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Julian Seward, Cambridge, UK. jseward@bzip.org bzip2/libbzip2 version 1.0.4 of 20 December 2006 --- A note on GPL versions

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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>

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

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

<xsl:with-param name="text" select="\$rest"/>

</xsl:call-template>

```
</ri>
</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"> 
 <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
   <xsl:with-param name="years" select="year"/>
 </xsl:call-template>
 <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
     <xsl:value-of select="$isc.copyright.breakline"/>
 <xsl:text>&#10;</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
   </xsl:with-param>
 </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>
<1--
- Local variables:
- mode: sgml
- End:
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1.8 dropbear 2015.67

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*

* curve25519-donna: Curve25519 elliptic curve, public key function

*

* http://code.google.com/p/curve25519-donna/

*

* Adam Langley <agl@imperialviolet.org>

*

* Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>

*

- * More information about curve25519 can be found here
- * http://cr.yp.to/ecdh.html

*

- * djb's sample implementation of curve25519 is written in a special assembly
- * language called qhasm and uses the floating point registers.

*

- * This is, almost, a clean room reimplementation from the curve25519 paper. It
- * uses many of the tricks described therein. Only the crecip function is taken
- * from the sample implementation.

*/

1.9 ebtables 2.0.10-4

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# Gordon's javascript-state-machine to python
# https://github.com/jakesgordon/javascript-state-machine
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1.15 Hiawatha 9.13 :Hugo Leisink 10 May 2015

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1.21 jQuery Mask 1.13.8

1.22 jQuery Masked Input 1.4.1

1.23 jQuery UI 1.11.4

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1.24 jQuery-Datatables 1.10.9

1.25 json-py 3.4

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1.26 klish 2.0.4

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Serj Kalichev

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1.27 l2tpv3tun 0.2

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```
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*

*/

/* Implementation note:-

*

* This code is written for easy import into the ip utility of the

* iproute2 package. However, iproute2 uses libnl instead of

* libnetlink, so this code is maintained separately for now.
```

1.28 libffi 3.2.1:2

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1.30 libndp 1.8-alpha

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1.31 libnl 3.2.25 :r1

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1.32 libpcap 1.7.4

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1.33 libtirpc 1.0.1

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1.35 libzmq 4.2.0

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1.36 Linux kernel 4.20.4

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{

return (strcmp(license, "GPL") == 0

|| strcmp(license, "GPL v2") == 0

|| strcmp(license, "GPL and additional rights") == 0

|| strcmp(license, "Dual BSD/GPL") == 0

|| strcmp(license, "Dual MIT/GPL") == 0

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}
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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.
- ጥ
- * 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

```
* (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
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
* M. Welsh, 6 July 1996
   GNU GENERAL PUBLIC LICENSE
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```

* expects the Linux ATM stack to support scatter-gather lists

Open Source Used In Smart PHY 220 4.1

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return (strcmp(license, "GPL") == 0
 \parallel strcmp(license, "GPL v2") == 0
 || strcmp(license, "GPL and additional rights") == 0
 || strcmp(license, "Dual BSD/GPL") == 0
 || strcmp(license, "Dual MIT/GPL") == 0
 \parallel strcmp(license, "Dual MPL/GPL") == 0);
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The Linux Kernel is provided under:
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according with:
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.. _fdl-using:

Addendum

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The User-space API (UAPI) header files, which describe the interface of user-space programs to the kernel are a special case. According to the note in the kernel COPYING file, the syscall interface is a clear boundary, which does not extend the GPL requirements to any software which uses it to communicate with the kernel. Because the UAPI headers must be includable into any source files which create an executable running on the Linux kernel, the exception must be documented by a special license expression.

The common way of expressing the license of a source file is to add the matching boilerplate text into the top comment of the file. Due to formatting, typos etc. these "boilerplates" are hard to validate for tools which are used in the context of license compliance.

An alternative to boilerplate text is the use of Software Package Data Exchange (SPDX) license identifiers in each source file. SPDX license identifiers are machine parsable and precise shorthands for the license under which the content of the file is contributed. SPDX license identifiers are managed by the SPDX Workgroup at the Linux Foundation and have been agreed on by partners throughout the industry, tool vendors, and legal teams. For further information see https://spdx.org/

The Linux kernel requires the precise SPDX identifier in all source files. The valid identifiers used in the kernel are explained in the section `License identifiers`_ and have been retrieved from the official SPDX license list at https://spdx.org/licenses/ along with the license texts.

License identifier syntax

1. Placement:

The SPDX license identifier in kernel files shall be added at the first possible line in a file which can contain a comment. For the majority or files this is the first line, except for scripts which require the '#!PATH_TO_INTERPRETER' in the first line. For those scripts the SPDX identifier goes into the second line.

2. Style:

The SPDX license identifier is added in form of a comment. The comment style depends on the file type::

C source: // SPDX-License-Identifier: <SPDX License Expression>

```
C header: /* SPDX-License-Identifier: <SPDX License Expression> */
ASM: /* SPDX-License-Identifier: <SPDX License Expression> */
scripts: # SPDX-License-Identifier: <SPDX License Expression>
.rst: .. SPDX-License-Identifier: <SPDX License Expression>
.dts{i}: // SPDX-License-Identifier: <SPDX License Expression>
```

If a specific tool cannot handle the standard comment style, then the appropriate comment mechanism which the tool accepts shall be used. This is the reason for having the "/* */" style comment in C header files. There was build breakage observed with generated .lds files where 'ld' failed to parse the C++ comment. This has been fixed by now, but there are still older assembler tools which cannot handle C++ style comments.

3. Syntax:

A <SPDX License Expression> is either an SPDX short form license identifier found on the SPDX License List, or the combination of two SPDX short form license identifiers separated by "WITH" when a license exception applies. When multiple licenses apply, an expression consists of keywords "AND", "OR" separating sub-expressions and surrounded by "(", ")".

License identifiers for licenses like [L]GPL with the 'or later' option are constructed by using a "+" for indicating the 'or later' option.::

```
// SPDX-License-Identifier: GPL-2.0+
// SPDX-License-Identifier: LGPL-2.1+
```

WITH should be used when there is a modifier to a license needed. For example, the linux kernel UAPI files use the expression::

```
// SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note // SPDX-License-Identifier: GPL-2.0+ WITH Linux-syscall-note
```

Other examples using WITH exceptions found in the kernel are::

```
// SPDX-License-Identifier: GPL-2.0 WITH mif-exception // SPDX-License-Identifier: GPL-2.0+ WITH GCC-exception-2.0
```

Exceptions can only be used with particular License identifiers. The valid License identifiers are listed in the tags of the exception text file. For details see the point `Exceptions`_ in the chapter `License identifiers`_.

OR should be used if the file is dual licensed and only one license is

to be selected. For example, some dtsi files are available under dual licenses::

```
// SPDX-License-Identifier: GPL-2.0 OR BSD-3-Clause
```

Examples from the kernel for license expressions in dual licensed files::

```
// SPDX-License-Identifier: GPL-2.0 OR MIT
// SPDX-License-Identifier: GPL-2.0 OR BSD-2-Clause
// SPDX-License-Identifier: GPL-2.0 OR Apache-2.0
// SPDX-License-Identifier: GPL-2.0 OR MPL-1.1
// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) OR MIT
// SPDX-License-Identifier: GPL-1.0+ OR BSD-3-Clause OR OpenSSL
```

AND should be used if the file has multiple licenses whose terms all apply to use the file. For example, if code is inherited from another project and permission has been given to put it in the kernel, but the original license terms need to remain in effect::

