) APIs that have been removed. Can we remove the symbols?


var REACT_CONCURRENT_MODE_TYPE = hasSymbol ? Symbol.for('react.concurrent_mode') : 0xeacf;
var REACT_FORWARD_REF_TYPE = hasSymbol ? Symbol.for('react.forward_ref') : 0xead0;
var REACT_SUSPENSE_TYPE = hasSymbol ? Symbol.for('react.suspense') : 0xead1;
var REACT_SUSPENSE_LIST_TYPE = hasSymbol ? Symbol.for('react.suspense_list') : 0xead8;
var REACT_MEMO_TYPE = hasSymbol ? Symbol.for('react.memo') : 0xead3;
var REACT_LAZY_TYPE = hasSymbol ? Symbol.for('react.lazy') : 0xead4;
var REACT_FUNDAMENTAL_TYPE = hasSymbol ? Symbol.for('react.fundamental')
 : 0xead5;
var REACT_RESPONDER_TYPE = hasSymbol ? Symbol.for('react.responder') : 0xead6;
var REACT_SCOPE_TYPE = hasSymbol ? Symbol.for('react.scope') : 0xead7;
var MAYBE_ITERATOR_SYMBOL = typeof Symbol === 'function' && Symbol.iterator;
var FAUX_ITERATOR_SYMBOL = '@@iterator';
function getIteratorFn(maybeIterable) {
 if (maybeIterable === null || typeof maybeIterable !== 'object') {
   return null;
 }

 var maybeIterator = MAYBE_ITERATOR_SYMBOL && maybeIterable[MAYBE_ITERATOR_SYMBOL] ||
maybeIterable[FAUX_ITERATOR_SYMBOL];

 if (typeof maybeIterator === 'function') {
   return maybeIterator;
 }
```

```
 return null;
}

// Do not require this module directly! Use normal `invariant` calls with
// template literal strings. The messages will be replaced with error codes
// during build.

/**
* Use invariant() to assert state which your program assumes to be true.
*
* Provide sprintf-style format (only %s is supported) and arguments
* to provide
 information about what broke and what you were
* expecting.
*
* The invariant message will be stripped in production, but the invariant
* will remain to ensure logic does not differ in production.
*/

/**
* Forked from fbjs/warning:
*
https://github.com/facebook/fbjs/blob/e66ba20ad5be433eb54423f2b097d829324d9de6/packages/fbjs/src/__forks__/
warning.js
*
* Only change is we use console.warn instead of console.error,
* and do nothing when 'console' is not supported.
* This really simplifies the code.
* ---
* Similar to invariant but only logs a warning if the condition is not met.
* This can be used to log issues in development environments in critical
* paths. Removing the logging code for production environments will keep the
* same logic and follow the same code paths.
*/
var lowPriorityWarningWithoutStack = function () {};

{
 var printWarning = function (format) {
   for (var _len = arguments.length, args = new Array(_len > 1 ? _len - 1 :
 0), _key = 1; _key < _len; _key++) {
     args[_key - 1] = arguments[_key];
   }

   var argIndex = 0;
   var message = 'Warning: ' + format.replace(/%s/g, function () {
     return args[argIndex++];
   });
```

```
  if (typeof console !== 'undefined') {
    console.warn(message);
  }

  try {
    // --- Welcome to debugging React ---
    // This error was thrown as a convenience so that you can use this stack
    // to find the callsite that caused this warning to fire.
    throw new Error(message);
  } catch (x) {}
 };

 lowPriorityWarningWithoutStack = function (condition, format) {
  if (format === undefined) {
    throw new Error(`lowPriorityWarningWithoutStack(condition, format, ...args)` requires a warning ' + 'message
argument');
  }

  if (!condition) {
    for (var _len2 = arguments.length, args = new Array(_len2 > 2 ? _len2 - 2 : 0), _key2 = 2; _key2 < _len2;
_key2++) {
      args[_key2 - 2] = arguments[_key2];

    }

    printWarning.apply(void 0, [format].concat(args));
  }
 };
}

var lowPriorityWarningWithoutStack$1 = lowPriorityWarningWithoutStack;

/**
* Similar to invariant but only logs a warning if the condition is not met.
* This can be used to log issues in development environments in critical
* paths. Removing the logging code for production environments will keep the
* same logic and follow the same code paths.
*/
var warningWithoutStack = function () {};

{
 warningWithoutStack = function (condition, format) {
  for (var _len = arguments.length, args = new Array(_len > 2 ? _len - 2 : 0), _key = 2; _key < _len; _key++) {
    args[_key - 2] = arguments[_key];
  }

  if (format === undefined) {
```

```
    throw new Error('`warningWithoutStack(condition, format, ...args)` requires a warning ' + 'message argument');
  }

  if (args.length > 8) {
    // Check before the condition to catch violations early.
    throw new Error('warningWithoutStack()
 currently supports at most 8 arguments.');
  }

  if (condition) {
    return;
  }

  if (typeof console !== 'undefined') {
    var argsWithFormat = args.map(function (item) {
      return '' + item;
    });
    argsWithFormat.unshift('Warning: ' + format); // We intentionally don't use spread (or .apply) directly because it
    // breaks IE9: https://github.com/facebook/react/issues/13610

    Function.prototype.apply.call(console.error, console, argsWithFormat);
  }

  try {
    // --- Welcome to debugging React ---
    // This error was thrown as a convenience so that you can use this stack
    // to find the callsite that caused this warning to fire.
    var argIndex = 0;
    var message = 'Warning: ' + format.replace(/%s/g, function () {
      return args[argIndex++];
    });
    throw new Error(message);
  } catch (x) {}
 };
}

var warningWithoutStack$1 = warningWithoutStack;

var didWarnStateUpdateForUnmountedComponent
 = {};

function warnNoop(publicInstance, callerName) {
 {
  var _constructor = publicInstance.constructor;
  var componentName = _constructor && (_constructor.displayName || _constructor.name) || 'ReactClass';
  var warningKey = componentName + '.' + callerName;

  if (didWarnStateUpdateForUnmountedComponent[warningKey]) {
```

```
    return;
  }

  warningWithoutStack$1(false, "Can't call %s on a component that is not yet mounted. " + 'This is a no-op, but it might indicate a bug in your application. ' + 'Instead, assign to `this.state` directly or define a `state = {};` ' + 'class property with the desired state in the %s component.', callerName, componentName);
  didWarnStateUpdateForUnmountedComponent[warningKey] = true;
 }
}
/**
* This is the abstract API for an update queue.
*/


var ReactNoopUpdateQueue = {
 /**
  * Checks whether or not this composite component is mounted.
  * @param {ReactClass} publicInstance
 The instance we want to test.
  * @return {boolean} True if mounted, false otherwise.
  * @protected
  * @final
  */
 isMounted: function (publicInstance) {
  return false;
 },

 /**
  * Forces an update. This should only be invoked when it is known with
  * certainty that we are **not** in a DOM transaction.
  *
  * You may want to call this when you know that some deeper aspect of the
  * component's state has changed but `setState` was not called.
  *
  * This will not invoke `shouldComponentUpdate`, but it will invoke
  * `componentWillUpdate` and `componentDidUpdate`.
  *
  * @param {ReactClass} publicInstance The instance that should rerender.
  * @param {?function} callback Called after component is updated.
  * @param {?string} callerName name of the calling function in the public API.
  * @internal
  */
 enqueueForceUpdate: function (publicInstance, callback, callerName) {
  warnNoop(publicInstance, 'forceUpdate');
 },

 /**
  * Replaces all of the state. Always use this or `setState` to mutate state.
```

```
 * You should treat `this.state` as immutable.
 *
 * There is no guarantee that `this.state` will be immediately updated, so
 * accessing `this.state` after calling this method may return the old value.
 *
 * @param {ReactClass} publicInstance The instance that should rerender.
 * @param {object} completeState Next state.
 * @param {?function} callback Called after component is updated.
 * @param {?string} callerName name of the calling function in the public API.
 * @internal
 */
enqueueReplaceState: function (publicInstance, completeState, callback, callerName) {
  warnNoop(publicInstance, 'replaceState');
},

/**
 * Sets a subset of the state. This only exists because _pendingState is
 * internal. This provides a merging strategy that is not available to deep
 * properties which is confusing. TODO: Expose pendingState or don't use it
 * during
the merge.
 *
 * @param {ReactClass} publicInstance The instance that should rerender.
 * @param {object} partialState Next partial state to be merged with state.
 * @param {?function} callback Called after component is updated.
 * @param {?string} Name of the calling function in the public API.
 * @internal
 */
enqueueSetState: function (publicInstance, partialState, callback, callerName) {
  warnNoop(publicInstance, 'setState');
 }
};

var emptyObject = {};

{
 Object.freeze(emptyObject);
}
/**
* Base class helpers for the updating state of a component.
*/


function Component(props, context, updater) {
 this.props = props;
 this.context = context; // If a component has string refs, we will assign a different object later.

 this.refs = emptyObject; // We initialize the default updater but the real one gets injected by the
```

```
 // renderer.

 this.updater = updater || ReactNoopUpdateQueue;
}

Component.prototype.isReactComponent
 = {};
/**
* Sets a subset of the state. Always use this to mutate
* state. You should treat `this.state` as immutable.
*
* There is no guarantee that `this.state` will be immediately updated, so
* accessing `this.state` after calling this method may return the old value.
*
* There is no guarantee that calls to `setState` will run synchronously,
* as they may eventually be batched together.  You can provide an optional
* callback that will be executed when the call to setState is actually
* completed.
*
* When a function is provided to setState, it will be called at some point in
* the future (not synchronously). It will be called with the up to date
* component arguments (state, props, context). These values can be different
* from this.* because your function may be called after receiveProps but before
* shouldComponentUpdate, and this new state, props, and context will not yet be
* assigned to this.
*
* @param {object|function} partialState
 Next partial state or function to
*        produce next partial state to be merged with current state.
* @param {?function} callback Called after state is updated.
* @final
* @protected
*/

Component.prototype.setState = function (partialState, callback) {
 if (!(typeof partialState === 'object' || typeof partialState === 'function' || partialState == null)) {
   {
     throw Error("setState(...): takes an object of state variables to update or a function which returns an object of state
variables.");
   }
 }

 this.updater.enqueueSetState(this, partialState, callback, 'setState');
};
/**
* Forces an update. This should only be invoked when it is known with
* certainty that we are **not** in a DOM transaction.
*
```

```
* You may want to call this when you know that some deeper aspect of the
* component's state has changed but `setState` was not called.
*
* This will not invoke `shouldComponentUpdate`, but it will invoke
* `componentWillUpdate` and `componentDidUpdate`.
 *
* @param {?function} callback Called after update is complete.
* @final
* @protected
*/


Component.prototype.forceUpdate = function (callback) {
 this.updater.enqueueForceUpdate(this, callback, 'forceUpdate');
};
/**
* Deprecated APIs. These APIs used to exist on classic React classes but since
* we would like to deprecate them, we're not going to move them over to this
* modern base class. Instead, we define a getter that warns if it's accessed.
*/


{
 var deprecatedAPIs = {
   isMounted: ['isMounted', 'Instead, make sure to clean up subscriptions and pending requests in ' +
'componentWillUnmount to prevent memory leaks.'],
   replaceState: ['replaceState', 'Refactor your code to use setState instead (see ' +
'https://github.com/facebook/react/issues/3236).']
 };

 var defineDeprecationWarning = function (methodName, info) {
   Object.defineProperty(Component.prototype, methodName, {
     get: function () {
       lowPriorityWarningWithoutStack$1(false,
 '%s(...) is deprecated in plain JavaScript React classes. %s', info[0], info[1]);
       return undefined;
     }
   });
 };

 for (var fnName in deprecatedAPIs) {
   if (deprecatedAPIs.hasOwnProperty(fnName)) {
     defineDeprecationWarning(fnName, deprecatedAPIs[fnName]);
   }
 }
}

function ComponentDummy() {}
```

```
ComponentDummy.prototype = Component.prototype;
/**
* Convenience component with default shallow equality check for sCU.
*/

function PureComponent(props, context, updater) {
 this.props = props;
 this.context = context; // If a component has string refs, we will assign a different object later.

 this.refs = emptyObject;
 this.updater = updater || ReactNoopUpdateQueue;
}

var pureComponentPrototype = PureComponent.prototype = new ComponentDummy();
pureComponentPrototype.constructor = PureComponent; // Avoid an extra prototype jump for these methods.

