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Text Part Number: 78EE117C99-154823120

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Version 2.1, February 1999

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```
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```

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```
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```

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```
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```

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

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1.4 adduser 3.112ubuntu1

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Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He

rewrote most of it.

Since May 20 2000, it is maintained by Roland Bauerschmidt
<rb@debian.org>.

Since March 24 2004, it is maintained by Roland Bauerschmidt
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```

<signature of Ty Coon>, 1 April 1989

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Version 2.1, February 1999

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1.8 avahi 0.6.31 :r11.1

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1.9 base-files 5.0.0ubuntu23

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

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

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above

specified materials from the same place.

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

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

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

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

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1.10 base-files 3.0.14 :r89.1

1.10.1 Available under license :

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Version 3, 29 June 2007

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5. Combined Libraries.

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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

```
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it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

```
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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 02111-1307 USA
```

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

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

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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Version 2.1, February 1999

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```
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```

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The End

1.11 base-passwd 3.5.29 :r0

1.11.1 Available under license :

Format-Specification: <http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135>

Name: base-passwd

Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/*

Copyright: Copyright 1999-2002 Wichert Akkerman <wichert@deephackmode.org>

Copyright 2002, 2003, 2004 Colin Watson <cjwatson@debian.org>

License: GPL-2

Files: passwd.master, group.master

License: PD

X-Notes: Originally written by Ian Murdock <imurdock@debian.org> and

Bruce Perens <bruce@pixar.com>.

Files: doc/*

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1.12 base-passwd 3.5.22

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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

@c End:

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Version 3, 29 June 2007

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

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

Further thanks go to:

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

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

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

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```
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```

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```
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```

```
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Ty Coon, President of Vice
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1.17 bsduutils 1:2.17.2-0ubuntu1

1.17.1 Available under license :

size: 8388608, sector size: 512, PT: dos, offset: 446

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

size: 4456448, sector size: 512, PT: bsd, offset: 512

#1: 7936 4864 0x7
#2: 12544 3584 0x7

BZh91AY&SYf"~@H R h% CFTC@OQ6_@

tTJmlAH1ll/F0HA]BAk@

BZh91AY&SY`hC+{HlyL*UT{JDCCMhd?TPJ

4b`'LLLD3Mf0h

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```

```
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```
<one line to give the program's name and a brief idea of what it does.>  
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```

```
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(at your option) any later version.
```

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```
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under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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This is the Debian GNU/Linux prepackaged version of util-linux.

This package was put together by Guy Maor <maor@debian.org> and later
maintained by Sean 'Shaleh' Perry <shaleh@debian.org>, and Adrian Bunk
<bunk@stusta.de>.

The current maintainer is LaMont Jones <lamont@debian.org>.

See also: [git://git.debian.org/~lamont/util-linux.git](https://git.debian.org/~lamont/util-linux.git)

It was downloaded from:

<ftp://ftp.us.kernel.org/pub/linux/utils/util-linux-ng/>

Upstream maintainers include:

Maintainer: Karel Zak <kzak@redhat.com>

Past Maintainer: Adrian Bunk <bunk@fs.tum.de>

Past Maintainer: Andries Brouwer <aeb@cwi.nl>

See also /usr/share/doc/util-linux/AUTHORS

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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Version 2.1, February 1999

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```

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Ty Coon, President of Vice
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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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1.19 busybox-initramfs 1:1.15.3-1ubuntu5

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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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```
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```

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```
== 7x14B.bdf 7x14Bc.bdf 7x14.bdf 7x14B-IL2.bdf 7x14c.bdf 7x14-IL2.bdf  
8x13B.bdf 8x13Bc.bdf 8x13.bdf 8x13c.bdf 8x13-IL2.bdf 8x13O.bdf  
9x15B.bdf 9x15Bc.bdf 9x15.bdf 9x15c.bdf 9x15B-IL2.bdf 9x15-IL2.bdf  
9x18B.bdf 9x18.bdf etl14-unicode.bdf etl16-unicode.bdf  
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ter-u20b.bdf, ter-u20n.bdf, ter-u24b.bdf, ter-u24n.bdf,
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100dpi-courR10-IL2.bdf 75dpi-courB12.bdf 75dpi-courB12c.bdf
75dpi-courB12-IL2.bdf 75dpi-courB14.bdf 75dpi-courB14c.bdf
75dpi-courB14-IL2.bdf 75dpi-courR12.bdf 75dpi-courR12c.bdf
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100dpi-lutBS08-IL2.bdf 100dpi-lutBS12-IL2.bdf
100dpi-lutBS14-IL2.bdf 100dpi-lutBS14.bdf 100dpi-lutBS19-IL2.bdf
100dpi-lutRS10.bdf 100dpi-lutRS10-IL2.bdf 100dpi-lutRS08.bdf
100dpi-lutRS08-IL2.bdf 100dpi-lutRS14-IL2.bdf 100dpi-lutRS14.bdf
100dpi-lutRS19-IL2.bdf 75dpi-lutBS12.bdf 75dpi-lutBS12c.bdf
75dpi-lutBS12-IL2.bdf 75dpi-lutBS14.bdf 75dpi-lutBS14c.bdf
75dpi-lutBS14-IL2.bdf 75dpi-lutRS12.bdf 75dpi-lutRS12c.bdf
75dpi-lutRS12-IL2.bdf 75dpi-lutRS14.bdf 75dpi-lutRS14c.bdf
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1.25 console-terminus 4.30-2

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1.26 coreutils 8.5-1ubuntu3

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1.29 cron 3.0pl1-114ubuntu1

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1.30 curl 7.44.0 :r0.1

1.30.1 Available under license :

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=====

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1.32 db 6.0.30 :r0.1

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1.33 db4.8 4.8.30 :1

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1.44 dpkg 1.15.8.4ubuntu3

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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007

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1.46 e2fsprogs 1.42.9 :r0

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*

* This quote is just too good to not pass on:

*

```

* "BTW, I would have rejected the name Story Server because its
* initials are SS, the name of the secret police in Nazi
* Germany, probably the most despised pair of letters in western
* culture." --- http://scriptingnewsarchive.userland.com/1999/12/13
*
* Let no one say political correctness isn't dead....
*/

```

```

#ifndef __SS_H
#define __SS_H __FILE__

#include <ss/ss_err.h>

#define __SS_CONST const
#define __SS_PROTO (int, const char * const *, int, void *)

#ifdef __GNUC__
#define __SS_ATTR(x) __attribute__((x))
#else
#define __SS_ATTR(x)
#endif

typedef __SS_CONST struct _ss_request_entry {
    __SS_CONST char * __SS_CONST *command_names; /* whatever */
    void (* __SS_CONST function) __SS_PROTO; /* foo */
    __SS_CONST char * __SS_CONST info_string; /* NULL */
    int flags; /* 0 */
} ss_request_entry;

typedef __SS_CONST struct _ss_request_table {
    int version;
    ss_request_entry *requests;
} ss_request_table;

#define SS_RQT_TBL_V2 2

typedef struct _ss_rp_options { /* DEFAULT VALUES */
    int version; /* SS_RP_V1 */
    void (*unknown) __SS_PROTO; /* call for unknown command */
    int allow_suspend;
    int catch_int;
} ss_rp_options;

#define SS_RP_V1 1

#define SS_OPT_DONT_LIST 0x0001
#define SS_OPT_DONT_SUMMARIZE 0x0002

```

```

void ss_help __SS_PROTO;
#if 0
char *ss_current_request(); /* This is actually a macro */
#endif

char *ss_name(int sci_idx);
void ss_error (int, long, char const *, ...)
__SS_ATTR((format(printf, 3, 4)));
void ss_perror (int, long, char const *);

int ss_create_invocation(const char *, const char *, void *,
    ss_request_table *, int *);
void ss_delete_invocation(int);
int ss_listen(int);
int ss_execute_line(int, char *);
void ss_add_request_table(int, ss_request_table *, int, int *);
void ss_delete_request_table(int, ss_request_table *, int *);
void ss_abort_subsystem(int sci_idx, int code);
void ss_quit(int argc, const char * const *argv, int sci_idx, void *infop);
void ss_self_identify(int argc, const char * const *argv, int sci_idx, void *infop);
void ss_subsystem_name(int argc, const char * const *argv,
    int sci_idx, void *infop);
void ss_subsystem_version(int argc, const char * const *argv,
    int sci_idx, void *infop);
void ss_unimplemented(int argc, const char * const *argv,
    int sci_idx, void *infop);
void ss_set_prompt(int sci_idx, char *new_prompt);
char *ss_get_prompt(int sci_idx);
void ss_get_readline(int sci_idx);
char *ss_safe_getenv(const char *arg);

extern ss_request_table ss_std_requests;
#endif /* _ss_h */

```

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Index: tdbsa/tdb.c

```
-----
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell      2005
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** NOTE! The following LGPL license applies to the tdb
** library. This does NOT imply that all of Samba is released
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image: $(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LD_FLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
```

```
`echo $(my_dir) | sed -e 's;lib/;;'/'$(BSD_LIB) $(BSD_LIB))
```

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

```
install-strip: install
```

```
install-shlibs-strip: install-shlibs
```

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

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

Gadi Oxman, August 1995

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```

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Theodore Ts'o
23-June-2007

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```
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```

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```
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```

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```
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```

```
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1.48 eee-acpi-scripts 1.1.12+git0+9d4cdedca2 :r0

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1.49 elfutils 0.163 :r0.1

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1.53 findutils 4.4.2-1ubuntu1

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The idea for `-print0` and `xargs -0` came from Dan Bernstein brnstnd@kramden.acf.nyu.edu.

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* GNU locate and its associated utilities were originally written by James Woods, with enhancements by David MacKenzie, James Youngman and Bas van Gompel.

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@c ispell-local-pdict: "ispell-dict"

@c End:

1.54 gcc-4.5-base 4.5.1-7ubuntu2

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

For example, on rare occasions, there may be a special need to

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

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

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

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

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

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

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If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility

is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

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

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```

```
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(at your option) any later version.
```

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```
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1.57 glib-2.0 2.44.1 :r0.1

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/*

* Perl-Compatible Regular Expressions *

/* This is the public header file for the PCRE library, to be #included by applications that call the PCRE functions.

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*/

#ifndef _PCRE_H
#define _PCRE_H

```

/* The current PCRE version information. */

#define PCRE_MAJOR      8
#define PCRE_MINOR      31
#define PCRE_PRERELEASE
#define PCRE_DATE       2012-07-06

/* When an application links to a PCRE DLL in Windows, the symbols that are
imported have to be identified as such. When building PCRE, the appropriate
export setting is defined in pcre_internal.h, which includes this file. So we
don't change existing definitions of PCRE_EXP_DECL and PCRECPP_EXP_DECL. */

#if defined(_WIN32) && !defined(PCRE_STATIC)
#  ifndef PCRE_EXP_DECL
#    define PCRE_EXP_DECL extern __declspec(dllimport)
#  endif
#  ifdef __cplusplus
#    ifndef PCRECPP_EXP_DECL
#      define PCRECPP_EXP_DECL extern __declspec(dllimport)
#    endif
#    ifndef PCRECPP_EXP_DEFN
#      define PCRECPP_EXP_DEFN __declspec(dllimport)
#    endif
#  endif
#endif

/* By default, we use the standard "extern" declarations. */

#ifndef PCRE_EXP_DECL
#  ifdef __cplusplus
#    define PCRE_EXP_DECL extern "C"
#  else
#    define PCRE_EXP_DECL extern
#  endif
#endif

#ifdef __cplusplus
#  ifndef PCRECPP_EXP_DECL
#    define PCRECPP_EXP_DECL extern
#  endif
#  ifndef PCRECPP_EXP_DEFN
#    define PCRECPP_EXP_DEFN
#  endif
#endif

/* Have to include stdlib.h in order to ensure that size_t is defined;
it is needed here for malloc. */

```

```

#include <stdlib.h>

/* Allow for C++ users */

#ifdef __cplusplus
extern "C" {
#endif

/* Options. Some are compile-time only, some are run-time only, and some are
both, so we keep them all distinct. However, almost all the bits in the options
word are now used. In the long run, we may have to re-use some of the
compile-time only bits for runtime options, or vice versa. In the comments
below, "compile", "exec", and "DFA exec" mean that the option is permitted to
be set for those functions; "used in" means that an option may be set only for
compile, but is subsequently referenced in exec and/or DFA exec. Any of the
compile-time options may be inspected during studying (and therefore JIT
compiling). */

#define PCRE_CASELESS      0x00000001 /* Compile */
#define PCRE_MULTILINE    0x00000002 /* Compile */
#define PCRE_DOTALL       0x00000004 /* Compile */
#define PCRE_EXTENDED     0x00000008 /* Compile */
#define PCRE_ANCHORED     0x00000010 /* Compile, exec, DFA exec */
#define PCRE_DOLLAR_ENDONLY 0x00000020 /* Compile, used in exec, DFA exec */
#define PCRE_EXTRA        0x00000040 /* Compile */
#define PCRE_NOTBOL       0x00000080 /* Exec, DFA exec */
#define PCRE_NOTEOL       0x00000100 /* Exec, DFA exec */
#define PCRE_UNGREEDY     0x00000200 /* Compile */
#define PCRE_NOTEMPTY     0x00000400 /* Exec, DFA exec */
/* The next two are also used in exec and DFA exec */
#define PCRE_UTF8         0x00000800 /* Compile (same as PCRE_UTF16) */
#define PCRE_UTF16       0x00000800 /* Compile (same as PCRE_UTF8) */
#define PCRE_NO_AUTO_CAPTURE 0x00001000 /* Compile */
/* The next two are also used in exec and DFA exec */
#define PCRE_NO_UTF8_CHECK 0x00002000 /* Compile (same as PCRE_NO_UTF16_CHECK) */
#define PCRE_NO_UTF16_CHECK 0x00002000 /* Compile (same as PCRE_NO_UTF8_CHECK) */
#define PCRE_AUTO_CALLOUT 0x00004000 /* Compile */
#define PCRE_PARTIAL_SOFT 0x00008000 /* Exec, DFA exec */
#define PCRE_PARTIAL     0x00008000 /* Backwards compatible synonym */
#define PCRE_DFA_SHORTEST 0x00010000 /* DFA exec */
#define PCRE_DFA_RESTART 0x00020000 /* DFA exec */
#define PCRE_FIRSTLINE   0x00040000 /* Compile, used in exec, DFA exec */
#define PCRE_DUPNAMES    0x00080000 /* Compile */
#define PCRE_NEWLINE_CR  0x00100000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_LF  0x00200000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_CRLF 0x00300000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANY 0x00400000 /* Compile, exec, DFA exec */

```

```

#define PCRE_NEWLINE_ANYCRLF 0x00500000 /* Compile, exec, DFA exec */
#define PCRE_BSR_ANYCRLF    0x00800000 /* Compile, exec, DFA exec */
#define PCRE_BSR_UNICODE    0x01000000 /* Compile, exec, DFA exec */
#define PCRE_JAVASCRIPT_COMPAT 0x02000000 /* Compile, used in exec */
#define PCRE_NO_START_OPTIMIZE 0x04000000 /* Compile, exec, DFA exec */
#define PCRE_NO_START_OPTIMISE 0x04000000 /* Synonym */
#define PCRE_PARTIAL_HARD    0x08000000 /* Exec, DFA exec */
#define PCRE_NOTEMPTY_ATSTART 0x10000000 /* Exec, DFA exec */
#define PCRE_UCP             0x20000000 /* Compile, used in exec, DFA exec */

```

/* Exec-time and get/set-time error codes */

```

#define PCRE_ERROR_NOMATCH      (-1)
#define PCRE_ERROR_NULL        (-2)
#define PCRE_ERROR_BADOPTION    (-3)
#define PCRE_ERROR_BADMAGIC     (-4)
#define PCRE_ERROR_UNKNOWN_OPCODE (-5)
#define PCRE_ERROR_UNKNOWN_NODE (-5) /* For backward compatibility */
#define PCRE_ERROR_NOMEMORY     (-6)
#define PCRE_ERROR_NOSUBSTRING  (-7)
#define PCRE_ERROR_MATCHLIMIT   (-8)
#define PCRE_ERROR_CALLOUT      (-9) /* Never used by PCRE itself */
#define PCRE_ERROR_BADUTF8      (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16     (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF8_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_PARTIAL      (-12)
#define PCRE_ERROR_BADPARTIAL   (-13)
#define PCRE_ERROR_INTERNAL     (-14)
#define PCRE_ERROR_BADCOUNT    (-15)
#define PCRE_ERROR_DFA_UITEM    (-16)
#define PCRE_ERROR_DFA_UCOND    (-17)
#define PCRE_ERROR_DFA_UMLIMIT  (-18)
#define PCRE_ERROR_DFA_WSSIZE   (-19)
#define PCRE_ERROR_DFA_RECURSE (-20)
#define PCRE_ERROR_RECURSIONLIMIT (-21)
#define PCRE_ERROR_NULLWSLIMIT  (-22) /* No longer actually used */
#define PCRE_ERROR_BADNEWLINE   (-23)
#define PCRE_ERROR_BADOFFSET    (-24)
#define PCRE_ERROR_SHORTUTF8    (-25)
#define PCRE_ERROR_SHORTUTF16   (-25) /* Same for 8/16 */
#define PCRE_ERROR_RECURSELOOP (-26)
#define PCRE_ERROR_JIT_STACKLIMIT (-27)
#define PCRE_ERROR_BADMODE      (-28)
#define PCRE_ERROR_BADENDIANNESS (-29)
#define PCRE_ERROR_DFA_BADRESTART (-30)

```

/* Specific error codes for UTF-8 validity checks */

```

#define PCRE_UTF8_ERR0      0
#define PCRE_UTF8_ERR1      1
#define PCRE_UTF8_ERR2      2
#define PCRE_UTF8_ERR3      3
#define PCRE_UTF8_ERR4      4
#define PCRE_UTF8_ERR5      5
#define PCRE_UTF8_ERR6      6
#define PCRE_UTF8_ERR7      7
#define PCRE_UTF8_ERR8      8
#define PCRE_UTF8_ERR9      9
#define PCRE_UTF8_ERR10     10
#define PCRE_UTF8_ERR11     11
#define PCRE_UTF8_ERR12     12
#define PCRE_UTF8_ERR13     13
#define PCRE_UTF8_ERR14     14
#define PCRE_UTF8_ERR15     15
#define PCRE_UTF8_ERR16     16
#define PCRE_UTF8_ERR17     17
#define PCRE_UTF8_ERR18     18
#define PCRE_UTF8_ERR19     19
#define PCRE_UTF8_ERR20     20
#define PCRE_UTF8_ERR21     21

```

/ Specific error codes for UTF-16 validity checks */*

```

#define PCRE_UTF16_ERR0     0
#define PCRE_UTF16_ERR1     1
#define PCRE_UTF16_ERR2     2
#define PCRE_UTF16_ERR3     3
#define PCRE_UTF16_ERR4     4

```

/ Request types for pcre_fullinfo() */*

```

#define PCRE_INFO_OPTIONS    0
#define PCRE_INFO_SIZE       1
#define PCRE_INFO_CAPTURECOUNT  2
#define PCRE_INFO_BACKREFMAX  3
#define PCRE_INFO_FIRSTBYTE   4
#define PCRE_INFO_FIRSTCHAR   4 /* For backwards compatibility */
#define PCRE_INFO_FIRSTTABLE  5
#define PCRE_INFO_LASTLITERAL  6
#define PCRE_INFO_NAMEENTRYSIZE  7
#define PCRE_INFO_NAMECOUNT  8
#define PCRE_INFO_NAMETABLE  9
#define PCRE_INFO_STUDYSIZE   10
#define PCRE_INFO_DEFAULT_TABLES 11
#define PCRE_INFO_OKPARTIAL   12