```
// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) AND MIT
```

Another other example where both sets of license terms need to be adhered to is::

```
// SPDX-License-Identifier: GPL-1.0+ AND LGPL-2.1+
```

License identifiers

The licenses currently used, as well as the licenses for code added to the kernel, can be broken down into:

```
1. _`Preferred licenses`:
```

Whenever possible these licenses should be used as they are known to be fully compatible and widely used. These licenses are available from the directory::

LICENSES/preferred/

in the kernel source tree.

The files in this directory contain the full license text and 'Metatags'. The file names are identical to the SPDX license identifier which shall be used for the license in source files.

Examples::

Contains the GPL version 2 license text and the required metatags::

LICENSES/preferred/MIT

Contains the MIT license text and the required metatags

_`Metatags`:

The following meta tags must be available in a license file:

- Valid-License-Identifier:

One or more lines which declare which License Identifiers are valid inside the project to reference this particular license text. Usually this is a single valid identifier, but e.g. for licenses with the 'or later' options two identifiers are valid.

- SPDX-URL:

The URL of the SPDX page which contains additional information related to the license.

- Usage-Guidance:

Freeform text for usage advice. The text must include correct examples for the SPDX license identifiers as they should be put into source files according to the `License identifier syntax`_ guidelines.

- License-Text:

All text after this tag is treated as the original license text

File format examples::

Valid-License-Identifier: GPL-2.0 Valid-License-Identifier: GPL-2.0+

SPDX-URL: https://spdx.org/licenses/GPL-2.0.html

Usage-Guide:

To use this license in source code, put one of the following SPDX tag/value pairs into a comment according to the placement guidelines in the licensing rules documentation.

For 'GNU General Public License (GPL) version 2 only' use:

SPDX-License-Identifier: GPL-2.0

For 'GNU General Public License (GPL) version 2 or any later version' use:

SPDX-License-Identifier: GPL-2.0+

License-Text:

::

SPDX-License-Identifier: MIT

SPDX-URL: https://spdx.org/licenses/MIT.html

Usage-Guide:

To use this license in source code, put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation.

SPDX-License-Identifier: MIT

License-Text:
Full license text

|

2. Not recommended licenses:

These licenses should only be used for existing code or for importing code from a different project. These licenses are available from the directory::

LICENSES/other/

in the kernel source tree.

The files in this directory contain the full license text and 'Metatags'. The file names are identical to the SPDX license identifier which shall be used for the license in source files.

Examples::

LICENSES/other/ISC

Contains the Internet Systems Consortium license text and the required metatags::

LICENSES/other/ZLib

Contains the ZLIB license text and the required metatags.

Metatags:

The metatag requirements for 'other' licenses are identical to the requirements of the `Preferred licenses`_.

File format example::

Valid-License-Identifier: ISC

SPDX-URL: https://spdx.org/licenses/ISC.html

Usage-Guide:

Usage of this license in the kernel for new code is discouraged and it should solely be used for importing code from an already existing project.

To use this license in source code, put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation.

SPDX-License-Identifier: ISC

License-Text:
Full license text

3. _`Exceptions`:

Some licenses can be amended with exceptions which grant certain rights which the original license does not. These exceptions are available from the directory::

LICENSES/exceptions/

in the kernel source tree. The files in this directory contain the full exception text and the required `Exception Metatags`_.

Examples::

LICENSES/exceptions/Linux-syscall-note

Contains the Linux syscall exception as documented in the COPYING file of the Linux kernel, which is used for UAPI header files. e.g. * SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note */::

LICENSES/exceptions/GCC-exception-2.0

Contains the GCC 'linking exception' which allows to link any binary independent of its license against the compiled version of a file marked with this exception. This is required for creating runnable executables from source code which is not compatible with the GPL.

_`Exception Metatags`:

The following meta tags must be available in an exception file:

- SPDX-Exception-Identifier:

One exception identifier which can be used with SPDX license

identifiers.

- SPDX-URL:

The URL of the SPDX page which contains additional information related to the exception.

- SPDX-Licenses:

A comma separated list of SPDX license identifiers for which the exception can be used.

- Usage-Guidance:

Freeform text for usage advice. The text must be followed by correct examples for the SPDX license identifiers as they should be put into source files according to the `License identifier syntax`_ guidelines.

- Exception-Text:

All text after this tag is treated as the original exception text

File format examples::

```
SPDX-Exception-Identifier: Linux-syscall-note
```

SPDX-URL: https://spdx.org/licenses/Linux-syscall-note.html

SPDX-Licenses: GPL-2.0, GPL-2.0+, GPL-1.0+, LGPL-2.0, LGPL-2.0+, LGPL-2.1+ LGPL-2.1+

Usage-Guidance:

This exception is used together with one of the above SPDX-Licenses to mark user-space API (uapi) header files so they can be included into non GPL compliant user-space application code.

To use this exception add it with the keyword WITH to one of the identifiers in the SPDX-Licenses tag:

SPDX-License-Identifier: <SPDX-License> WITH Linux-syscall-note

Exception-Text:

Full exception text

::

SPDX-Exception-Identifier: GCC-exception-2.0

SPDX-URL: https://spdx.org/licenses/GCC-exception-2.0.html

SPDX-Licenses: GPL-2.0, GPL-2.0+

Usage-Guidance:

The "GCC Runtime Library exception 2.0" is used together with one of the above SPDX-Licenses for code imported from the GCC runtime library.

To use this exception add it with the keyword WITH to one of the identifiers in the SPDX-Licenses tag:

SPDX-License-Identifier: <SPDX-License> WITH GCC-exception-2.0 Exception-Text:
Full exception text

All SPDX license identifiers and exceptions must have a corresponding file in the LICENSE subdirectories. This is required to allow tool verification (e.g. checkpatch.pl) and to have the licenses ready to read and extract right from the source, which is recommended by various FOSS organizations, e.g. the `FSFE REUSE initiative https://reuse.software/">https://reuse.software/. Contributors

.. note::

This documentation is outdated. There are several other DVB contributors that aren't listed below.

Thanks go to the following people for patches and contributions:

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- Christian Theiss
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- for their continuing work on the DVB driver
- Michael Holzt <kju@debian.org>
- for his contributions to the dvb-net driver
- Diego Picciani <d.picciani@novacomp.it>
- for CyberLogin for Linux which allows logging onto EON
 (in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)
- Martin Schaller <martin@smurf.franken.de>
- for patching the cable card decoder driver
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- for the tda1004x frontend driver, and various bugfixes
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- for the driver for the Technisat SkyStar2 PCI DVB card
- Vadim Catana <skystar@moldova.cc>,
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- Davor Emard <emard@softhome.net>
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- for the support of the Fujitsu-Siemens Activy budget DVB-S
- Kenneth Aafly <ke-aa@frisurf.no>
- for adding support for Typhoon DVB-S budget card
- Ernst Peinlich <e.peinlich@inode.at>
- for tuning/DiSEqC support for the DEC 3000-s
- Peter Beutner <p.beutner@gmx.net>
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- Michael Krufky <mkrufky@linuxtv.org>
- for maintaining v4l/dvb inter-tree dependencies
- Taylor Jacob rtjacob@earthlink.net
- for the nxt2002 frontend driver
- Jean-Francois Thibert < jeanfrancois@sagetv.com>
- for the nxt2004 frontend driver
- Kirk Lapray < kirk.lapray@gmail.com>
- for the or51211 and or51132 frontend drivers, and for merging the nxt2002 and nxt2004 modules into a single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a line to the DVB mailing list)

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The SPDX license identifier is added in form of a comment. The comment style depends on the file type::

C source: // SPDX-License-Identifier: <SPDX License Expression>
C header: /* SPDX-License-Identifier: <SPDX License Expression> */
ASM: /* SPDX-License-Identifier: <SPDX License Expression> */
scripts: # SPDX-License-Identifier: <SPDX License Expression>
.rst: .. SPDX-License-Identifier: <SPDX License Expression>
.dts{i}: // SPDX-License-Identifier: <SPDX License Expression>

If a specific tool cannot handle the standard comment style, then the appropriate comment mechanism which the tool accepts shall be used. This is the reason for having the " $\$ '" style comment in C header files. There was build breakage observed with generated .lds files where 'ld' failed to parse the C++ comment. This has been fixed by now, but there are still older assembler tools which cannot handle C++ style

comments.

I

3. Syntax:

A <SPDX License Expression> is either an SPDX short form license identifier found on the SPDX License List, or the combination of two SPDX short form license identifiers separated by "WITH" when a license exception applies. When multiple licenses apply, an expression consists of keywords "AND", "OR" separating sub-expressions and surrounded by "(", ")".

License identifiers for licenses like [L]GPL with the 'or later' option are constructed by using a "+" for indicating the 'or later' option.::