_assign(pureComponentPrototype, Component.prototype);

pureComponentPrototype.isPureReactComponent
 = true;

// an immutable object with a single mutable value
function createRef() {
 var refObject = {
   current: null
 };

 {
   Object.seal(refObject);
 }

 return refObject;
}

/**
* Keeps track of the current dispatcher.
*/
var ReactCurrentDispatcher = {
 /**
  * @internal
  * @type {ReactComponent}
  */
 current: null
};

/**
* Keeps track of the current batch's configuration such as how long an update
```

```
* should suspend for if it needs to.
*/
var ReactCurrentBatchConfig = {
 suspense: null
};

/**
* Keeps track of the current owner.
*
* The current owner is the component who should own any components that are
* currently being constructed.
*/
var ReactCurrentOwner = {
 /**
  * @internal
  * @type {ReactComponent}
  */
 current: null
};

var BEFORE_SLASH_RE = /^(.*)[\\\/]/;
var describeComponentFrame = function (name, source, ownerName) {
 var sourceInfo
 = '';

 if (source) {
  var path = source.fileName;
  var fileName = path.replace(BEFORE_SLASH_RE, '');

  {
   // In DEV, include code for a common special case:
   // prefer "folder/index.js" instead of just "index.js".
   if (/^index\./.test(fileName)) {
    var match = path.match(BEFORE_SLASH_RE);

    if (match) {
     var pathBeforeSlash = match[1];

     if (pathBeforeSlash) {
      var folderName = pathBeforeSlash.replace(BEFORE_SLASH_RE, '');
      fileName = folderName + '/' + fileName;
     }
    }
   }
  }

  sourceInfo = ' (at ' + fileName + ':' + source.lineNumber + ')';
 } else if (ownerName) {
```

```
  sourceInfo = ' (created by ' + ownerName + ')';
 }

 return '\n    in ' + (name || 'Unknown') + sourceInfo;
};

var Resolved = 1;

function refineResolvedLazyComponent(lazyComponent) {
 return lazyComponent._status === Resolved ? lazyComponent._result : null;
}

function
 getWrappedName(outerType, innerType, wrapperName) {
 var functionName = innerType.displayName || innerType.name || '';
 return outerType.displayName || (functionName !== '' ? wrapperName + "(" + functionName + ")" : wrapperName);
}

function getComponentName(type) {
 if (type == null) {
  // Host root, text node or just invalid type.
  return null;
 }

 {
  if (typeof type.tag === 'number') {
    warningWithoutStack$1(false, 'Received an unexpected object in getComponentName(). ' + 'This is likely a bug
in React. Please file an issue.');
  }
 }

 if (typeof type === 'function') {
  return type.displayName || type.name || null;
 }

 if (typeof type === 'string') {
  return type;
 }

 switch (type) {
  case REACT_FRAGMENT_TYPE:
    return 'Fragment';

  case REACT_PORTAL_TYPE:
    return 'Portal';

  case REACT_PROFILER_TYPE:
    return "Profiler";
```

```
  case REACT_STRICT_MODE_TYPE:
    return 'StrictMode';

   case REACT_SUSPENSE_TYPE:
    return 'Suspense';

  case REACT_SUSPENSE_LIST_TYPE:
    return 'SuspenseList';
 }

 if (typeof type === 'object') {
  switch (type.$$typeof) {
    case REACT_CONTEXT_TYPE:
      return 'Context.Consumer';

    case REACT_PROVIDER_TYPE:
      return 'Context.Provider';

    case REACT_FORWARD_REF_TYPE:
      return getWrappedName(type, type.render, 'ForwardRef');

    case REACT_MEMO_TYPE:
      return getComponentName(type.type);

    case REACT_LAZY_TYPE:
      {
        var thenable = type;
        var resolvedThenable = refineResolvedLazyComponent(thenable);

        if (resolvedThenable) {
          return getComponentName(resolvedThenable);
        }

        break;
      }
  }
 }

 return null;
}

var ReactDebugCurrentFrame = {};
var currentlyValidatingElement = null;
function setCurrentlyValidatingElement(element) {
 {
  currentlyValidatingElement = element;
```

```
  }
}

{
 // Stack implementation injected by the current renderer.
 ReactDebugCurrentFrame.getCurrentStack = null;

 ReactDebugCurrentFrame.getStackAddendum = function () {
   var stack = ''; // Add an extra top frame while an element is being validated

   if (currentlyValidatingElement) {
     var name = getComponentName(currentlyValidatingElement.type);
     var owner = currentlyValidatingElement._owner;
     stack += describeComponentFrame(name, currentlyValidatingElement._source, owner &&
getComponentName(owner.type));
   } // Delegate to the injected renderer-specific implementation


   var impl = ReactDebugCurrentFrame.getCurrentStack;

   if (impl) {
     stack += impl() || '';
   }

   return stack;
 };
}

/**
* Used by act() to track whether you're inside an act() scope.
*/
var IsSomeRendererActing = {
 current: false
};

var ReactSharedInternals = {
 ReactCurrentDispatcher: ReactCurrentDispatcher,
 ReactCurrentBatchConfig:
 ReactCurrentBatchConfig,
 ReactCurrentOwner: ReactCurrentOwner,
 IsSomeRendererActing: IsSomeRendererActing,
 // Used by renderers to avoid bundling object-assign twice in UMD bundles:
 assign: _assign
};

{
 _assign(ReactSharedInternals, {
   // These should not be included in production.
```

```
  ReactDebugCurrentFrame: ReactDebugCurrentFrame,
  // Shim for React DOM 16.0.0 which still destructured (but not used) this.
  // TODO: remove in React 17.0.
  ReactComponentTreeHook: {}
 });
}

/**
* Similar to invariant but only logs a warning if the condition is not met.
* This can be used to log issues in development environments in critical
* paths. Removing the logging code for production environments will keep the
* same logic and follow the same code paths.
*/

var warning = warningWithoutStack$1;

{
 warning = function (condition, format) {
  if (condition) {
   return;
  }

  var ReactDebugCurrentFrame = ReactSharedInternals.ReactDebugCurrentFrame;
   var stack = ReactDebugCurrentFrame.getStackAddendum(); // eslint-disable-next-line react-internal/warning-
and-invariant-args

  for (var _len = arguments.length, args = new Array(_len > 2 ? _len - 2 : 0), _key = 2; _key < _len; _key++) {
   args[_key - 2] = arguments[_key];
  }

  warningWithoutStack$1.apply(void 0, [false, format + '%s'].concat(args, [stack]));
 };
}

var warning$1 = warning;

var hasOwnProperty = Object.prototype.hasOwnProperty;
var RESERVED_PROPS = {
 key: true,
 ref: true,
 __self: true,
 __source: true
};
var specialPropKeyWarningShown;
var specialPropRefWarningShown;

function hasValidRef(config) {
 {
```

```
  if (hasOwnProperty.call(config, 'ref')) {
    var getter = Object.getOwnPropertyDescriptor(config, 'ref').get;

    if (getter && getter.isReactWarning) {
      return false;
    }
  }
 }

 return config.ref !== undefined;
}

function hasValidKey(config) {
 {
   if (hasOwnProperty.call(config, 'key')) {
    var getter = Object.getOwnPropertyDescriptor(config, 'key').get;

    if (getter && getter.isReactWarning) {
      return false;
    }
  }
 }

 return config.key !== undefined;
}

function defineKeyPropWarningGetter(props, displayName) {
 var warnAboutAccessingKey = function () {
  if (!specialPropKeyWarningShown) {
    specialPropKeyWarningShown = true;
    warningWithoutStack$1(false, '%s: `key` is not a prop. Trying to access it will result ' + 'in `undefined` being
returned. If you need to access the same ' + 'value within the child component, you should pass it as a different ' +
'prop. (https://fb.me/react-special-props)', displayName);
  }
 };

 warnAboutAccessingKey.isReactWarning = true;
 Object.defineProperty(props, 'key', {
  get: warnAboutAccessingKey,
  configurable: true
 });
}

function defineRefPropWarningGetter(props, displayName) {
 var warnAboutAccessingRef =
 function () {
  if (!specialPropRefWarningShown) {
    specialPropRefWarningShown = true;
```

```
    warningWithoutStack$1(false, '%s: `ref` is not a prop. Trying to access it will result ' + 'in `undefined` being returned. If you need to access the same ' + 'value within the child component, you should pass it as a different ' + 'prop. (https://fb.me/react-special-props)', displayName);
  }
 };

 warnAboutAccessingRef.isReactWarning = true;
 Object.defineProperty(props, 'ref', {
  get: warnAboutAccessingRef,
  configurable: true
 });
}
/**
* Factory method to create a new React element. This no longer adheres to
* the class pattern, so do not use new to call it. Also, instanceof check
* will not work. Instead test $$typeof field against Symbol.for('react.element') to check
* if something is a React Element.
*
* @param {*} type
* @param {*} props
* @param {*} key
* @param {string|object} ref
* @param {*} owner
* @param {*} self A *temporary*
 helper to detect places where `this` is
* different from the `owner` when React.createElement is called, so that we
* can warn. We want to get rid of owner and replace string `ref`s with arrow
* functions, and as long as `this` and owner are the same, there will be no
* change in behavior.
* @param {*} source An annotation object (added by a transpiler or otherwise)
* indicating filename, line number, and/or other information.
* @internal
*/


var ReactElement = function (type, key, ref, self, source, owner, props) {
 var element = {
  // This tag allows us to uniquely identify this as a React Element
  $$typeof: REACT_ELEMENT_TYPE,
  // Built-in properties that belong on the element
  type: type,
  key: key,
  ref: ref,
  props: props,
  // Record the component responsible for creating this element.
  _owner: owner
 };
```

```
{
  // The validation flag is currently mutative. We put it on
  // an external backing store so that we can
freeze the whole object.
  // This can be replaced with a WeakMap once they are implemented in
  // commonly used development environments.
  element._store = {}; // To make comparing ReactElements easier for testing purposes, we make
  // the validation flag non-enumerable (where possible, which should
  // include every environment we run tests in), so the test framework
  // ignores it.

  Object.defineProperty(element._store, 'validated', {
    configurable: false,
    enumerable: false,
    writable: true,
    value: false
  }); // self and source are DEV only properties.

  Object.defineProperty(element, '_self', {
    configurable: false,
    enumerable: false,
    writable: false,
    value: self
  }); // Two elements created in two different places should be considered
  // equal for testing purposes and therefore we hide it from enumeration.

  Object.defineProperty(element, '_source', {
    configurable: false,
     enumerable: false,
    writable: false,
    value: source
  });

  if (Object.freeze) {
    Object.freeze(element.props);
    Object.freeze(element);
  }
 }

 return element;
};
/**
* https://github.com/reactjs/rfcs/pull/107
* @param {*} type
* @param {object} props
* @param {string} key
*/
```

```
/**
* https://github.com/reactjs/rfcs/pull/107
* @param {*} type
* @param {object} props
* @param {string} key
*/

function jsxDEV(type, config, maybeKey, source, self) {
 var propName; // Reserved names are extracted

 var props = {};
 var key = null;
 var ref = null; // Currently, key can be spread in as a prop. This causes a potential
 // issue if key is also explicitly declared (ie. <div {...props} key="Hi" />
 // or <div key="Hi" {...props} /> ). We want to deprecate key spread,
 // but as an intermediary step, we will use jsxDEV for everything except
 // <div {...props} key="Hi" />, because we aren't currently
 able to tell if
 // key is explicitly declared to be undefined or not.

 if (maybeKey !== undefined) {
   key = '' + maybeKey;
 }

 if (hasValidKey(config)) {
   key = '' + config.key;
 }

 if (hasValidRef(config)) {
   ref = config.ref;
 } // Remaining properties are added to a new props object


 for (propName in config) {
   if (hasOwnProperty.call(config, propName) && !RESERVED_PROPS.hasOwnProperty(propName)) {
     props[propName] = config[propName];
   }
 } // Resolve default props


 if (type && type.defaultProps) {
   var defaultProps = type.defaultProps;

   for (propName in defaultProps) {
     if (props[propName] === undefined) {
       props[propName] = defaultProps[propName];
```

```
    }
  }
 }

 if (key || ref) {
  var displayName = typeof type === 'function' ? type.displayName || type.name || 'Unknown' : type;

  if (key) {
   defineKeyPropWarningGetter(props, displayName);
  }

  if (ref) {

 defineRefPropWarningGetter(props, displayName);
  }
 }

 return ReactElement(type, key, ref, self, source, ReactCurrentOwner.current, props);
}
/**
* Create and return a new ReactElement of the given type.
* See https://reactjs.org/docs/react-api.html#createelement
*/

function createElement(type, config, children) {
 var propName; // Reserved names are extracted

 var props = {};
 var key = null;
 var ref = null;
 var self = null;
 var source = null;

 if (config != null) {
  if (hasValidRef(config)) {
   ref = config.ref;
  }

  if (hasValidKey(config)) {
   key = '' + config.key;
  }

  self = config.__self === undefined ? null : config.__self;
  source = config.__source === undefined ? null : config.__source; // Remaining properties are added to a new
props object

  for (propName in config) {
   if (hasOwnProperty.call(config, propName) && !RESERVED_PROPS.hasOwnProperty(propName)) {
```

```
      props[propName] = config[propName];
     }
   }
} // Children can be more than one argument, and those are transferred onto
// the newly allocated props object.


var childrenLength = arguments.length - 2;

if (childrenLength === 1) {
  props.children = children;
} else if (childrenLength > 1) {
  var childArray = Array(childrenLength);

  for (var i = 0; i < childrenLength; i++) {
    childArray[i] = arguments[i + 2];
  }

  {
    if (Object.freeze) {
      Object.freeze(childArray);
    }
  }

  props.children = childArray;
} // Resolve default props


if (type && type.defaultProps) {
  var defaultProps = type.defaultProps;

  for (propName in defaultProps) {
    if (props[propName] === undefined) {
      props[propName] = defaultProps[propName];
    }
  }
}

