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                                        Theodore Ts'o
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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

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 of 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.
|
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:
C header: /* SPDX-License-Identifier: */ ASM: /* SPDX-License-Identifier: */ scripts: # SPDX-License-Identifier:
.rst: .. SPDX-License-Identifier:
.dts{i}: // SPDX-License-Identifier:
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 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. Deprecated 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/deprecated/ 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/deprecated/ISC
Contains the Internet Systems Consortium license text and the required metatags::
LICENSES/deprecated/GPL-1.0
Contains the GPL version 1 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. Dual Licensing Only
These licenses should only be used to dual license code with another license in addition to a preferred license. These licenses are available from the directory:: LICENSES/dual/ 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/dual/MPL-1.1
Contains the Mozilla Public License version 1.1 license text and the required metatags::
LICENSES/dual/Apache-2.0
Contains the Apache License version 2.0 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: MPL-1.1
SPDX-URL: https://spdx.org/licenses/MPL-1.1.html
Usage-Guide:
Do NOT use. The MPL-1.1 is not GPL2 compatible. It may only be used for dual-licensed files where the other license is GPL2 compatible. If you end up using this it MUST be used together with a GPL2 compatible license using "OR".
To use the Mozilla Public License version 1.1 put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation: SPDX-License-Identifier: MPL-1.1
License-Text:
Full license text |
4. _`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:  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:  WITH GCC-exception-2.0
Exception-Text:
Full exception text
All SPDX license identifiers and exceptions must have a corresponding file in the LICENSES 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 `_.
_`MODULE_LICENSE`
-----------------
Loadable kernel modules also require a MODULE_LICENSE() tag. This tag is neither a replacement for proper source code
license information (SPDX-License-Identifier) nor in any way relevant for expressing or determining the exact license
under which the source code of the module is provided.
The sole purpose of this tag is to provide sufficient information whether the module is free software or proprietary for
the kernel module loader and for user space tools.
The valid license strings for MODULE_LICENSE() are:
============================= ============================================
"GPL" Module is licensed under GPL version 2. This does not express any distinction between GPL-2.0-only or GPL-2.0-or-
later. The exact license information can only be determined via the license information in the corresponding source
files.
"GPL v2" Same as "GPL". It exists for historic reasons.
"GPL and additional rights" Historical variant of expressing that the
module source is dual licensed under a GPL v2 variant and MIT license. Please do not use in new code.
"Dual MIT/GPL" The correct way of expressing that the module is dual licensed under a GPL v2 variant or MIT license
choice.
"Dual BSD/GPL" The module is dual licensed under a GPL v2 variant or BSD license choice. The exact variant of the BSD
license can only be determined via the license information in the corresponding source files.
"Dual MPL/GPL" The module is dual licensed under a GPL v2 variant or Mozilla Public License (MPL) choice. The exact
variant of the MPL license can only be determined via the license information in the corresponding source files.
"Proprietary" The module is under a proprietary license. This string is solely for proprietary third party modules and
cannot be used for modules which have their source code in the kernel tree. Modules tagged that way are tainting the
kernel with the 'P' flag when loaded and the kernel module loader refuses to link such modules against symbols which are
exported with EXPORT_SYMBOL_GPL().
============================= ============================================
```

lrzsz 0.12.20

GPL-2.0-or-later

Home page: http://www.ohse.de/uwe/software/lrzsz.html

Download: http://www.ohse.de/uwe/releases/lrzsz-0.12.20.tar.gz

A copy of the GPL-2.0-or-later license is appended to the end of this document for reference.

lsof 4.94.0

Spencer-94

Home page: http://people.freebsd.org/~abe/

Download: https://github.com/lsof-org/lsof;branch=master;protocol=https

A copy of the Spencer-94 license is appended to the end of this document for reference.

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```
Lsof has no license.  Its use and distribution are subject to these
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year in or format of the notice may vary slightly.)

    /*
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     * Indiana 47907.  All rights reserved.
     *
     * Written by Victor A. Abell
     *
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     * Telephone and Telegraph Company or the Regents of the
     * University of California.
     *
     * Permission is granted to anyone to use this software for
     * any purpose on any computer system, and to alter it and
     * redistribute it freely, subject to the following
     * restrictions:
     *
     * 1. Neither the authors nor Purdue University are responsible
     *    for any consequences of the use of this software.
     *
     * 2. The origin of this software must not be misrepresented,
     *    either by explicit claim or by omission.  Credit to the
     *    authors and Purdue University must appear in documentation
     *    and sources.
     *
     * 3. Altered versions must be plainly marked as such, and must
     *    not be misrepresented as being the original software.
     *
     * 4. This notice may not be removed or altered.
     */


Bug Reports
```