```
// SPDX-License-Identifier: GPL-2.0+
// SPDX-License-Identifier: LGPL-2.1+
```

WITH should be used when there is a modifier to a license needed. For example, the linux kernel UAPI files use the expression::

```
// SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note // SPDX-License-Identifier: GPL-2.0+ WITH Linux-syscall-note
```

Other examples using WITH exceptions found in the kernel are::

```
// SPDX-License-Identifier: GPL-2.0 WITH mif-exception // SPDX-License-Identifier: GPL-2.0+ WITH GCC-exception-2.0
```

Exceptions can only be used with particular License identifiers. The valid License identifiers are listed in the tags of the exception text file. For details see the point `Exceptions`_ in the chapter `License identifiers`_.

OR should be used if the file is dual licensed and only one license is to be selected. For example, some dtsi files are available under dual licenses::

```
// SPDX-License-Identifier: GPL-2.0 OR BSD-3-Clause
```

Examples from the kernel for license expressions in dual licensed files::

```
// SPDX-License-Identifier: GPL-2.0 OR MIT
// SPDX-License-Identifier: GPL-2.0 OR BSD-2-Clause
// SPDX-License-Identifier: GPL-2.0 OR Apache-2.0
// SPDX-License-Identifier: GPL-2.0 OR MPL-1.1
// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) OR MIT
```

// SPDX-License-Identifier: GPL-1.0+ OR BSD-3-Clause OR OpenSSL

AND should be used if the file has multiple licenses whose terms all apply to use the file. For example, if code is inherited from another project and permission has been given to put it in the kernel, but the original license terms need to remain in effect::

// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) AND MIT

Another other example where both sets of license terms need to be adhered to is::

// SPDX-License-Identifier: GPL-1.0+ AND LGPL-2.1+

License identifiers

The licenses currently used, as well as the licenses for code added to the kernel, can be broken down into:

1. _`Preferred licenses`:

Whenever possible these licenses should be used as they are known to be fully compatible and widely used. These licenses are available from the directory::

LICENSES/preferred/

in the kernel source tree.

The files in this directory contain the full license text and 'Metatags'. The file names are identical to the SPDX license identifier which shall be used for the license in source files.

Examples::

LICENSES/preferred/GPL-2.0

Contains the GPL version 2 license text and the required metatags::

LICENSES/preferred/MIT

Contains the MIT license text and the required metatags

_`Metatags`:

The following meta tags must be available in a license file:

- Valid-License-Identifier:

One or more lines which declare which License Identifiers are valid inside the project to reference this particular license text. Usually this is a single valid identifier, but e.g. for licenses with the 'or later' options two identifiers are valid.

- SPDX-URL:

The URL of the SPDX page which contains additional information related to the license.

- Usage-Guidance:

Freeform text for usage advice. The text must include correct examples for the SPDX license identifiers as they should be put into source files according to the `License identifier syntax`_ guidelines.

- License-Text:

All text after this tag is treated as the original license text

File format examples::

```
Valid-License-Identifier: GPL-2.0
Valid-License-Identifier: GPL-2.0+
```

SPDX-URL: https://spdx.org/licenses/GPL-2.0.html

Usage-Guide:

To use this license in source code, put one of the following SPDX tag/value pairs into a comment according to the placement guidelines in the licensing rules documentation.

For 'GNU General Public License (GPL) version 2 only use:

SPDX-License-Identifier: GPL-2.0

For 'GNU General Public License (GPL) version 2 or any later version' use:

SPDX-License-Identifier: GPL-2.0+

License-Text:
Full license text

::

SPDX-License-Identifier: MIT

SPDX-URL: https://spdx.org/licenses/MIT.html

Usage-Guide:

To use this license in source code, put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation.

SPDX-License-Identifier: MIT

License-Text:

Full license text

2. Not recommended licenses:

These licenses should only be used for existing code or for importing code from a different project. These licenses are available from the directory::

LICENSES/other/

in the kernel source tree.

The files in this directory contain the full license text and 'Metatags'. The file names are identical to the SPDX license identifier which shall be used for the license in source files.

Examples::

LICENSES/other/ISC

Contains the Internet Systems Consortium license text and the required metatags::

LICENSES/other/ZLib

Contains the ZLIB license text and the required metatags.

Metatags:

The metatag requirements for 'other' licenses are identical to the requirements of the `Preferred licenses`_.

File format example::

Valid-License-Identifier: ISC

SPDX-URL: https://spdx.org/licenses/ISC.html

Usage-Guide:

Usage of this license in the kernel for new code is discouraged and it should solely be used for importing code from an already existing project.

To use this license in source code, put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation.

SPDX-License-Identifier: ISC

License-Text:

Full license text

3. _`Exceptions`:

Some licenses can be amended with exceptions which grant certain rights which the original license does not. These exceptions are available from the directory::

LICENSES/exceptions/

in the kernel source tree. The files in this directory contain the full exception text and the required `Exception Metatags`_.

Examples::

LICENSES/exceptions/Linux-syscall-note

Contains the Linux syscall exception as documented in the COPYING file of the Linux kernel, which is used for UAPI header files. e.g. * SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note */::

LICENSES/exceptions/GCC-exception-2.0

Contains the GCC 'linking exception' which allows to link any binary independent of its license against the compiled version of a file marked with this exception. This is required for creating runnable executables from source code which is not compatible with the GPL.

_`Exception Metatags`:

The following meta tags must be available in an exception file:

- SPDX-Exception-Identifier:

One exception identifier which can be used with SPDX license identifiers.

- SPDX-URL:

The URL of the SPDX page which contains additional information related to the exception.

- SPDX-Licenses:

A comma separated list of SPDX license identifiers for which the exception can be used.

- Usage-Guidance:

Freeform text for usage advice. The text must be followed by correct examples for the SPDX license identifiers as they should be put into source files according to the `License identifier syntax`_ guidelines.

- Exception-Text:

All text after this tag is treated as the original exception text

File format examples::

SPDX-Exception-Identifier: Linux-syscall-note

SPDX-URL: https://spdx.org/licenses/Linux-syscall-note.html

SPDX-Licenses: GPL-2.0, GPL-2.0+, GPL-1.0+, LGPL-2.0, LGPL-2.0+, LGPL-2.1+ LGPL-2.1+

Usage-Guidance:

This exception is used together with one of the above SPDX-Licenses to mark user-space API (uapi) header files so they can be included into non GPL compliant user-space application code.

To use this exception add it with the keyword WITH to one of the identifiers in the SPDX-Licenses tag:

SPDX-License-Identifier: <SPDX-License> WITH Linux-syscall-note

Exception-Text:

Full exception text

::

SPDX-Exception-Identifier: GCC-exception-2.0

SPDX-URL: https://spdx.org/licenses/GCC-exception-2.0.html

SPDX-Licenses: GPL-2.0, GPL-2.0+

Usage-Guidance:

The "GCC Runtime Library exception 2.0" is used together with one of the above SPDX-Licenses for code imported from the GCC runtime library.

To use this exception add it with the keyword WITH to one of the identifiers in the SPDX-Licenses tag:

SPDX-License-Identifier: <SPDX-License> WITH GCC-exception-2.0

Exception-Text:

Full exception text

All SPDX license identifiers and exceptions must have a corresponding file in the LICENSE subdirectories. This is required to allow tool verification (e.g. checkpatch.pl) and to have the licenses ready to read and extract right from the source, which is recommended by various FOSS organizations, e.g. the `FSFE REUSE initiative https://reuse.software/. Copyright (c) 2009-2013 QLogic Corporation QLogic Linux qlcnic NIC Driver

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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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return (strcmp(license, "GPL") == 0

|| strcmp(license, "GPL v2") == 0

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|| strcmp(license, "Dual BSD/GPL") == 0

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.. _fdl-section4:

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Contributors

.. note::

This documentation is outdated. There are several other DVB contributors that aren't listed below.

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- for the nxt2004 frontend driver

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(If you think you should be in this list, but you are not, drop a line to the DVB mailing list) :orphan:

.. note::

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Alessia Mantegazza a review:
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The common way of expressing the license of a source file is to add the matching boilerplate text into the top comment of the file. Due to formatting, typos etc. these "boilerplates" are hard to validate for tools which are used in the context of license compliance.

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The Linux kernel requires the precise SPDX identifier in all source files. The valid identifiers used in the kernel are explained in the section `License identifiers`_ and have been retrieved from the official SPDX license list at https://spdx.org/licenses/ along with the license texts.

License identifier syntax

1. Placement:

The SPDX license identifier in kernel files shall be added at the first possible line in a file which can contain a comment. For the majority or files this is the first line, except for scripts which require the '#!PATH_TO_INTERPRETER' in the first line. For those scripts the SPDX identifier goes into the second line.

2. Style:

The SPDX license identifier is added in form of a comment. The comment style depends on the file type::