{
  if (key || ref) {
    var displayName = typeof type === 'function' ? type.displayName || type.name || 'Unknown' : type;

    if (key) {

    defineKeyPropWarningGetter(props, displayName);
    }

    if (ref) {
```

```
      defineRefPropWarningGetter(props, displayName);
    }
  }
 }

 return ReactElement(type, key, ref, self, source, ReactCurrentOwner.current, props);
}
/**
* Return a function that produces ReactElements of a given type.
* See https://reactjs.org/docs/react-api.html#createfactory
*/


function cloneAndReplaceKey(oldElement, newKey) {
 var newElement = ReactElement(oldElement.type, newKey, oldElement.ref, oldElement._self, oldElement._source,
oldElement._owner, oldElement.props);
 return newElement;
}
/**
* Clone and return a new ReactElement using element as the starting point.
* See https://reactjs.org/docs/react-api.html#cloneelement
*/

function cloneElement(element, config, children) {
 if (!!(element === null || element === undefined)) {
  {
    throw Error("React.cloneElement(...): The argument must be a React element, but you passed " + element + ".");
   }
 }

 var propName; // Original props are copied

 var props = _assign({}, element.props); // Reserved names are extracted


 var key = element.key;
 var ref = element.ref; // Self is preserved since the owner is preserved.

 var self = element._self; // Source is preserved since cloneElement is unlikely to be targeted by a
 // transpiler, and the original source is probably a better indicator of the
 // true owner.

 var source = element._source; // Owner will be preserved, unless ref is overridden

 var owner = element._owner;

 if (config != null) {
  if (hasValidRef(config)) {
```

```
    // Silently steal the ref from the parent.
    ref = config.ref;
    owner = ReactCurrentOwner.current;
  }

  if (hasValidKey(config)) {
    key = '' + config.key;
  } // Remaining properties override existing props


  var defaultProps;

  if (element.type && element.type.defaultProps) {
    defaultProps = element.type.defaultProps;
   }

  for (propName in config) {
    if (hasOwnProperty.call(config, propName) && !RESERVED_PROPS.hasOwnProperty(propName)) {
      if (config[propName] === undefined && defaultProps !== undefined) {
        // Resolve default props
        props[propName] = defaultProps[propName];
      } else {
        props[propName] = config[propName];
      }
    }
  }
} // Children can be more than one argument, and those are transferred onto
// the newly allocated props object.


var childrenLength = arguments.length - 2;

if (childrenLength === 1) {
  props.children = children;
} else if (childrenLength > 1) {
  var childArray = Array(childrenLength);

  for (var i = 0; i < childrenLength; i++) {
    childArray[i] = arguments[i + 2];
  }

  props.children = childArray;
}

 return ReactElement(element.type, key, ref, self, source, owner, props);
}
/**
* Verifies the object is a ReactElement.
```

```
* See https://reactjs.org/docs/react-api.html#isvalidelement
 * @param {?object} object
* @return {boolean} True if `object` is a ReactElement.
* @final
*/

function isValidElement(object) {
 return typeof object === 'object' && object !== null && object.$$typeof === REACT_ELEMENT_TYPE;
}

var SEPARATOR = '.';
var SUBSEPARATOR = ':';
/**
* Escape and wrap key so it is safe to use as a reactid
*
* @param {string} key to be escaped.
* @return {string} the escaped key.
*/

function escape(key) {
 var escapeRegex = /[=:]/g;
 var escaperLookup = {
   '=': '=0',
   ':': '=2'
 };
 var escapedString = ('' + key).replace(escapeRegex, function (match) {
   return escaperLookup[match];
 });
 return '$' + escapedString;
}
/**
* TODO: Test that a single child and an array with one item have the same key
* pattern.
*/


var didWarnAboutMaps = false;
var userProvidedKeyEscapeRegex = /\/+/g;

function escapeUserProvidedKey(text) {
 return ('' + text).replace(userProvidedKeyEscapeRegex,
 '$&/');
}

var POOL_SIZE = 10;
var traverseContextPool = [];

function getPooledTraverseContext(mapResult, keyPrefix, mapFunction, mapContext) {
```

```
 if (traverseContextPool.length) {
   var traverseContext = traverseContextPool.pop();
   traverseContext.result = mapResult;
   traverseContext.keyPrefix = keyPrefix;
   traverseContext.func = mapFunction;
   traverseContext.context = mapContext;
   traverseContext.count = 0;
   return traverseContext;
 } else {
   return {
     result: mapResult,
     keyPrefix: keyPrefix,
     func: mapFunction,
     context: mapContext,
     count: 0
   };
 }
}

function releaseTraverseContext(traverseContext) {
 traverseContext.result = null;
 traverseContext.keyPrefix = null;
 traverseContext.func = null;
 traverseContext.context = null;
 traverseContext.count = 0;

 if (traverseContextPool.length < POOL_SIZE) {
   traverseContextPool.push(traverseContext);
 }
}
/**
 * @param {?*} children Children tree container.
* @param {!string} nameSoFar Name of the key path so far.
* @param {!function} callback Callback to invoke with each child found.
* @param {?*} traverseContext Used to pass information throughout the traversal
* process.
* @return {!number} The number of children in this subtree.
*/


function traverseAllChildrenImpl(children, nameSoFar, callback, traverseContext) {
 var type = typeof children;

 if (type === 'undefined' || type === 'boolean') {
   // All of the above are perceived as null.
   children = null;
 }
```

```
var invokeCallback = false;

if (children === null) {
  invokeCallback = true;
} else {
  switch (type) {
    case 'string':
    case 'number':
      invokeCallback = true;
      break;

    case 'object':
      switch (children.$$typeof) {
        case REACT_ELEMENT_TYPE:
        case REACT_PORTAL_TYPE:
          invokeCallback = true;
      }

  }
}

if (invokeCallback) {
  callback(traverseContext, children, // If it's the only child, treat the name as if it was wrapped in an array
  // so that it's consistent if the number of children grows.
  nameSoFar === '' ? SEPARATOR + getComponentKey(children, 0) : nameSoFar);
  return 1;
}

var child;
var nextName;
var subtreeCount = 0; // Count of children found in the current subtree.

var nextNamePrefix = nameSoFar === '' ? SEPARATOR : nameSoFar + SUBSEPARATOR;

if (Array.isArray(children)) {
  for (var i = 0; i < children.length; i++) {
    child = children[i];
    nextName = nextNamePrefix + getComponentKey(child, i);
    subtreeCount += traverseAllChildrenImpl(child, nextName, callback, traverseContext);
  }
} else {
  var iteratorFn = getIteratorFn(children);

  if (typeof iteratorFn === 'function') {
    {
      // Warn about using Maps as children
      if (iteratorFn === children.entries) {
```

```
    !didWarnAboutMaps ? warning$1(false, 'Using Maps as children is unsupported and will likely yield ' +
'unexpected results. Convert it to a sequence/iterable of keyed ' + 'ReactElements instead.') : void 0;
        didWarnAboutMaps = true;
      }
    }

    var iterator = iteratorFn.call(children);
    var step;
    var ii = 0;

    while (!(step = iterator.next()).done) {
      child = step.value;
      nextName = nextNamePrefix + getComponentKey(child, ii++);
      subtreeCount += traverseAllChildrenImpl(child, nextName, callback, traverseContext);
    }
  } else if (type === 'object') {
    var addendum = '';

    {
      addendum = ' If you meant to render a collection of children, use an array ' + 'instead.' +
ReactDebugCurrentFrame.getStackAddendum();
    }

    var childrenString = '' + children;

    {
      {
        throw Error("Objects are not valid as a React child (found: " + (childrenString === '[object
 Object]' ? 'object with keys {' + Object.keys(children).join(', ') + '}' : childrenString) + ")." + addendum);
      }
    }
  }
 }

 return subtreeCount;
}
/**
* Traverses children that are typically specified as `props.children`, but
* might also be specified through attributes:
*
* - `traverseAllChildren(this.props.children, ...)`
* - `traverseAllChildren(this.props.leftPanelChildren, ...)`
*
* The `traverseContext` is an optional argument that is passed through the
* entire traversal. It can be used to store accumulations or anything else that
* the callback might find relevant.
*
* @param {?*} children Children tree object.
```

```
* @param {!function} callback To invoke upon traversing each child.
* @param {?*} traverseContext Context for traversal.
* @return {!number} The number of children in this subtree.
*/


function traverseAllChildren(children, callback, traverseContext) {
 if (children == null) {
   return 0;
 }

 return traverseAllChildrenImpl(children,
 '', callback, traverseContext);
}
/**
* Generate a key string that identifies a component within a set.
*
* @param {*} component A component that could contain a manual key.
* @param {number} index Index that is used if a manual key is not provided.
* @return {string}
*/


function getComponentKey(component, index) {
 // Do some typechecking here since we call this blindly. We want to ensure
 // that we don't block potential future ES APIs.
 if (typeof component === 'object' && component !== null && component.key != null) {
   // Explicit key
   return escape(component.key);
 } // Implicit key determined by the index in the set


 return index.toString(36);
}

function forEachSingleChild(bookKeeping, child, name) {
 var func = bookKeeping.func,
     context = bookKeeping.context;
 func.call(context, child, bookKeeping.count++);
}
/**
* Iterates through children that are typically specified as `props.children`.
 *
* See https://reactjs.org/docs/react-api.html#reactchildrenforeach
*
* The provided forEachFunc(child, index) will be called for each
* leaf child.
*
```

```
* @param {?*} children Children tree container.
* @param {function(*, int)} forEachFunc
* @param {*} forEachContext Context for forEachContext.
*/


function forEachChildren(children, forEachFunc, forEachContext) {
 if (children == null) {
   return children;
 }

 var traverseContext = getPooledTraverseContext(null, null, forEachFunc, forEachContext);
 traverseAllChildren(children, forEachSingleChild, traverseContext);
 releaseTraverseContext(traverseContext);
}

function mapSingleChildIntoContext(bookKeeping, child, childKey) {
 var result = bookKeeping.result,
     keyPrefix = bookKeeping.keyPrefix,
     func = bookKeeping.func,
     context = bookKeeping.context;
 var mappedChild = func.call(context, child, bookKeeping.count++);

 if (Array.isArray(mappedChild)) {
   mapIntoWithKeyPrefixInternal(mappedChild,
 result, childKey, function (c) {
     return c;
   });
 } else if (mappedChild != null) {
   if (isValidElement(mappedChild)) {
     mappedChild = cloneAndReplaceKey(mappedChild, // Keep both the (mapped) and old keys if they differ, just
as
     // traverseAllChildren used to do for objects as children
     keyPrefix + (mappedChild.key && (!child || child.key !== mappedChild.key) ?
escapeUserProvidedKey(mappedChild.key) + '/' : '') + childKey);
   }

   result.push(mappedChild);
 }
}

function mapIntoWithKeyPrefixInternal(children, array, prefix, func, context) {
 var escapedPrefix = '';

 if (prefix != null) {
   escapedPrefix = escapeUserProvidedKey(prefix) + '/';
 }
```

```
 var traverseContext = getPooledTraverseContext(array, escapedPrefix, func, context);
 traverseAllChildren(children, mapSingleChildIntoContext, traverseContext);
 releaseTraverseContext(traverseContext);
}
/**
* Maps children that are typically
 specified as `props.children`.
*
* See https://reactjs.org/docs/react-api.html#reactchildrenmap
*
* The provided mapFunction(child, key, index) will be called for each
* leaf child.
*
* @param {?*} children Children tree container.
* @param {function(*, int)} func The map function.
* @param {*} context Context for mapFunction.
* @return {object} Object containing the ordered map of results.
*/


function mapChildren(children, func, context) {
 if (children == null) {
   return children;
 }

 var result = [];
 mapIntoWithKeyPrefixInternal(children, result, null, func, context);
 return result;
}
/**
* Count the number of children that are typically specified as
* `props.children`.
*
* See https://reactjs.org/docs/react-api.html#reactchildrencount
*
* @param {?*} children Children tree container.
* @return {number} The number of children.
*/


function countChildren(children) {
 return traverseAllChildren(children, function ()
 {
   return null;
 }, null);
}
/**
* Flatten a children object (typically specified as `props.children`) and
```

```
* return an array with appropriately re-keyed children.
*
* See https://reactjs.org/docs/react-api.html#reactchildrentoarray
*/


function toArray(children) {
 var result = [];
 mapIntoWithKeyPrefixInternal(children, result, null, function (child) {
   return child;
 });
 return result;
}
/**
* Returns the first child in a collection of children and verifies that there
* is only one child in the collection.
*
* See https://reactjs.org/docs/react-api.html#reactchildrenonly
*
* The current implementation of this function assumes that a single child gets
* passed without a wrapper, but the purpose of this helper function is to
* abstract away the particular structure of children.
*
* @param {?object} children Child collection structure.
* @return {ReactElement} The first and only `ReactElement` contained in the
* structure.
 */


function onlyChild(children) {
 if (!isValidElement(children)) {
   {
     throw Error("React.Children.only expected to receive a single React element child.");
   }
 }

 return children;
}

function createContext(defaultValue, calculateChangedBits) {
 if (calculateChangedBits === undefined) {
   calculateChangedBits = null;
 } else {
   {
     !(calculateChangedBits === null || typeof calculateChangedBits === 'function') ? warningWithoutStack$1(false,
'createContext: Expected the optional second argument to be a ' + 'function. Instead received: %s',
calculateChangedBits) : void 0;
   }
```

```
}

var context = {
  $$typeof: REACT_CONTEXT_TYPE,
  _calculateChangedBits: calculateChangedBits,
  // As a workaround to support multiple concurrent renderers, we categorize
  // some renderers as primary and others as secondary. We only expect
  // there to be two concurrent renderers at most: React Native (primary) and
  // Fabric (secondary);
React DOM (primary) and React ART (secondary).
  // Secondary renderers store their context values on separate fields.
  _currentValue: defaultValue,
  _currentValue2: defaultValue,
  // Used to track how many concurrent renderers this context currently
  // supports within in a single renderer. Such as parallel server rendering.
  _threadCount: 0,
  // These are circular
  Provider: null,
  Consumer: null
};
context.Provider = {
  $$typeof: REACT_PROVIDER_TYPE,
  _context: context
};
var hasWarnedAboutUsingNestedContextConsumers = false;
var hasWarnedAboutUsingConsumerProvider = false;

