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### ### Generic GPL v2

- 8192cu 4.0.2+9000+20130911+gitr0+99f97c6430-r1 (+ patches)
- 8192eu 4.4.1\_17696.20160509+gitr0+0fc4ab017a-r1 (+ patches)
- avahi version 0.7-r0
- base-files version 3.0.14-r89
- base-passwd version 3.5.29-r0
- bash version 3.2.57-r0
- bluez version 5.48-r0
- busybox version 1.27.2-r3 \*
- chrony version 3.1-r2 (+ patches)

- dbus version 1.12.2-r0
- dnsmasq version 2.79-r2
- e2fsprogs version 1.43.8-r0 \*
- gawk version 3.1.5-r2
- glibc version 2.27-r0 \*
- i2c-tools version 4.1-r0
- linux kernel version 4.9.116-blondel\_0+b8f04cb64f-r0 (+ patches) \*
- hwmon-si70xx-mod version 0.1-r0
- timesync-mod version 0.1-gitr0+0b72825c81-r0
- libcap version 2.25-r0 \*
- mtd-utils version 2.0.1-r0 \*
- netbase version 1:5.4-r0
- opkg-utils version 0.3.5-r0
- procps version 3.3.12-r0
- psplash version 0.1+git0+2015f7073e-r15 (+ patches) \*
- skk-dic-jisyo-l version 20131204 \*
- u-boot version 2018.09 (+ patches) \*
- update-alternatives-opkg version 0.3.6-r0
- util-linux (sfdisk, sulogin) version 2.32-r0
- wireless-tools version 30.pre9-r0 (no example files installed)
- yaskkserv-normal version 1.1.0-gitr+1773851d34 (+ patches)

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Version 2, June 1991

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### Generic LGPL v2.0

- tslib version 1.0+gitr0+1fd999ec67-r29.5 (+ patches)
- procps version 3.3.12-r0

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Version 2, June 1991

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- e2fsprogs version 1.43.8-r0 \*
- glibc version 2.27-r0 \*
- util-linux (libblkid, libmount, libuuid, libfdisk, libsmartcols) version 2.32-r0
- glib version 2.54.3-r0 \*
- i2c-tools version 4.1-r0
- libattr version 2.4.47-r0
- libdaemon version 0.14 \*
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- libnl version 3.4.0-r0
- libusb version 1.0.21-r0
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- gcc-runtime version 7.3.0-r0 \*  
- zeromq version 2.1.10-r0 \*

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Version 3, 29 June 2007

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Theodore Ts'o

23-June-2007

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Let no one say political correctness isn't dead....

#### font-dejavu-sans-condensed version 1.0-r1

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#### linux kernel version 4.9.116-blondel\_0+b8f04cb64f-r0 (+ patches)

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Linus Torvalds

#### boost (libboost-filesystem1, libboost-system1) version 1.66.0-r1

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

#### glibc version 2.27-r0

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#### zlib version 1.2.11-r0

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

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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://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

\*/

#### zeromq version 2.1.10-r0

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#### pslash version 0.1+git0+2015f7073e-r15 (+ patches) \*

pslash - a lightweight framebuffer splashscreen for embedded devices.

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#### mtd-utils version 2.0.1-r0

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#### u-boot version 2018.09 (+patches)

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-- Wolfgang Denk

Like many other projects, U-Boot has a tradition of including big blocks of License headers in all files. This not only blows up the source code with mostly redundant information, but also makes it very difficult to generate License Clearing Reports. An additional problem is that even the same licenses are referred to by a number of slightly varying text blocks (full, abbreviated, different indentation, line wrapping and/or white space, with obsolete address information, ...) which makes automatic processing a nightmare.

To make this easier, such license headers in the source files will be replaced with a single line reference to Unique License Identifiers as defined by the Linux Foundation's SPDX project [1].

If a "SPDX-License-Identifier:" line references more than one Unique License Identifier, then this means that the respective file can be used under the terms of either of these licenses, i. e. with

SPDX-License-Identifier: GPL-2.0+ OR BSD-3-Clause

you can choose between GPL-2.0+ and BSD-3-Clause licensing.

We use the SPDX Unique License Identifiers here; these are available at [2].

License identifier syntax  
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#### 1. Placement:

The SPDX license identifier in U-Boot 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.

## 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 linux 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.

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

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

Examples from U-Boot for license expressions in dual licensed files::

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

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 U-Boot, 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+
```

- [1] <http://spdx.org/>
- [2] <http://spdx.org/licenses/>

Full name	SPDX Identifier	OSI Approved	File
name	URI		
GNU General Public License v2.0 only	GPL-2.0	Y	
gpl-2.0.txt	<a href="http://www.gnu.org/licenses/gpl-2.0.txt">http://www.gnu.org/licenses/gpl-2.0.txt</a>		
GNU General Public License v2.0 or later	GPL-2.0+	Y	
gpl-2.0.txt	<a href="http://www.gnu.org/licenses/gpl-2.0.txt">http://www.gnu.org/licenses/gpl-2.0.txt</a>		
GNU Library General Public License v2 or later	LGPL-2.0+	Y	
lgpl-2.0.txt	<a href="http://www.gnu.org/licenses/old-licenses/lgpl-2.0.txt">http://www.gnu.org/licenses/old-licenses/lgpl-2.0.txt</a>		
GNU Lesser General Public License v2.1 or later	LGPL-2.1+	Y	
lgpl-2.1.txt	<a href="http://www.gnu.org/licenses/old-licenses/lgpl-2.1.txt">http://www.gnu.org/licenses/old-licenses/lgpl-2.1.txt</a>		
eCos license version 2.0	eCos-2.0		
eCos-2.0.txt	<a href="http://www.gnu.org/licenses/ecos-license.html">http://www.gnu.org/licenses/ecos-license.html</a>		
BSD 2-Clause License	BSD-2-Clause	Y	
bsd-2-clause.txt	<a href="http://spdx.org/licenses/BSD-2-Clause">http://spdx.org/licenses/BSD-2-Clause</a>		
BSD 3-clause "New" or "Revised" License	BSD-3-Clause	Y	
bsd-3-clause.txt	<a href="http://spdx.org/licenses/BSD-3-Clause#licenseText">http://spdx.org/licenses/BSD-3-Clause#licenseText</a>		
IBM PIBS (PowerPC Initialization and	IBM-pibs		
ibm-pibs.txt			

Boot Software) license			
ISC License		ISC	Y
isc.txt	<a href="https://spdx.org/licenses/ISC">https://spdx.org/licenses/ISC</a>		
SIL OPEN FONT LICENSE (OFL-1.1)		OFL-1.1	Y
OFL.txt	<a href="https://spdx.org/licenses/OFL-1.1.html">https://spdx.org/licenses/OFL-1.1.html</a>		
X11 License		X11	
x11.txt	<a href="https://spdx.org/licenses/X11.html">https://spdx.org/licenses/X11.html</a>		

## Exceptions

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The header files "include/image.h" and "arch/\*/include/asm/u-boot.h" define interfaces to U-Boot. Including these (unmodified) header files in another file is considered normal use of U-Boot, and does *\*not\** fall under the heading of "derived work".

-- Wolfgang Denk

bsd-2-clause.txt

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eCos-2.0.txt

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References



1. <http://www.gnu.org/licenses/license-list.html>

ibm-pibs.txt

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isc.txt

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lgpl-2.0.txt

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Version 2, June 1991

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  31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
  32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
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