```
C source: // SPDX-License-Identifier: <SPDX License Expression>
C header: /* SPDX-License-Identifier: <SPDX License Expression> */
ASM: /* SPDX-License-Identifier: <SPDX License Expression> */
scripts: # SPDX-License-Identifier: <SPDX License Expression>
.rst: .. SPDX-License-Identifier: <SPDX License Expression>
.dts{i}: // SPDX-License-Identifier: <SPDX License Expression>
```

If a specific tool cannot handle the standard comment style, then the appropriate comment mechanism which the tool accepts shall be used. This is the reason for having the "/* */" style comment in C header files. There was build breakage observed with generated .lds files where 'ld' failed to parse the C++ comment. This has been fixed by now, but there are still older assembler tools which cannot handle C++ style comments.

3. Syntax:

A <SPDX License Expression> is either an SPDX short form license identifier found on the SPDX License List, or the combination of two SPDX short form license identifiers separated by "WITH" when a license exception applies. When multiple licenses apply, an expression consists of keywords "AND", "OR" separating sub-expressions and surrounded by "(", ")".

License identifiers for licenses like [L]GPL with the 'or later' option are constructed by using a "+" for indicating the 'or later' option.::

```
// SPDX-License-Identifier: GPL-2.0+
// SPDX-License-Identifier: LGPL-2.1+
```

WITH should be used when there is a modifier to a license needed. For example, the linux kernel UAPI files use the expression::

```
// SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note // SPDX-License-Identifier: GPL-2.0+ WITH Linux-syscall-note
```

Other examples using WITH exceptions found in the kernel are::

```
// SPDX-License-Identifier: GPL-2.0 WITH mif-exception // SPDX-License-Identifier: GPL-2.0+ WITH GCC-exception-2.0
```

Exceptions can only be used with particular License identifiers. The valid License identifiers are listed in the tags of the exception text file. For details see the point `Exceptions`_ in the chapter `License identifiers`_.

OR should be used if the file is dual licensed and only one license is to be selected. For example, some dtsi files are available under dual licenses::

```
// SPDX-License-Identifier: GPL-2.0 OR BSD-3-Clause
```

Examples from the kernel for license expressions in dual licensed files::

```
// SPDX-License-Identifier: GPL-2.0 OR MIT
// SPDX-License-Identifier: GPL-2.0 OR BSD-2-Clause
// SPDX-License-Identifier: GPL-2.0 OR Apache-2.0
// SPDX-License-Identifier: GPL-2.0 OR MPL-1.1
// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) OR MIT
// SPDX-License-Identifier: GPL-1.0+ OR BSD-3-Clause OR OpenSSL
```

AND should be used if the file has multiple licenses whose terms all apply to use the file. For example, if code is inherited from another project and permission has been given to put it in the kernel, but the original license terms need to remain in effect::

```
// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) AND MIT
```

Another other example where both sets of license terms need to be adhered to is::

```
// SPDX-License-Identifier: GPL-1.0+ AND LGPL-2.1+
```

License identifiers

The licenses currently used, as well as the licenses for code added to the kernel, can be broken down into:

```
1. _`Preferred licenses`:
```

Whenever possible these licenses should be used as they are known to be fully compatible and widely used. These licenses are available from the directory::

LICENSES/preferred/

in the kernel source tree.

The files in this directory contain the full license text and 'Metatags'_. The file names are identical to the SPDX license identifier which shall be used for the license in source files.

Examples::

LICENSES/preferred/GPL-2.0

Contains the GPL version 2 license text and the required metatags::

LICENSES/preferred/MIT

Contains the MIT license text and the required metatags

_`Metatags`:

The following meta tags must be available in a license file:

- Valid-License-Identifier:

One or more lines which declare which License Identifiers are valid inside the project to reference this particular license text. Usually this is a single valid identifier, but e.g. for licenses with the 'or later' options two identifiers are valid.

- SPDX-URL:

The URL of the SPDX page which contains additional information related to the license.

- Usage-Guidance:

Freeform text for usage advice. The text must include correct examples for the SPDX license identifiers as they should be put into source files according to the `License identifier syntax`_ guidelines.

- License-Text:

All text after this tag is treated as the original license text

File format examples::

Valid-License-Identifier: GPL-2.0 Valid-License-Identifier: GPL-2.0+

 $SPDX-URL: \ https://spdx.org/licenses/GPL-2.0.html$

Usage-Guide:

To use this license in source code, put one of the following SPDX tag/value pairs into a comment according to the placement guidelines in the licensing rules documentation.

For 'GNU General Public License (GPL) version 2 only' use:

SPDX-License-Identifier: GPL-2.0

For 'GNU General Public License (GPL) version 2 or any later version' use:

SPDX-License-Identifier: GPL-2.0+