{
  // A separate object, but proxies back to the original context object for
  // backwards compatibility. It has a different $$typeof, so we can properly
  // warn for the incorrect usage of Context as a Consumer.
  var Consumer = {
    $$typeof: REACT_CONTEXT_TYPE,
    _context: context,
    _calculateChangedBits: context._calculateChangedBits
   }; // $FlowFixMe: Flow complains about not setting a value, which is intentional here

  Object.defineProperties(Consumer, {
    Provider: {
      get: function () {
        if (!hasWarnedAboutUsingConsumerProvider) {
          hasWarnedAboutUsingConsumerProvider = true;
          warning$1(false, 'Rendering <Context.Consumer.Provider> is not supported and will be removed in ' + 'a
future major release. Did you mean to render <Context.Provider> instead?');
        }

        return context.Provider;
      },
```

```
      set: function (_Provider) {
        context.Provider = _Provider;
      }
    },
    _currentValue: {
      get: function () {
        return context._currentValue;
      },
      set: function (_currentValue) {
        context._currentValue = _currentValue;
      }
    },
    _currentValue2: {
      get: function () {
        return context._currentValue2;
      },

 set: function (_currentValue2) {
        context._currentValue2 = _currentValue2;
      }
    },
    _threadCount: {
      get: function () {
        return context._threadCount;
      },
      set: function (_threadCount) {
        context._threadCount = _threadCount;
      }
    },
    Consumer: {
      get: function () {
        if (!hasWarnedAboutUsingNestedContextConsumers) {
          hasWarnedAboutUsingNestedContextConsumers = true;
          warning$1(false, 'Rendering <Context.Consumer.Consumer> is not supported and will be removed in ' + 'a
future major release. Did you mean to render <Context.Consumer> instead?');
        }

        return context.Consumer;
      }
    }
  }); // $FlowFixMe: Flow complains about missing properties because it doesn't understand defineProperty

  context.Consumer = Consumer;
}

{
  context._currentRenderer = null;
  context._currentRenderer2 = null;
```

```
 }

 return
 context;
}

function lazy(ctor) {
 var lazyType = {
  $$typeof: REACT_LAZY_TYPE,
  _ctor: ctor,
  // React uses these fields to store the result.
  _status: -1,
  _result: null
 };

 {
  // In production, this would just set it on the object.
  var defaultProps;
  var propTypes;
  Object.defineProperties(lazyType, {
    defaultProps: {
      configurable: true,
      get: function () {
        return defaultProps;
      },
      set: function (newDefaultProps) {
        warning$1(false, 'React.lazy(...): It is not supported to assign `defaultProps` to ' + 'a lazy component import.
Either specify them where the component ' + 'is defined, or create a wrapping component around it.');
        defaultProps = newDefaultProps; // Match production behavior more closely:

        Object.defineProperty(lazyType, 'defaultProps', {
          enumerable: true
        });
      }
    },
    propTypes: {
      configurable:
 true,
      get: function () {
        return propTypes;
      },
      set: function (newPropTypes) {
        warning$1(false, 'React.lazy(...): It is not supported to assign `propTypes` to ' + 'a lazy component import.
Either specify them where the component ' + 'is defined, or create a wrapping component around it.');
        propTypes = newPropTypes; // Match production behavior more closely:

        Object.defineProperty(lazyType, 'propTypes', {
          enumerable: true
```

```
        });
      }
    }
  });
 }

 return lazyType;
}

function forwardRef(render) {
 {
  if (render != null && render.$$typeof === REACT_MEMO_TYPE) {
    warningWithoutStack$1(false, 'forwardRef requires a render function but received a `memo` ' + 'component.
Instead of forwardRef(memo(...)), use ' + 'memo(forwardRef(...)).');
  } else if (typeof render !== 'function') {
    warningWithoutStack$1(false, 'forwardRef requires a render function
 but was given %s.', render === null ? 'null' : typeof render);
  } else {
    !( // Do not warn for 0 arguments because it could be due to usage of the 'arguments' object
    render.length === 0 || render.length === 2) ? warningWithoutStack$1(false, 'forwardRef render functions accept
exactly two parameters: props and ref. %s', render.length === 1 ? 'Did you forget to use the ref parameter?' : 'Any
additional parameter will be undefined.') : void 0;
  }

  if (render != null) {
    !(render.defaultProps == null && render.propTypes == null) ? warningWithoutStack$1(false, 'forwardRef render
functions do not support propTypes or defaultProps. ' + 'Did you accidentally pass a React component?') : void 0;
  }
 }

 return {
  $$typeof: REACT_FORWARD_REF_TYPE,
  render: render
 };
}

function isValidElementType(type) {
 return typeof type === 'string' || typeof type === 'function' || // Note: its typeof might be other than 'symbol' or
'number' if it's
 a polyfill.
 type === REACT_FRAGMENT_TYPE || type === REACT_CONCURRENT_MODE_TYPE || type ===
REACT_PROFILER_TYPE || type === REACT_STRICT_MODE_TYPE || type === REACT_SUSPENSE_TYPE
|| type === REACT_SUSPENSE_LIST_TYPE || typeof type === 'object' && type !== null && (type.$$typeof ===
REACT_LAZY_TYPE || type.$$typeof === REACT_MEMO_TYPE || type.$$typeof ===
REACT_PROVIDER_TYPE || type.$$typeof === REACT_CONTEXT_TYPE || type.$$typeof ===
REACT_FORWARD_REF_TYPE || type.$$typeof === REACT_FUNDAMENTAL_TYPE || type.$$typeof ===
REACT_RESPONDER_TYPE || type.$$typeof === REACT_SCOPE_TYPE);
}
```

```
function memo(type, compare) {
 {
  if (!isValidElementType(type)) {
    warningWithoutStack$1(false, 'memo: The first argument must be a component. Instead ' + 'received: %s', type
=== null ? 'null' : typeof type);
  }
 }

 return {
  $$typeof: REACT_MEMO_TYPE,
  type: type,
  compare: compare === undefined ? null : compare
 };
}

function resolveDispatcher() {
 var dispatcher
 = ReactCurrentDispatcher.current;

 if (!(dispatcher !== null)) {
  {
   throw Error("Invalid hook call. Hooks can only be called inside of the body of a function component. This could
happen for one of the following reasons:\n1. You might have mismatching versions of React and the renderer (such
as React DOM)\n2. You might be breaking the Rules of Hooks\n3. You might have more than one copy of React in
the same app\nSee https://fb.me/react-invalid-hook-call for tips about how to debug and fix this problem.");
  }
 }

 return dispatcher;
}

function useContext(Context, unstable_observedBits) {
 var dispatcher = resolveDispatcher();

 {
  !(unstable_observedBits === undefined) ? warning$1(false, 'useContext() second argument is reserved for future '
+ 'use in React. Passing it is not supported. ' + 'You passed: %s.%s', unstable_observedBits, typeof
unstable_observedBits === 'number' && Array.isArray(arguments[2]) ? '\n\nDid you call array.map(useContext)?
 ' + 'Calling Hooks inside a loop is not supported. ' + 'Learn more at https://fb.me/rules-of-hooks' : '') : void 0; //
TODO: add a more generic warning for invalid values.

  if (Context._context !== undefined) {
   var realContext = Context._context; // Don't deduplicate because this legitimately causes bugs
   // and nobody should be using this in existing code.

   if (realContext.Consumer === Context) {
    warning$1(false, 'Calling useContext(Context.Consumer) is not supported, may cause bugs, and will be ' +
```

```
'removed in a future major release. Did you mean to call useContext(Context) instead?');
    } else if (realContext.Provider === Context) {
      warning$1(false, 'Calling useContext(Context.Provider) is not supported. ' + 'Did you mean to call
useContext(Context) instead?');
    }
  }
 }

 return dispatcher.useContext(Context, unstable_observedBits);
}
function useState(initialState) {
 var dispatcher = resolveDispatcher();
  return dispatcher.useState(initialState);
}
function useReducer(reducer, initialArg, init) {
 var dispatcher = resolveDispatcher();
 return dispatcher.useReducer(reducer, initialArg, init);
}
function useRef(initialValue) {
 var dispatcher = resolveDispatcher();
 return dispatcher.useRef(initialValue);
}
function useEffect(create, inputs) {
 var dispatcher = resolveDispatcher();
 return dispatcher.useEffect(create, inputs);
}
function useLayoutEffect(create, inputs) {
 var dispatcher = resolveDispatcher();
 return dispatcher.useLayoutEffect(create, inputs);
}
function useCallback(callback, inputs) {
 var dispatcher = resolveDispatcher();
 return dispatcher.useCallback(callback, inputs);
}
function useMemo(create, inputs) {
 var dispatcher = resolveDispatcher();
 return dispatcher.useMemo(create, inputs);
}
function useImperativeHandle(ref, create, inputs) {
 var dispatcher = resolveDispatcher();
 return dispatcher.useImperativeHandle(ref, create,
 inputs);
}
function useDebugValue(value, formatterFn) {
 {
  var dispatcher = resolveDispatcher();
  return dispatcher.useDebugValue(value, formatterFn);
 }
```

```
}
var emptyObject$1 = {};
function useResponder(responder, listenerProps) {
 var dispatcher = resolveDispatcher();

 {
  if (responder == null || responder.$$typeof !== REACT_RESPONDER_TYPE) {
   warning$1(false, 'useResponder: invalid first argument. Expected an event responder, but instead got %s',
responder);
   return;
  }
 }

 return dispatcher.useResponder(responder, listenerProps || emptyObject$1);
}
function useTransition(config) {
 var dispatcher = resolveDispatcher();
 return dispatcher.useTransition(config);
}
function useDeferredValue(value, config) {
 var dispatcher = resolveDispatcher();
 return dispatcher.useDeferredValue(value, config);
}

function withSuspenseConfig(scope, config) {
 var previousConfig = ReactCurrentBatchConfig.suspense;
 ReactCurrentBatchConfig.suspense
 = config === undefined ? null : config;

 try {
  scope();
 } finally {
  ReactCurrentBatchConfig.suspense = previousConfig;
 }
}

/**
* ReactElementValidator provides a wrapper around a element factory
* which validates the props passed to the element. This is intended to be
* used only in DEV and could be replaced by a static type checker for languages
* that support it.
*/
var propTypesMisspellWarningShown;

{
 propTypesMisspellWarningShown = false;
}
```

```
var hasOwnProperty$1 = Object.prototype.hasOwnProperty;

function getDeclarationErrorAddendum() {
 if (ReactCurrentOwner.current) {
   var name = getComponentName(ReactCurrentOwner.current.type);

   if (name) {
     return '\n\nCheck the render method of `' + name + '`.';
   }
 }

 return '';
}

function getSourceInfoErrorAddendum(source) {
 if (source !== undefined) {
   var fileName = source.fileName.replace(/^.*[\\\/]/, '');
   var lineNumber = source.lineNumber;
    return '\n\nCheck your code at ' + fileName + ':' + lineNumber + '.';
 }

 return '';
}

function getSourceInfoErrorAddendumForProps(elementProps) {
 if (elementProps !== null && elementProps !== undefined) {
   return getSourceInfoErrorAddendum(elementProps.__source);
 }

 return '';
}
/**
* Warn if there's no key explicitly set on dynamic arrays of children or
* object keys are not valid. This allows us to keep track of children between
* updates.
*/


var ownerHasKeyUseWarning = {};

function getCurrentComponentErrorInfo(parentType) {
 var info = getDeclarationErrorAddendum();

 if (!info) {
   var parentName = typeof parentType === 'string' ? parentType : parentType.displayName || parentType.name;

   if (parentName) {
     info = "\n\nCheck the top-level render call using <" + parentName + ">.";
```

```
  }
 }

 return info;
}
/**
* Warn if the element doesn't have an explicit key assigned to it.
* This element is
 in an array. The array could grow and shrink or be
* reordered. All children that haven't already been validated are required to
* have a "key" property assigned to it. Error statuses are cached so a warning
* will only be shown once.
*
* @internal
* @param {ReactElement} element Element that requires a key.
* @param {*} parentType element's parent's type.
*/


function validateExplicitKey(element, parentType) {
 if (!element._store || element._store.validated || element.key != null) {
  return;
 }

 element._store.validated = true;
 var currentComponentErrorInfo = getCurrentComponentErrorInfo(parentType);

 if (ownerHasKeyUseWarning[currentComponentErrorInfo]) {
  return;
 }

 ownerHasKeyUseWarning[currentComponentErrorInfo] = true; // Usually the current owner is the offender, but if
it accepts children as a
 // property, it may be the creator of the child that's responsible for
 // assigning it a key.

 var childOwner = '';

 if (element
 && element._owner && element._owner !== ReactCurrentOwner.current) {
  // Give the component that originally created this child.
  childOwner = ' It was passed a child from ' + getComponentName(element._owner.type) + '.';
 }

 setCurrentlyValidatingElement(element);

 {
  warning$1(false, 'Each child in a list should have a unique "key" prop.' + '%s%s See https://fb.me/react-warning-
```