```

```

#define PCRE_INFO_JCHANGED      13
#define PCRE_INFO_HASCORRLF    14
#define PCRE_INFO_MINLENGTH    15
#define PCRE_INFO_JIT          16
#define PCRE_INFO_JITSIZE      17
#define PCRE_INFO_MAXLOOKBEHIND 18

/* Request types for pcre_config(). Do not re-arrange, in order to remain
compatible. */

#define PCRE_CONFIG_UTF8        0
#define PCRE_CONFIG_NEWLINE    1
#define PCRE_CONFIG_LINK_SIZE  2
#define PCRE_CONFIG_POSIX_MALLOC_THRESHOLD 3
#define PCRE_CONFIG_MATCH_LIMIT 4
#define PCRE_CONFIG_STACKRECURSE 5
#define PCRE_CONFIG_UNICODE_PROPERTIES 6
#define PCRE_CONFIG_MATCH_LIMIT_RECURSION 7
#define PCRE_CONFIG_BSR        8
#define PCRE_CONFIG_JIT        9
#define PCRE_CONFIG_UTF16      10
#define PCRE_CONFIG_JITTARGET  11

/* Request types for pcre_study(). Do not re-arrange, in order to remain
compatible. */

#define PCRE_STUDY_JIT_COMPILE      0x0001
#define PCRE_STUDY_JIT_PARTIAL_SOFT_COMPILE 0x0002
#define PCRE_STUDY_JIT_PARTIAL_HARD_COMPILE 0x0004

/* Bit flags for the pcre[16]_extra structure. Do not re-arrange or redefine
these bits, just add new ones on the end, in order to remain compatible. */

#define PCRE_EXTRA_STUDY_DATA      0x0001
#define PCRE_EXTRA_MATCH_LIMIT     0x0002
#define PCRE_EXTRA_CALLOUT_DATA    0x0004
#define PCRE_EXTRA_TABLES          0x0008
#define PCRE_EXTRA_MATCH_LIMIT_RECURSION 0x0010
#define PCRE_EXTRA_MARK            0x0020
#define PCRE_EXTRA_EXECUTABLE_JIT  0x0040

/* Types */

struct real_pcre;          /* declaration; the definition is private */
typedef struct real_pcre pcre;

struct real_pcre16;       /* declaration; the definition is private */
typedef struct real_pcre16 pcre16;

```



```

struct real_pcre_jit_stack; /* declaration; the definition is private */
typedef struct real_pcre_jit_stack pcre_jit_stack;

struct real_pcre16_jit_stack; /* declaration; the definition is private */
typedef struct real_pcre16_jit_stack pcre16_jit_stack;

/* If PCRE is compiled with 16 bit character support, PCRE_UCHAR16 must contain
a 16 bit wide signed data type. Otherwise it can be a dummy data type since
pcre16 functions are not implemented. There is a check for this in pcre_internal.h. */
#ifndef PCRE_UCHAR16
#define PCRE_UCHAR16 unsigned short
#endif

#ifndef PCRE_SPTR16
#define PCRE_SPTR16 const PCRE_UCHAR16 *
#endif

/* When PCRE is compiled as a C++ library, the subject pointer type can be
replaced with a custom type. For conventional use, the public interface is a
const char *. */

#ifndef PCRE_SPTR
#define PCRE_SPTR const char *
#endif

/* The structure for passing additional data to pcre_exec(). This is defined in
such a way as to be extensible. Always add new fields at the end, in order to
remain compatible. */

typedef struct pcre_extra {
    unsigned long int flags; /* Bits for which fields are set */
    void *study_data; /* Opaque data from pcre_study() */
    unsigned long int match_limit; /* Maximum number of calls to match() */
    void *callout_data; /* Data passed back in callouts */
    const unsigned char *tables; /* Pointer to character tables */
    unsigned long int match_limit_recursion; /* Max recursive calls to match() */
    unsigned char **mark; /* For passing back a mark pointer */
    void *executable_jit; /* Contains a pointer to a compiled jit code */
} pcre_extra;

/* Same structure as above, but with 16 bit char pointers. */

typedef struct pcre16_extra {
    unsigned long int flags; /* Bits for which fields are set */
    void *study_data; /* Opaque data from pcre_study() */
    unsigned long int match_limit; /* Maximum number of calls to match() */
    void *callout_data; /* Data passed back in callouts */
}

```

```

const unsigned char *tables; /* Pointer to character tables */
unsigned long int match_limit_recursion; /* Max recursive calls to match() */
PCRE_UCHAR16 **mark; /* For passing back a mark pointer */
void *executable_jit; /* Contains a pointer to a compiled jit code */
} pcre16_extra;

```

/* The structure for passing out data via the pcre_callout_function. We use a structure so that new fields can be added on the end in future versions, without changing the API of the function, thereby allowing old clients to work without modification. */

```

typedef struct pcre_callout_block {
int    version; /* Identifies version of block */
/* ----- Version 0 ----- */
int    callout_number; /* Number compiled into pattern */
int    *offset_vector; /* The offset vector */
PCRE_SPTR subject; /* The subject being matched */
int    subject_length; /* The length of the subject */
int    start_match; /* Offset to start of this match attempt */
int    current_position; /* Where we currently are in the subject */
int    capture_top; /* Max current capture */
int    capture_last; /* Most recently closed capture */
void    *callout_data; /* Data passed in with the call */
/* ----- Added for Version 1 ----- */
int    pattern_position; /* Offset to next item in the pattern */
int    next_item_length; /* Length of next item in the pattern */
/* ----- Added for Version 2 ----- */
const unsigned char *mark; /* Pointer to current mark or NULL */
/* ----- */
} pcre_callout_block;

```

/* Same structure as above, but with 16 bit char pointers. */

```

typedef struct pcre16_callout_block {
int    version; /* Identifies version of block */
/* ----- Version 0 ----- */
int    callout_number; /* Number compiled into pattern */
int    *offset_vector; /* The offset vector */
PCRE_SPTR16 subject; /* The subject being matched */
int    subject_length; /* The length of the subject */
int    start_match; /* Offset to start of this match attempt */
int    current_position; /* Where we currently are in the subject */
int    capture_top; /* Max current capture */
int    capture_last; /* Most recently closed capture */
void    *callout_data; /* Data passed in with the call */
/* ----- Added for Version 1 ----- */
int    pattern_position; /* Offset to next item in the pattern */
int    next_item_length; /* Length of next item in the pattern */

```

```

/* ----- Added for Version 2 ----- */
const PCRE_UCHAR16 *mark;    /* Pointer to current mark or NULL */
/* ----- */
} pcre16_callout_block;

/* Indirection for store get and free functions. These can be set to
alternative malloc/free functions if required. Special ones are used in the
non-recursive case for "frames". There is also an optional callout function
that is triggered by the (?) regex item. For Virtual Pascal, these definitions
have to take another form. */

#ifndef VPCOMPAT
PCRE_EXP_DECL void *(*pcre_malloc)(size_t);
PCRE_EXP_DECL void (*pcre_free)(void *);
PCRE_EXP_DECL void *(*pcre_stack_malloc)(size_t);
PCRE_EXP_DECL void (*pcre_stack_free)(void *);
PCRE_EXP_DECL int (*pcre_callout)(pcre_callout_block *);

PCRE_EXP_DECL void *(*pcre16_malloc)(size_t);
PCRE_EXP_DECL void (*pcre16_free)(void *);
PCRE_EXP_DECL void *(*pcre16_stack_malloc)(size_t);
PCRE_EXP_DECL void (*pcre16_stack_free)(void *);
PCRE_EXP_DECL int (*pcre16_callout)(pcre16_callout_block *);
#else /* VPCOMPAT */
PCRE_EXP_DECL void *pcre_malloc(size_t);
PCRE_EXP_DECL void pcre_free(void *);
PCRE_EXP_DECL void *pcre_stack_malloc(size_t);
PCRE_EXP_DECL void pcre_stack_free(void *);
PCRE_EXP_DECL int pcre_callout(pcre_callout_block *);

PCRE_EXP_DECL void *pcre16_malloc(size_t);
PCRE_EXP_DECL void pcre16_free(void *);
PCRE_EXP_DECL void *pcre16_stack_malloc(size_t);
PCRE_EXP_DECL void pcre16_stack_free(void *);
PCRE_EXP_DECL int pcre16_callout(pcre16_callout_block *);
#endif /* VPCOMPAT */

/* User defined callback which provides a stack just before the match starts. */

typedef pcre_jit_stack *(*pcre_jit_callback)(void *);
typedef pcre16_jit_stack *(*pcre16_jit_callback)(void *);

/* Exported PCRE functions */

PCRE_EXP_DECL pcre *pcre_compile(const char *, int, const char **, int *,
                                const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile(PCRE_SPTR16, int, const char **, int *,
                                     const unsigned char *);

```

```

PCRE_EXP_DECL pcre *pcre_compile2(const char *, int, int *, const char **,
    int *, const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile2(PCRE_SPTR16, int, int *, const char **,
    int *, const unsigned char *);
PCRE_EXP_DECL int pcre_config(int, void *);
PCRE_EXP_DECL int pcre16_config(int, void *);
PCRE_EXP_DECL int pcre_copy_named_substring(const pcre *, const char *,
    int *, int, const char *, char *, int);
PCRE_EXP_DECL int pcre16_copy_named_substring(const pcre16 *, PCRE_SPTR16,
    int *, int, PCRE_SPTR16, PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int pcre_copy_substring(const char *, int *, int, int,
    char *, int);
PCRE_EXP_DECL int pcre16_copy_substring(PCRE_SPTR16, int *, int, int,
    PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int pcre_dfa_exec(const pcre *, const pcre_extra *,
    const char *, int, int, int, int *, int *, int *, int);
PCRE_EXP_DECL int pcre16_dfa_exec(const pcre16 *, const pcre16_extra *,
    PCRE_SPTR16, int, int, int, int *, int *, int *, int);
PCRE_EXP_DECL int pcre_exec(const pcre *, const pcre_extra *, PCRE_SPTR,
    int, int, int, int *, int);
PCRE_EXP_DECL int pcre16_exec(const pcre16 *, const pcre16_extra *,
    PCRE_SPTR16, int, int, int, int *, int);
PCRE_EXP_DECL void pcre_free_substring(const char *);
PCRE_EXP_DECL void pcre16_free_substring(PCRE_SPTR16);
PCRE_EXP_DECL void pcre_free_substring_list(const char **);
PCRE_EXP_DECL void pcre16_free_substring_list(PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_fullinfo(const pcre *, const pcre_extra *, int,
    void *);
PCRE_EXP_DECL int pcre16_fullinfo(const pcre16 *, const pcre16_extra *, int,
    void *);
PCRE_EXP_DECL int pcre_get_named_substring(const pcre *, const char *,
    int *, int, const char *, const char **);
PCRE_EXP_DECL int pcre16_get_named_substring(const pcre16 *, PCRE_SPTR16,
    int *, int, PCRE_SPTR16, PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_get_stringnumber(const pcre *, const char *);
PCRE_EXP_DECL int pcre16_get_stringnumber(const pcre16 *, PCRE_SPTR16);
PCRE_EXP_DECL int pcre_get_stringtable_entries(const pcre *, const char *,
    char **, char **);
PCRE_EXP_DECL int pcre16_get_stringtable_entries(const pcre16 *, PCRE_SPTR16,
    PCRE_UCHAR16 **, PCRE_UCHAR16 **);
PCRE_EXP_DECL int pcre_get_substring(const char *, int *, int, int,
    const char **);
PCRE_EXP_DECL int pcre16_get_substring(PCRE_SPTR16, int *, int, int,
    PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_get_substring_list(const char *, int *, int,
    const char ***);
PCRE_EXP_DECL int pcre16_get_substring_list(PCRE_SPTR16, int *, int,
    PCRE_SPTR16 **);

```

```

PCRE_EXP_DECL const unsigned char *pcre_maketables(void);
PCRE_EXP_DECL const unsigned char *pcre16_maketables(void);
PCRE_EXP_DECL int pcre_refcount(pcre *, int);
PCRE_EXP_DECL int pcre16_refcount(pcre16 *, int);
PCRE_EXP_DECL pcre_extra *pcre_study(const pcre *, int, const char **);
PCRE_EXP_DECL pcre16_extra *pcre16_study(const pcre16 *, int, const char **);
PCRE_EXP_DECL void pcre_free_study(pcre_extra *);
PCRE_EXP_DECL void pcre16_free_study(pcre16_extra *);
PCRE_EXP_DECL const char *pcre_version(void);
PCRE_EXP_DECL const char *pcre16_version(void);

/* Utility functions for byte order swaps. */
PCRE_EXP_DECL int pcre_pattern_to_host_byte_order(pcre *, pcre_extra *,
    const unsigned char *);
PCRE_EXP_DECL int pcre16_pattern_to_host_byte_order(pcre16 *, pcre16_extra *,
    const unsigned char *);
PCRE_EXP_DECL int pcre16_utf16_to_host_byte_order(PCRE_UCHAR16 *,
    PCRE_SPTR16, int, int *, int);

/* JIT compiler related functions. */

PCRE_EXP_DECL pcre_jit_stack *pcre_jit_stack_alloc(int, int);
PCRE_EXP_DECL pcre16_jit_stack *pcre16_jit_stack_alloc(int, int);
PCRE_EXP_DECL void pcre_jit_stack_free(pcre_jit_stack *);
PCRE_EXP_DECL void pcre16_jit_stack_free(pcre16_jit_stack *);
PCRE_EXP_DECL void pcre_assign_jit_stack(pcre_extra *,
    pcre_jit_callback, void *);
PCRE_EXP_DECL void pcre16_assign_jit_stack(pcre16_extra *,
    pcre16_jit_callback, void *);

#ifdef __cplusplus
} /* extern "C" */
#endif

#endif /* End of pcre.h */
PCRE LICENCE

```

Please see the file LICENCE in the PCRE distribution for licensing details.

End

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1.58 gmp 6.0.0 :r0.1

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1.59 gnutls 3.3.17.1 :r0

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```
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```

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1.60 grep 2.6.3-3

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Version 3, 29 June 2007

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1.61 grep 2.21 :r0

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

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1.64 hostname 3.04ubuntu1

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on Thu, 16 Jan 1997 01:00:34 +0100.

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hostname -- set the host name or show the host/domain name

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1.66 init-ifupdown 1.0 :r7.2

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1.67 initramfs-tools 0.98.1ubuntu6

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```

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```
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1.70 initscripts 2.87dsf-4ubuntu18

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Init was written by Miquel van Smoorenburg <miquels@cistron.nl>.

This package was first put together by Bruce Perens <Bruce@Pixar.com> from pre-distribution sources. Ian Murdock <imurdock@debian.org>

integrated it into the base system maintained it until the end of 1995.
Miquel van Smoorenburg <miquels@cistron.nl> implemented Debian support.
In version 2.85 the package was split into three (sysvinit, sysv-rc,
and initscripts) in order to make room for alternative rc mechanisms.

The upstream source is available at:

Primary-Site: ftp.cistron.nl /pub/people/miquels/software
92K sysvinit-2.86.tar.gz
Alternate-Site: sunsite.unc.edu /pub/Linux/system/daemons/init
92K sysvinit-2.86.tar.gz

The sysvinit package in Debian is maintained as an alioth project.
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```
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```

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```
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```

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```
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```

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

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1.74 iptables 1.4.21 :r0.2

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```

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```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.75 kbd 1.15-1ubuntu3

1.75.1 Available under license :

```
#
# PC Screen (console) Fonts - psf1 header
#
```

```
0  leshort  0x0436    psf screen font data
>2  byte    0        256 characters, no index
>2  byte    1        512 characters, no index
>2  byte 2 256 characters, Unicode index
>2  byte 3 512 characters, Unicode index
>2  byte 4 256 characters, Unicode level 2 index
>2  byte 5 512 characters, Unicode level 2 index
>3  byte x 8x%d
```

#

PC Screen (console) Fonts - psf2 header

#

```
0  lelong  0x864ab572 psf2 screen font data
>12 lelong&1 1 with Unicode index
>16 lelong x \b, %d glyphs
>28 lelong x \b, %dx
>24 lelong x \b%d
```

The file

kbdrate.c

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The files

dumpkeys.c loadkeys.y analyze.l ksyms.c ksyms.h
showkey.c keymaps.5 loadkeys.1 dumpkeys.1 showkey.1
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The files

setfont.c setfont.8 mapscrn.c mapscrn.8
(and changes to loadkeys.y)
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The files

psfaddtable.1 psfgettable.1 psfstriptime.1
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The files

chvt.c clrunimap.c deallocvt.c fgconsole.c findfile.c
getfd.c getkeycodes.c getunimap.c kbd_mode.c loadunimap.c
psffontop.c psfxtable.c resizecons.c screendump.c setkeycodes.c
setleds.c setmetamode.c setvesablank.c showconsolefont.c
spawn_console.c spawn_login.c
chvt.1 deallocvt.1 kbd_mode.1 setleds.1 setmetamode.1
getkeycodes.8 loadunimap.8 resizecons.8 setkeycodes.8
kbd.FAQ.*

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man/man1/showkey.1, man/man5/keymaps.5
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man/man1/psfstriptime.1
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src/findfile.c, src/getfd.c, src/getkeycodes.c, src/getunimap.c,
src/kbd_mode.c, src/loadunimap.c, src/psffontop.c, src/psfxtable.c,
src/resizecons.c, src/screendump.c, src/setkeycodes.c, src/setleds.c,
src/setmetamode.c, src/setvesablank.c, src/showconsolefont.c,
src/spawn_console.c, src/spawn_login.c, man/man1/chvt.1,
man/man1/deallocvt.1, man/man1/kbd_mode.1, man/man1/setleds.1,
man/man1/setmetamode.1, man/man8/getkeycodes.8, man/man8/loadunimap.8,
man/man8/resizecons.8, man/man8/setkeycodes.8 (and changes to files
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Files: man/man1/misc/splitfont.1, man/man1/openvt.1, man/man8/misc/setlogcons.8,
man/man8/misc/vcstime.8 (and changes to files mentioned above)
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1.76 klibc-utils 1.5.20-1

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
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the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

```
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MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
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```

```
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```


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

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

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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1.77 kmod 21+git0+114ec87c85 :r0.1

1.77.1 Available under license :

LGPL
LGPL
LGPL

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Version 2.1, February 1999

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

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

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

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

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

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

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

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

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

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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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to use the modified definitions.)

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

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

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

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

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

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```
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```

```
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1.81 libblkid1 2.17.2-0ubuntu1

1.81.1 Available under license :

size: 8388608, sector size: 512, PT: dos, offset: 446

#1: 32 7648 0x83
#2: 7680 8704 0xa5

#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)
size: 4456448, sector size: 512, PT: BSD, offset: 512

#1: 7936 4864 0x7
#2: 12544 3584 0x7

BZh91AY&SYf"~@HR h% CFTC@OQ6_@
tTJmlAH1l/F0HA]BAk@

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
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```

```
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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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under certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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This is the Debian GNU/Linux prepackaged version of util-linux.

This package was put together by Guy Maor <maor@debian.org> and later maintained by Sean 'Shaleh' Perry <shaleh@debian.org>, and Adrian Bunk <bunk@stusta.de>.