m4_1_4_19

GPL-3.0-only

Home page: hhttps://www.gnu.org/software/m4/m4.html

Download: https://ftp.gnu.org/gnu/m4/m4-1.4.19.tar.gz

A copy of the GPL-3.0-only license is appended to the end of this document for reference.

memtester 4.5.1

GPL-2.0-only

Home page: http://pyropus.ca/software/memtester/

Download: http://pyropus.ca/software/memtester/old-versions/memtester-4.5.1.tar.gz

A copy of the GPL-2.0-only license is appended to the end of this document for reference.

mmc-utils 0.1

GPL-2.0-only

Home page: http://git.kernel.org/cgit/linux/kernel/git/cjb/mmc-utils.git/

Download: https://git.kernel.org/pub/scm/linux/kernel/git/cjb/mmc-utils.git;branch=master

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```
/*
 * This program is free software; you can redistribute it and/or
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 * License v2 as published by the Free Software Foundation.
 *
 * This program is distributed in the hope that it will be useful,
 * but WITHOUT ANY WARRANTY; without even the implied warranty of
 * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
 * General Public License for more details.
 *
 * You should have received a copy of the GNU General Public
 * License along with this program; if not, write to the
 * Free Software Foundation, Inc., 59 Temple Place - Suite 330,
 * Boston, MA 021110-1307, USA.
 *
 * Modified to add field firmware update support,
 * those modifications are Copyright (c) 2016 SanDisk Corp.
 *
 * (This code is based on btrfs-progs/btrfs.c.)
 */
```

mtd-utils 2.1.4

GPL-2.0-or-later

Home page: http://www.linux-mtd.infradead.org/

Download: https://git.infradead.org/mtd-utils.git;branch=master

A copy of the GPL-2.0-or-later license is appended to the end of this document for reference.

nano 6.2

GPL-3.0-only

Home page: http://www.nano-editor.org/

Download: https://nano-editor.org/dist/v6/nano-6.2.tar.xz

A copy of the GPL-3.0-only license is appended to the end of this document for reference.

ncurses 6.3+20220423

MIT

Home page: http://www.gnu.org/software/ncurses/ncurses.html

Download: https://salsa.debian.org/debian/ncurses.git;protocol=https;branch=master

A copy of the MIT license is appended to the end of this document for reference.

net-snmp 5.9.3

BSD-3-Clause & MIT

Home page: http://www.net-snmp.org/

Download: https://downloads.sourceforge.net/net-snmp/net-snmp-5.9.3.tar.gz

A copy of the BSD-3-Clause & MIT licenses are appended to the end of this document for reference.

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```
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```

netbase 6.3

GPL-2.0-only

Home page: http://packages.debian.org/netbase

Download: http://ftp.debian.org/debian/pool/main/n/netbase/netbase_6.3.tar.xz

A copy of the GPL-2.0-only license is appended to the end of this document for reference.

License / copyright notice:


```
This package was created by Peter Tobias tobias@et-inf.fho-emden.de on
Wed, 24 Aug 1994 21:33:28 +0200 and maintained by Anthony Towns
<ajt@debian.org> until 2001.
It is currently maintained by Marco d'Itri <md@linux.it>.

Copyright 1994-2010 Peter Tobias, Anthony Towns and Marco d'Itri

The programs in this package are distributed under the terms of the GNU
General Public License, version 2 as distributed by the Free Software
Foundation. On Debian systems, a copy of this license may be found in
/usr/share/common-licenses/GPL-2.
```

openssh 9.9p2

BSD-2-Clause & BSD-3-Clause & ISC & MIT

Home page: http://www.openssh.com/

Download: https://ftp.openbsd.org/pub/OpenBSD/OpenSSH/portable/openssh-9.9p2.tar.gz

A copy of the BSD-2-Clause & BSD-3-Clause & ISC & MIT licenses are appended to the end of this document for reference.

License / copyright notice:

```
This file is part of the OpenSSH software.