```
keys for more information.', currentComponentErrorInfo, childOwner);
 }

 setCurrentlyValidatingElement(null);
}
/**
* Ensure that every element either is passed in a static location, in an
* array with an explicit keys property defined, or in an object literal
* with valid key property.
*
* @internal
* @param {ReactNode} node Statically passed child of any type.
* @param {*} parentType node's parent's type.
*/


function validateChildKeys(node, parentType) {
 if (typeof node !== 'object') {
  return;
 }

 if (Array.isArray(node)) {
  for (var i
= 0; i < node.length; i++) {
    var child = node[i];

    if (isValidElement(child)) {
      validateExplicitKey(child, parentType);
    }
  }
 } else if (isValidElement(node)) {
  // This element was passed in a valid location.
  if (node._store) {
    node._store.validated = true;
  }
 } else if (node) {
  var iteratorFn = getIteratorFn(node);

  if (typeof iteratorFn === 'function') {
    // Entry iterators used to provide implicit keys,
    // but now we print a separate warning for them later.
    if (iteratorFn !== node.entries) {
      var iterator = iteratorFn.call(node);
      var step;

      while (!(step = iterator.next()).done) {
        if (isValidElement(step.value)) {
          validateExplicitKey(step.value, parentType);
```

```
        }
       }
      }
    }
  }
}
/**
* Given an element, validate that its props follow the propTypes definition,
* provided by the type.
*
* @param {ReactElement}
 element
*/


function validatePropTypes(element) {
 var type = element.type;

 if (type === null || type === undefined || typeof type === 'string') {
  return;
 }

 var name = getComponentName(type);
 var propTypes;

 if (typeof type === 'function') {
  propTypes = type.propTypes;
 } else if (typeof type === 'object' && (type.$$typeof === REACT_FORWARD_REF_TYPE || // Note: Memo only
checks outer props here.
 // Inner props are checked in the reconciler.
 type.$$typeof === REACT_MEMO_TYPE)) {
  propTypes = type.propTypes;
 } else {
  return;
 }

 if (propTypes) {
  setCurrentlyValidatingElement(element);
  checkPropTypes(propTypes, element.props, 'prop', name, ReactDebugCurrentFrame.getStackAddendum);
  setCurrentlyValidatingElement(null);
 } else if (type.PropTypes !== undefined && !propTypesMisspellWarningShown) {
  propTypesMisspellWarningShown = true;
  warningWithoutStack$1(false, 'Component %s declared `PropTypes` instead
 of `propTypes`. Did you misspell the property assignment?', name || 'Unknown');
 }

 if (typeof type.getDefaultProps === 'function') {
  !type.getDefaultProps.isReactClassApproved ? warningWithoutStack$1(false, 'getDefaultProps is only used on
```

```
classic React.createClass ' + 'definitions. Use a static property named `defaultProps` instead.') : void 0;
 }
}
/**
* Given a fragment, validate that it can only be provided with fragment props
* @param {ReactElement} fragment
*/


function validateFragmentProps(fragment) {
 setCurrentlyValidatingElement(fragment);
 var keys = Object.keys(fragment.props);

 for (var i = 0; i < keys.length; i++) {
   var key = keys[i];

   if (key !== 'children' && key !== 'key') {
     warning$1(false, 'Invalid prop `%s` supplied to `React.Fragment`. ' + 'React.Fragment can only have `key` and
`children` props.', key);
     break;
   }
 }

 if (fragment.ref !== null) {
   warning$1(false, 'Invalid attribute `ref`
 supplied to `React.Fragment`.');
 }

 setCurrentlyValidatingElement(null);
}

function jsxWithValidation(type, props, key, isStaticChildren, source, self) {
 var validType = isValidElementType(type); // We warn in this case but don't throw. We expect the element creation
to
 // succeed and there will likely be errors in render.

 if (!validType) {
   var info = '';

   if (type === undefined || typeof type === 'object' && type !== null && Object.keys(type).length === 0) {
     info += ' You likely forgot to export your component from the file ' + "it's defined in, or you might have mixed
up default and named imports.";
   }

   var sourceInfo = getSourceInfoErrorAddendum(source);

   if (sourceInfo) {
     info += sourceInfo;
```

```
  } else {
    info += getDeclarationErrorAddendum();
  }

  var typeString;

  if (type === null) {
    typeString = 'null';
  } else if (Array.isArray(type)) {
    typeString = 'array';
  } else if (type
!== undefined && type.$$typeof === REACT_ELEMENT_TYPE) {
    typeString = "<" + (getComponentName(type.type) || 'Unknown') + " />";
    info = ' Did you accidentally export a JSX literal instead of a component?';
  } else {
    typeString = typeof type;
  }

  warning$1(false, 'React.jsx: type is invalid -- expected a string (for ' + 'built-in components) or a class/function
(for composite ' + 'components) but got: %s.%s', typeString, info);
 }

 var element = jsxDEV(type, props, key, source, self); // The result can be nullish if a mock or a custom function is
used.
 // TODO: Drop this when these are no longer allowed as the type argument.

 if (element == null) {
  return element;
 } // Skip key warning if the type isn't valid since our key validation logic
 // doesn't expect a non-string/function type and can throw confusing errors.
 // We don't want exception behavior to differ between dev and prod.
 // (Rendering will throw with a helpful
 message and as soon as the type is
 // fixed, the key warnings will appear.)


 if (validType) {
  var children = props.children;

  if (children !== undefined) {
    if (isStaticChildren) {
      if (Array.isArray(children)) {
        for (var i = 0; i < children.length; i++) {
          validateChildKeys(children[i], type);
        }

        if (Object.freeze) {
          Object.freeze(children);
```

```
        }
      } else {
        warning$1(false, 'React.jsx: Static children should always be an array. ' + 'You are likely explicitly calling
React.jsxs or React.jsxDEV. ' + 'Use the Babel transform instead.');
      }
    } else {
      validateChildKeys(children, type);
    }
  }
}

 if (hasOwnProperty$1.call(props, 'key')) {
   warning$1(false, 'React.jsx: Spreading a key to JSX is a deprecated pattern. ' + 'Explicitly pass a key after
spreading props in your JSX call. ' + 'E.g. <ComponentName {...props} key={key} />');
  }

 if (type === REACT_FRAGMENT_TYPE) {
   validateFragmentProps(element);
 } else {
   validatePropTypes(element);
 }

 return element;
} // These two functions exist to still get child warnings in dev
// even with the prod transform. This means that jsxDEV is purely
// opt-in behavior for better messages but that we won't stop
// giving you warnings if you use production apis.

function jsxWithValidationStatic(type, props, key) {
 return jsxWithValidation(type, props, key, true);
}
function jsxWithValidationDynamic(type, props, key) {
 return jsxWithValidation(type, props, key, false);
}
function createElementWithValidation(type, props, children) {
 var validType = isValidElementType(type); // We warn in this case but don't throw. We expect the element creation
to
 // succeed and there will likely be errors in render.

 if (!validType) {
   var info = '';

   if (type === undefined || typeof type === 'object' && type !== null && Object.keys(type).length
 === 0) {
     info += ' You likely forgot to export your component from the file ' + "it's defined in, or you might have mixed
up default and named imports.";
   }
```

```
  var sourceInfo = getSourceInfoErrorAddendumForProps(props);

  if (sourceInfo) {
    info += sourceInfo;
  } else {
    info += getDeclarationErrorAddendum();
  }

  var typeString;

  if (type === null) {
    typeString = 'null';
  } else if (Array.isArray(type)) {
    typeString = 'array';
  } else if (type !== undefined && type.$$typeof === REACT_ELEMENT_TYPE) {
    typeString = "<" + (getComponentName(type.type) || 'Unknown') + " />";
    info = ' Did you accidentally export a JSX literal instead of a component?';
  } else {
    typeString = typeof type;
  }

  warning$1(false, 'React.createElement: type is invalid -- expected a string (for ' + 'built-in components) or a
class/function (for composite ' + 'components) but got: %s.%s', typeString,
 info);
 }

 var element = createElement.apply(this, arguments); // The result can be nullish if a mock or a custom function is
used.
 // TODO: Drop this when these are no longer allowed as the type argument.

 if (element == null) {
  return element;
 } // Skip key warning if the type isn't valid since our key validation logic
 // doesn't expect a non-string/function type and can throw confusing errors.
 // We don't want exception behavior to differ between dev and prod.
 // (Rendering will throw with a helpful message and as soon as the type is
 // fixed, the key warnings will appear.)


 if (validType) {
  for (var i = 2; i < arguments.length; i++) {
    validateChildKeys(arguments[i], type);
  }
 }

 if (type === REACT_FRAGMENT_TYPE) {
  validateFragmentProps(element);
 } else {
```

```
  validatePropTypes(element);
 }

 return element;
}
function createFactoryWithValidation(type) {
 var validatedFactory = createElementWithValidation.bind(null,
 type);
 validatedFactory.type = type; // Legacy hook: remove it

 {
  Object.defineProperty(validatedFactory, 'type', {
    enumerable: false,
    get: function () {
      lowPriorityWarningWithoutStack$1(false, 'Factory.type is deprecated. Access the class directly ' + 'before
passing it to createFactory.');
      Object.defineProperty(this, 'type', {
        value: type
      });
      return type;
    }
  });
 }

 return validatedFactory;
}
function cloneElementWithValidation(element, props, children) {
 var newElement = cloneElement.apply(this, arguments);

 for (var i = 2; i < arguments.length; i++) {
  validateChildKeys(arguments[i], newElement.type);
 }

 validatePropTypes(newElement);
 return newElement;
}

var hasBadMapPolyfill;

{
 hasBadMapPolyfill = false;

 try {
  var frozenObject = Object.freeze({});
  var testMap = new Map([[frozenObject, null]]);
  var testSet = new Set([frozenObject]);
 // This is necessary for Rollup to not consider these unused.
  // https://github.com/rollup/rollup/issues/1771
```

```
  // TODO: we can remove these if Rollup fixes the bug.

  testMap.set(0, 0);
  testSet.add(0);
 } catch (e) {
  // TODO: Consider warning about bad polyfills
  hasBadMapPolyfill = true;
 }
}

function createFundamentalComponent(impl) {
 // We use responder as a Map key later on. When we have a bad
 // polyfill, then we can't use it as a key as the polyfill tries
 // to add a property to the object.
 if (true && !hasBadMapPolyfill) {
  Object.freeze(impl);
 }

 var fundamantalComponent = {
  $$typeof: REACT_FUNDAMENTAL_TYPE,
  impl: impl
 };

 {
  Object.freeze(fundamantalComponent);
 }

 return fundamantalComponent;
}

function createEventResponder(displayName, responderConfig) {
 var getInitialState = responderConfig.getInitialState,
     onEvent = responderConfig.onEvent,
     onMount = responderConfig.onMount,
      onUnmount = responderConfig.onUnmount,
     onRootEvent = responderConfig.onRootEvent,
     rootEventTypes = responderConfig.rootEventTypes,
     targetEventTypes = responderConfig.targetEventTypes,
     targetPortalPropagation = responderConfig.targetPortalPropagation;
 var eventResponder = {
  $$typeof: REACT_RESPONDER_TYPE,
  displayName: displayName,
  getInitialState: getInitialState || null,
  onEvent: onEvent || null,
  onMount: onMount || null,
  onRootEvent: onRootEvent || null,
  onUnmount: onUnmount || null,
  rootEventTypes: rootEventTypes || null,
```

```
  targetEventTypes: targetEventTypes || null,
  targetPortalPropagation: targetPortalPropagation || false
 }; // We use responder as a Map key later on. When we have a bad
 // polyfill, then we can't use it as a key as the polyfill tries
 // to add a property to the object.

 if (true && !hasBadMapPolyfill) {
  Object.freeze(eventResponder);
 }


 return eventResponder;
}

function createScope() {
 var scopeComponent = {
  $$typeof: REACT_SCOPE_TYPE
 };

 {
  Object.freeze(scopeComponent);
 }

 return scopeComponent;
}

// Helps identify side effects in render-phase lifecycle hooks and setState
// reducers by double invoking them in Strict Mode.

// To preserve the "Pause on caught exceptions" behavior of the debugger, we
// replay the begin phase of a failed component inside invokeGuardedCallback.

// Warn about deprecated, async-unsafe lifecycles; relates to RFC #6:

// Gather advanced timing metrics for Profiler subtrees.

// Trace which interactions trigger each commit.

// SSR experiments


// Only used in www builds.

// Only used in www builds.

// Disable javascript: URL strings in href for XSS protection.

// React Fire: prevent the value and checked attributes from syncing
```

```
// with their related DOM properties

// These APIs will no longer be "unstable" in the upcoming
 16.7 release,
// Control this behavior with a flag to support 16.6 minor releases in the meanwhile.

var exposeConcurrentModeAPIs = false;
// Experimental React Flare event system and event components support.

var enableFlareAPI = false; // Experimental Host Component support.

var enableFundamentalAPI = false; // Experimental Scope support.

var enableScopeAPI = false; // New API for JSX transforms to target - https://github.com/reactjs/rfcs/pull/107

var enableJSXTransformAPI = false; // We will enforce mocking scheduler with scheduler/unstable_mock at some
point. (v17?)
// Till then, we warn about the missing mock, but still fallback to a legacy mode compatible version

// For tests, we flush suspense fallbacks in an act scope;
// *except* in some of our own tests, where we test incremental loading states.