The current maintainer is LaMont Jones <lamont@debian.org>.
See also: git://git.debian.org/~lamont/util-linux.git

It was downloaded from:
<ftp://ftp.us.kernel.org/pub/linux/utils/util-linux-ng/>

Upstream maintainers include:
Maintainer: Karel Zak <kzak@redhat.com>
Past Maintainer: Adrian Bunk <bunk@fs.tum.de>
Past Maintainer: Andries Brouwer <aeb@cw.nl>

See also /usr/share/doc/util-linux/AUTHORS

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- * GPLv2 (GNU General Public License version 2)
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This is libblkid, previously part of e2fsprogs this is now part of util-linux-ng and has thus moved to the util-linux Debian source package.

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is libuuid, previously part of e2fsprogs this is now part of util-linux-ng and has thus moved to the util-linux Debian source package.

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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Version 2.1, February 1999

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This code is derived from section 17.1 of Applied Cryptography, second edition, which describes a stream cipher allegedly compatible with RSA Labs "RC4" cipher (the actual description of which is a trade secret). The same algorithm is used as a stream cipher called "arcfour" in Tatu Ylonen's ssh package.

Here the stream cipher has been modified always to include the time when initializing the state. That makes it impossible to regenerate the same random sequence twice, so this can't be used for encryption, but will generate good random numbers.

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This code implements the MD5 message-digest algorithm. The algorithm is due to Ron Rivest. This code was written by Colin Plumb in 1993, no copyright is claimed. This code is in the public domain; do with it what you wish.

Equivalent code is available from RSA Data Security, Inc. This code has been tested against that, and is equivalent, except that you don't need to include two pages of legalese with every copy.

To compute the message digest of a chunk of bytes, declare an MD5Context structure, pass it to MD5Init, call MD5Update as

needed on buffers full of bytes, and then call MD5Final, which will fill a supplied 16-byte array with the digest.

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1.84 libbz2-1.0 1.0.5-4ubuntu1

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

1.85 libc-bin 2.12.1-0ubuntu6

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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

@c End:

1.86 libc6 2.12.1-0ubuntu6

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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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1.88 libcap-ng 0.7.7 :r0

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1.89 libcap2 1:2.19-2

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1.90 libcgroup 0.41 :r0.3

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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```
#!/bin/sh
```

```
find . -type f \! -name \*~\! -exec grep -q Begin-Header \{\} \; -print \
| grep -v ^./build
```

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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Theodore Ts'o
23-June-2007

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Version 2, June 1991

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That's all there is to it!

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

```
all:: image
```

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

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

```
image: $(BSD_LIB)
```

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

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

```
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

```
install-strip: install
```

```
install-shlibs-strip: install-shlibs
```

```
uninstall-shlibs uninstall::
```

```
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
```

```
$(RM) -rf pic
```

```
$(RM) -f $(BSD_LIB)
```

```
$(RM) -f ../$(BSD_LIB)
```

```
Index: tdbsa/tdb.c
```

```
-----  
--- tdbsa.orig/tdb.c
```

```
+++ tdbsa/tdb.c
```

```
@@ -4,11 +4,11 @@ Rev: 23371
```

```
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
```

```
*/
```

```
/*
```

```
- Unix SMB/CIFS implementation.
```

```
+ trivial database library - standalone version
```

```
- trivial database library - private includes
```

```
-
```

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

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

```
+ Copyright (C) Jeremy Allison      2000-2006
```

```
+ Copyright (C) Paul `Rusty' Russell  2000
```

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1.92 libdbus-1-3 1.4.0-0ubuntu1

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```
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This package was debianized by Colin Walters <walters@debian.org> on
Thu, 6 Mar 2003 18:01:37 -0500
```

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```

```
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```

```
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```

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```
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under certain conditions; type `show c' for details.
```

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1.100 libgdbm3 1.8.3-9

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```

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```

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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This is Debian GNU's prepackaged version of the FSF's GNU DBM library.

This package was put together by James Troup <james@nocrew.org> from the GNU sources:

```
ftp://ftp.gnu.org/pub/gnu/gdbm/gdbm-1.8.3.tar.gz
```

```
It was previously maintained by Ray Dassen <jdassen@wi.LeidenUniv.nl>,
Mark W. Eichin <eichin@kitten.gen.ma.us> and Christoph Lameter
<clameter@debian.org>.
```

```
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```

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1.101 libglib2.0-0 2.26.0-0ubuntu1

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h

kadmin/server/iprope_svc.c
lib/kdb/iprope.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

and marked portions of the following files:

lib/krb5/os/hst_realm.c

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@smallexample

lib/gssapi/generic/gssapi_err_generic.et

lib/gssapi/mechglue/g_accept_sec_context.c

lib/gssapi/mechglue/g_acquire_cred.c

lib/gssapi/mechglue/g_canon_name.c

lib/gssapi/mechglue/g_compare_name.c

lib/gssapi/mechglue/g_context_time.c

lib/gssapi/mechglue/g_delete_sec_context.c

lib/gssapi/mechglue/g_dsp_name.c

lib/gssapi/mechglue/g_dsp_status.c

lib/gssapi/mechglue/g_dup_name.c

lib/gssapi/mechglue/g_exp_sec_context.c

lib/gssapi/mechglue/g_export_name.c

```
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
@end smallexample
```

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```
@smallexample
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
@end smallexample
```

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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech_gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech_spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
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lib/libgss/g_seal.c
lib/libgss/g_sign.c
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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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lib/gssapi/generic/gssapi_err_generic.et

lib/gssapi/mechglue/g_accept_sec_context.c

lib/gssapi/mechglue/g_acquire_cred.c

lib/gssapi/mechglue/g_canon_name.c

lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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lib/krb5/os/hst_realm.c

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@smallexample

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c

```
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
@end smallexample
```

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```
@smallexample
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
@end smallexample
```

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
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lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h

uts/common/gssapi/include/mechglueP.h

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under certain conditions; type `show c' for details.
```

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```
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```

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

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1.105 libkeyutils1 1.4-1

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1.106 libklibc 1.5.20-1

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```

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c

lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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lib/krb5/os/hst_realm.c

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@smallexample

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c

```
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
@end smallexample
```

and the initial implementation of incremental propagation, including the following new or changed files:

```
@smallexample
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
@end smallexample
```

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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech_gssapiP_spnego.h
```

lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
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lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/generic/gssapi_err_generic.et

lib/gssapi/mechglue/g_accept_sec_context.c

lib/gssapi/mechglue/g_acquire_cred.c

lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
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lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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@smallexample

lib/gssapi/generic/gssapi_err_generic.et

lib/gssapi/mechglue/g_accept_sec_context.c

lib/gssapi/mechglue/g_acquire_cred.c

lib/gssapi/mechglue/g_canon_name.c

lib/gssapi/mechglue/g_compare_name.c

lib/gssapi/mechglue/g_context_time.c

lib/gssapi/mechglue/g_delete_sec_context.c

lib/gssapi/mechglue/g_dsp_name.c

lib/gssapi/mechglue/g_dsp_status.c

lib/gssapi/mechglue/g_dup_name.c

lib/gssapi/mechglue/g_exp_sec_context.c

lib/gssapi/mechglue/g_export_name.c

lib/gssapi/mechglue/g_glue.c

lib/gssapi/mechglue/g_imp_name.c

lib/gssapi/mechglue/g_imp_sec_context.c

lib/gssapi/mechglue/g_init_sec_context.c

lib/gssapi/mechglue/g_initialize.c

lib/gssapi/mechglue/g_inquire_context.c

lib/gssapi/mechglue/g_inquire_cred.c

lib/gssapi/mechglue/g_inquire_names.c

lib/gssapi/mechglue/g_process_context.c

```
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
@end smallexample
```

and the initial implementation of incremental propagation, including the following new or changed files:

```
@smallexample
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
@end smallexample
```

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
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lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
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```
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```

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```
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```

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

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1.109 liblocale-gettext-perl 1.05-6

1.109.1 Available under license :

This package was debianized by Raphael Hertzog <rhertzog@hnet.fr> on Tue, 29 Dec 1998 12:11:58 +0100.

It was downloaded from <http://www.cpan.org/modules/by-module/Locale/gettext-1.05.tar.gz>

Upstream Author: Phillip Vandry <vandry@TZoNE.ORG>

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1.110 liblzma2 4.999.9beta+20100527-1

1.110.1 Available under license :

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=====

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Name: XZ Utils

Maintainer: Lasse Collin lasse.collin@tukaani.org

Source: <http://tukaani.org/xz>

[git://ctrl.tukaani.org/xz.git](http://ctrl.tukaani.org/xz.git)

X-Authors:

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To: Jonathan Nieder <jrnieder@gmail.com>

Subject: Re: XZ utils for Debian

Date: Sun, 19 Jul 2009 13:28:23 +0300

Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

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X-Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,

David Mackenzie, Bruno Haible, and many others.

X-Origin: configure.ac from XZ Utils,
visibility.m4 serial 1 (gettext-0.15),
Autoconf 2.52g

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Files: `po/Makevars`

X-Origin: `gettext-runtime/po/Makevars (gettext-0.12)`

X-Authors: Bruno Haible

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1.115 libnl 3.2.25 :r1

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1.116 libpam 1.2.1 :r5.3.1

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1.117 libpam-modules 1.1.1-4ubuntu1

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1.118 libpam-runtime 1.1.1-4ubuntu1

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1.119 libpam0g 1.1.1-4ubuntu1

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1.120 libpcap 1.6.2 :r0

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1.121 libpci3 1:3.1.7-4ubuntu2

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1.123 libpcre 8.38 :r09.1

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1.125 libplymouth2 0.8.2-2ubuntu5

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1.127 libpopt0 1.16-1

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1.128 libreadline6 6.1-3

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<ftp.gnu.org:/pub/gnu/readline/readline-6.0.tar.gz>.

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```
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1.131 libsemanage 2.4 :r0.1

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1.132 libsepol 2.4 :r0.1

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```

Motorolla 68020 20mhz, NetBSD

SSLey 0.9.0t 29-May-1998

built on Fri Jun 5 12:42:23 EST 1998

options:bn(64,32) md2(char) rc4(idx,int) des(idx,cisc,16,long) idea(int) blowfish(idx)

C flags:gcc -DTERMIOS -O3 -fomit-frame-pointer -Wall -DB_ENDIAN

The 'numbers' are in 1000s of bytes per second processed.

type	8 bytes	64 bytes	256 bytes	1024 bytes	8192 bytes
md2	2176.00	5994.67	8079.73	8845.18	9077.01
mdc2	5730.67	6122.67	6167.66	6176.51	6174.87
md5	29.10k	127.31k	209.66k	250.50k	263.99k
hmac(md5)	12.33k	73.02k	160.17k	228.04k	261.15k
sha1	11.27k	49.37k	84.31k	102.40k	109.23k
rmd160	11.69k	48.62k	78.76k	93.15k	98.41k
rc4	117.96k	148.94k	152.57k	153.09k	152.92k
des cbc	27.13k	30.06k	30.38k	30.38k	30.53k
des ede3	10.51k	10.94k	11.01k	11.01k	11.01k
idea cbc	26.74k	29.23k	29.45k	29.60k	29.74k
rc2 cbc	34.27k	39.39k	40.03k	40.07k	40.16k
rc5-32/12 cbc	64.31k	83.18k	85.70k	86.70k	87.09k
blowfish cbc	48.86k	59.18k	60.07k	60.42k	60.78k
cast cbc	42.67k	50.01k	50.86k	51.20k	51.37k

sign verify sign/s verify/s

rsa 512 bits	0.7738s	0.0774s	1.3	12.9
rsa 1024 bits	4.3967s	0.2615s	0.2	3.8
rsa 2048 bits	29.5200s	0.9664s	0.0	1.0

sign verify sign/s verify/s

dsa 512 bits	0.7862s	0.9709s	1.3	1.0
dsa 1024 bits	2.5375s	3.1625s	0.4	0.3
dsa 2048 bits	9.2150s	11.8200s	0.1	0.1

Pentium Pro 200mhz

FreeBSD 2.1.5

gcc 2.7.2.2

SSLey 0.7.0 30-Jan-1997

built on Tue Apr 22 12:14:36 EST 1997

options:bn(64,32) md2(int) rc4(idx,int) des(ptr,risc1,16,long) idea(int) blowfish(ptr2)

C flags:gcc -DTERMIOS -D_ANSI_SOURCE -fomit-frame-pointer -O3 -m486 -Wall

The 'numbers' are in 1000s of bytes per second processed.

type	8 bytes	64 bytes	256 bytes	1024 bytes	8192 bytes
md2	130.99k	367.68k	499.09k	547.04k	566.50k
md5	1924.98k	8293.50k	13464.41k	16010.39k	16820.68k
sha	1250.75k	5330.43k	8636.88k	10227.36k	10779.14k
sha1	1071.55k	4572.50k	7459.98k	8791.96k	9341.61k
rc4	10724.22k	14546.25k	15240.18k	15259.50k	15265.63k
des cbc	3309.11k	3883.01k	3968.25k	3971.86k	3979.14k
des ede3	1442.98k	1548.33k	1562.48k	1562.00k	1563.33k
idea cbc	2195.69k	2506.39k	2529.59k	2545.66k	2546.54k
rc2 cbc	806.00k	833.52k	837.58k	838.52k	836.69k
blowfish cbc	4687.34k	5949.97k	6182.43k	6248.11k	6226.09k
rsa 512 bits	0.010s				
rsa 1024 bits	0.045s				
rsa 2048 bits	0.260s				
rsa 4096 bits	1.690s				

1.137 libstdc++6 4.5.1-7ubuntu2

1.137.1 Available under license :

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Version 3, 29 June 2007

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1.138 libterm-readline-gnu-perl 1.20-1

1.138.1 Available under license :

Format-Specification: <http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135>

Maintainer: Hiroo Hayashi <hiroo.hayashi@computer.org>

Source: <http://search.cpan.org/dist/Term-ReadLine-Gnu/>

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1.139 libtext-charwidth-perl 0.04-6

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1.140 libtext-iconv-perl 1.7-2

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1.141 libtext-wrapi18n-perl 0.06-7

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1.142 libudev0 162-2

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1.143 libusb-0.1-4 2:0.1.12-15ubuntu2

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1.144 libusb1 1.0.19 :r0

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1.145 libuuid1 2.17.2-0ubuntu1

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size: 8388608, sector size: 512, PT: dos, offset: 446

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

size: 4456448, sector size: 512, PT: bsd, offset: 512

#1: 7936 4864 0x7
#2: 12544 3584 0x7

BZh91AY&SYf"~@H R h% CFTC@OQ6_@
tTJmlAH1ll/F0HA]BAk@

BZh91AY&SY`hC+{HlyL*UT{JDCCMhd?TPJ
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```

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This package was put together by Guy Maor <maor@debian.org> and later maintained by Sean 'Shaleh' Perry <shaleh@debian.org>, and Adrian Bunk <bunk@stusta.de>.

The current maintainer is LaMont Jones <lamont@debian.org>.

See also: [git://git.debian.org/~lamont/util-linux.git](https://git.debian.org/~lamont/util-linux.git)

It was downloaded from:

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Upstream maintainers include:

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1.146 libvirt 1.2.19 :r1

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1.147 libwrap0 7.6.q-19

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1.148 libx11 1.6.3 :r0

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1.149 libxau 1.0.8 :r0

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1.152 libxml2 2.9.2 :r0

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1.153 libyaml 0.1.6 :r0

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1.154 libyaml-perl 0.71-1

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Maintainer: Adam Kennedy <adamk@cpan.org>

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Firmware provided as part of an XC5000 Linux developers kit by Brian
Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@linuxtv.org>
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Version 3, 29 June 2007

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agere_sta_fw.bin -- 9.48 Hermes I

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Hope this helps.

Sincerely,

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Firmware provided by Patrick Boettcher <pboettcher@dibcom.fr> to Devin Heitmueller <dheitmueller@kernellabs.com> on October 8, 2009.

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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
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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

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
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...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>

for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

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Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the
TechnoTrend/Hauppage DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
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Ernst Peinlich <e.peinlich@inode.at>
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Peter Beutner <p.beutner@gmx.net>
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Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
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Jean-Francois Thibert <jeanfrancois@sagetv.com>
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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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Temple Place - Suite 330, Boston, MA 02111-1307, USA.

/* 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
*
*
*/

```

This is the Ubuntu prepackaged version of the Linux kernel.
Linux was written by Linus Torvalds <Linus.Torvalds@cs.Helsinki.FI>

and others.

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

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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1.157 linux-mvista 4.1+gitmv+1609092228 :r0

1.157.1 Available under license :

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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

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

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

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

```
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version 2 of the License, or (at your option) any later version.
```

```
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```
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```

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

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Thanks go to the following people for patches and contributions:

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for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
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

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

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for his AFC kernel thread

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Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

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for the tda1004x frontend driver, and various bugfixes

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for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the
TechnoTrend/Hauppage DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
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>
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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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/* 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.

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* 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.iovnt != 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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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
Original author of libsensors, sensors-detect, sensors and isadump.

* Merlin Hughes
Original author of sensord.

* Bob Schlaermann
Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.

* Mark M. Hoffman
Many improvements to the libsensors configuration file scanner.

* Jean Delvare
New libsensors API, and migration of sensors and sensord thereto.
Many optimizations in libsensors and sensors.

Configuration file converter.

Rewrite of sensors-detect.

Support for multiple configuration files in libsensors.

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1.164 lvm2 2.02.125 :r0

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```

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```
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```
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=====

```
/*
 * imap_gssapi.c is partially derived from sample code in:
 * GSS-API Programming Guide
 * Part No: 816-1331-11
 * Sun Microsystems, Inc. 4150 Network Circle Santa Clara, CA 95054 U.S.A.
 *
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```

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/*

* hmac.c is derived from:

Network Working Group H. Krawczyk
Request for Comments: 2104 IBM
Category: Informational M. Bellare
 UCSD
 R. Canetti
 IBM
 February 1997

 HMAC: Keyed-Hashing for Message Authentication

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Appendix -- Sample Code

=====

Parts of nss.c are derived from the Mozilla NSS 3.9.2 source,
mozilla/security/nss/cmd/smimertools/cmsutil.c. Therefore:

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Version 1.1

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1.166 makedev 2.3.1-89ubuntu1

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It was downloaded from ftp.redhat.com, as a source .rpm from the 5.1 release.

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No explicit copyright is asserted. Nick Holloway is the earliest author recorded in the sourcecode. I queried him for an explicit statement regarding the license status of this work, and this is his reply:

Date: Tue, 21 Jul 1998 19:57:10 +0100
From: Nick Holloway <Nick.Holloway@alfie.demon.co.uk>
Message-Id: <199807211857.TAA19068@alfie.demon.co.uk>
To: Bdale Garbee <bdale@gag.com>
Subject: Re: makedev license?

> I maintain the makedev package for Debian GNU/Linux. I am about to move
> from the ill-fated makedev-1.6 to the makedev-2.3.1 derived from your work
> by the folks at Redhat. I don't see any evidence of a copyright assertion
> or explicit license statement in the source. Your name appears to be the
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> with our Debian Free Software Guidelines, so I'd like an explicit statement.

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The more recent modifications were done by Michael K. Johnson at Redhat. I think the understanding was that he would be taking over the maintenance of MAKEDEV (our discussion took place last September).

The only previous history was (according to an old posting to comp.os.linux) that I started with Jim Winstead's script.

So, as far as I am concerned, it is consistent with the Debian FSG.