```
License-Text:
```

Full license text

::

SPDX-License-Identifier: MIT

SPDX-URL: https://spdx.org/licenses/MIT.html

Usage-Guide:

To use this license in source code, put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation.

SPDX-License-Identifier: MIT

License-Text:

Full license text

2. Not recommended licenses:

These licenses should only be used for existing code or for importing code from a different project. These licenses are available from the directory::

LICENSES/other/

in the kernel source tree.

The files in this directory contain the full license text and 'Metatags'. The file names are identical to the SPDX license identifier which shall be used for the license in source files.

Examples::

LICENSES/other/ISC

Contains the Internet Systems Consortium license text and the required metatags::

LICENSES/other/ZLib

Contains the ZLIB license text and the required metatags.

Metatags:

The metatag requirements for 'other' licenses are identical to the requirements of the `Preferred licenses`_.

File format example::

Valid-License-Identifier: ISC

SPDX-URL: https://spdx.org/licenses/ISC.html

Usage-Guide:

Usage of this license in the kernel for new code is discouraged and it should solely be used for importing code from an already existing project.

To use this license in source code, put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation.

SPDX-License-Identifier: ISC

License-Text:
Full license text

3. _`Exceptions`:

Some licenses can be amended with exceptions which grant certain rights which the original license does not. These exceptions are available from the directory::

LICENSES/exceptions/

in the kernel source tree. The files in this directory contain the full exception text and the required `Exception Metatags`_.

Examples::

LICENSES/exceptions/Linux-syscall-note

Contains the Linux syscall exception as documented in the COPYING file of the Linux kernel, which is used for UAPI header files. e.g. * SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note */::

LICENSES/exceptions/GCC-exception-2.0

Contains the GCC 'linking exception' which allows to link any binary independent of its license against the compiled version of a file marked with this exception. This is required for creating runnable executables from source code which is not compatible with the GPL.

_`Exception Metatags`:

The following meta tags must be available in an exception file:

- SPDX-Exception-Identifier:

One exception identifier which can be used with SPDX license identifiers.

- SPDX-URL:

The URL of the SPDX page which contains additional information related to the exception.

- SPDX-Licenses:

A comma separated list of SPDX license identifiers for which the exception can be used.

- Usage-Guidance:

Freeform text for usage advice. The text must be followed by correct examples for the SPDX license identifiers as they should be put into source files according to the `License identifier syntax`_ guidelines.

- Exception-Text:

All text after this tag is treated as the original exception text

File format examples::

```
SPDX-Exception-Identifier: Linux-syscall-note
```

SPDX-URL: https://spdx.org/licenses/Linux-syscall-note.html

SPDX-Licenses: GPL-2.0, GPL-2.0+, GPL-1.0+, LGPL-2.0, LGPL-2.0+, LGPL-2.1, LGPL-2.1+

Usage-Guidance:

This exception is used together with one of the above SPDX-Licenses to mark user-space API (uapi) header files so they can be included into non GPL compliant user-space application code.

To use this exception add it with the keyword WITH to one of the identifiers in the SPDX-Licenses tag:

SPDX-License-Identifier: <SPDX-License> WITH Linux-syscall-note

Exception-Text:

Full exception text

::

SPDX-Exception-Identifier: GCC-exception-2.0

SPDX-URL: https://spdx.org/licenses/GCC-exception-2.0.html

SPDX-Licenses: GPL-2.0, GPL-2.0+

Usage-Guidance:

The "GCC Runtime Library exception 2.0" is used together with one of the above SPDX-Licenses for code imported from the GCC runtime library.

To use this exception add it with the keyword WITH to one of the

identifiers in the SPDX-Licenses tag:

SPDX-License-Identifier: <SPDX-License> WITH GCC-exception-2.0

Exception-Text:

Full exception text

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Version 2.1, February 1999

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1.41 module-init-tools 3.2

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1.42 mtd-utils 1.2.0

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1.43 ncurses 5.9

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1.44 net-tools 1.60

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1.47 packaging 16.8

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1.48 pciutils 3.0.0

1.48.1 Available under license:

```
* The PCI Library -- Types and Format Strings
* Copyright (c) 1997--2008 Martin Mares <mj@ucw.cz>
* Can be freely distributed and used under the terms of the GNU GPL.
#include <sys/types.h>
#ifndef PCI_HAVE_Uxx_TYPES
#ifdef PCI OS WINDOWS
#include <windef.h>
typedef BYTE u8;
typedef WORD u16;
typedef DWORD u32;
#elif defined(PCI_HAVE_STDINT_H) || (defined(__STDC_VERSION__) && __STDC_VERSION__ >=
199901L)
#include <stdint.h>
typedef uint8_t u8;
typedef uint16_t u16;
typedef uint32_t u32;
#else
typedef u_int8_t u8;
typedef u_int16_t u16;
typedef u_int32_t u32;
#endif
#ifdef PCI_HAVE_64BIT_ADDRESS
#include inits.h>
#if ULONG_MAX > 0xffffffff
typedef unsigned long u64;
#define PCI_U64_FMT "1"
#else
typedef unsigned long long u64;
#define PCI_U64_FMT "ll"
#endif
#endif
#endif /* PCI_HAVE_Uxx_TYPES */
#ifdef PCI_HAVE_64BIT_ADDRESS
```

```
typedef u64 pciaddr_t;
#define PCIADDR_T_FMT "%08" PCI_U64_FMT "x"
#define PCIADDR_PORT_FMT "%04" PCI_U64_FMT "x"
typedef u32 pciaddr_t;
#define PCIADDR_T_FMT "%08x"
#define PCIADDR PORT FMT "%04x"
#endif
#ifdef PCI ARCH SPARC64
/* On sparc64 Linux the kernel reports remapped port addresses and IRQ numbers */
#undef PCIADDR_PORT_FMT
#define PCIADDR PORT FMT PCIADDR T FMT
#define PCIIRQ_FMT "%08x"
#else
#define PCIIRQ_FMT "%d"
#endif
#ifdef __GNUC__
#define PCI_PRINTF(x,y) __attribute__((format(printf, x, y)))
#else
#define PCI_PRINTF(x,y)
#endif
/* Getopt for GNU.
 NOTE: getopt is now part of the C library, so if you don't know what
 "Keep this file name-space clean" means, talk to roland@gnu.ai.mit.edu
 before changing it!
 Copyright (C) 1987, 88, 89, 90, 91, 92, 1993
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 along with this program; if not, write to the Free Software
 Foundation, 675 Mass Ave, Cambridge, MA 02139, USA. */
#ifdef HAVE_CONFIG_H
#include "config.h"
#endif
```

```
#ifndef STDC
# ifndef const
# define const
# endif
#endif
/* This tells Alpha OSF/1 not to define a getopt prototype in <stdio.h>. */
#ifndef _NO_PROTO
#define NO PROTO
#endif
#include <stdio.h>
#include <string.h>
/* Comment out all this code if we are using the GNU C Library, and are not
 actually compiling the library itself. This code is part of the GNU C
 Library, but also included in many other GNU distributions. Compiling
 and linking in this code is a waste when using the GNU C library
 (especially if it is a shared library). Rather than having every GNU
 program understand `configure --with-gnu-libc' and omit the object files,
 it is simpler to just do this in the source for each such file. */
#if defined ( LIBC) | !defined ( GNU LIBRARY )
/* This needs to come after some library #include
 to get __GNU_LIBRARY__ defined. */
#ifdef GNU LIBRARY
/* Don't include stdlib.h for non-GNU C libraries because some of them
 contain conflicting prototypes for getopt. */
#include <stdlib.h>
#endif /* GNU C library. */
/* If GETOPT COMPAT is defined, `+' as well as `--' can introduce a
 long-named option. Because this is not POSIX.2 compliant, it is
 being phased out. */
/* #define GETOPT_COMPAT */
/* This version of `getopt' appears to the caller like standard Unix `getopt'
 but it behaves differently for the user, since it allows the user
 to intersperse the options with the other arguments.
 As 'getopt' works, it permutes the elements of ARGV so that,
 when it is done, all the options precede everything else. Thus
 all application programs are extended to handle flexible argument order.
```

Setting the environment variable POSIXLY_CORRECT disables permutation.

Then the behavior is completely standard.