// Add a callback property to suspense to notify which promises are currently
// in the update queue. This allows reporting and tracing of what is causing
//
 the user to see a loading state.
// Also allows hydration callbacks to fire when a dehydrated boundary gets
// hydrated or deleted.

// Part of the simplification of React.createElement so we can eventually move
// from React.createElement to React.jsx
// https://github.com/reactjs/rfcs/blob/createelement-rfc/text/0000-create-element-changes.md




// Flag to turn event.target and event.currentTarget in ReactNative from a reactTag to a component instance

var React = {
 Children: {
   map: mapChildren,
   forEach: forEachChildren,
   count: countChildren,
   toArray: toArray,
   only: onlyChild
 },
 createRef: createRef,
```

```
 Component: Component,
 PureComponent: PureComponent,
 createContext: createContext,
 forwardRef: forwardRef,
 lazy: lazy,
 memo: memo,
 useCallback: useCallback,
 useContext: useContext,
 useEffect: useEffect,
 useImperativeHandle: useImperativeHandle,
 useDebugValue: useDebugValue,
 useLayoutEffect: useLayoutEffect,
  useMemo: useMemo,
 useReducer: useReducer,
 useRef: useRef,
 useState: useState,
 Fragment: REACT_FRAGMENT_TYPE,
 Profiler: REACT_PROFILER_TYPE,
 StrictMode: REACT_STRICT_MODE_TYPE,
 Suspense: REACT_SUSPENSE_TYPE,
 createElement: createElementWithValidation,
 cloneElement: cloneElementWithValidation,
 createFactory: createFactoryWithValidation,
 isValidElement: isValidElement,
 version: ReactVersion,
 __SECRET_INTERNALS_DO_NOT_USE_OR_YOU_WILL_BE_FIRED: ReactSharedInternals
};

if (exposeConcurrentModeAPIs) {
 React.useTransition = useTransition;
 React.useDeferredValue = useDeferredValue;
 React.SuspenseList = REACT_SUSPENSE_LIST_TYPE;
 React.unstable_withSuspenseConfig = withSuspenseConfig;
}

if (enableFlareAPI) {
 React.unstable_useResponder = useResponder;
 React.unstable_createResponder = createEventResponder;
}

if (enableFundamentalAPI) {
 React.unstable_createFundamental = createFundamentalComponent;
}

if (enableScopeAPI)
 {
 React.unstable_createScope = createScope;
} // Note: some APIs are added with feature flags.
```

```
// Make sure that stable builds for open source
// don't modify the React object to avoid deopts.
// Also let's not expose their names in stable builds.


if (enableJSXTransformAPI) {
 {
   React.jsxDEV = jsxWithValidation;
   React.jsx = jsxWithValidationDynamic;
   React.jsxs = jsxWithValidationStatic;
 }
}



var React$2 = Object.freeze({
 default: React
});

var React$3 = ( React$2 && React ) || React$2;

// TODO: decide on the top-level export form.
// This is hacky but makes it work with both Rollup and Jest.


var react = React$3.default || React$3;

module.exports = react;
 })();
}
```

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1.1232 from2 1.3.0

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1.1234 character-entities-html4 1.1.3

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1.1236 cyphar-filepath-securejoin 0.2.2

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1.1237 psl 1.7.0

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1.1238 browserslist 3.2.8

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1.1239 pixelmatch 4.0.2

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1.1240 proto-list 1.2.4

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1.1241 @mrmlnc/readdir-enhanced 2.2.1

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1.1242 better-queue 3.8.10

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1.1243 strip-dirs 2.1.0

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1.1244 type-is 1.6.18

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1.1245 json-net 0.17.0

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1.1247 lodash.isstring 4.0.1

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1.1248 jinja2 2.11.3

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1.1276 mnuralp-fileutils 0.5.0

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1.1289 json-stream 1.3.5

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1.1290 object.pick 1.3.0

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1.1291 global-dirs 0.1.1

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1.1292 progress 2.0.3

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rc-progress

Progress Bar.

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Example

http://react-component.github.io/progress/

Screenshots

Browsers

* support IE9+, Chrome, Firefox, Safari

Install

[![rc-progress](https://nodei.co/npm/rc-progress.png)](https://npmjs.org/package/rc-progress)

Usage

```jsx
import { Line, Circle } from 'rc-progress';
```

```
ReactDOM.render(<div>
 <Line percent="10" strokeWidth="4" strokeColor="#D3D3D3" />
 <Circle percent="10" strokeWidth="4" strokeColor="#D3D3D3" />
</div>, container);
```

API

props

<table class="table table-bordered table-striped">
 <thead>
 <tr>
  <th style="width: 100px;">name</th>
  <th style="width: 50px;">type</th>
  <th style="width: 50px;">default</th>
   <th>description</th>
 </tr>
 </thead>
 <tbody>
  <tr>
   <td>strokeWidth</td>
   <td>Number</td>
   <td>1</td>
   <td>Width of the stroke. Unit is percentage of SVG canvas size.</td>
  </tr>
  <tr>
   <td>strokeColor</td>
   <td>String</td>
   <td>#2db7f5</td>
   <td>Stroke color.</td>
  </tr>
  <tr>
   <td>trailWidth</td>
   <td>Number</td>
   <td>1</td>
   <td>Width of the trail stroke. Unit is percentage of SVG canvas size. Trail is always centered relative to actual progress path. If trailWidth are not defined, it same as strokeWidth.</td>
  </tr>
  <tr>
   <td>trailColor</td>
   <td>String</td>
   <td>#D9D9D9</td>
   <td>Color for lighter trail stroke underneath the actual progress path.</td>
  </tr>
  <tr>
   <td>strokeLinecap</td>

<td>String</td>
<td>round</td>
<td>The shape to be used at the end of the progress bar, can be square or round.</td>
</tr>
<tr>
<td>prefixCls</td>

<td>String</td>
<td>rc-progress</td>
<td>prefix className for component</td>
</tr>
<tr>
<td>className</td>
<td>String</td>
<td></td>
<td>customized className</td>
</tr>
<tr>
<td>style</td>
<td>Object</td>
<td></td>
<td>style object will be added to svg element</td>
</tr>
</tbody>
</table>

Installation

```
npm install --save rc-progress
```

Development

```
npm install
npm start
```

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Found in path(s):
* /react-component-progress-2-0-3-0-ga727336-tar-gz/react-component-progress-a727336/README.md

1.1293 safe-buffer 5.1.2

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1.1294 wagon-provider-api 2.4

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1.1297 aether-api 1.13.1

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*******************************************************************************/

import java.util.Collection;
import java.util.Collections;
import java.util.Iterator;
import java.util.LinkedHashSet;
import java.util.List;

import org.sonatype.aether.RepositoryException;
import org.sonatype.aether.artifact.Artifact;
import org.sonatype.aether.graph.DependencyNode;
import org.sonatype.aether.version.VersionConstraint;

/**
* Thrown in case of an unsolvable conflict between different version constraints for a dependency.
*
* @author Benjamin Bentmann
*/
public class UnsolvableVersionConflictException
    extends RepositoryException
{
```

```
  private final Object dependencyConflictId;

  private final Collection<String> versions;

  private final Collection<List<DependencyNode>> paths;

  public UnsolvableVersionConflictException( Object dependencyConflictId, Collection<String> versions )
  {
    super( "Could not resolve version conflict for " + dependencyConflictId + " with requested versions "
      + toList( versions ) );
    this.dependencyConflictId = ( dependencyConflictId != null ) ? dependencyConflictId : "";
    this.versions = ( versions != null ) ? versions : Collections.<String> emptyList();
    this.paths = Collections.emptyList();
  }

  private static String toList( Collection<String> versions )
  {
    StringBuilder buffer = new StringBuilder( 256 );
    if ( versions != null )
    {
      for ( String version : versions )
      {
        if ( buffer.length() > 0 )

  {
          buffer.append( ", " );
        }
        buffer.append( version );
      }
    }
    return buffer.toString();
  }

  public UnsolvableVersionConflictException( Collection<List<DependencyNode>> paths, Object
dependencyConflictId )
  {
    super( "Could not resolve version conflict among " + toPaths( paths ) );
    this.dependencyConflictId = ( dependencyConflictId != null ) ? dependencyConflictId : "";
    if ( paths == null )
    {
      this.paths = Collections.emptyList();
      this.versions = Collections.emptyList();
    }
    else
    {
      this.paths = paths;
      this.versions = new LinkedHashSet<String>();
```

```
        for ( List<DependencyNode> path : paths )
        {
            VersionConstraint constraint = path.get( path.size() - 1 ).getVersionConstraint();
            if ( constraint != null && !constraint.getRanges().isEmpty() )

{
                versions.add( constraint.toString() );
            }
        }
    }
 }

 private static String toPaths( Collection<List<DependencyNode>> paths )
 {
    String result = "";

    if ( paths != null )
    {
        Collection<String> strings = new LinkedHashSet<String>();

        for ( List<DependencyNode> path : paths )
        {
            strings.add( toPath( path ) );
        }

        result = strings.toString();
    }

    return result;
 }

 private static String toPath( List<DependencyNode> path )
 {
    StringBuilder buffer = new StringBuilder( 256 );

    for ( Iterator<DependencyNode> it = path.iterator(); it.hasNext(); )
    {
        DependencyNode node = it.next();
        if ( node.getDependency() == null )
        {
            continue;
        }

        Artifact artifact = node.getDependency().getArtifact();
        buffer.append( artifact.getGroupId()
);
        buffer.append( ':' ).append( artifact.getArtifactId() );
        buffer.append( ':' ).append( artifact.getExtension() );
```

```
            if ( artifact.getClassifier().length() > 0 )
            {
                buffer.append( ':' ).append( artifact.getClassifier() );
            }
            buffer.append( ':' ).append( node.getVersionConstraint() );

            if ( it.hasNext() )
            {
                buffer.append( " -> " );
            }
        }

        return buffer.toString();
    }

    /**
     * Gets the conflict id of the dependency that encountered the version conflict.
     *
     * @return The conflict id, never {@code null}.
     */
    public Object getDependencyConflictId()
    {
        return dependencyConflictId;
    }

    /**
     * Gets the paths leading to the conflicting dependencies.
     *
     * @return The (read-only) paths leading to the conflicting dependencies, never {@code null}.
     */
    public Collection<List<DependencyNode>>
  getPaths()
    {
        return paths;
    }

    /**
     * Gets the conflicting version constraints of the dependency.
     *
     * @return The (read-only) conflicting version constraints, never {@code null}.
     */
    public Collection<String> getVersions()
    {
        return versions;
    }

}
```

```
package org.sonatype.aether.repository;

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*   http://www.eclipse.org/legal/epl-v10.html
*******************************************************************************/

/**
* A policy controlling access to a repository. <em>Note:</em> Instances of this class are immutable and the exposed
* mutators return new objects rather than changing the current instance.
*
* @author Benjamin Bentmann
*/
public final class RepositoryPolicy
{

  /**
   * Never update locally cached data.
   */
  public static final String UPDATE_POLICY_NEVER = "never";

  /**
   * Always update locally cached data.
   */
  public static final String UPDATE_POLICY_ALWAYS = "always";

   /**
   * Update locally cached data once a day.
   */
  public static final String UPDATE_POLICY_DAILY = "daily";

  /**
   * Update locally cached data every X minutes as given by "interval:X".
   */
  public static final String UPDATE_POLICY_INTERVAL = "interval";

  /**
   * Verify checksums and fail the resolution if they do not match.
   */
  public static final String CHECKSUM_POLICY_FAIL = "fail";

  /**
   * Verify checksums and warn if they do not match.
   */
```

```
  public static final String CHECKSUM_POLICY_WARN = "warn";

  /**
   * Do not verify checksums.
   */
  public static final String CHECKSUM_POLICY_IGNORE = "ignore";

  private final boolean enabled;

  private final String updatePolicy;

  private final String checksumPolicy;

  /**
   * Creates a new policy with checksum warnings and daily update checks.
   */
  public RepositoryPolicy()
  {
     this( true, UPDATE_POLICY_DAILY, CHECKSUM_POLICY_WARN
);
  }

  /**
   * Creates a new policy with the specified settings.
   *
   * @param enabled A flag whether the associated repository should be accessed or not.
   * @param updatePolicy The update interval after which locally cached data from the repository is considered
stale
   *            and should be refetched, may be {@code null}.
   * @param checksumPolicy The way checksum verification should be handled, may be {@code null}.
   */
  public RepositoryPolicy( boolean enabled, String updatePolicy, String checksumPolicy )
  {
     this.enabled = enabled;
     this.updatePolicy = ( updatePolicy != null ) ? updatePolicy : "";
     this.checksumPolicy = ( checksumPolicy != null ) ? checksumPolicy : "";
  }

  /**
   * Indicates whether the associated repository should be contacted or not.
   *
   * @return {@code true} if the repository should be contacted, {@code false} otherwise.
   */
  public boolean isEnabled()
  {
     return
 enabled;
  }
```

```
  /**
   * Sets the enabled flag for the associated repository.
   *
   * @param enabled {@code true} if the repository should be contacted, {@code false} otherwise.
   * @return The new policy, never {@code null}.
   */
  public RepositoryPolicy setEnabled( boolean enabled )
  {
      if ( this.enabled == enabled )
      {
          return this;
      }
      return new RepositoryPolicy( enabled, updatePolicy, checksumPolicy );
  }

  /**
   * Gets the update policy for locally cached data from the repository.
   *
   * @return The update policy, never {@code null}.
   */
  public String getUpdatePolicy()
  {
      return updatePolicy;
  }

  /**
   * Sets the update policy for locally cached data from the repository. Well-known policies are
   * {@link #UPDATE_POLICY_NEVER}, {@link #UPDATE_POLICY_ALWAYS}, {@link
#UPDATE_POLICY_DAILY} and
   * {@link #UPDATE_POLICY_INTERVAL}
   *
   * @param updatePolicy The
 update policy, may be {@code null}.
   * @return The new policy, never {@code null}.
   */
  public RepositoryPolicy setUpdatePolicy( String updatePolicy )
  {
      if ( this.updatePolicy.equals( updatePolicy ) )
      {
          return this;
      }
      return new RepositoryPolicy( enabled, updatePolicy, checksumPolicy );
  }

  /**
   * Gets the policy for checksum validation.
   *
```

```
     * @return The checksum policy, never {@code null}.
     */
    public String getChecksumPolicy()
    {
        return checksumPolicy;
    }

    /**
     * Sets the policy for checksum validation. Well-known policies are {@link #CHECKSUM_POLICY_FAIL},
     * {@link #CHECKSUM_POLICY_WARN} and {@link #CHECKSUM_POLICY_IGNORE}.
     *
     * @param checksumPolicy The checksum policy, may be {@code null}.
     * @return The new policy, never {@code null}.
     */
    public RepositoryPolicy setChecksumPolicy( String checksumPolicy )
    {
        if ( this.checksumPolicy.equals(
checksumPolicy ) )
        {
            return this;
        }
        return new RepositoryPolicy( enabled, updatePolicy, checksumPolicy );
    }

    @Override
    public String toString()
    {
        StringBuilder buffer = new StringBuilder( 256 );
        buffer.append( "enabled=" ).append( isEnabled() );
        buffer.append( ", checksums=" ).append( getChecksumPolicy() );
        buffer.append( ", updates=" ).append( getUpdatePolicy() );
        return buffer.toString();
    }

    @Override
    public boolean equals( Object obj )
    {
        if ( this == obj )
        {
            return true;
        }

        if ( obj == null || !getClass().equals( obj.getClass() ) )
        {
            return false;
        }

        RepositoryPolicy that = (RepositoryPolicy) obj;
```

```
        return enabled == that.enabled && updatePolicy.equals( that.updatePolicy )
            && checksumPolicy.equals( that.checksumPolicy );
    }

    @Override
    public int hashCode()
    {
        int hash = 17;
        hash = hash * 31 + ( enabled ? 1 : 0 );
        hash = hash * 31 + updatePolicy.hashCode();
        hash = hash * 31 + checksumPolicy.hashCode();
        return hash;
    }

}
```