--

`O O' | Home: Nick.Holloway@alfie.demon.co.uk <http://www.alfie.demon.co.uk/>
// ^ \ | Work: Nick.Holloway@parallax.co.uk

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1.167 mawk 1.3.3-15ubuntu2

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```
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```

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```
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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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This package was put together by Chris Fearnley <cjf@netaxs.com>, from sources obtained from:
ftp://ftp.whidbey.net/pub/brennan/mawk1.3.3.tar.gz

It is currently being maintained by James Troup <james@nocrew.org>.

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1.168 module-init-tools 3.12-1ubuntu2

1.168.1 Available under license :

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```

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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1.169 modutils-initscripts 1.0 :r7.1

1.169.1 Available under license :

Public Domain

1.170 mount 2.17.2-0ubuntu1

1.170.1 Available under license :

size: 8388608, sector size: 512, PT: dos, offset: 446

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

size: 4456448, sector size: 512, PT: bsd, offset: 512

#1: 7936 4864 0x7
#2: 12544 3584 0x7

BZh91AY&SYf"~@H R h% CFTC@OQ6_@

tTJmlAH1l/F0HA]BAk@

BZh91AY&SY`hC+{HlyL*UT{JDCCMhd?TPJ

4b`'LLLD3Mf0h

4JM&hC&A

4h

P44OP4&FCFz}"{W ">CN

@JEBx=Q

\|%HFYP@R "o""U*R

}CbW"XZTK8o%"Z|\$!~9%m/cB7D4F"N7r;o2&HLP)9p}N^g~?<lm9Q@+CvT

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.172 ncurses 5.9 :r15.1.1

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-- vile: txtmode file-encoding=utf-8

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-- vile:txtmode fc=72
-- \$Id: COPYING,v 1.3 2015/01/03 20:12:01 tom Exp \$

1.173 ncurses-base 5.7+20100626-0ubuntu1

1.174 ncurses-bin 5.7+20100626-0ubuntu1

1.175 net-tools 1.60-23ubuntu3

1.175.1 Available under license :

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```
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```

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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.179 nettle 3.1.1 :r0.1

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- 1. Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
2. Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
3. Viraj Bais <vbais@mailman1.intel.com> and Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
4. Michael Barone <michael.barone@lmco.com> GPSVME fixes
5. Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca>IPv6 support
6. Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
11. Steve Clift <clift@ml.csiro.au> OMEGA clock driver
12. Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
13. Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
14. John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port

15. Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
16. Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
17. John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
18. Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
19. Mike Iglesias <iglesias@uci.edu> DEC Alpha port
20. Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
21. Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
22. Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or <H.Lambermont@chello.nl> ntpsweep
23. Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
24. Frank Kardel <kardel(at)ntp(dot)org> PARSE <GENERIC> driver (>14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
25. William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
26. Dave Katz <dkatz@cisco.com> RS/6000 AIX port
27. Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
28. George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
29. Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
30. Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
31. Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
32. David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWV/H, IRIG
33. Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
34. Jeffrey Mogul <mogul@pa.dec.com> ntpttrace utility
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36. Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
37. Derek Mulcahy <derek@toybox.demon.co.uk> and Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
38. Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
39. Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
40. Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
41. Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
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43. Ray Schnitzler <schnitz@unipress.com> Unixware1 port
44. Michael Shields <shields@tembel.org> USNO clock driver
45. Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
46. Harlan Stenn <harlan@pfc.com> GNU automake/autoconfigure

- makeover, various other bits (see the ChangeLog)
47. Kenneth Stone <ken@sdd.hp.com> HP-UX port
 48. Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
 49. Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
 50. Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
 51. Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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*                                     *  
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3. [3]Viraj Bais <vbais@mailman1.intel.com> and [4]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
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 51. [55]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
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Version 2.1, February 1999

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1.182 openssh-client 1:5.5p1-4ubuntu4

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1.183 openssh-server 1:5.5p1-4ubuntu4

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1.185 OpenSSL 1.0.2d :1

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1.186 OpenSSL 0.9.8j

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Pentium Pro 200mhz

FreeBSD 2.1.5

gcc 2.7.2.2

SSLLeay 0.7.0 30-Jan-1997

built on Tue Apr 22 12:14:36 EST 1997

options:bn(64,32) md2(int) rc4(idx,int) des(ptr,risc1,16,long) idea(int) blowfish(ptr2)

C flags:gcc -DTERMIOS -D_ANSI_SOURCE -fomit-frame-pointer -O3 -m486 -Wall

The 'numbers' are in 1000s of bytes per second processed.

type	8 bytes	64 bytes	256 bytes	1024 bytes	8192 bytes
md2	130.99k	367.68k	499.09k	547.04k	566.50k
md5	1924.98k	8293.50k	13464.41k	16010.39k	16820.68k
sha	1250.75k	5330.43k	8636.88k	10227.36k	10779.14k
sha1	1071.55k	4572.50k	7459.98k	8791.96k	9341.61k
rc4	10724.22k	14546.25k	15240.18k	15259.50k	15265.63k
des cbc	3309.11k	3883.01k	3968.25k	3971.86k	3979.14k
des ede3	1442.98k	1548.33k	1562.48k	1562.00k	1563.33k
idea cbc	2195.69k	2506.39k	2529.59k	2545.66k	2546.54k
rc2 cbc	806.00k	833.52k	837.58k	838.52k	836.69k
blowfish cbc	4687.34k	5949.97k	6182.43k	6248.11k	6226.09k
rsa 512 bits	0.010s				
rsa 1024 bits	0.045s				
rsa 2048 bits	0.260s				
rsa 4096 bits	1.690s				

Motorolla 68020 20mhz, NetBSD

SSLLeay 0.9.0t 29-May-1998

built on Fri Jun 5 12:42:23 EST 1998

options:bn(64,32) md2(char) rc4(idx,int) des(idx,cisc,16,long) idea(int) blowfish(idx)

C flags:gcc -DTERMIOS -O3 -fomit-frame-pointer -Wall -DB_ENDIAN

The 'numbers' are in 1000s of bytes per second processed.

type	8 bytes	64 bytes	256 bytes	1024 bytes	8192 bytes
md2	2176.00	5994.67	8079.73	8845.18	9077.01
mde2	5730.67	6122.67	6167.66	6176.51	6174.87
md5	29.10k	127.31k	209.66k	250.50k	263.99k
hmac(md5)	12.33k	73.02k	160.17k	228.04k	261.15k
sha1	11.27k	49.37k	84.31k	102.40k	109.23k
rmd160	11.69k	48.62k	78.76k	93.15k	98.41k
rc4	117.96k	148.94k	152.57k	153.09k	152.92k
des cbc	27.13k	30.06k	30.38k	30.38k	30.53k
des ede3	10.51k	10.94k	11.01k	11.01k	11.01k

idea cbc	26.74k	29.23k	29.45k	29.60k	29.74k
rc2 cbc	34.27k	39.39k	40.03k	40.07k	40.16k
rc5-32/12 cbc	64.31k	83.18k	85.70k	86.70k	87.09k
blowfish cbc	48.86k	59.18k	60.07k	60.42k	60.78k
cast cbc	42.67k	50.01k	50.86k	51.20k	51.37k

sign verify sign/s verify/s

rsa 512 bits 0.7738s 0.0774s 1.3 12.9

rsa 1024 bits 4.3967s 0.2615s 0.2 3.8

rsa 2048 bits 29.5200s 0.9664s 0.0 1.0

sign verify sign/s verify/s

dsa 512 bits 0.7862s 0.9709s 1.3 1.0

dsa 1024 bits 2.5375s 3.1625s 0.4 0.3

dsa 2048 bits 9.2150s 11.8200s 0.1 0.1

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1.189 opkg-utils 0.1.8+git0+53274f0875 :r0

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OSSP uuid - Universally Unique Identifier
Version 1.6.2 (04-Jul-2008)

ABSTRACT

OSSP uuid is a ISO-C:1999 application programming interface (API) and corresponding command line interface (CLI) for the generation of DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 compliant Universally Unique Identifier (UUID). It supports DCE 1.1 variant UUIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1 and Perl Data::UUID APIs.

UUIDs are 128 bit numbers which are intended to have a high likelihood of uniqueness over space and time and are computationally difficult to guess. They are globally unique identifiers which can be locally generated without contacting a global registration authority. UUIDs are intended as unique identifiers for both mass tagging objects with an extremely short lifetime and to reliably identifying very persistent objects across a network.

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This file is part of OSSP uuid, a library for the generation
of UUIDs which can found at <http://www.ossrp.org/pkg/lib/uuid/>

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HOME AND DOCUMENTATION

The documentation and latest release can be found on

- o <http://www.ossrp.org/pkg/lib/uuid/>
- o <ftp://ftp.ossrp.org/pkg/lib/uuid/>

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```

```
**
** uuid_md5.c: MD5 API implementation
*/
```

```
/* own headers (part 1/2) */
#include "uuid_ac.h"
```

```
/* system headers */
#include <stdlib.h>
#include <string.h>
```

```
/* own headers (part 2/2) */
#include "uuid_md5.h"
```

```
/*
* This is a RFC 1321 compliant Message Digest 5 (MD5) algorithm
* implementation. It is directly derived from the RSA code published in
* RFC 1321 with just the following functionality preserving changes:
* - converted function definitions from K&R to ANSI C
* - included contents of the "global.h" and "md5.h" headers
* - moved the SXX defines into the MD5Transform function
* - replaced MD5_memcpy() with memcpy(3) and MD5_memset() with memset(3)
* - renamed "index" variables to "idx" to avoid namespace conflicts
* - reformatted C style to conform with OSSP C style
* - added own OSSP style frontend API
*/
```

```
/*
** ===== BEGIN RFC 1321 CODE =====
*/
```

```
/*
* RSA Data Security, Inc., MD5 message-digest algorithm
* Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991.
* All rights reserved.
*
* License to copy and use this software is granted provided that it
* is identified as the "RSA Data Security, Inc. MD5 Message-Digest
* Algorithm" in all material mentioning or referencing this software
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```

* or this function.
*
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* documentation and/or software.
*/

/* POINTER defines a generic pointer type */
typedef unsigned char *POINTER;

/* UINT4 defines a four byte word */
#if SIZEOF_UNSIGNED_SHORT == 4
typedef unsigned short int  UINT4;
#elif SIZEOF_UNSIGNED_INT == 4
typedef unsigned int       UINT4;
#elif SIZEOF_UNSIGNED_LONG == 4
typedef unsigned long int  UINT4;
#elif SIZEOF_UNSIGNED_LONG_LONG == 4
typedef unsigned long long int UINT4;
#else
#error ERROR: unable to determine UINT4 type (four byte word)
#endif

/* MD5 context. */
typedef struct {
    UINT4 state[4];           /* state (ABCD) */
    UINT4 count[2];         /* number of bits, modulo 2^64 (lsb first) */
    unsigned char buffer[64]; /* input buffer */
} MD5_CTX;

/* prototypes for internal functions */
static void MD5Init   (MD5_CTX * _ctx);
static void MD5Update (MD5_CTX * _ctx, unsigned char *, unsigned int);
static void MD5Final  (unsigned char [], MD5_CTX *);
static void MD5Transform (UINT4 [], unsigned char []);
static void Encode    (unsigned char *, UINT4 *, unsigned int);
static void Decode    (UINT4 *, unsigned char *, unsigned int);

/* finalization padding */

```

```

static unsigned char PADDING[64] = {
0x80, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
};

/* F, G, H and I are basic MD5 functions. */
#define F(x, y, z) (((x) & (y)) | ((~x) & (z)))
#define G(x, y, z) (((x) & (z)) | ((y) & (~z)))
#define H(x, y, z) ((x) ^ (y) ^ (z))
#define I(x, y, z) ((y) ^ (x) | (~z))

/* ROTATE_LEFT rotates x left n bits. */
#define ROTATE_LEFT(x, n) (((x) << (n)) | ((x) >> (32-(n))))

/* FF, GG, HH, and II transformations for rounds 1, 2, 3, and 4.
Rotation is separate from addition to prevent recomputation. */
#define FF(a, b, c, d, x, s, ac) { \
(a) += F ((b), (c), (d)) + (x) + (UINT4)(ac); \
(a) = ROTATE_LEFT ((a), (s)); \
(a) += (b); \
}
#define GG(a, b, c, d, x, s, ac) { \
(a) += G ((b), (c), (d)) + (x) + (UINT4)(ac); \
(a) = ROTATE_LEFT ((a), (s)); \
(a) += (b); \
}
#define HH(a, b, c, d, x, s, ac) { \
(a) += H ((b), (c), (d)) + (x) + (UINT4)(ac); \
(a) = ROTATE_LEFT ((a), (s)); \
(a) += (b); \
}
#define II(a, b, c, d, x, s, ac) { \
(a) += I ((b), (c), (d)) + (x) + (UINT4)(ac); \
(a) = ROTATE_LEFT ((a), (s)); \
(a) += (b); \
}

/* MD5 initialization. Begins an MD5 operation, writing a new context. */
static void MD5Init(
    MD5_CTX *context)
{
    context->count[0] = context->count[1] = 0;

    /* Load magic initialization constants. */
    context->state[0] = 0x67452301;
    context->state[1] = 0xefcdab89;
    context->state[2] = 0x98badcfe;

```

```

context->state[3] = 0x10325476;
return;
}

/* MD5 block update operation. Continues an MD5 message-digest
operation, processing another message block, and updating the
context. */
static void MD5Update(
    MD5_CTX *context,          /* context */
    unsigned char *input,      /* input block */
    unsigned int inputLen)     /* length of input block */
{
    unsigned int i, idx, partLen;

    /* Compute number of bytes mod 64 */
    idx = (unsigned int)((context->count[0] >> 3) & 0x3F);

    /* Update number of bits */
    if ((context->count[0] += ((UINT4)inputLen << 3)) < ((UINT4)inputLen << 3))
        context->count[1]++;
    context->count[1] += ((UINT4)inputLen >> 29);

    partLen = (unsigned int)64 - idx;

    /* Transform as many times as possible. */
    if (inputLen >= partLen) {
        memcpy((POINTER)&context->buffer[idx], (POINTER)input, (size_t)partLen);
        MD5Transform(context->state, context->buffer);
        for (i = partLen; i + 63 < inputLen; i += 64)
            MD5Transform(context->state, &input[i]);
        idx = 0;
    }
    else
        i = 0;

    /* Buffer remaining input */
    memcpy((POINTER)&context->buffer[idx], (POINTER)&input[i], (size_t)(inputLen - i));
}

/* MD5 finalization. Ends an MD5 message-digest operation, writing the
the message digest and zeroizing the context. */
static void MD5Final(
    unsigned char digest[],    /* message digest */
    MD5_CTX *context)         /* context */
{
    unsigned char bits[8];
    unsigned int idx, padLen;

```



```

/* Save number of bits */
Encode(bits, context->count, 8);

/* Pad out to 56 mod 64. */
idx = (unsigned int)((context->count[0] >> 3) & 0x3f);
padLen = (idx < 56) ? ((unsigned int)56 - idx) : ((unsigned int)120 - idx);
MD5Update(context, PADDING, padLen);

/* Append length (before padding) */
MD5Update(context, bits, 8);

/* Store state in digest */
Encode(digest, context->state, 16);

/* Zeroize sensitive information. */
memset((POINTER)context, 0, sizeof(*context));
}

/* MD5 basic transformation. Transforms state based on block. */
static void MD5Transform(
    UINT4 state[],
    unsigned char block[])
{
    UINT4 a = state[0], b = state[1], c = state[2], d = state[3], x[16];

    Decode(x, block, 64);

    /* Round 1 */
#define S11 7
#define S12 12
#define S13 17
#define S14 22
    FF (a, b, c, d, x[ 0], S11, 0xd76aa478); /* 1 */
    FF (d, a, b, c, x[ 1], S12, 0xe8c7b756); /* 2 */
    FF (c, d, a, b, x[ 2], S13, 0x242070db); /* 3 */
    FF (b, c, d, a, x[ 3], S14, 0xc1bdceee); /* 4 */
    FF (a, b, c, d, x[ 4], S11, 0xf57c0faf); /* 5 */
    FF (d, a, b, c, x[ 5], S12, 0x4787c62a); /* 6 */
    FF (c, d, a, b, x[ 6], S13, 0xa8304613); /* 7 */
    FF (b, c, d, a, x[ 7], S14, 0xfd469501); /* 8 */
    FF (a, b, c, d, x[ 8], S11, 0x698098d8); /* 9 */
    FF (d, a, b, c, x[ 9], S12, 0x8b44f7af); /* 10 */
    FF (c, d, a, b, x[10], S13, 0xffff5bb1); /* 11 */
    FF (b, c, d, a, x[11], S14, 0x895cd7be); /* 12 */
    FF (a, b, c, d, x[12], S11, 0x6b901122); /* 13 */
    FF (d, a, b, c, x[13], S12, 0xfd987193); /* 14 */
    FF (c, d, a, b, x[14], S13, 0xa679438e); /* 15 */
    FF (b, c, d, a, x[15], S14, 0x49b40821); /* 16 */

```

```

/* Round 2 */
#define S21 5
#define S22 9
#define S23 14
#define S24 20
GG (a, b, c, d, x[ 1], S21, 0xf61e2562); /* 17 */
GG (d, a, b, c, x[ 6], S22, 0xc040b340); /* 18 */
GG (c, d, a, b, x[11], S23, 0x265e5a51); /* 19 */
GG (b, c, d, a, x[ 0], S24, 0xe9b6c7aa); /* 20 */
GG (a, b, c, d, x[ 5], S21, 0xd62f105d); /* 21 */
GG (d, a, b, c, x[10], S22, 0x2441453); /* 22 */
GG (c, d, a, b, x[15], S23, 0xd8a1e681); /* 23 */
GG (b, c, d, a, x[ 4], S24, 0xe7d3fbc8); /* 24 */
GG (a, b, c, d, x[ 9], S21, 0x21e1cde6); /* 25 */
GG (d, a, b, c, x[14], S22, 0xc33707d6); /* 26 */
GG (c, d, a, b, x[ 3], S23, 0xf4d50d87); /* 27 */
GG (b, c, d, a, x[ 8], S24, 0x455a14ed); /* 28 */
GG (a, b, c, d, x[13], S21, 0xa9e3e905); /* 29 */
GG (d, a, b, c, x[ 2], S22, 0xfcefa3f8); /* 30 */
GG (c, d, a, b, x[ 7], S23, 0x676f02d9); /* 31 */
GG (b, c, d, a, x[12], S24, 0x8d2a4c8a); /* 32 */

```

```

/* Round 3 */
#define S31 4
#define S32 11
#define S33 16
#define S34 23
HH (a, b, c, d, x[ 5], S31, 0xffffa3942); /* 33 */
HH (d, a, b, c, x[ 8], S32, 0x8771f681); /* 34 */
HH (c, d, a, b, x[11], S33, 0x6d9d6122); /* 35 */
HH (b, c, d, a, x[14], S34, 0xfde5380c); /* 36 */
HH (a, b, c, d, x[ 1], S31, 0xa4beea44); /* 37 */
HH (d, a, b, c, x[ 4], S32, 0x4bdecfa9); /* 38 */
HH (c, d, a, b, x[ 7], S33, 0xf6bb4b60); /* 39 */
HH (b, c, d, a, x[10], S34, 0xbefbfc70); /* 40 */
HH (a, b, c, d, x[13], S31, 0x289b7ec6); /* 41 */
HH (d, a, b, c, x[ 0], S32, 0xeaal27fa); /* 42 */
HH (c, d, a, b, x[ 3], S33, 0xd4ef3085); /* 43 */
HH (b, c, d, a, x[ 6], S34, 0x4881d05); /* 44 */
HH (a, b, c, d, x[ 9], S31, 0xd9d4d039); /* 45 */
HH (d, a, b, c, x[12], S32, 0xe6db99e5); /* 46 */
HH (c, d, a, b, x[15], S33, 0x1fa27cf8); /* 47 */
HH (b, c, d, a, x[ 2], S34, 0xc4ac5665); /* 48 */