The licences which components of this software fall under are as
follows.  First, we will summarize and say that all components
are under a BSD licence, or a licence more free than that.

OpenSSH contains no GPL code.

1)
     * Copyright (c) 1995 Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland
     *                    All rights reserved
     *
     * As far as I am concerned, the code I have written for this software
     * can be used freely for any purpose.  Any derived versions of this
     * software must be clearly marked as such, and if the derived work is
     * incompatible with the protocol description in the RFC file, it must be
     * called by a name other than "ssh" or "Secure Shell".

    [Tatu continues]
     *  However, I am not implying to give any licenses to any patents or
     * copyrights held by third parties, and the software includes parts that
     * are not under my direct control.  As far as I know, all included
     * source code is used in accordance with the relevant license agreements
     * and can be used freely for any purpose (the GNU license being the most
     * restrictive); see below for details.

    [However, none of that term is relevant at this point in time.  All of
    these restrictively licenced software components which he talks about
    have been removed from OpenSSH, i.e.,

     - RSA is no longer included, found in the OpenSSL library
     - IDEA is no longer included, its use is deprecated
     - DES is now external, in the OpenSSL library
     - GMP is no longer used, and instead we call BN code from OpenSSL
     - Zlib is now external, in a library
     - The make-ssh-known-hosts script is no longer included
     - TSS has been removed
     - MD5 is now external, in the OpenSSL library
     - RC4 support has been replaced with ARC4 support from OpenSSL
     - Blowfish is now external, in the OpenSSL library

    [The licence continues]

    Note that any information and cryptographic algorithms used in this
    software are publicly available on the Internet and at any major
    bookstore, scientific library, and patent office worldwide.  More
    information can be found e.g. at "http://www.cs.hut.fi/crypto".

    The legal status of this program is some combination of all these
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    You will be responsible for any legal consequences yourself; I am not
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    your country, and I am not taking any responsibility on your behalf.


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    OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
    MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS
```

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YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

3)
ssh-keyscan was contributed by David Mazieres under a BSD-style
license.

```
 * Copyright 1995, 1996 by David Mazieres <dm@lcs.mit.edu>.
 *
 * Modification and redistribution in source and binary forms is
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 * OpenBSD project by leaving this copyright notice intact.
```

4)
The Rijndael implementation by Vincent Rijmen, Antoon Bosselaers
and Paulo Barreto is in the public domain and distributed
with the following license:

```
 * @version 3.0 (December 2000)
 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
 * @author Paulo Barreto <paulo.barreto@terra.com.br>
 *
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 * WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
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```

5)
One component of the ssh source code is under a 3-clause BSD license,
held by the University of California, since we pulled these parts from
original Berkeley code.

```
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 *
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```

```
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procps 3.3.17

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pps-tools 1.0.3

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python3 3.10.16

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
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All Python releases are Open Source (see https://opensource.org for
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    Release         Derived     Year        Owner       GPL-
                    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
    2.1.2           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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rpcbind 1.2.6

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shadow 4.11.1

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 */

#include <config.h>

#ident "$Id$"

#include <errno.h>
#include <fcntl.h>
#include <getopt.h>
#include <pwd.h>
#include <signal.h>
#include <stdio.h>
#include <sys/types.h>
#include <time.h>
#include "defines.h"
#include "getdef.h"
#include "nscd.h"
#include "sssd.h"
#include "prototypes.h"
#include "pwauth.h"
#include "pwio.h"
#include "shadowio.h"
#include "shadowlog.h"
```

socat 1.7.4.3

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stress-ng 0.13.12

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sudo 1.9.17p1

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systemd 250.14

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u-boot-imx 2022.04

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Home page: http://www.denx.de/wiki/U-Boot/WebHome

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update-rc.d 0.8

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etcd="/etc/rc"
notreally=0
force=0
dostart=0
verbose=0
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usbutils 014

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util-linux 2.40.1

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vim-tiny 9.1.1652

Vim

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xz 5.2.6

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Version 3.0, 18 August 2009

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zlib 1.2.11

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