```
GNU application programs can use a third alternative mode in which
 they can distinguish the relative order of options and other arguments. */
#include "getopt.h"
/* For communication from `getopt' to the caller.
 When 'getopt' finds an option that takes an argument,
 the argument value is returned here.
 Also, when 'ordering' is RETURN_IN_ORDER,
 each non-option ARGV-element is returned here. */
char *optarg = 0;
/* Index in ARGV of the next element to be scanned.
 This is used for communication to and from the caller
 and for communication between successive calls to `getopt'.
 On entry to `getopt', zero means this is the first call; initialize.
 When 'getopt' returns EOF, this is the index of the first of the
 non-option elements that the caller should itself scan.
 Otherwise, 'optind' communicates from one call to the next
 how much of ARGV has been scanned so far. */
/* XXX 1003.2 says this must be 1 before any call. */
int optind = 0;
/* The next char to be scanned in the option-element
 in which the last option character we returned was found.
 This allows us to pick up the scan where we left off.
 If this is zero, or a null string, it means resume the scan
 by advancing to the next ARGV-element. */
static char *nextchar;
/* Callers store zero here to inhibit the error message
 for unrecognized options. */
int opterr = 1;
/* Set to an option character which was unrecognized.
```

This must be initialized on some systems to avoid linking in the

system's own getopt implementation. */

```
#define BAD_OPTION '\0' int optopt = BAD_OPTION;
```

/* Describe how to deal with options that follow non-option ARGV-elements.

If the caller did not specify anything, the default is REQUIRE_ORDER if the environment variable POSIXLY_CORRECT is defined, PERMUTE otherwise.

REQUIRE_ORDER means don't recognize them as options; stop option processing when the first non-option is seen. This is what Unix does.

This mode of operation is selected by either setting the environment variable POSIXLY_CORRECT, or using `+' as the first character of the list of option characters.

PERMUTE is the default. We permute the contents of ARGV as we scan, so that eventually all the non-options are at the end. This allows options to be given in any order, even with programs that were not written to expect this.

RETURN_IN_ORDER is an option available to programs that were written to expect options and other ARGV-elements in any order and that care about the ordering of the two. We describe each non-option ARGV-element as if it were the argument of an option with character code 1. Using `-' as the first character of the list of option characters selects this mode of operation.

The special argument `--' forces an end of option-scanning regardless of the value of `ordering'. In the case of RETURN_IN_ORDER, only `--' can cause `getopt' to return EOF with `optind' != ARGC. */

```
static enum {

REQUIRE_ORDER, PERMUTE, RETURN_IN_ORDER
} ordering;

#ifdef __GNU_LIBRARY__

/* We want to avoid inclusion of string.h with non-GNU libraries
because there are many ways it can cause trouble.

On some systems, it contains special magic macros that don't work
in GCC. */

#include <string.h>
#define my_index strchr
#define my_strlen strlen
#else

/* Avoid depending on library functions or files
```

whose names are inconsistent. */

```
#if __STDC__ || defined(PROTO)
extern char *getenv(const char *name);
extern int strcmp(const char *s1, const char *s2);
extern int strncmp(const char *s1, const char *s2, int n);
static int my strlen(const char *s);
static char *my_index(const char *str, int chr);
#else
extern char *getenv();
#endif
static int my_strlen(const char *str)
int n = 0;
while (*str++)
 n++;
return n;
}
static char *my_index(const char *str, int chr)
while (*str) {
 if (*str == chr)
 return (char *) str;
 str++;
return 0;
#endif /* GNU C library. */
/* Handle permutation of arguments. */
/* Describe the part of ARGV that contains non-options that have
 been skipped. `first_nonopt' is the index in ARGV of the first of them;
 `last_nonopt' is the index after the last of them. */
static int first_nonopt;
static int last_nonopt;
/* Exchange two adjacent subsequences of ARGV.
 One subsequence is elements [first_nonopt,last_nonopt)
 which contains all the non-options that have been skipped so far.
 The other is elements [last_nonopt,optind), which contains all
 the options processed since those non-options were skipped.
 `first_nonopt' and `last_nonopt' are relocated so that they describe
```

the new indices of the non-options in ARGV after they are moved.

To perform the swap, we first reverse the order of all elements. So all options now come before all non options, but they are in the wrong order. So we put back the options and non options in original order by reversing them again. For example:

```
original input:
                      abc-x-y
   reverse all:
                    -y -x c b a
   reverse options: -x -y c b a
   reverse non options: -x -y a b c
#if __STDC__ || defined(PROTO)
static void exchange(char **argv);
#endif
static void exchange(char **argv)
char *temp, **first, **last;
/* Reverse all the elements [first_nonopt, optind) */
first = &argv[first_nonopt];
last = &argv[optind - 1];
while (first < last) {
 temp = *first;
 *first = *last;
 *last = temp;
 first++;
 last--;
/* Put back the options in order */
first = &argv[first_nonopt];
first_nonopt += (optind - last_nonopt);
last = &argv[first_nonopt - 1];
while (first < last) {
 temp = *first;
 *first = *last:
 *last = temp;
 first++;
 last--;
}
/* Put back the non options in order */
first = &argv[first_nonopt];
last_nonopt = optind;
last = &argv[last_nonopt - 1];
while (first < last) {
 temp = *first;
```

```
*first = *last;

*last = temp;

first++;

last--;

}
```

/* Scan elements of ARGV (whose length is ARGC) for option characters given in OPTSTRING.

If an element of ARGV starts with '-', and is not exactly "-" or "--", then it is an option element. The characters of this element (aside from the initial '-') are option characters. If `getopt' is called repeatedly, it returns successively each of the option characters from each of the option elements.

If `getopt' finds another option character, it returns that character, updating `optind' and `nextchar' so that the next call to `getopt' can resume the scan with the following option character or ARGV-element.

If there are no more option characters, `getopt' returns `EOF'. Then `optind' is the index in ARGV of the first ARGV-element that is not an option. (The ARGV-elements have been permuted so that those that are not options now come last.)

OPTSTRING is a string containing the legitimate option characters. If an option character is seen that is not listed in OPTSTRING, return BAD_OPTION after printing an error message. If you set `opterr' to zero, the error message is suppressed but we still return BAD_OPTION.

If a char in OPTSTRING is followed by a colon, that means it wants an arg, so the following text in the same ARGV-element, or the text of the following ARGV-element, is returned in `optarg'. Two colons mean an option that wants an optional arg; if there is text in the current ARGV-element, it is returned in `optarg', otherwise `optarg' is set to zero.

If OPTSTRING starts with `-' or `+', it requests different methods of handling the non-option ARGV-elements.

See the comments about RETURN_IN_ORDER and REQUIRE_ORDER, above.

Long-named options begin with `--' instead of `-'.

Their names may be abbreviated as long as the abbreviation is unique or is an exact match for some defined option. If they have an argument, it follows the option name in the same ARGV-element, separated from the option name by a `=', or else the in next ARGV-element.

When `getopt' finds a long-named option, it returns 0 if that option's `flag' field is nonzero, the value of the option's `val' field if the `flag' field is zero.

The elements of ARGV aren't really const, because we permute them. But we pretend they're const in the prototype to be compatible with other systems.

LONGOPTS is a vector of `struct option' terminated by an element containing a name which is zero.

LONGIND returns the index in LONGOPT of the long-named option found. It is only valid when a long-named option has been found by the most recent call.