1.1298 reflexbox 4.0.6

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1.1303 unbzip2-stream 1.3.3

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Based on micro-bunzip by Rob Landley (rob@landley.net).

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1.1308 cpio 2.13

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1.1309 fill-range 4.0.0

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1.1310 lodash.isplainobject 4.0.6

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1.1313 wagon-http 2.4

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better-assert

Better c-style assertions using [callsite](https://github.com/visionmedia/callsite) for
self-documenting failure messages.

Installation

```
$ npm install better-assert
```

Example

By default assertions are enabled, however the __NO_ASSERT__ environment variable
will deactivate them when truthy.

```js
var assert = require('better-assert');

test();

function test() {
 var user = { name: 'tobi' };
 assert('tobi' == user.name);
 assert('number' == typeof user.age);
}
```

AssertionError: 'number' == typeof user.age

```
  at test (/Users/tj/projects/better-assert/example.js:9:3)
  at Object.<anonymous> (/Users/tj/projects/better-assert/example.js:4:1)
  at Module._compile (module.js:449:26)
  at Object.Module._extensions..js (module.js:467:10)
  at Module.load (module.js:356:32)
  at Function.Module._load (module.js:312:12)
  at Module.runMain (module.js:492:10)
  at process.startup.processNextTick.process._tickCallback
 (node.js:244:9)
```

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Found in path(s):
* /better-assert-1-0-2-4-tgz/package/Readme.md

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PLY (Python Lex-Yacc) Version 3.11

[![Build Status](https://travis-ci.org/dabeaz/ply.svg?branch=master)](https://travis-ci.org/dabeaz/ply)

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Introduction
============

PLY is a 100% Python implementation of the common parsing tools lex
and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc.
  If you know how to use these tools in C, you will find PLY
  to be similar.

- PLY provides *very* extensive error reporting and diagnostic
  information to assist in parser construction. The original
  implementation was developed for instructional purposes. As
  a result, the system tries to identify the most common types
  of errors made by novice users.

- PLY provides full support for empty productions, error recovery,
  precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient,
  better suited to large grammars, and which has a number of nice
  properties when dealing with syntax errors and other parsing problems.
  Currently, PLY builds its parsing tables using the LALR(1)
  algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers.
  This greatly simplifies the task of parser construction since it reduces
  the number of files and eliminates the need to run a separate lex/yacc
  tool before running your program.

- PLY can be used to build parsers for "real" programming languages.
  Although it is not ultra-fast due to its Python implementation,
  PLY can be used to parse grammars consisting of several hundred
  rules (as might be found for a language like C). The lexer and LR
  parser are also reasonably efficient when parsing typically
  sized programs. People have used PLY to build parsers for
  C, C++, ADA, and other real programming languages.

How to Use
==========

PLY consists of two files : lex.py and yacc.py. These are contained
within the 'ply' directory which may also be used as a Python package.
To use PLY, simply copy the 'ply' directory to your project and import
lex and yacc from the associated 'ply' package. For example:

    import ply.lex as lex

```
   import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py
individually and use them as modules. For example:

```
   import lex
   import yacc
```

The file setup.py can be used to install
ply using distutils.

The file doc/ply.html contains complete documentation on how to use
the system.

The example directory contains several different examples including a
PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
============
PLY requires the use of Python 2.6 or greater. However, you should
use the latest Python release if possible. It should work on just
about any platform. PLY has been tested with both CPython and Jython.
It also seems to work with IronPython.

Resources
=========
More information about PLY can be obtained on the PLY webpage at:

```
   http://www.dabeaz.com/ply
```

For a detailed overview of parsing theory, consult the excellent
book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and
Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown
may also be useful.

The GitHub page for PLY can be found at:

```
   https://github.com/dabeaz/ply
```

An old and
relatively inactive discussion group for PLY is found at:

```
   http://groups.google.com/group/ply-hack
```

Acknowledgments
===============

A special thanks is in order for all of the students in CS326 who
suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x.
Andrew Waters and Markus Schoepflin were instrumental in reporting bugs
and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0
==========
PLY-3.0 the first PLY release to support Python 3. However, backwards
compatibility with Python 2.6 is still preserved. PLY provides dual
Python 2/3 compatibility by restricting its implementation to a common
subset of basic language features. You should not convert PLY using
2to3--it is not necessary and may in fact break the implementation.

Example
=======

Here is a simple example showing a PLY implementation
 of a calculator
with variables.

```
  # -----------------------------------------------------------------------------
  # calc.py
  #
  # A simple calculator with variables.
  # -----------------------------------------------------------------------------

  tokens = (
     'NAME','NUMBER',
     'PLUS','MINUS','TIMES','DIVIDE','EQUALS',
     'LPAREN','RPAREN',
     )

  # Tokens

  t_PLUS    = r'\+'
  t_MINUS   = r'-'
  t_TIMES   = r'\*'
  t_DIVIDE  = r'/'
  t_EQUALS  = r'='
  t_LPAREN  = r'\('
  t_RPAREN  = r'\)'
  t_NAME    = r'[a-zA-Z_][a-zA-Z0-9_]*'

  def t_NUMBER(t):
```

```
    r'\d+'
    t.value = int(t.value)
    return t

# Ignored characters
t_ignore = " \t"

def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence
rules for the arithmetic operators
precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
    )

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    '''expression : expression PLUS expression
                  | expression MINUS expression
                  | expression TIMES expression
                  | expression DIVIDE expression'''
    if p[2] == '+'  : p[0] = p[1] + p[3]
    elif p[2] == '-': p[0] = p[1] - p[3]
    elif p[2] == '*': p[0] = p[1] * p[3]
    elif p[2] == '/': p[0] = p[1] / p[3]
```

```
  def p_expression_uminus(p):
      'expression : MINUS expression %prec UMINUS'
      p[0] = -p[2]

  def p_expression_group(p):
      'expression : LPAREN
 expression RPAREN'
      p[0] = p[2]

  def p_expression_number(p):
      'expression : NUMBER'
      p[0] = p[1]

  def p_expression_name(p):
      'expression : NAME'
      try:
          p[0] = names[p[1]]
      except LookupError:
          print("Undefined name '%s'" % p[1])
          p[0] = 0

  def p_error(p):
      print("Syntax error at '%s'" % p.value)

  import ply.yacc as yacc
  yacc.yacc()

  while True:
      try:
          s = raw_input('calc > ')   # use input() on Python 3
      except EOFError:
          break
      yacc.parse(s)
```

Bug Reports and Patches
=======================
My goal with PLY is to simply have a decent lex/yacc implementation
for Python. As a general rule, I don't spend huge amounts of time
working on it unless I receive very specific bug reports and/or
patches to fix problems. I also try to incorporate submitted feature
requests and enhancements into each new version. Please visit the PLY
github page
 at https://github.com/dabeaz/ply to submit issues and pull
requests. To contact me about bugs and/or new features, please send
email to dave@dabeaz.com.

-- Dave

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1.1387 fs-minipass 1.2.7

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1.1442 parse-passwd 1.0.0

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1.1443 cryptography 3.3.2

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1.1444 styled-components 4.4.1

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1.1445 portfinder 1.0.25

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1.1446 pseudomap 1.0.2

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1.1447 tough-cookie 2.4.3

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 {
  "test": "Sat, 15-Apr-17 21:01:22 GMT",
  "expected": "Sat, 15 Apr 2017 21:01:22 GMT"
 }, {
  "test": "Thu, 19-Apr-2007 16:00:00 GMT",
  "expected": "Thu, 19 Apr 2007 16:00:00 GMT"
 }, {
  "test": "Wed, 25 Apr 2007 21:02:13 GMT",
  "expected": "Wed, 25 Apr 2007 21:02:13 GMT"
 }, {
  "test": "Thu, 19/Apr\\2007 16:00:00 GMT",
  "expected": "Thu, 19 Apr 2007 16:00:00 GMT"
 }, {
  "test": "Fri, 1 Jan 2010 01:01:50 GMT",
  "expected": "Fri, 01 Jan 2010 01:01:50 GMT"
 }, {
  "test": "Wednesday, 1-Jan-2003 00:00:00 GMT",
  "expected": "Wed, 01 Jan 2003 00:00:00 GMT"
 }, {
  "test": ", 1-Jan-2003 00:00:00 GMT",
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 }, {
  "test": "Wed,18-Apr-07 22:50:12 GMT",
  "expected": "Wed, 18 Apr 2007 22:50:12 GMT"
 }, {
  "test":
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 }, {
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}, {
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  "expected": "Wed, 18 Apr 2007 22:50:12 GMT"
}, {
  "test": "Mon, 18-Apr-1977 22:50:13 GMT",
  "expected": "Mon, 18 Apr 1977 22:50:13 GMT"
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  "expected": "Mon, 18 Apr 1977 22:50:13 GMT"
}, {
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  "expected": "Wed, 18 Apr 2007 22:50:12 GMT"
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  "expected": "Wed, 18 Apr 2007 22:50:12 GMT"
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  "expected": "Wed, 01 Jan 2003 00:00:00 GMT"
}, {
  "test": "Sat, 15-Apr-17 21:01:22",
  "expected": "Sat, 15 Apr 2017 21:01:22
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}, {
  "test": "Sat, 15-Apr-17 21:01:22 GMT-2",
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  "test": "Sat, 15-Apr-17 21:01:22 GMT BLAH",
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  "test": "Sat, 15-Apr-17 21:01:22 GMT-0400",
  "expected": "Sat, 15 Apr 2017 21:01:22 GMT"
}, {
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  "expected": "Sat, 15 Apr 2017 21:01:22 GMT"
}, {
  "test": "Sat, 15-Apr-17 21:01:22 DST",
  "expected": "Sat, 15 Apr 2017 21:01:22 GMT"
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  "test": "Sat, 15-Apr-17 21:01:22 -0400",
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}, {
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  "test": "Sat, 15-Apr-17 21:01:22 11:22:33",
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}, {
  "test": "Sat, 15-Apr-17 ::00 21:01:22",
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}, {
  "test": "Sat, 15-Apr-17 boink:z 21:01:22",
  "expected":
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}, {
  "test": "Sat, 15-Apr-17 91:22:33 21:01:22",
  "expected": null
}, {
  "test": "Thu Apr 18 22:50:12 2007 GMT",
  "expected": "Wed, 18 Apr 2007 22:50:12 GMT"
}, {
  "test": "22:50:12 Thu Apr 18 2007 GMT",
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}, {
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  "expected": "Sat, 15 Apr 2017 21:01:22 GMT"
}, {
  "test": "15-Sat, Apr-17 21:01:22 GMT",
  "expected": "Sat, 15 Apr 2017 21:01:22 GMT"

}, {
  "test": "15-Sat, Apr 21:01:22 GMT 17",
  "expected": "Sat, 15 Apr 2017 21:01:22 GMT"
}, {
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  "expected": "Sat, 15 Apr 2017 21:01:22 GMT"
}, {
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 }, {
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 }, {
  "test": "2017 April 15 21:01:22",
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 }, {
  "test": "15 April 2017 21:01:22",
  "expected": "Sat, 15 Apr 2017 21:01:22 GMT"
 }, {
  "test": "98 April 17 21:01:22",
  "expected": null
 }, {
  "test": "Thu, 012-Aug-2008 20:49:07 GMT",
  "expected": null
 }, {
  "test": "Thu, 12-Aug-31841 20:49:07 GMT",
  "expected": null
 }, {
  "test": "Thu, 12-Aug-9999999999 20:49:07
 GMT",
  "expected": null
 }, {
  "test": "Thu, 999999999999-Aug-2007 20:49:07 GMT",
  "expected": null
 }, {
  "test": "Thu, 12-Aug-2007 20:61:99999999999 GMT",
  "expected": null
 }, {
  "test": "IAintNoDateFool",
  "expected": null
 }
]
```