```

```

/* Round 4 */
#define S41 6
#define S42 10

```

```

#define S43 15
#define S44 21
    II (a, b, c, d, x[ 0], S41, 0xf4292244); /* 49 */
    II (d, a, b, c, x[ 7], S42, 0x432aff97); /* 50 */
    II (c, d, a, b, x[14], S43, 0xab9423a7); /* 51 */
    II (b, c, d, a, x[ 5], S44, 0xfc93a039); /* 52 */
    II (a, b, c, d, x[12], S41, 0x655b59c3); /* 53 */
    II (d, a, b, c, x[ 3], S42, 0x8f0ccc92); /* 54 */
    II (c, d, a, b, x[10], S43, 0xffeff47d); /* 55 */
    II (b, c, d, a, x[ 1], S44, 0x85845dd1); /* 56 */
    II (a, b, c, d, x[ 8], S41, 0x6fa87e4f); /* 57 */
    II (d, a, b, c, x[15], S42, 0xfe2ce6e0); /* 58 */
    II (c, d, a, b, x[ 6], S43, 0xa3014314); /* 59 */
    II (b, c, d, a, x[13], S44, 0x4e0811a1); /* 60 */
    II (a, b, c, d, x[ 4], S41, 0xf7537e82); /* 61 */
    II (d, a, b, c, x[11], S42, 0xbd3af235); /* 62 */
    II (c, d, a, b, x[ 2], S43, 0x2ad7d2bb); /* 63 */
    II (b, c, d, a, x[ 9], S44, 0xeb86d391); /* 64 */

state[0] += a;
state[1] += b;
state[2] += c;
state[3] += d;

/* Zeroize sensitive information. */
memset((POINTER)x, 0, sizeof(x));
}

/* Encodes input (UINT4) into output (unsigned char).
Assumes len is a multiple of 4. */
static void Encode(
    unsigned char *output,
    UINT4 *input,
    unsigned int len)
{
    unsigned int i, j;

    for (i = 0, j = 0; j < len; i++, j += 4) {
        output[j] = (unsigned char)( input[i] & 0xff);
        output[j+1] = (unsigned char)((input[i] >> 8) & 0xff);
        output[j+2] = (unsigned char)((input[i] >> 16) & 0xff);
        output[j+3] = (unsigned char)((input[i] >> 24) & 0xff);
    }
    return;
}

/* Decodes input (unsigned char) into output (UINT4).
Assumes len is a multiple of 4. */

```

```

static void Decode(
    UINT4 *output,
    unsigned char *input,
    unsigned int len)
{
    unsigned int i, j;

    for (i = 0, j = 0; j < len; i++, j += 4)
        output[i] = ( (UINT4)input[j]
            | (((UINT4)input[j+1]) << 8 )
            | (((UINT4)input[j+2]) << 16)
            | (((UINT4)input[j+3]) << 24);
    return;
}

/*
** ===== END RFC 1321 CODE =====
*/

struct md5_st {
    MD5_CTX ctx;
};

md5_rc_t md5_create(md5_t **md5)
{
    if (md5 == NULL)
        return MD5_RC_ARG;
    if ((*md5 = (md5_t *)malloc(sizeof(md5_t))) == NULL)
        return MD5_RC_MEM;
    MD5Init(&((*md5)->ctx));
    return MD5_RC_OK;
}

md5_rc_t md5_init(md5_t *md5)
{
    if (md5 == NULL)
        return MD5_RC_ARG;
    MD5Init(&(md5->ctx));
    return MD5_RC_OK;
}

md5_rc_t md5_update(md5_t *md5, const void *data_ptr, size_t data_len)
{
    if (md5 == NULL)
        return MD5_RC_ARG;
    MD5Update(&(md5->ctx), (unsigned char *)data_ptr, (unsigned int)data_len);
    return MD5_RC_OK;
}

```

```

md5_rc_t md5_store(md5_t *md5, void **data_ptr, size_t *data_len)
{
    MD5_CTX ctx;

    if (md5 == NULL || data_ptr == NULL)
        return MD5_RC_ARG;
    if (*data_ptr == NULL) {
        if ((*data_ptr = malloc(MD5_LEN_BIN)) == NULL)
            return MD5_RC_MEM;
        if (data_len != NULL)
            *data_len = MD5_LEN_BIN;
    }
    else {
        if (data_len != NULL) {
            if (*data_len < MD5_LEN_BIN)
                return MD5_RC_MEM;
            *data_len = MD5_LEN_BIN;
        }
    }
    memcpy((void *)&ctx, (void *)&(md5->ctx), sizeof(MD5_CTX));
    MD5Final((unsigned char *)(*data_ptr), &(ctx));
    return MD5_RC_OK;
}

```

```

md5_rc_t md5_format(md5_t *md5, char **data_ptr, size_t *data_len)
{
    static const char hex[] = "0123456789abcdef";
    unsigned char buf[MD5_LEN_BIN];
    unsigned char *bufptr;
    size_t buflen;
    md5_rc_t rc;
    int i;

    if (md5 == NULL || data_ptr == NULL)
        return MD5_RC_ARG;
    if (*data_ptr == NULL) {
        if ((*data_ptr = (char *)malloc(MD5_LEN_STR+1)) == NULL)
            return MD5_RC_MEM;
        if (data_len != NULL)
            *data_len = MD5_LEN_STR+1;
    }
    else {
        if (data_len != NULL) {
            if (*data_len < MD5_LEN_STR+1)
                return MD5_RC_MEM;
            *data_len = MD5_LEN_STR+1;
        }
    }
}

```

```

}

bufptr = buf;
buflen = sizeof(buf);
if ((rc = md5_store(md5, (void **)((void *)&bufptr), &buflen)) != MD5_RC_OK)
    return rc;

for (i = 0; i < (int)buflen; i++) {
    (*data_ptr)[(i*2)+0] = hex[(int)(bufptr[i] >> 4)];
    (*data_ptr)[(i*2)+1] = hex[(int)(bufptr[i] & 0x0f)];
}
(*data_ptr)[(i*2)] = '\0';
return MD5_RC_OK;
}

md5_rc_t md5_destroy(md5_t *md5)
{
    if (md5 == NULL)
        return MD5_RC_ARG;
    free(md5);
    return MD5_RC_OK;
}

```

1.191 parted 3.2 :r1.2.3

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@c ispell-local-pdict: "ispell-dict"  
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1.193 pciutils 1:3.1.7-4ubuntu2

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1.194 perl 5.10.1-12ubuntu2

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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```

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<signature of Ty Coon>, 1 April 1989
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

1.195 perl 5.22.0 :r0.1

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The End

#!/perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut

```

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

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

my ($opt) = @ARGV;

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

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

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

done_testing;

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

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

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

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

    $year;
}

```

```

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

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

$year;
}

```

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Version 1, February 1989

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
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it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 1, or (at your option)  
any later version.
```

```
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```

```
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```

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```
Gnomovision version 69, Copyright (C) 19xx name of author
```

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

That's all there is to it!

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

abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."
build_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: <http://module-build.sourceforge.net/META-spec-v1.4.html>
version: 1.4
name: Module-Build
resources:
MailingList: <mailto:module-build@perl.org>
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repository: <http://github.com/dagolden/module-build/>
version: 3
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```

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

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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Julian Seward, jseward@bzip.org
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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```
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```

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```
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```

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

1.198 pixman 0.32.6 :r0

1.198.1 Available under license :

```
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 *
 * Author: Siarhei Siamashka (siarhei.siamashka@nokia.com)
 */

/*
 * This file contains a macro ('generate_composite_function') which can
 * construct 2D image processing functions, based on a common template.
 * Any combinations of source, destination and mask images with 8bpp,
 * 16bpp, 24bpp, 32bpp color formats are supported.
```

```

*
* This macro takes care of:
* - handling of leading and trailing unaligned pixels
* - doing most of the work related to L2 cache preload
* - encourages the use of software pipelining for better instructions
*   scheduling
*
* The user of this macro has to provide some configuration parameters
* (bit depths for the images, prefetch distance, etc.) and a set of
* macros, which should implement basic code chunks responsible for
* pixels processing. See 'pixman-arm-neon-asm.S' file for the usage
* examples.
*
* TODO:
* - try overlapped pixel method (from Ian Rickards) when processing
*   exactly two blocks of pixels
* - maybe add an option to do reverse scanline processing
*/

/*
* Bit flags for 'generate_composite_function' macro which are used
* to tune generated functions behavior.
*/
.set FLAG_DST_WRITEONLY,    0
.set FLAG_DST_READWRITE,   1
.set FLAG_DEINTERLEAVE_32BPP, 2

/*
* Offset in stack where mask and source pointer/stride can be accessed
* from 'init' macro. This is useful for doing special handling for solid mask.
*/
.set ARGS_STACK_OFFSET,    40

/*
* Constants for selecting preferable prefetch type.
*/
.set PREFETCH_TYPE_NONE,    0 /* No prefetch at all */
.set PREFETCH_TYPE_SIMPLE,  1 /* A simple, fixed-distance-ahead prefetch */
.set PREFETCH_TYPE_ADVANCED, 2 /* Advanced fine-grained prefetch */

/*
* Definitions of supplementary pixld/pixst macros (for partial load/store of
* pixel data).
*/

.macro pixldst1 op, elem_size, reg1, mem_operand, abits
.if abits > 0
    op.&elem_size {d&reg1}, [&mem_operand&, :&abits&]!

```

```

.else
    op&.&elem_size {d&reg1}, [&mem_operand&]!
.endif
.endm

.macro pixldst2 op, elem_size, reg1, reg2, mem_operand, abits
.if abits > 0
    op&.&elem_size {d&reg1, d&reg2}, [&mem_operand&, :&abits&]!
.else
    op&.&elem_size {d&reg1, d&reg2}, [&mem_operand&]!
.endif
.endm

.macro pixldst4 op, elem_size, reg1, reg2, reg3, reg4, mem_operand, abits
.if abits > 0
    op&.&elem_size {d&reg1, d&reg2, d&reg3, d&reg4}, [&mem_operand&, :&abits&]!
.else
    op&.&elem_size {d&reg1, d&reg2, d&reg3, d&reg4}, [&mem_operand&]!
.endif
.endm

.macro pixldst0 op, elem_size, reg1, idx, mem_operand, abits
    op&.&elem_size {d&reg1[idx]}, [&mem_operand&]!
.endm

.macro pixldst3 op, elem_size, reg1, reg2, reg3, mem_operand
    op&.&elem_size {d&reg1, d&reg2, d&reg3}, [&mem_operand&]!
.endm

.macro pixldst30 op, elem_size, reg1, reg2, reg3, idx, mem_operand
    op&.&elem_size {d&reg1[idx], d&reg2[idx], d&reg3[idx]}, [&mem_operand&]!
.endm

.macro pixldst numbytes, op, elem_size, basereg, mem_operand, abits
.if numbytes == 32
    pixldst4 op, elem_size, %(basereg+4), %(basereg+5), \
        %(basereg+6), %(basereg+7), mem_operand, abits
.elseif numbytes == 16
    pixldst2 op, elem_size, %(basereg+2), %(basereg+3), mem_operand, abits
.elseif numbytes == 8
    pixldst1 op, elem_size, %(basereg+1), mem_operand, abits
.elseif numbytes == 4
    .if !RESPECT_STRICT_ALIGNMENT || (elem_size == 32)
        pixldst0 op, 32, %(basereg+0), 1, mem_operand, abits
    .elseif elem_size == 16
        pixldst0 op, 16, %(basereg+0), 2, mem_operand, abits
        pixldst0 op, 16, %(basereg+0), 3, mem_operand, abits
    .else

```

```

    pixldst0 op, 8, %(basereg+0), 4, mem_operand, abits
    pixldst0 op, 8, %(basereg+0), 5, mem_operand, abits
    pixldst0 op, 8, %(basereg+0), 6, mem_operand, abits
    pixldst0 op, 8, %(basereg+0), 7, mem_operand, abits
    .endif
.elseif numbytes == 2
    .if !RESPECT_STRICT_ALIGNMENT || (elem_size == 16)
        pixldst0 op, 16, %(basereg+0), 1, mem_operand, abits
    .else
        pixldst0 op, 8, %(basereg+0), 2, mem_operand, abits
        pixldst0 op, 8, %(basereg+0), 3, mem_operand, abits
    .endif
.elseif numbytes == 1
    pixldst0 op, 8, %(basereg+0), 1, mem_operand, abits
.else
    .error "unsupported size: numbytes"
.endif
.endm

.macro pixld numpix, bpp, basereg, mem_operand, abits=0
.if bpp > 0
.if (bpp == 32) && (numpix == 8) && (DEINTERLEAVE_32BPP_ENABLED != 0)
    pixldst4 vld4, 8, %(basereg+4), %(basereg+5), \
        %(basereg+6), %(basereg+7), mem_operand, abits
.elseif (bpp == 24) && (numpix == 8)
    pixldst3 vld3, 8, %(basereg+3), %(basereg+4), %(basereg+5), mem_operand
.elseif (bpp == 24) && (numpix == 4)
    pixldst30 vld3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 4, mem_operand
    pixldst30 vld3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 5, mem_operand
    pixldst30 vld3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 6, mem_operand
    pixldst30 vld3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 7, mem_operand
.elseif (bpp == 24) && (numpix == 2)
    pixldst30 vld3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 2, mem_operand
    pixldst30 vld3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 3, mem_operand
.elseif (bpp == 24) && (numpix == 1)
    pixldst30 vld3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 1, mem_operand
.else
    pixldst %(numpix * bpp / 8), vld1, %(bpp), basereg, mem_operand, abits
.endif
.endif
.endif
.endm

.macro pixst numpix, bpp, basereg, mem_operand, abits=0
.if bpp > 0
.if (bpp == 32) && (numpix == 8) && (DEINTERLEAVE_32BPP_ENABLED != 0)
    pixldst4 vst4, 8, %(basereg+4), %(basereg+5), \
        %(basereg+6), %(basereg+7), mem_operand, abits
.elseif (bpp == 24) && (numpix == 8)

```

```

    pixldst3 vst3, 8, %(basereg+3), %(basereg+4), %(basereg+5), mem_operand
elseif (bpp == 24) && (numpix == 4)
    pixldst30 vst3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 4, mem_operand
    pixldst30 vst3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 5, mem_operand
    pixldst30 vst3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 6, mem_operand
    pixldst30 vst3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 7, mem_operand
elseif (bpp == 24) && (numpix == 2)
    pixldst30 vst3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 2, mem_operand
    pixldst30 vst3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 3, mem_operand
elseif (bpp == 24) && (numpix == 1)
    pixldst30 vst3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 1, mem_operand
else
    pixldst %(numpix * bpp / 8), vst1, %(bpp), basereg, mem_operand, abits
endif
endif
endm

```

```

.macro pixld_a numpix, bpp, basereg, mem_operand
.if (bpp * numpix) <= 128
    pixld numpix, bpp, basereg, mem_operand, %(bpp * numpix)
else
    pixld numpix, bpp, basereg, mem_operand, 128
endif
endm

```

```

.macro pixst_a numpix, bpp, basereg, mem_operand
.if (bpp * numpix) <= 128
    pixst numpix, bpp, basereg, mem_operand, %(bpp * numpix)
else
    pixst numpix, bpp, basereg, mem_operand, 128
endif
endm

```

```

/*
 * Pixel fetcher for nearest scaling (needs TMP1, TMP2, VX, UNIT_X register
 * aliases to be defined)
 */

```

```

.macro pixld1_s elem_size, reg1, mem_operand
.if elem_size == 16
    mov    TMP1, VX, asr #16
    adds  VX, VX, UNIT_X
5: subpls VX, VX, SRC_WIDTH_FIXED
    bpl   5b
    add   TMP1, mem_operand, TMP1, asl #1
    mov  TMP2, VX, asr #16
    adds VX, VX, UNIT_X
5: subpls VX, VX, SRC_WIDTH_FIXED
    bpl   5b

```



```

    add    TMP2, mem_operand, TMP2, asl #1
    vld1.16 {d&reg1&[0]}, [TMP1, :16]
    mov    TMP1, VX, asr #16
    adds  VX, VX, UNIT_X
5: subpls VX, VX, SRC_WIDTH_FIXED
    bpl   5b
    add    TMP1, mem_operand, TMP1, asl #1
    vld1.16 {d&reg1&[1]}, [TMP2, :16]
    mov    TMP2, VX, asr #16
    adds  VX, VX, UNIT_X
5: subpls VX, VX, SRC_WIDTH_FIXED
    bpl   5b
    add    TMP2, mem_operand, TMP2, asl #1
    vld1.16 {d&reg1&[2]}, [TMP1, :16]
    vld1.16 {d&reg1&[3]}, [TMP2, :16]
.elseif elem_size == 32
    mov    TMP1, VX, asr #16
    adds  VX, VX, UNIT_X
5: subpls VX, VX, SRC_WIDTH_FIXED
    bpl   5b
    add    TMP1, mem_operand, TMP1, asl #2
    mov    TMP2, VX, asr #16
    adds  VX, VX, UNIT_X
5: subpls VX, VX, SRC_WIDTH_FIXED
    bpl   5b
    add    TMP2, mem_operand, TMP2, asl #2
    vld1.32 {d&reg1&[0]}, [TMP1, :32]
    vld1.32 {d&reg1&[1]}, [TMP2, :32]
.else
    .error "unsupported"
.endif
.endm

.macro pixld2_s elem_size, reg1, reg2, mem_operand
.if 0 /* elem_size == 32 */
    mov    TMP1, VX, asr #16
    add    VX, VX, UNIT_X, asl #1
    add    TMP1, mem_operand, TMP1, asl #2
    mov    TMP2, VX, asr #16
    sub    VX, VX, UNIT_X
    add    TMP2, mem_operand, TMP2, asl #2
    vld1.32 {d&reg1&[0]}, [TMP1, :32]
    mov    TMP1, VX, asr #16
    add    VX, VX, UNIT_X, asl #1
    add    TMP1, mem_operand, TMP1, asl #2
    vld1.32 {d&reg2&[0]}, [TMP2, :32]
    mov    TMP2, VX, asr #16
    add    VX, VX, UNIT_X

```

```

    add    TMP2, mem_operand, TMP2, asl #2
    vld1.32 {d&reg1&[1]}, [TMP1, :32]
    vld1.32 {d&reg2&[1]}, [TMP2, :32]
.else
    pixld1_s elem_size, reg1, mem_operand
    pixld1_s elem_size, reg2, mem_operand
.endif
.endm

.macro pixld0_s elem_size, reg1, idx, mem_operand
.if elem_size == 16
    mov    TMP1, VX, asr #16
    adds  VX, VX, UNIT_X
5: subpls VX, VX, SRC_WIDTH_FIXED
    bpl   5b
    add    TMP1, mem_operand, TMP1, asl #1
    vld1.16 {d&reg1&[idx]}, [TMP1, :16]
.elseif elem_size == 32
    mov    TMP1, VX, asr #16
    adds  VX, VX, UNIT_X
5: subpls VX, VX, SRC_WIDTH_FIXED
    bpl   5b
    add    TMP1, mem_operand, TMP1, asl #2
    vld1.32 {d&reg1&[idx]}, [TMP1, :32]
.endif
.endm

.macro pixld_s_internal numbytes, elem_size, basereg, mem_operand
.if numbytes == 32
    pixld2_s elem_size, %(basereg+4), %(basereg+5), mem_operand
    pixld2_s elem_size, %(basereg+6), %(basereg+7), mem_operand
    pixdeinterleave elem_size, %(basereg+4)
.elseif numbytes == 16
    pixld2_s elem_size, %(basereg+2), %(basereg+3), mem_operand
.elseif numbytes == 8
    pixld1_s elem_size, %(basereg+1), mem_operand
.elseif numbytes == 4
    .if elem_size == 32
        pixld0_s elem_size, %(basereg+0), 1, mem_operand
    .elseif elem_size == 16
        pixld0_s elem_size, %(basereg+0), 2, mem_operand
        pixld0_s elem_size, %(basereg+0), 3, mem_operand
    .else
        pixld0_s elem_size, %(basereg+0), 4, mem_operand
        pixld0_s elem_size, %(basereg+0), 5, mem_operand
        pixld0_s elem_size, %(basereg+0), 6, mem_operand
        pixld0_s elem_size, %(basereg+0), 7, mem_operand
    .endif
.endif