```
If LONG_ONLY is nonzero, '-' as well as '--' can introduce
 long-named options. */
int _getopt_internal(int argc, char *const *argv, const char *optstring,
    const struct option *longopts, int *longind, int long_only)
int option_index;
optarg = 0;
/* Initialize the internal data when the first call is made.
  Start processing options with ARGV-element 1 (since ARGV-element 0
  is the program name); the sequence of previously skipped
  non-option ARGV-elements is empty. */
if (optind == 0) {
 first_nonopt = last_nonopt = optind = 1;
 nextchar = NULL;
 /* Determine how to handle the ordering of options and nonoptions. */
 if (\text{optstring}[0] == '-') \{
 ordering = RETURN_IN_ORDER;
 ++optstring;
 \} else if (optstring[0] == '+') {
 ordering = REQUIRE_ORDER;
 ++optstring;
 } else if (getenv("POSIXLY_CORRECT") != NULL)
 ordering = REQUIRE_ORDER;
 else
 ordering = PERMUTE;
if (nextchar == NULL || *nextchar == '\0') {
```

if (ordering == PERMUTE) {

```
/* If we have just processed some options following some non-options,
   exchange them so that the options come first. */
 if (first_nonopt != last_nonopt && last_nonopt != optind)
  exchange((char **) argv);
 else if (last_nonopt != optind)
  first nonopt = optind;
 /* Now skip any additional non-options
   and extend the range of non-options previously skipped. */
 while (optind < argc && (argv[optind][0] != '-' \parallel argv[optind][1] == '\0')
#ifdef GETOPT COMPAT
     && (longopts == NULL
    || argv[optind][0] != '+' || argv[optind][1] == '\0')
#endif /* GETOPT COMPAT */
    )
  optind++;
 last_nonopt = optind;
 }
 /* Special ARGV-element `--' means premature end of options.
  Skip it like a null option,
  then exchange with previous non-options as if it were an option,
  then skip everything else like a non-option. */
 if (optind != argc && !strcmp(argv[optind], "--")) {
 optind++;
 if (first_nonopt != last_nonopt && last_nonopt != optind)
  exchange((char **) argv);
 else if (first_nonopt == last_nonopt)
  first_nonopt = optind;
 last_nonopt = argc;
 optind = argc;
 }
 /* If we have done all the ARGV-elements, stop the scan
  and back over any non-options that we skipped and permuted. */
 if (optind == argc) {
 /* Set the next-arg-index to point at the non-options
   that we previously skipped, so the caller will digest them. */
 if (first_nonopt != last_nonopt)
  optind = first_nonopt;
 return EOF;
 }
```

```
/* If we have come to a non-option and did not permute it,
   either stop the scan or describe it to the caller and pass it by. */
 if ((argv[optind][0] != '-' || argv[optind][1] == '\0')
#ifdef GETOPT_COMPAT
   && (longopts == NULL \parallel argv[optind][0] != '+' \parallel argv[optind][1] == '\0')
#endif /* GETOPT_COMPAT */
   ) {
 if (ordering == REQUIRE ORDER)
  return EOF;
 optarg = argv[optind++];
 return 1:
 }
 /* We have found another option-ARGV-element.
   Start decoding its characters. */
 nextchar = (argv[optind] + 1 + (longopts != NULL && argv[optind][1] == '-'));
}
if (longopts != NULL && ((argv[optind][0] == '-' && (argv[optind][1] == '-' \parallel long_only))
#ifdef GETOPT_COMPAT
   \parallel argv[optind][0] == '+'
#endif /* GETOPT_COMPAT */
   )) {
 const struct option *p;
 char *s = nextchar;
 int exact = 0;
 int ambig = 0;
 const struct option *pfound = NULL;
 int indfound = 0;
 while (*s && *s != '=')
 s++;
 /* Test all options for either exact match or abbreviated matches. */
 for (p = longopts, option_index = 0; p->name; p++, option_index++)
 if (!strncmp(p->name, nextchar, s - nextchar)) {
  if (s - nextchar == my_strlen(p->name)) {
  /* Exact match found. */
   pfound = p;
   indfound = option_index;
   exact = 1;
   break;
  } else if (pfound == NULL) {
   /* First nonexact match found. */
   pfound = p;
```

```
indfound = option_index;
 } else
 /* Second nonexact match found. */
 ambig = 1;
}
if (ambig && !exact) {
if (opterr)
 fprintf(stderr, "%s: option `%s' is ambiguous\n",
 argv[0], argv[optind]);
nextchar += my_strlen(nextchar);
optind++;
return BAD_OPTION;
}
if (pfound != NULL) {
option_index = indfound;
optind++;
if (*s) {
/* Don't test has_arg with >, because some C compilers don't
  allow it to be used on enums. */
 if (pfound->has_arg)
 optarg = s + 1;
 else {
 if (opterr) {
  if (argv[optind - 1][1] == '-')
  /* --option */
  fprintf(stderr,
   "%s: option `--%s' doesn't allow an argument\n",
   argv[0], pfound->name);
  else
  /* +option or -option */
  fprintf(stderr,
   "%s: option `%c%s' doesn't allow an argument\n",
   argv[0], argv[optind - 1][0],
   pfound->name);
 }
 nextchar += my_strlen(nextchar);
 return BAD_OPTION;
} else if (pfound->has_arg == 1) {
 if (optind < argc)
 optarg = argv[optind++];
 else {
 if (opterr)
  fprintf(stderr,
  "%s: option `%s' requires an argument\n",
  argv[0], argv[optind - 1]);
```

```
nextchar += my_strlen(nextchar);
  return optstring[0] == ':'?':': BAD_OPTION;
  }
 nextchar += my_strlen(nextchar);
 if (longind != NULL)
  *longind = option_index;
 if (pfound->flag) {
  *(pfound->flag) = pfound->val;
  return 0:
 return pfound->val;
 }
 /* Can't find it as a long option. If this is not getopt_long_only,
  or the option starts with '--' or is not a valid short
  option, then it's an error.
  Otherwise interpret it as a short option. */
 if (!long_only || argv[optind][1] == '-'
#ifdef GETOPT_COMPAT
   || argv[optind][0] == '+'
#endif /* GETOPT_COMPAT */
   || my_index(optstring, *nextchar) == NULL) {
 if (opterr) {
  if (argv[optind][1] == '-')
  /* --option */
  fprintf(stderr, "%s: unrecognized option `--%s\n",
   argv[0], nextchar);
  else
  /* +option or -option */
  fprintf(stderr, "%s: unrecognized option `%c%s\n",
   argv[0], argv[optind][0], nextchar);
 nextchar = (char *) "";
 optind++;
 return BAD_OPTION;
}
/* Look at and handle the next option-character. */
 char c = *nextchar++;
 char *temp = my_index(optstring, c);
 /* Increment `optind' when we start to process its last character. */
 if (*nextchar == \0')
 ++optind;
```