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1.1448 tornado 6.1

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1.1450 union-value 1.0.1

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1.1451 reusify 1.0.4

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1.1452 go-capability 0.0.0-20200815063812-42c35b437635

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1.1453 query-string 6.8.2

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1.1454 mdast-util-to-string 1.0.7

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1.1456 workbox-expiration 4.3.1

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1.1457 pyinotify 0.9.6

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1.1458 exec-buffer 3.2.0

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1.1459 dockerpty 0.4.1

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* erikcederstrand <http://code.google.com/u/erikcederstrand/>
 * NTLM-authenticated HTTPSConnectionPool
 * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
 * Client-verified SSL certificates for HTTPSConnectionPool

 * Response gzip and deflate encoding support
 * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
 * Non-multipart encoding for POST requests

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* hartator <hartator@gmail.com>
 * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
 * Support for TLS SNI
 * API unification of ssl_version/cert_reqs
 * SSL fingerprint and alternative hostname verification
 * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
 * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
 * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
 * Correct six.moves conflict
 * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>

* Allowed to skip SSL hostname verification

* Cory Benfield
<https://lukasa.co.uk/about/>
* Stream method for Response objects.
* Return native strings in header values.
* Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
* Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
* Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
* Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
* Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
* Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
* Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
* HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
* Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
* Disabled TLS compression by default on Python 3.2+
* Disabled TLS compression in pyopenssl contrib module
* Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
* Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
* Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
* HTTPHeaderDict and associated tests and docs
* Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>

 * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
 * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
 * PEP8 Compliance and Linting
 * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
 * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
 * Google App Engine documentation

* Aaron Meurer
 <asmeurer@gmail.com>
 * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
 * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
 * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
 * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
 * Updates to the default SSL configuration

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

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

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

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

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

* Disassem <https://github.com/Disassem>

* Fix pool-default headers not applying for url-encoded
requests like GET.

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

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

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

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

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

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

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

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

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

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

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

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

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

* Aviv Palivoda <palaviv@gmail.com>
* History list to Retry object.

* HTTPResponse contains the last Retry object.

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

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

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

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

* Tom White <s6yg1ez3@mail2tor.com>
* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
* Stop buffering entire deflate-encoded responses.

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

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

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

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

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

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

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

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

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

* Chris Wilcox <git@crwilcox.com>
 * Improve contribution guide
 * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

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

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

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

* Justin Bramley <https://github.com/jbramleycl>
 * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
 * Remove Authorization header
 regardless of case when redirecting to cross-site

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

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

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

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

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

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

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

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

* [Bastiaan Bakker] <https://github.com/bastiaanb>
 * Support for logging session keys
 via environment variable ``SSLKEYLOGFILE`` (Python 3.8+)

* [Ezzeri Esa] <https://github.com/savarin>
 * Ports and extends on types from typeshed

* [Your name or handle] <[email or website]>
 * [Brief summary of your changes]
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1.1462 @pieh/friendly-errors-webpack-plugin 1.7.0-chalk-2

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Upstream-Contact: Thorsten Kukuk <kukuk@thkukuk.de>
Source: https://github.com/thkukuk/libnsl

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config.h.in
libnsl.pc.in
Makefile.am
NEWS
README
src/Makefile.am
src/do_ypcall.c
src/internal.h
src/libnsl.map
src/nisplus/nis_error.c
src/taddr2host.c
src/taddr2ipstr.c
src/taddr2port.c
src/yp_first.c
src/yp_get_default_domain.c
src/yp_maplist.c
src/yp_master.c
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src/yperr_string.c
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Files: src/libc-lock.h
src/nisplus/nis_add.c
src/nisplus/nis_addmember.c
src/nisplus/nis_call.c
src/nisplus/nis_callback.c
src/nisplus/nis_checkpoint.c
src/nisplus/nis_clone_dir.c
src/nisplus/nis_clone_obj.c
src/nisplus/nis_clone_res.c
src/nisplus/nis_creategroup.c
src/nisplus/nis_defaults.c
src/nisplus/nis_destroygroup.c
src/nisplus/nis_domain_of.c
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src/nisplus/nis_print_group_entry.c
src/nisplus/nis_remove.c
src/nisplus/nis_removemember.c
src/nisplus/nis_rmdir.c
src/nisplus/nis_server.c
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src/nisplus/nis_table.c
src/nisplus/nis_util.c
src/nisplus/nis_verifygroup.c
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1.1471 jsprim 1.4.1

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1.1477 fs-write-stream-atomic 1.0.10

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1.1479 micromatch 3.1.10

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1.1488 cache-manager 2.10.1

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1.1495 grep 3.6

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1.1496 smmap 4.0.0

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1.1497 command-exists 1.2.8

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1.1498 defer-to-connect 1.1.1

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1.1499 require-main-filename 2.0.0

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1.1500 maven-settings-builder 3.0.5

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1.1501 ee-first 1.1.1

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1.1502 lru-cache 4.0.0

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1.1503 mkdirp 0.5.5

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1.1504 rebass 4.0.7

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1.1505 stack-trace 0.0.10

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1.1506 commondir 1.0.1

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1.1508 human-signals 1.1.1

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1.1520 p-timeout 2.0.1

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  *
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  *
  *  Basic encoding and decoding of Macintosh files to the
  *  MacBinary III spec.
  * ------------------------------------------------------------------------
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71150.2731@compuserve.com]:

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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
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1.1522 jimp 0.6.8

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1.1534 wide-align 1.1.2

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1.1535 bzip2 1.0.8

1.1536 request 2.88.0

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1.1543 buffer-crc32 0.2.13

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
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1.1559 array-unique 0.3.2

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1.1560 libgpg-error 1.41

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

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

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

6. As an exception to the Sections above, you may also combine or
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with the Library, with the complete machine-readable "work that
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executable containing the modified Library. (It is understood
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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will operate properly
with a modified version of the library, if
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c) Accompany the work with a written offer, valid for at least
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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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1.1567 object-component 0.0.3

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1.1568 safe-regex 1.1.0

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1.1569 string-similarity 1.2.2

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1.1570 aproba 1.2.0

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1.1572 pynacl 1.3.0

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1.1597 estraverse 4.3.0

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1.1599 apipkg 1.5

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1.1600 mkdirp 0.5.1

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1.1603 chownr 1.1.3

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1.1607 python-setuptools 41.2.0

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Aymeric Augustin
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Ben Bariteau
Ned Batchelder
Wouter Bolsterlee
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Toshiki Kataoka
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Found in path(s):
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* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/UpdateCheck.java
*
/aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DataPool.java
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/aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/MetadataGeneratorFactory.java
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* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/SimpleLocalRepositoryManagerFactory.java
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* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DefaultRemoteRepositoryManager.java
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* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/ArtifactRequestBuilder.java

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1.1638 latest-version 3.1.0

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1.1644 click 7.1.2

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.. _contrib:

==========
click-contrib
==========

As the userbase of Click grows, more and more major feature requests pop up in
Click's bugtracker. As reasonable as it may be for those features to be bundled
with Click instead of being a standalone project, many of those requested
features are either highly experimental or have unproven practical use, while
potentially being a burden to maintain.

This is why click-contrib_ exists. The GitHub organization is a collection of
possibly experimental third-party packages whose featureset does not belong
into Click, but also a playground for major features that may be added to Click
in the future. It is also meant to coordinate and concentrate effort on writing
third-party extensions for Click, and to ease the effort of searching for such
extensions. In that sense it could be described as a low-maintenance
alternative to extension repositories of other frameworks.

Please
 note that the quality and stability of those packages may be different
than what you expect from Click itself. While published under a common
organization, they are still projects separate from Click.

.. _click-contrib: https://github.com/click-contrib/

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binary only, patch it back to the system, and then use a wrapper

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import io

```
import re

from setuptools import find_packages
from setuptools import setup

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

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

setup(
  name="click",
  version=version,
  url="https://palletsprojects.com/p/click/",
  project_urls={
     "Documentation": "https://click.palletsprojects.com/",
     "Code": "https://github.com/pallets/click",
     "Issue tracker": "https://github.com/pallets/click/issues",
  },
  license="BSD-3-Clause",
  maintainer="Pallets",
  maintainer_email="contact@palletsprojects.com",
  description="Composable command line interface toolkit",
  long_description=readme,
  packages=find_packages("src"),
  package_dir={"": "src"},
  include_package_data=True,
  python_requires=">=2.7, !=3.0.*,
!=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
  classifiers=[
     "Development Status :: 5 - Production/Stable",
     "Intended Audience :: Developers",
     "License :: OSI Approved :: BSD License",
     "Operating System :: OS Independent",
     "Programming Language :: Python",
     "Programming Language :: Python :: 2",
     "Programming Language :: Python :: 3",
  ],
)
```

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1.1645 meant 1.0.2

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1.1647 caseless 0.12.0

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1.1661 mime 2.4.4

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

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

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

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Roelofs hacked it into a (in his words) "slightly cheesy" 'pamquant' back
in 1997 (see http://pobox.com/~newt/greg_rgba.html) and finally he ripped out
the cheesy file-I/O parts and replaced them with nice PNG code in December
2000. The PNG reading and writing code is a merged and slightly simplified
version of readpng, readpng2, and writepng from his book "PNG: The Definitive
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

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

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1.1681 delayed-stream 1.0.0

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delayed-stream

Buffers events from a stream until you are ready to handle them.

Installation

``` bash
npm install delayed-stream
```

Usage

The following example shows how to write a http echo server that delays its
response by 1000 ms.

``` javascript
var DelayedStream = require('delayed-stream');
var http = require('http');

http.createServer(function(req, res) {
 var delayed = DelayedStream.create(req);

 setTimeout(function() {
   res.writeHead(200);
   delayed.pipe(res);
 }, 1000);
});
```

If you are not using `Stream#pipe`, you can also manually release the buffered events by calling `delayedStream.resume()`:

``` javascript
var delayed = DelayedStream.create(req);

setTimeout(function() {
 // Emit all buffered events and resume underlaying source
 delayed.resume();
}, 1000);
```

Implementation

In order to use this meta stream properly, here are a few things you should know about the implementation.

Event Buffering / Proxying

All events of the `source` stream are hijacked by overwriting the `source.emit` method. Until node implements a catch-all event listener, this is the only way.

However, delayed-stream still continues to emit all events it captures on the `source`, regardless of whether you have released the delayed stream yet or not.

Upon creation, delayed-stream captures all `source` events and stores them in an internal event buffer. Once `delayedStream.release()` is called, all buffered events are emitted on the `delayedStream`, and the event buffer is cleared. After that, delayed-stream merely acts as a proxy for the underlaying source.

Error handling

Error events on `source` are buffered / proxied just like any other events. However, `delayedStream.create` attaches a no-op `'error'` listener to the `source`. This way you only have to handle errors on the `delayedStream` object, rather than in two places.

Buffer limits

delayed-stream provides a `maxDataSize` property that can be used to limit the amount of data being buffered. In order to protect you from bad `source` streams that don't react to `source.pause()`, this feature is enabled by default.

API

DelayedStream.create(source, [options])

Returns a new `delayedStream`. Available options are:

* `pauseStream`
* `maxDataSize`

The description for those properties can be found below.

delayedStream.source

The `source` stream managed by this object. This is useful if you are
passing your `delayedStream` around, and you still want to access properties
on the `source` object.

delayedStream.pauseStream = true

Whether to pause the underlaying `source` when calling
`DelayedStream.create()`. Modifying this property afterwards has no effect.

delayedStream.maxDataSize = 1024 * 1024

The amount of data to buffer before emitting an `error`.

If the underlaying source is emitting `Buffer` objects, the `maxDataSize`
refers to bytes.

If the underlaying source
 is emitting JavaScript strings, the size refers to
characters.

If you know what you are doing, you can set this property to `Infinity` to
disable this feature. You can also modify this property during runtime.

delayedStream.dataSize = 0

The amount of data buffered so far.

delayedStream.readable

An ECMA5 getter that returns the value of `source.readable`.

delayedStream.resume()

If the `delayedStream` has not been released so far, `delayedStream.release()`
is called.

In either case, `source.resume()` is called.

delayedStream.pause()

Calls `source.pause()`.

delayedStream.pipe(dest)

Calls `delayedStream.resume()` and then proxies the arguments to `source.pipe`.

delayedStream.release()

Emits and clears all events that have been buffered up so far. This does not
resume the underlaying source, use `delayedStream.resume()` instead.

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1.1682 schema-utils 0.4.7

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1.1700 jsonschema 3.2.0

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