```

```

.elseif numbytes == 2
  .if elem_size == 16
    pixld0_s elem_size, %(basereg+0), 1, mem_operand
  .else
    pixld0_s elem_size, %(basereg+0), 2, mem_operand
    pixld0_s elem_size, %(basereg+0), 3, mem_operand
  .endif
.elseif numbytes == 1
  pixld0_s elem_size, %(basereg+0), 1, mem_operand
.else
  .error "unsupported size: numbytes"
.endif
.endm

.macro pixld_s numpix, bpp, basereg, mem_operand
.if bpp > 0
  pixld_s_internal %(numpix * bpp / 8), %(bpp), basereg, mem_operand
.endif
.endm

.macro vuzp8 reg1, reg2
  vuzp.8 d&reg1, d&reg2
.endm

.macro vzip8 reg1, reg2
  vzip.8 d&reg1, d&reg2
.endm

/* deinterleave B, G, R, A channels for eight 32bpp pixels in 4 registers */
.macro pixdeinterleave bpp, basereg
.if (bpp == 32) && (DEINTERLEAVE_32BPP_ENABLED != 0)
  vuzp8 %(basereg+0), %(basereg+1)
  vuzp8 %(basereg+2), %(basereg+3)
  vuzp8 %(basereg+1), %(basereg+3)
  vuzp8 %(basereg+0), %(basereg+2)
.endif
.endm

/* interleave B, G, R, A channels for eight 32bpp pixels in 4 registers */
.macro pixinterleave bpp, basereg
.if (bpp == 32) && (DEINTERLEAVE_32BPP_ENABLED != 0)
  vzip8 %(basereg+0), %(basereg+2)
  vzip8 %(basereg+1), %(basereg+3)
  vzip8 %(basereg+2), %(basereg+3)
  vzip8 %(basereg+0), %(basereg+1)
.endif
.endm

```

```

/*
* This is a macro for implementing cache preload. The main idea is that
* cache preload logic is mostly independent from the rest of pixels
* processing code. It starts at the top left pixel and moves forward
* across pixels and can jump across scanlines. Prefetch distance is
* handled in an 'incremental' way: it starts from 0 and advances to the
* optimal distance over time. After reaching optimal prefetch distance,
* it is kept constant. There are some checks which prevent prefetching
* unneeded pixel lines below the image (but it still can prefetch a bit
* more data on the right side of the image - not a big issue and may
* be actually helpful when rendering text glyphs). Additional trick is
* the use of LDR instruction for prefetch instead of PLD when moving to
* the next line, the point is that we have a high chance of getting TLB
* miss in this case, and PLD would be useless.
*
* This sounds like it may introduce a noticeable overhead (when working with
* fully cached data). But in reality, due to having a separate pipeline and
* instruction queue for NEON unit in ARM Cortex-A8, normal ARM code can
* execute simultaneously with NEON and be completely shadowed by it. Thus
* we get no performance overhead at all (*). This looks like a very nice
* feature of Cortex-A8, if used wisely. We don't have a hardware prefetcher,
* but still can implement some rather advanced prefetch logic in software
* for almost zero cost!
*
* (*) The overhead of the prefetcher is visible when running some trivial
* pixels processing like simple copy. Anyway, having prefetch is a must
* when working with the graphics data.
*/
.macro PF a, x:vararg
.if (PREFETCH_TYPE_CURRENT == PREFETCH_TYPE_ADVANCED)
    a x
.endif
.endm

.macro cache_preload std_increment, boost_increment
.if (src_bpp_shift >= 0) || (dst_r_bpp != 0) || (mask_bpp_shift >= 0)
.if regs_shortage
    PF ldr ORIG_W, [sp] /* If we are short on regs, ORIG_W is kept on stack */
.endif
.if std_increment != 0
    PF add PF_X, PF_X, #std_increment
.endif
    PF tst PF_CTL, #0xF
    PF addne PF_X, PF_X, #boost_increment
    PF subne PF_CTL, PF_CTL, #1
    PF cmp PF_X, ORIG_W
.if src_bpp_shift >= 0
    PF pld, [PF_SRC, PF_X, lsl #src_bpp_shift]

```

```

.endif
.if dst_r_bpp != 0
    PF pld, [PF_DST, PF_X, lsl #dst_bpp_shift]
.endif
.if mask_bpp_shift >= 0
    PF pld, [PF_MASK, PF_X, lsl #mask_bpp_shift]
.endif
    PF subge PF_X, PF_X, ORIG_W
    PF subges PF_CTL, PF_CTL, #0x10
.if src_bpp_shift >= 0
    PF ldrgeb DUMMY, [PF_SRC, SRC_STRIDE, lsl #src_bpp_shift]!
.endif
.if dst_r_bpp != 0
    PF ldrgeb DUMMY, [PF_DST, DST_STRIDE, lsl #dst_bpp_shift]!
.endif
.if mask_bpp_shift >= 0
    PF ldrgeb DUMMY, [PF_MASK, MASK_STRIDE, lsl #mask_bpp_shift]!
.endif
.endif
.endm

```

```

.macro cache_preload_simple
.if (PREFETCH_TYPE_CURRENT == PREFETCH_TYPE_SIMPLE)
.if src_bpp > 0
    pld [SRC, #(PREFETCH_DISTANCE_SIMPLE * src_bpp / 8)]
.endif
.if dst_r_bpp > 0
    pld [DST_R, #(PREFETCH_DISTANCE_SIMPLE * dst_r_bpp / 8)]
.endif
.if mask_bpp > 0
    pld [MASK, #(PREFETCH_DISTANCE_SIMPLE * mask_bpp / 8)]
.endif
.endif
.endm

```

```

.macro fetch_mask_pixblock
    pixld    pixblock_size, mask_bpp, \
            (mask_basereg - pixblock_size * mask_bpp / 64), MASK
.endm

```

```

/*
* Macro which is used to process leading pixels until destination
* pointer is properly aligned (at 16 bytes boundary). When destination
* buffer uses 16bpp format, this is unnecessary, or even pointless.
*/

```

```

.macro ensure_destination_ptr_alignment process_pixblock_head, \
    process_pixblock_tail, \
    process_pixblock_tail_head

```

```

.if dst_w_bpp != 24
    tst    DST_R, #0xF
    beq    2f

.irp lowbit, 1, 2, 4, 8, 16
local skip1
.if (dst_w_bpp <= (lowbit * 8)) && ((lowbit * 8) < (pixblock_size * dst_w_bpp))
.if lowbit < 16 /* we don't need more than 16-byte alignment */
    tst    DST_R, #lowbit
    beq    1f
.endif
    pixld_src (lowbit * 8 / dst_w_bpp), src_bpp, src_basereg, SRC
    pixld    (lowbit * 8 / dst_w_bpp), mask_bpp, mask_basereg, MASK
.if dst_r_bpp > 0
    pixld_a  (lowbit * 8 / dst_r_bpp), dst_r_bpp, dst_r_basereg, DST_R
.else
    add     DST_R, DST_R, #lowbit
.endif
    PF add   PF_X, PF_X, #(lowbit * 8 / dst_w_bpp)
    sub     W, W, #(lowbit * 8 / dst_w_bpp)
1:
.endif
.endr

    pixdeinterleave src_bpp, src_basereg
    pixdeinterleave mask_bpp, mask_basereg
    pixdeinterleave dst_r_bpp, dst_r_basereg

    process_pixblock_head
    cache_preload 0, pixblock_size
    cache_preload_simple
    process_pixblock_tail

    pixinterleave dst_w_bpp, dst_w_basereg
.irp lowbit, 1, 2, 4, 8, 16
.if (dst_w_bpp <= (lowbit * 8)) && ((lowbit * 8) < (pixblock_size * dst_w_bpp))
.if lowbit < 16 /* we don't need more than 16-byte alignment */
    tst    DST_W, #lowbit
    beq    1f
.endif
    pixst_a  (lowbit * 8 / dst_w_bpp), dst_w_bpp, dst_w_basereg, DST_W
1:
.endif
.endr
.endif
2:
.endm

/*

```

```

* Special code for processing up to (pixblock_size - 1) remaining
* trailing pixels. As SIMD processing performs operation on
* pixblock_size pixels, anything smaller than this has to be loaded
* and stored in a special way. Loading and storing of pixel data is
* performed in such a way that we fill some 'slots' in the NEON
* registers (some slots naturally are unused), then perform compositing
* operation as usual. In the end, the data is taken from these 'slots'
* and saved to memory.
*
* cache_preload_flag - allows to suppress prefetch if
*                       set to 0
* dst_aligned_flag - selects whether destination buffer
*                   is aligned
*/
.macro process_trailing_pixels cache_preload_flag, \
                             dst_aligned_flag, \
                             process_pixblock_head, \
                             process_pixblock_tail, \
                             process_pixblock_tail_head
    tst    W, #(pixblock_size - 1)
    beq    2f
.irp chunk_size, 16, 8, 4, 2, 1
.if pixblock_size > chunk_size
    tst    W, #chunk_size
    beq    1f
    pixld_src  chunk_size, src_bpp, src_basereg, SRC
    pixld     chunk_size, mask_bpp, mask_basereg, MASK
.if dst_aligned_flag != 0
    pixld_a   chunk_size, dst_r_bpp, dst_r_basereg, DST_R
.else
    pixld     chunk_size, dst_r_bpp, dst_r_basereg, DST_R
.endif
.endif
.if cache_preload_flag != 0
    PF add   PF_X, PF_X, #chunk_size
.endif
1:
.endif
.endr

    pixdeinterleave src_bpp, src_basereg
    pixdeinterleave mask_bpp, mask_basereg
    pixdeinterleave dst_r_bpp, dst_r_basereg

    process_pixblock_head
.if cache_preload_flag != 0
    cache_preload 0, pixblock_size
    cache_preload_simple
.endif
    process_pixblock_tail

```

```

    pixinterleave dst_w_bpp, dst_w_basereg
.irp chunk_size, 16, 8, 4, 2, 1
.if pixblock_size > chunk_size
    tst    W, #chunk_size
    beq    1f
.if dst_aligned_flag != 0
    pixst_a    chunk_size, dst_w_bpp, dst_w_basereg, DST_W
.else
    pixst    chunk_size, dst_w_bpp, dst_w_basereg, DST_W
.endif
1:
.endif
.endr
2:
.endm

/*
 * Macro, which performs all the needed operations to switch to the next
 * scanline and start the next loop iteration unless all the scanlines
 * are already processed.
 */
.macro advance_to_next_scanline start_of_loop_label
.if regs_shortage
    ldrd    W, [sp] /* load W and H (width and height) from stack */
.else
    mov    W, ORIG_W
.endif
    add    DST_W, DST_W, DST_STRIDE, lsl #dst_bpp_shift
.if src_bpp != 0
    add    SRC, SRC, SRC_STRIDE, lsl #src_bpp_shift
.endif
.if mask_bpp != 0
    add    MASK, MASK, MASK_STRIDE, lsl #mask_bpp_shift
.endif
.if (dst_w_bpp != 24)
    sub    DST_W, DST_W, W, lsl #dst_bpp_shift
.endif
.if (src_bpp != 24) && (src_bpp != 0)
    sub    SRC, SRC, W, lsl #src_bpp_shift
.endif
.if (mask_bpp != 24) && (mask_bpp != 0)
    sub    MASK, MASK, W, lsl #mask_bpp_shift
.endif
    subs    H, H, #1
    mov    DST_R, DST_W
.if regs_shortage
    str    H, [sp, #4] /* save updated height to stack */
.endif

```



```

    bge    start_of_loop_label
.endm

/*
* Registers are allocated in the following way by default:
* d0, d1, d2, d3 - reserved for loading source pixel data
* d4, d5, d6, d7 - reserved for loading destination pixel data
* d24, d25, d26, d27 - reserved for loading mask pixel data
* d28, d29, d30, d31 - final destination pixel data for writeback to memory
*/
.macro generate_composite_function fname, \
    src_bpp_, \
    mask_bpp_, \
    dst_w_bpp_, \
    flags, \
    pixblock_size_, \
    prefetch_distance, \
    init, \
    cleanup, \
    process_pixblock_head, \
    process_pixblock_tail, \
    process_pixblock_tail_head, \
    dst_w_basereg_ = 28, \
    dst_r_basereg_ = 4, \
    src_basereg_ = 0, \
    mask_basereg_ = 24

    .func fname
    .global fname
    /* For ELF format also set function visibility to hidden */
#ifdef __ELF__
    .hidden fname
    .type fname, %function
#endif
fname:
    push    {r4-r12, lr}    /* save all registers */

/*
* Select prefetch type for this function. If prefetch distance is
* set to 0 or one of the color formats is 24bpp, SIMPLE prefetch
* has to be used instead of ADVANCED.
*/
    .set PREFETCH_TYPE_CURRENT, PREFETCH_TYPE_DEFAULT
    .if prefetch_distance == 0
    .set PREFETCH_TYPE_CURRENT, PREFETCH_TYPE_NONE
    .elseif (PREFETCH_TYPE_CURRENT > PREFETCH_TYPE_SIMPLE) && \
        ((src_bpp_ == 24) || (mask_bpp_ == 24) || (dst_w_bpp_ == 24))
    .set PREFETCH_TYPE_CURRENT, PREFETCH_TYPE_SIMPLE

```

```

.endif

/*
* Make some macro arguments globally visible and accessible
* from other macros
*/
.set src_bpp, src_bpp_
.set mask_bpp, mask_bpp_
.set dst_w_bpp, dst_w_bpp_
.set pixblock_size, pixblock_size_
.set dst_w_basereg, dst_w_basereg_
.set dst_r_basereg, dst_r_basereg_
.set src_basereg, src_basereg_
.set mask_basereg, mask_basereg_

.macro pixld_src x:vararg
    pixld x
.endm

.macro fetch_src_pixblock
    pixld_src pixblock_size, src_bpp, \
        (src_basereg - pixblock_size * src_bpp / 64), SRC
.endm

/*
* Assign symbolic names to registers
*/
W      .req    r0    /* width (is updated during processing) */
H      .req    r1    /* height (is updated during processing) */
DST_W  .req    r2    /* destination buffer pointer for writes */
DST_STRIDE .req    r3    /* destination image stride */
SRC     .req    r4    /* source buffer pointer */
SRC_STRIDE .req    r5    /* source image stride */
DST_R   .req    r6    /* destination buffer pointer for reads */

MASK    .req    r7    /* mask pointer */
MASK_STRIDE .req    r8    /* mask stride */

PF_CTL  .req    r9    /* combined lines counter and prefetch */
                /* distance increment counter */
PF_X    .req    r10   /* pixel index in a scanline for current */
                /* prefetch position */
PF_SRC  .req    r11   /* pointer to source scanline start */
                /* for prefetch purposes */
PF_DST  .req    r12   /* pointer to destination scanline start */
                /* for prefetch purposes */
PF_MASK .req    r14   /* pointer to mask scanline start */
                /* for prefetch purposes */

/*
* Check whether we have enough registers for all the local variables.

```

```

* If we don't have enough registers, original width and height are
* kept on top of stack (and 'regs_shortage' variable is set to indicate
* this for the rest of code). Even if there are enough registers, the
* allocation scheme may be a bit different depending on whether source
* or mask is not used.
*/
.if (PREFETCH_TYPE_CURRENT < PREFETCH_TYPE_ADVANCED)
    ORIG_W    .req    r10    /* saved original width */
    DUMMY     .req    r12    /* temporary register */
    .set      regs_shortage, 0
.elseif mask_bpp == 0
    ORIG_W    .req    r7     /* saved original width */
    DUMMY     .req    r8     /* temporary register */
    .set      regs_shortage, 0
.elseif src_bpp == 0
    ORIG_W    .req    r4     /* saved original width */
    DUMMY     .req    r5     /* temporary register */
    .set      regs_shortage, 0
.else
    ORIG_W    .req    r1     /* saved original width */
    DUMMY     .req    r1     /* temporary register */
    .set      regs_shortage, 1
.endif

    .set mask_bpp_shift, -1
.if src_bpp == 32
    .set src_bpp_shift, 2
.elseif src_bpp == 24
    .set src_bpp_shift, 0
.elseif src_bpp == 16
    .set src_bpp_shift, 1
.elseif src_bpp == 8
    .set src_bpp_shift, 0
.elseif src_bpp == 0
    .set src_bpp_shift, -1
.else
    .error "requested src bpp (src_bpp) is not supported"
.endif
.if mask_bpp == 32
    .set mask_bpp_shift, 2
.elseif mask_bpp == 24
    .set mask_bpp_shift, 0
.elseif mask_bpp == 8
    .set mask_bpp_shift, 0
.elseif mask_bpp == 0
    .set mask_bpp_shift, -1
.else
    .error "requested mask bpp (mask_bpp) is not supported"

```

```

.endif
.if dst_w_bpp == 32
    .set dst_bpp_shift, 2
.elseif dst_w_bpp == 24
    .set dst_bpp_shift, 0
.elseif dst_w_bpp == 16
    .set dst_bpp_shift, 1
.elseif dst_w_bpp == 8
    .set dst_bpp_shift, 0
.else
    .error "requested dst bpp (dst_w_bpp) is not supported"
.endif

.if (((flags) & FLAG_DST_READWRITE) != 0)
    .set dst_r_bpp, dst_w_bpp
.else
    .set dst_r_bpp, 0
.endif
.if (((flags) & FLAG_DEINTERLEAVE_32BPP) != 0)
    .set DEINTERLEAVE_32BPP_ENABLED, 1
.else
    .set DEINTERLEAVE_32BPP_ENABLED, 0
.endif

.if prefetch_distance < 0 || prefetch_distance > 15
    .error "invalid prefetch distance (prefetch_distance)"
.endif

.if src_bpp > 0
    ldr    SRC, [sp, #40]
.endif
.if mask_bpp > 0
    ldr    MASK, [sp, #48]
.endif
    PF mov    PF_X, #0
.if src_bpp > 0
    ldr    SRC_STRIDE, [sp, #44]
.endif
.if mask_bpp > 0
    ldr    MASK_STRIDE, [sp, #52]
.endif
    mov    DST_R, DST_W

.if src_bpp == 24
    sub    SRC_STRIDE, SRC_STRIDE, W
    sub    SRC_STRIDE, SRC_STRIDE, W, lsl #1
.endif
.if mask_bpp == 24