```
if (temp == NULL \parallel c == ':') 
 if (opterr) {
#if 0
  if (c < 040 \parallel c >= 0177)
   fprintf(stderr,
   "%s: unrecognized option, character code 0%o\n",
   argv[0], c);
  else
   fprintf(stderr, "%s: unrecognized option `-%c\\n", argv[0],
   c):
#else
  /* 1003.2 specifies the format of this message. */
  fprintf(stderr, "%s: illegal option -- %c\n", argv[0], c);
#endif
 optopt = c;
 return BAD_OPTION;
 if (temp[1] == ':') {
 if (temp[2] == ':') {
  /* This is an option that accepts an argument optionally. */
  if (*nextchar != '\0') {
  optarg = nextchar;
   optind++;
  } else
   optarg = 0;
  nextchar = NULL;
  } else {
  /* This is an option that requires an argument. */
  if (*nextchar != '\0') {
   optarg = nextchar;
  /* If we end this ARGV-element by taking the rest as an arg,
     we must advance to the next element now. */
   optind++;
  } else if (optind == argc) {
   if (opterr) {
#if 0
   fprintf(stderr,
    "%s: option `-%c' requires an argument\n",
    argv[0], c);
#else
   /* 1003.2 specifies the format of this message. */
   fprintf(stderr,
    "%s: option requires an argument -- %c\n",
    argv[0], c);
#endif
   }
   optopt = c;
```

```
if (optstring[0] == ':')
   c = ':';
   else
   c = BAD_OPTION;
  } else
   /* We already incremented `optind' once;
     increment it again when taking next ARGV-elt as argument. */
   optarg = argv[optind++];
  nextchar = NULL;
  }
 }
 return c;
}
}
int getopt(int argc, char *const *argv, const char *optstring)
return _getopt_internal(argc, argv, optstring, (const struct option *) 0, (int *) 0, 0);
}
int getopt_long(int argc, char *const *argv, const char *options, const struct option long_options, int *opt_index)
return _getopt_internal(argc, argv, options, long_options, opt_index, 0);
#endif /* _LIBC or not __GNU_LIBRARY__. */
#ifdef TEST
/* Compile with -DTEST to make an executable for use in testing
 the above definition of `getopt'. */
int main(int argc, char **argv)
{
int c;
int digit_optind = 0;
while (1) {
 int this_option_optind = optind ? optind : 1;
 c = getopt(argc, argv, "abc:d:0123456789");
 if (c == EOF)
 break;
 switch (c) {
 case '0':
 case '1':
 case '2':
```

```
case '3':
 case '4':
 case '5':
 case '6':
 case '7':
 case '8':
 case '9':
 if (digit_optind != 0 && digit_optind != this_option_optind)
  printf("digits occur in two different argv-elements.\n");
 digit_optind = this_option_optind;
 printf("option %c\n", c);
 break;
 case 'a':
 printf("option a\n");
 break;
 case 'b':
 printf("option b \ n");
 break;
 case 'c':
 printf("option c with value `%s\n", optarg);
 case BAD_OPTION:
 break;
 default:
 printf("?? getopt returned character code 0%o ??\n", c);
}
if (optind < argc) {
 printf("non-option ARGV-elements: ");
 while (optind < argc)
 printf("%s ", argv[optind++]);
 printf("\n");
exit(0);
#endif /* TEST */
```

1.49 perl 5.22.1

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PR: r0 PV: 5.22.1

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Version 1, February 1989

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<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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

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

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

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

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1.51 ProgressBar.js 1.0.1

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1.52 protobuf 2.6.1:1

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* Small patch to fix Python CallMethod().

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* Small optimizations to Python serialization.

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- * VI syntax highlighting tweaks.
- * Fix compiler to not make output executable.

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* Heuristic detection of sub-messages when printing unknown fields in text format.

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* Added @Override annotation to generated Java code where appropriate.

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* Tru64 support.

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* Solaris 10 + Sun Studio fixes.

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* Slicing support for repeated scalar fields for the Python API.

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- * MS Visual Studio error format option.
- * Detect unordered_map in stl_hash.m4.

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* gzip/zlib I/O support.

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- * Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
- * Added generation of field number constants.

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* Fixed initialization ordering problem in logging code.

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* Small patch improving performance of in Python serialization.

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* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

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* HPUX support.

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- * Detect whether zlib is new enough in configure script.
- * Fixes for Solaris 10 32/64-bit confusion.

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- * Optimize Java serialization code when writing a small message to a stream.
- * Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- * Clean up some Java warnings.
- * Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski < m.kucharski@gmail.com>

* Added CodedInputStream.getTotalBytesRead().

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* Fixed m4/acx pthread.m4 problem for some Linux distributions.

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- * Fixed detection of sched_yield on Solaris.
- * Added atomicops for Solaris

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1.54 protobuf-to-dict 0.1.0

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Home-page: https://github.com/benhodgson/protobuf-to-dict

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1.55 psutil 4.3.0

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1.56 py-setuptools 22.0.5:0

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1.57 pyasn1 0.2.3

1.58 pycparser 2.17

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1.59 python 2.7.14 :r0

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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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	from			compa	atible? (1)
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1.3 thru 1.	5.2 1.2	1995-	-1999	CNR	I yes
1.6	1.5.2	2000	CNI	RI	no
2.0	1.6	2000	BeO	pen.co	m no
1.6.1	1.6	2001	CNI	RI	yes (2)
2.1	2.0+1.6.	1 2001	PS	SF	no

2.0.1	2.0+1.6	5.1 2001	PSF	yes	
2.1.1	2.1+2.0	.1 2001	PSF	yes	
2.1.2	2.1.1	2002	PSF	yes	
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1.6	0 CNRI	no	I
2.0 1.6 2000) BeOpen.o	com no	
1.6.1 1.6 200	1 CNRI	no	
2.1 2.0+1.6.1 20	001 PSF	no	I
2.0.1 2.0+1.6.1 2	2001 PSF	yes	I
2.1.1 2.1+2.0.1 2			

2.1.2	2.1.1	2002	PSF	yes		
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A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

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

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

The :mod:`xmlrpc.client` module contains the following notice::

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Select kqueue

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SipHash24

The file: 'Python/pyhash.c' contains Marek Majkowski' implementation of Dan Bernstein's SipHash24 algorithm. The contains the following note::

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Original location:

https://github.com/majek/csiphash/

Solution inspired by code from:

Samuel Neves (supercop/crypto_auth/siphash24/little) djb (supercop/crypto_auth/siphash24/little2) Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa

The file: 'Python/dtoa.c', which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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cfuhash

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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)

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

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

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

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Sockets

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

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MD5 message digest algorithm

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L. Peter Deutsch ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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1.60 python pyparsing 2.2.0

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1.61 python-cffi 1.8.3

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1.62 python-dpkt 1.8.6.2

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1.63 python-enum34 1.1.6

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1.64 python-glibc 0.6.1

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1.65 python-posix-ipc 1.0.0

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1.66 python-pyasn1-modules 0.0.8

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1.67 python-pyopenssl 16.1.0

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1.68 python-six 1.10.0

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1.69 python2-redis 2.10.3:1.0

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1.70 Pyzmq 14.7.0

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1.74 sortedcontainers 1.4.4

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1.75 tcpdump 4.7.4 :1ubuntu1

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1.76 tftpy 0.6.2

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1.78 watchdog 5.13 :r0.0

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1.79 wpa_supplicant 2.6

1.80 xmlrpc-c 1.33.17

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1.81 zlib 1.2.3

1.81.1 Available under license:

License attached

/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.3, July 18th, 2005

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

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