```

```

sub    MASK_STRIDE, MASK_STRIDE, W
sub    MASK_STRIDE, MASK_STRIDE, W, lsl #1
.endif
.if dst_w_bpp == 24
sub    DST_STRIDE, DST_STRIDE, W
sub    DST_STRIDE, DST_STRIDE, W, lsl #1
.endif

/*
 * Setup advanced prefetcher initial state
 */
PF mov  PF_SRC, SRC
PF mov  PF_DST, DST_R
PF mov  PF_MASK, MASK
/* PF_CTL = prefetch_distance | ((h - 1) << 4) */
PF mov  PF_CTL, H, lsl #4
PF add  PF_CTL, #(prefetch_distance - 0x10)

init
.if regs_shortage
push   {r0, r1}
.endif
subs   H, H, #1
.if regs_shortage
str    H, [sp, #4] /* save updated height to stack */
.else
mov    ORIG_W, W
.endif
blt    9f
cmp    W, #(pixblock_size * 2)
blt    8f
/*
 * This is the start of the pipelined loop, which if optimized for
 * long scanlines
 */
0:
ensure_destination_ptr_alignment process_pixblock_head, \
                                process_pixblock_tail, \
                                process_pixblock_tail_head

/* Implement "head (tail_head) ... (tail_head) tail" loop pattern */
pixld_a  pixblock_size, dst_r_bpp, \
         (dst_r_basereg - pixblock_size * dst_r_bpp / 64), DST_R
fetch_src_pixblock
pixld    pixblock_size, mask_bpp, \
         (mask_basereg - pixblock_size * mask_bpp / 64), MASK
PF add   PF_X, PF_X, #pixblock_size
process_pixblock_head

```

```

cache_preload 0, pixblock_size
cache_preload_simple
subs    W, W, #(pixblock_size * 2)
blt    2f
1:
process_pixblock_tail_head
cache_preload_simple
subs    W, W, #pixblock_size
bge    1b
2:
process_pixblock_tail
pixst_a  pixblock_size, dst_w_bpp, \
        (dst_w_basereg - pixblock_size * dst_w_bpp / 64), DST_W

/* Process the remaining trailing pixels in the scanline */
process_trailing_pixels 1, 1, \
        process_pixblock_head, \
        process_pixblock_tail, \
        process_pixblock_tail_head
advance_to_next_scanline 0b

.if regs_shortage
pop     {r0, r1}
.endif
cleanup
pop     {r4-r12, pc} /* exit */
/*
* This is the start of the loop, designed to process images with small width
* (less than pixblock_size * 2 pixels). In this case neither pipelining
* nor prefetch are used.
*/
8:
/* Process exactly pixblock_size pixels if needed */
tst    W, #pixblock_size
beq    1f
pixld  pixblock_size, dst_r_bpp, \
        (dst_r_basereg - pixblock_size * dst_r_bpp / 64), DST_R
fetch_src_pixblock
pixld  pixblock_size, mask_bpp, \
        (mask_basereg - pixblock_size * mask_bpp / 64), MASK
process_pixblock_head
process_pixblock_tail
pixst  pixblock_size, dst_w_bpp, \
        (dst_w_basereg - pixblock_size * dst_w_bpp / 64), DST_W
1:
/* Process the remaining trailing pixels in the scanline */
process_trailing_pixels 0, 0, \
        process_pixblock_head, \

```

```

                process_pixblock_tail, \
                process_pixblock_tail_head
    advance_to_next_scanline 8b
9:
.if regs_shortage
    pop    {r0, r1}
.endif
cleanup
    pop    {r4-r12, pc} /* exit */

.purgem  fetch_src_pixblock
.purgem  pixld_src

.unreq  SRC
.unreq  MASK
.unreq  DST_R
.unreq  DST_W
.unreq  ORIG_W
.unreq  W
.unreq  H
.unreq  SRC_STRIDE
.unreq  DST_STRIDE
.unreq  MASK_STRIDE
.unreq  PF_CTL
.unreq  PF_X
.unreq  PF_SRC
.unreq  PF_DST
.unreq  PF_MASK
.unreq  DUMMY
.endfunc
.endm

/*
* A simplified variant of function generation template for a single
* scanline processing (for implementing pixman combine functions)
*/
.macro generate_composite_function_scanline    use_nearest_scaling, \
                fname, \
                src_bpp_, \
                mask_bpp_, \
                dst_w_bpp_, \
                flags, \
                pixblock_size_, \
                init, \
                cleanup, \
                process_pixblock_head, \
                process_pixblock_tail, \
                process_pixblock_tail_head, \

```

```

dst_w_basereg_ = 28, \
dst_r_basereg_ = 4, \
src_basereg_ = 0, \
mask_basereg_ = 24

.func fname
.global fname
/* For ELF format also set function visibility to hidden */
#ifdef __ELF__
.hidden fname
.type fname, %function
#endif
fname:
.set PREFETCH_TYPE_CURRENT, PREFETCH_TYPE_NONE
/*
* Make some macro arguments globally visible and accessible
* from other macros
*/
.set src_bpp, src_bpp_
.set mask_bpp, mask_bpp_
.set dst_w_bpp, dst_w_bpp_
.set pixblock_size, pixblock_size_
.set dst_w_basereg, dst_w_basereg_
.set dst_r_basereg, dst_r_basereg_
.set src_basereg, src_basereg_
.set mask_basereg, mask_basereg_

.if use_nearest_scaling != 0
/*
* Assign symbolic names to registers for nearest scaling
*/
W .req r0
DST_W .req r1
SRC .req r2
VX .req r3
UNIT_X .req ip
MASK .req lr
TMP1 .req r4
TMP2 .req r5
DST_R .req r6
SRC_WIDTH_FIXED .req r7

.macro pixld_src x:vararg
pixld_s x
.endm

ldr UNIT_X, [sp]
push {r4-r8, lr}

```



```

ldr    SRC_WIDTH_FIXED, [sp, #(24 + 4)]
.if mask_bpp != 0
ldr    MASK, [sp, #(24 + 8)]
.endif
.else
/*
 * Assign symbolic names to registers
 */
W      .req    r0    /* width (is updated during processing) */
DST_W  .req    r1    /* destination buffer pointer for writes */
SRC     .req    r2    /* source buffer pointer */
DST_R  .req    ip    /* destination buffer pointer for reads */
MASK   .req    r3    /* mask pointer */

.macro pixld_src x:vararg
    pixld x
.endm
.endif

.if (((flags) & FLAG_DST_READWRITE) != 0)
.set dst_r_bpp, dst_w_bpp
.else
.set dst_r_bpp, 0
.endif
.if (((flags) & FLAG_DEINTERLEAVE_32BPP) != 0)
.set DEINTERLEAVE_32BPP_ENABLED, 1
.else
.set DEINTERLEAVE_32BPP_ENABLED, 0
.endif

.macro fetch_src_pixblock
    pixld_src    pixblock_size, src_bpp, \
                (src_basereg - pixblock_size * src_bpp / 64), SRC
.endm

init
mov    DST_R, DST_W

cmp    W, #pixblock_size
blt   8f

ensure_destination_ptr_alignment process_pixblock_head, \
                                process_pixblock_tail, \
                                process_pixblock_tail_head

subs   W, W, #pixblock_size
blt   7f

```

```

/* Implement "head (tail_head) ... (tail_head) tail" loop pattern */
pixld_a   pixblock_size, dst_r_bpp, \
          (dst_r_basereg - pixblock_size * dst_r_bpp / 64), DST_R
fetch_src_pixblock
pixld     pixblock_size, mask_bpp, \
          (mask_basereg - pixblock_size * mask_bpp / 64), MASK
process_pixblock_head
subs     W, W, #pixblock_size
blt     2f
1:
process_pixblock_tail_head
subs     W, W, #pixblock_size
bge     1b
2:
process_pixblock_tail
pixst_a   pixblock_size, dst_w_bpp, \
          (dst_w_basereg - pixblock_size * dst_w_bpp / 64), DST_W
7:
/* Process the remaining trailing pixels in the scanline (dst aligned) */
process_trailing_pixels 0, 1, \
                          process_pixblock_head, \
                          process_pixblock_tail, \
                          process_pixblock_tail_head

cleanup
.if use_nearest_scaling != 0
pop      {r4-r8, pc} /* exit */
.else
bx      lr /* exit */
.endif
8:
/* Process the remaining trailing pixels in the scanline (dst unaligned) */
process_trailing_pixels 0, 0, \
                          process_pixblock_head, \
                          process_pixblock_tail, \
                          process_pixblock_tail_head

cleanup

.if use_nearest_scaling != 0
pop      {r4-r8, pc} /* exit */

.unreq   DST_R
.unreq   SRC
.unreq   W
.unreq   VX
.unreq   UNIT_X
.unreq   TMP1

```

```

.unreq    TMP2
.unreq    DST_W
.unreq    MASK
.unreq    SRC_WIDTH_FIXED

.else
    bx     lr /* exit */

.unreq    SRC
.unreq    MASK
.unreq    DST_R
.unreq    DST_W
.unreq    W
.endif

.purgem   fetch_src_pixblock
.purgem   pixld_src

.endfunc
.endm

.macro generate_composite_function_single_scanline x:vararg
    generate_composite_function_scanline 0, x
.endm

.macro generate_composite_function_nearest_scanline x:vararg
    generate_composite_function_scanline 1, x
.endm

/* Default prologue/epilogue, nothing special needs to be done */

.macro default_init
.endm

.macro default_cleanup
.endm

/*
* Prologue/epilogue variant which additionally saves/restores d8-d15
* registers (they need to be saved/restored by callee according to ABI).
* This is required if the code needs to use all the NEON registers.
*/

.macro default_init_need_all_regs
    vpush    {d8-d15}
.endm

.macro default_cleanup_need_all_regs

```

```
vpop    {d8-d15}
```

```
.endm
```

```
/**/
```

```
/*
```

```
* Conversion of 8 r5g6b6 pixels packed in 128-bit register (in)  
* into a planar a8r8g8b8 format (with a, r, g, b color components  
* stored into 64-bit registers out_a, out_r, out_g, out_b respectively).
```

```
*
```

```
* Warning: the conversion is destructive and the original
```

```
* value (in) is lost.
```

```
*/
```

```
.macro convert_0565_to_8888 in, out_a, out_r, out_g, out_b
```

```
    vshrn.u16 out_r, in, #8
```

```
    vshrn.u16 out_g, in, #3
```

```
    vsli.u16 in, in, #5
```

```
    vmov.u8 out_a, #255
```

```
    vsri.u8 out_r, out_r, #5
```

```
    vsri.u8 out_g, out_g, #6
```

```
    vshrn.u16 out_b, in, #2
```

```
.endm
```

```
.macro convert_0565_to_x888 in, out_r, out_g, out_b
```

```
    vshrn.u16 out_r, in, #8
```

```
    vshrn.u16 out_g, in, #3
```

```
    vsli.u16 in, in, #5
```

```
    vsri.u8 out_r, out_r, #5
```

```
    vsri.u8 out_g, out_g, #6
```

```
    vshrn.u16 out_b, in, #2
```

```
.endm
```

```
/*
```

```
* Conversion from planar a8r8g8b8 format (with a, r, g, b color components
```

```
* in 64-bit registers in_a, in_r, in_g, in_b respectively) into 8 r5g6b6
```

```
* pixels packed in 128-bit register (out). Requires two temporary 128-bit
```

```
* registers (tmp1, tmp2)
```

```
*/
```

```
.macro convert_8888_to_0565 in_r, in_g, in_b, out, tmp1, tmp2
```

```
    vshll.u8 tmp1, in_g, #8
```

```
    vshll.u8 out, in_r, #8
```

```
    vshll.u8 tmp2, in_b, #8
```

```
    vsri.u16 out, tmp1, #5
```

```
    vsri.u16 out, tmp2, #11
```

```
.endm
```

```
/*
```

```
* Conversion of four r5g6b5 pixels (in) to four x8r8g8b8 pixels
```

```

* returned in (out0, out1) registers pair. Requires one temporary
* 64-bit register (tmp). 'out1' and 'in' may overlap, the original
* value from 'in' is lost
*/
.macro convert_four_0565_to_x888_packed in, out0, out1, tmp
    vshl.u16  out0, in,  #5 /* G top 6 bits */
    vshl.u16  tmp, in,  #11 /* B top 5 bits */
    vsri.u16  in, in,  #5 /* R is ready in top bits */
    vsri.u16  out0, out0, #6 /* G is ready in top bits */
    vsri.u16  tmp, tmp, #5 /* B is ready in top bits */
    vshr.u16  out1, in,  #8 /* R is in place */
    vsri.u16  out0, tmp, #8 /* G & B is in place */
    vzip.u16  out0, out1 /* everything is in place */
.endm

```

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no

1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.204 python-jsonschema 2.5.1 :r0

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1.205 python-netaddr 0.7.14 :r0

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1.206 python-pam 0.1.4 :r0

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```
from setuptools import setup, find_packages
import sys, os
```

```
version = '0.1.4'
```

```
setup(name='pam',
      version=version,
      description="PAM interface using ctypes",
      long_description=""\
```

```

An interface to the Pluggable Authentication Modules (PAM) library on linux, written in pure python (using
ctypes)"""
    classifiers=["Development Status :: 3 - Alpha",
               "Intended Audience :: Developers",
               "License :: OSI Approved :: MIT License",
               "Operating System :: POSIX :: Linux",
               "Operating System :: MacOS :: MacOS X",
               "Programming Language :: Python",
               "Topic :: Software Development :: Libraries :: Python Modules",
               "Topic :: System :: Systems Administration :: Authentication/Directory"
    ],
    keywords="",
    author='Chris AtLee',
    author_email='chris@atlee.ca',
    url='http://atlee.ca/software/pam',
    download_url = "http://atlee.ca/software/pam/dist/%s" % version,
    license='MIT',
    py_modules=["pam"],
    zip_safe=True,
    install_requires=[],
    entry_points="""
    # -*- Entry points: -*-
    """
)

```

1.207 python-psutil 2.2.1 :r0

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1.208 python-pyudev 0.16.1 :r0

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Version 2.1, February 1999

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1.209 python-pyyaml 3.11 :r0

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1.211 qemu 0.13.0

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/*

* USB UHCI controller emulation

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* Magor rewrite of the UHCI data structures parser and frame processor

* Support for fully async operation and multiple outstanding transactions

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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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Index: debug.c

```
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{
    if (DEBUG_TRACE()) {
-       x86emu_dump_regs();
+       if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+           x86emu_dump_xregs();
+       } else {
```

```

+   x86emu_dump_regs();
+ }
+ }
+   if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
+       printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
+       for (i=0; i< M.x86.enc_pos; i++) {
+           sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
+       }
-   printk("%-20s",buf1);
+   printk("%-20s ",buf1);
+ }

```

```
static void print_decoded_instruction (void)
```

```
Index: ops2.c
```

```
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
```

```
retrieving revision 1.1
```

```
retrieving revision 1.3
```

```
diff -u -r1.1 -r1.3
```

```
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
```

```
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
```

```
@@ -149,8 +149,69 @@
```

```

+   target += (s16) M.x86.R_IP;
+   DECODE_PRINTF2("%04x\n", target);
+   TRACE_AND_STEP();
-   if (cond)
+   if (cond) {
+       M.x86.R_IP = (u16)target;
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+   }
+   DECODE_CLEAR_SEGOVR();
+   END_OF_INSTR();
+ }
+
+ /*****
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+*****/
+ s32 x86emu_bswap(s32 reg)
+ {
+   // perform the byte swap
+   s32 temp = reg;
+   reg = (temp & 0xFF000000) >> 24;
+   reg |= (temp & 0xFF0000) >> 8;
+   reg |= (temp & 0xFF00) << 8;
+   reg |= (temp & 0xFF) << 24;
+   return reg;

```

```

+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+ /* byte swap 32 bit register */
+ START_OF_INSTR();
+ DECODE_PRINTF("BSWAP\t");
+ switch (op2) {
+ case 0xc8:
+ DECODE_PRINTF("EAX\n");
+ M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+ break;
+ case 0xc9:
+ DECODE_PRINTF("ECX\n");
+ M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+ break;
+ case 0xca:
+ DECODE_PRINTF("EDX\n");
+ M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+ break;
+ case 0xcb:
+ DECODE_PRINTF("EBX\n");
+ M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+ break;
+ case 0xcc:
+ DECODE_PRINTF("ESP\n");
+ M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+ break;
+ case 0xcd:
+ DECODE_PRINTF("EBP\n");
+ M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+ break;
+ case 0xce:
+ DECODE_PRINTF("ESI\n");
+ M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+ break;
+ case 0xcf:
+ DECODE_PRINTF("EDI\n");
+ M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
+ break;
+ }
+ TRACE_AND_STEP();
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
+ }
@@ -1702,14 +1763,14 @@
/* 0xc5 */ x86emuOp2_illegal_op,
/* 0xc6 */ x86emuOp2_illegal_op,

```



```

/* 0xc7 */ x86emuOp2_illegal_op,
-/* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
+/* 0xc8 */ x86emuOp2_bswap,
+/* 0xc9 */ x86emuOp2_bswap,
+/* 0xca */ x86emuOp2_bswap,
+/* 0xcb */ x86emuOp2_bswap,
+/* 0xcc */ x86emuOp2_bswap,
+/* 0xcd */ x86emuOp2_bswap,
+/* 0xce */ x86emuOp2_bswap,
+/* 0xcf */ x86emuOp2_bswap,

```

```

/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,

```

Index: ops.c

=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v

retrieving revision 1.1

diff -u -u -r1.1 ops.c

--- ops.c 7 Sep 2007 10:01:21 -0000 1.1

+++ ops.c 20 Mar 2008 16:52:00 -0000

@@ -1061,7 +1061,11 @@

```

    imm = (s8)fetch_byte_imm();
    DECODE_PRINTF2("PUSHt%d\n", imm);
    TRACE_AND_STEP();
-   push_word(imm);
+   if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       push_long(imm);
+   } else {
+       push_word(imm);
+   }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}

```

@@ -1256,8 +1260,10 @@

```

    target = (u16)(M.x86.R_IP + (s16)offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-   if (cond)
+   if (cond) {
        M.x86.R_IP = target;
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");

```

```

+ }
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
  count = 1;
  if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-   /* move them until CX is ZERO. */
-   count = M.x86.R_CX;
+   /* move them until (E)CX is ZERO. */
+   count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+   M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
  }
  while (count--) {
@@ -2526,6 +2534,8 @@
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
+   if (M.x86.intr & INTR_HALTED)
+     break;
  }
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
@@ -2559,9 +2569,11 @@
  count = 1;
  if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-   /* move them until CX is ZERO. */
-   count = M.x86.R_CX;
+   /* move them until (E)CX is ZERO. */
+   count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+   M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
  }
  while (count--) {
@@ -2574,6 +2586,8 @@
  }
  M.x86.R_SI += inc;
  M.x86.R_DI += inc;
+   if (M.x86.intr & INTR_HALTED)
+     break;
  }

```

```

    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2598,16 +2612,21 @@

    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val1 = fetch_data_byte(M.x86.R_SI);
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_byte(val1, val2);
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
            M.x86.R_DI += inc;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+           if (M.x86.intr & INTR_HALTED)
+           break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2644,8 +2663,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val1 = fetch_data_long(M.x86.R_SI);
                val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
@@ -2655,11 +2674,16 @@
                val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_word((u16)val1, (u16)val2);
            }
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
            M.x86.R_SI += inc;

```

```

    M.x86.R_DI += inc;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+   if (M.x86.intr & INTR_HALTED)
+       break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2741,11 +2765,16 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
+           if (M.x86.intr & INTR_HALTED)
+               break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2783,9 +2812,11 @@
        count = 1;
        if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
            /* dont care whether REPE or REPNE */
-           /* move them until CX is ZERO. */
-           count = M.x86.R_CX;
+           /* move them until (E)CX is ZERO. */
+           count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
            M.x86.R_CX = 0;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX = 0;
            M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
        }
        while (count--) {
@@ -2795,6 +2826,8 @@
            store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
        }
        M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;

```

```

    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2817,11 +2850,16 @@
    inc = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
+           if (M.x86.intr & INTR_HALTED)
+               break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2859,9 +2897,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+       if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2871,6 +2911,8 @@
        M.x86.R_AX = fetch_data_word(M.x86.R_SI);
    }
    M.x86.R_SI += inc;
+   if (M.x86.intr & INTR_HALTED)
+       break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2894,26 +2936,36 @@
    inc = 1;

```

```

if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
-   /* move them until CX is ZERO. */
-   while (M.x86.R_CX != 0) {
+   /* move them until (E)CX is ZERO. */
+   while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(M.x86.R_AL, val2);
-       M.x86.R_CX -= 1;
+       if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX -= 1;
+       else
+           M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF) == 0)
            break;
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
-   /* move them until CX is ZERO. */
-   while (M.x86.R_CX != 0) {
+   /* move them until (E)CX is ZERO. */
+   while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(M.x86.R_AL, val2);
-       M.x86.R_CX -= 1;
+       if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX -= 1;
+       else
+           M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF))
            break; /* zero flag set means equal */
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -2951,8 +3003,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */

```

```

+   while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+       if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+           val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
+           cmp_long(M.x86.R_EAX, val);
@@ -2960,16 +3012,21 @@
+           val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
+           cmp_word(M.x86.R_AX, (u16)val);
+       }
-       M.x86.R_CX -= 1;
+       if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX -= 1;
+       else
+           M.x86.R_CX -= 1;
+       M.x86.R_DI += inc;
+       if (ACCESS_FLAG(F_ZF) == 0)
+           break;
+       if (M.x86.intr & INTR_HALTED)
+           break;
+   }
+   M.x86.mode &= ~SYSMODE_PREFIX_REPE;
+ } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
+     /* REPNE */
-     /* move them until CX is ZERO. */
-     while (M.x86.R_CX != 0) {
+     /* move them until (E)CX is ZERO. */
+     while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+         if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+             val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
+             cmp_long(M.x86.R_EAX, val);
@@ -2977,10 +3034,15 @@
+             val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
+             cmp_word(M.x86.R_AX, (u16)val);
+         }
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+         else
+             M.x86.R_CX -= 1;
+         M.x86.R_DI += inc;
+         if (ACCESS_FLAG(F_ZF))
+             break; /* zero flag set means equal */
+         if (M.x86.intr & INTR_HALTED)
+             break;
+     }
+     M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
+ } else {
@@ -3238,9 +3300,9 @@
+     DECODE_PRINTF("RETt");

```

```

    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3254,9 +3316,9 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
    DECODE_PRINTF("RETFt");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETFn");
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();

```



```

- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+   M.x86.R_ECX -= 1;
+ else
+   M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4041,8 +4106,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+   M.x86.R_ECX -= 1;
+ else
+   M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4062,8 +4130,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0)
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+   M.x86.R_ECX -= 1;
+ else
+   M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0) /* (E)CX != 0 */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4085,8 +4156,10 @@
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
- if (M.x86.R_CX == 0)
+ if (M.x86.R_CX == 0) {
    M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");

```

```

+ }
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
  ip = (s16)fetch_word_imm();
  ip += (s16)M.x86.R_IP;
  DECODE_PRINTF2("%04x\n", ip);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
  TRACE_AND_STEP();
  M.x86.R_IP = (u16)ip;
  DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
  cs = fetch_word_imm();
  DECODE_PRINTF2("%04x:", cs);
  DECODE_PRINTF2("%04x\n", ip);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
  TRACE_AND_STEP();
  M.x86.R_IP = ip;
  M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
  offset = (s8)fetch_byte_imm();
  target = (u16)(M.x86.R_IP + offset);
  DECODE_PRINTF2("%x\n", target);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
  TRACE_AND_STEP();
  M.x86.R_IP = target;
  DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
  DECODE_PRINTF("REPNE\n");
  TRACE_AND_STEP();
  M.x86.mode |= SYSMODE_PREFIX_REPNE;
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+   M.x86.mode |= SYSMODE_32BIT_REP;
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
  DECODE_PRINTF("REPE\n");
  TRACE_AND_STEP();
  M.x86.mode |= SYSMODE_PREFIX_REPE;
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+   M.x86.mode |= SYSMODE_32BIT_REP;
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
  break;

```

```

case 4:    /* jmp word ptr ... */
    destval = fetch_data_word(destoffset);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
    TRACE_AND_STEP();
    M.x86.R_IP = destval;
    break;
case 5:    /* jmp far ptr ... */
    destval = fetch_data_word(destoffset);
    destval2 = fetch_data_word(destoffset + 2);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = destval;
    M.x86.R_CS = destval2;

```

Index: prim_ops.c

=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v

retrieving revision 1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1

+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3

@@ -1921,7 +1921,7 @@

void imul_long_direct(u32 *res_lo, u32* res_hi, u32 d, u32 s)

{

#ifdef __HAS_LONG_LONG__

- s64 res = (s64)d * (s64)s;

+ s64 res = (s64)(s32)d * (s64)(s32)s;

*res_lo = (u32)res;

*res_hi = (u32)(res >> 32);

@@ -2013,7 +2013,7 @@

void mul_long(u32 s)

{

#ifdef __HAS_LONG_LONG__

- u64 res = (u32)M.x86.R_EAX * (u32)s;

+ u64 res = (u64)M.x86.R_EAX * s;

M.x86.R_EAX = (u32)res;

M.x86.R_EDX = (u32)(res >> 32);

@@ -2312,16 +2312,15 @@

}

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {

/* dont care whether REPE or REPNE */

- /* in until CX is ZERO. */

- u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?

+ /* in until (E)CX is ZERO. */

+ u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?

M.x86.R_ECX : M.x86.R_CX);

```

-
while (count--) {
    single_in(size);
    M.x86.R_DI += inc;
}
M.x86.R_CX = 0;
- if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R_ECX = 0;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
- /* out until CX is ZERO. */
- u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+ /* out until (E)CX is ZERO. */
+ u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
    M.x86.R_ECX : M.x86.R_CX);
while (count--) {
    single_out(size);
    M.x86.R_SI += inc;
}
M.x86.R_CX = 0;
- if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R_ECX = 0;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

```

Index: sys.c

```
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
```

```
retrieving revision 1.1
```

```
retrieving revision 1.2
```

```
diff -u -u -r1.1 -r1.2
```

```
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
```

```
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
```

```
@@ -45,11 +45,6 @@
```

```
#include <x86emu/regs.h>
```

```
#include "debug.h"
```

```
#include "prim_ops.h"
```

```
ifndef LINUXBIOS_VERSION
```

```
include "io.h"
```

```
else
```

```
include <sys/io.h>
```

```
endif
```

```

#ifdef IN_MODULE
#include "xf86_ansi.h"
@@ -220,7 +215,7 @@
{
DB(if (DEBUG_IO_TRACE()))
printk("inb %#04x \n", addr);
- return inb(addr);
+ return 0;
}

/*****
@@ -235,7 +230,7 @@
{
DB(if (DEBUG_IO_TRACE()))
printk("inw %#04x \n", addr);
- return inw(addr);
+ return 0;
}

/*****
@@ -250,7 +245,7 @@
{
DB(if (DEBUG_IO_TRACE()))
printk("inl %#04x \n", addr);
- return inl(addr);
+ return 0;
}

/*****
@@ -264,7 +259,6 @@
{
DB(if (DEBUG_IO_TRACE()))
printk("outb %#02x -> %#04x \n", val, addr);
- outb(val, addr);
return;
}

@@ -279,7 +273,6 @@
{
DB(if (DEBUG_IO_TRACE()))
printk("outw %#04x -> %#04x \n", val, addr);
- outw(val, addr);
return;
}

@@ -295,7 +288,6 @@
DB(if (DEBUG_IO_TRACE()))
printk("outl %#08x -> %#04x \n", val, addr);

```

```
- outl(val, addr);
return;
}
```

```
@@ -405,6 +397,6 @@
```

```
void X86EMU_setMemBase(void *base, size_t size)
{
- M.mem_base = (int) base;
+ M.mem_base = (unsigned long) base;
  M.mem_size = size;
}
```

```
Index: include/x86emu/debug.h
```

```
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
```

```
retrieving revision 1.1
```

```
retrieving revision 1.4
```

```
diff -u -u -r1.1 -r1.4
```

```
--- include/x86emu/debug.h 7 Sep 2007 10:01:21 -0000 1.1
```

```
+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4
```

```
@@ -40,8 +40,6 @@
```

```
#ifndef __X86EMU_DEBUG_H
```

```
#define __X86EMU_DEBUG_H
```

```
 -//#define DEBUG 0
```

```
 -#undef DEBUG
```

```
 /*----- Macros and type definitions -----*/
```

```
 /* checks to be enabled for "runtime" */
```

```
@@ -78,6 +76,8 @@
```

```
# define DEBUG_SYSINT()      (M.x86.debug & DEBUG_SYSINT_F)
```

```
# define DEBUG_TRACECALL()  (M.x86.debug & DEBUG_TRACECALL_F)
```

```
# define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
```

```
+# define DEBUG_TRACEJMP()   (M.x86.debug & DEBUG_TRACEJMP_F)
```

```
+# define DEBUG_TRACEJMPREGS() (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
```

```
# define DEBUG_SYS()        (M.x86.debug & DEBUG_SYS_F)
```

```
# define DEBUG_MEM_TRACE()  (M.x86.debug & DEBUG_MEM_TRACE_F)
```

```
# define DEBUG_IO_TRACE()   (M.x86.debug & DEBUG_IO_TRACE_F)
```

```
@@ -96,6 +96,8 @@
```

```
# define DEBUG_SYSINT()      0
```

```
# define DEBUG_TRACECALL()   0
```

```
# define DEBUG_TRACECALLREGS() 0
```

```
+# define DEBUG_TRACEJMP()    0
```

```
+# define DEBUG_TRACEJMPREGS() 0
```

```
# define DEBUG_SYS()         0
```

```
# define DEBUG_MEM_TRACE()   0
```

```
# define DEBUG_IO_TRACE()    0
```

```

@@ -169,14 +171,20 @@
    x86emu_dump_regs();
    if (DEBUG_TRACECALL())
        printk("%04x:%04x: CALL %s%04x:%04x\n", u, v, s, w, x);
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
    if (DEBUG_TRACECALLREGS())
        x86emu_dump_regs();
    if (DEBUG_TRACECALL())
-   printk("%04x:%04x: %s\n",u,v,n);
+   printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define JMP_TRACE(u,v,w,x,s)
+   if (DEBUG_TRACEJMPREGS()) \
+       x86emu_dump_regs(); \
+   if (DEBUG_TRACEJMP()) \
+       printk("%04x:%04x: JMP %s%04x:%04x\n", u, v, s, w, x);
#else
# define CALL_TRACE(u,v,w,x,s)
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE 0x00000100
#define SYSMODE_PREFIX_DATA 0x00000200
#define SYSMODE_PREFIX_ADDR 0x00000400
+//phueper: for REP(E)NE Instructions, we need to decide whether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP 0x00000800
#define SYSMODE_INTR_PENDING 0x10000000
#define SYSMODE_EXTRN_INTR 0x20000000
#define SYSMODE_HALTED 0x40000000
@@ -250,7 +253,8 @@
    SYSMODE_SEGOVR_GS 1\
    SYSMODE_SEGOVR_SS 1\
    SYSMODE_PREFIX_DATA 1\
-   SYSMODE_PREFIX_ADDR)
+   SYSMODE_PREFIX_ADDR 1\

```

```

+   SYSMODE_32BIT_REP)

#define INTR_SYNCH      0x1
#define INTR_ASYNCH    0x2
@@ -274,9 +278,9 @@
    */
    u32          mode;
    volatile int  intr; /* mask of pending interrupts */
- int          debug;
+ volatile int  debug;
#ifdef DEBUG
- int          check;
+ int          check;
    u16         saved_ip;
    u16         saved_cs;
    int         enc_pos;
Index: include/x86emu/x86emu.h
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif

@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F 0x004000
#define DEBUG_DECODE_NOPRINT_F 0x008000
#define DEBUG_SAVE_IP_CS_F    0x010000
+#define DEBUG_TRACEJMP_F     0x020000
+#define DEBUG_TRACEJMP_REGS_F 0x040000
#define DEBUG_SYS_F          (DEBUG_SVC_FIDEBUG_FS_FIDEBUG_PROC_F)

void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#ifdef __cplusplus
}          /* End of "C" linkage for C++ */
#endif
-
#endif /* __X86EMU_X86EMU_H */

```


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```
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```

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-- Wolfgang Denk

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```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
```

```
Ty Coon, President of Vice
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```
/*
 * FreeBSD strace list
 *
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 */

{ TARGET_FREEBSD_NR__acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL
},
{ TARGET_FREEBSD_NR__acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_file, "__acl_delete_file", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_file, "__acl_set_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__sysctl, "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "__umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
```

```

{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap, "freebsd6_mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s(\"%s\", %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(%s\,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(%s\,%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(%s\,%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%#d,%s\,%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(%s\,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%#d,%#x,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(%s\,%#p,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(%s\,%s\)", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%#d,%#d,%#p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },

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```

{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },

```

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

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

which the executable runs, unless that component itself accompanies the executable.

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

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

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<one line to give the library's name and a brief idea of what it does.>

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

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use

this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Further thanks go to:

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

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

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

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```
=====
```

```
Test 1.1:101
```

```
=====
```

```
Testing argument parsing
```

```
First type
```

```
e1_11_1
```

```
e1_11_1
```

```
e1_11_2
```

```
e1_11_2
```

```
e1_11_3
```

```
e1_11_3
```

```
e1_11_4
```

```
e1_11_4
```

```
e1_11_5
```

```
e1_11_5
```

```
e1_11_6
```

```
e1_11_6
```

```
e1_11_7
```

```
e1_11_7
```

```
e1_11_8
```

```
e1_11_8
```

```
e1_11_9
```

```
e1_11_9
```

```
e1_11_10
```

```
e1_11_10
```

```
e1_11_11
```

```
e1_11_11
```

```
e1_11_12
```

```
e1_11_12
```

```
e1_11_13
```

```
e1_11_13
```

```
e1_11_14
```

```
e1_11_14
```

=====
Test 1.2:102
=====

e1_11_1
e1_11_2
e1_11_3
e1_11_4
e1_11_5
e1_11_6
e1_11_7
e1_11_8
e1_11_9
e1_11_10
e1_11_11
e1_11_12
e1_11_13
e1_11_14

=====
Test 1.3:103
=====

e1_11_1
e1_11_1
e1_11_2
e1_11_2
e1_11_3
e1_11_3
e1_11_4
e1_11_4
e1_11_5
e1_11_5
e1_11_6
e1_11_6
e1_11_7
e1_11_7
e1_11_8
e1_11_8
e1_11_9
e1_11_9
e1_11_10
e1_11_10
e1_11_11
e1_11_11
e1_11_12
e1_11_12
e1_11_13
e1_11_13

e1_11_14
e1_11_14

=====
Test 1.4:104

=====
e1_11_1
e1_11_2
e1_11_3
e1_11_4
e1_11_5
e1_11_6
e1_11_7
e1_11_8
e1_11_9
e1_11_10
e1_11_11
e1_11_12
e1_11_13
e1_11_14
Second type

=====
Test 1.4.1:105

=====
l1_1
l1_2
l1_3
l1_4
l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12
l1_13
l1_14

=====
Test 1.5:106

=====
s1_11_1
s1_11_1
s1_11_2
s1_11_2
s1_11_3

s1_11_3
s1_11_4
s1_11_4
s1_11_5
s1_11_5
s1_11_6
s1_11_6
s1_11_7
s1_11_7
s1_11_8
s1_11_8
s1_11_9
s1_11_9
s1_11_10
s1_11_10
s1_11_11
s1_11_11
s1_11_12
s1_11_12
s1_11_13
s1_11_13
s1_11_14
s1_11_14

=====
Test 1.6:107
=====

s1_11_1
s1_11_1
s1_11_2
s1_11_2
s1_11_3
s1_11_3
s1_11_4
s1_11_4
s1_11_5
s1_11_5
s1_11_6
s1_11_6
s1_11_7
s1_11_7
s1_11_8
s1_11_8
s1_11_9
s1_11_9
s1_11_10
s1_11_10
s1_11_11

s1_11_11
s1_11_12
s1_11_12
s1_11_13
s1_11_13
s1_11_14
s1_11_14

=====

Test 1.7:108

=====

e1_11_1
e1_11_1
e1_11_2
e1_11_2
e1_11_3
e1_11_3
e1_11_4
e1_11_4
e1_11_5
e1_11_5
e1_11_6
e1_11_6
e1_11_7
e1_11_7
e1_11_8
e1_11_8
e1_11_9
e1_11_9
e1_11_10
e1_11_10
e1_11_11
e1_11_11
e1_11_12
e1_11_12
e1_11_13
e1_11_13
e1_11_14
e1_11_14

=====

Test 1.8:109

=====

e1_11_1
e1_11_1
e1_11_2
e1_11_2
e1_11_3

e1_11_3
e1_11_4
e1_11_4
e1_11_5
e1_11_5
e1_11_6
e1_11_6
e1_11_7
e1_11_7
e1_11_8
e1_11_8
e1_11_9
e1_11_9
e1_11_10
e1_11_10
e1_11_11
e1_11_11
e1_11_12
e1_11_12
e1_11_13
e1_11_13
e1_11_14
e1_11_14

=====
Test 1.9:110
=====

s1_11_1
s1_11_2
s1_11_3
s1_11_4
s1_11_5
s1_11_6
s1_11_7
s1_11_8
s1_11_9
s1_11_10
s1_11_11
s1_11_12
s1_11_13
s1_11_14

=====
Test 1.10:111
=====

s1_11_1
s1_11_2
s1_11_3

s1_11_4
s1_11_5
s1_11_6
s1_11_7
s1_11_8
s1_11_9
s1_11_10
s1_11_11
s1_11_12
s1_11_13
s1_11_14

=====

Test 1.11:112

=====

e1_11_1
e1_11_2
e1_11_3
e1_11_4
e1_11_5
e1_11_6
e1_11_7
e1_11_8
e1_11_9
e1_11_10
e1_11_11
e1_11_12
e1_11_13
e1_11_14

=====

Test 1.12:113

=====

e1_11_1
e1_11_2
e1_11_3
e1_11_4
e1_11_5
e1_11_6
e1_11_7
e1_11_8
e1_11_9
e1_11_10
e1_11_11
e1_11_12
e1_11_13
e1_11_14

=====

Test 1.13:114

=====

e1_11_1
e2_e1_11_1
e2_e1_11_1
e1_11_2
e2_e1_11_2
e2_e1_11_2
e1_11_3
e2_e1_11_3
e2_e1_11_3
e1_11_4
e2_e1_11_4
e2_e1_11_4
e1_11_5
e2_e1_11_5
e2_e1_11_5
e1_11_6
e2_e1_11_6
e2_e1_11_6
e1_11_7
e2_e1_11_7
e2_e1_11_7
e1_11_8
e2_e1_11_8
e2_e1_11_8
e1_11_9
e2_e1_11_9
e2_e1_11_9
e1_11_10
e2_e1_11_10
e2_e1_11_10
e1_11_11
e2_e1_11_11
e2_e1_11_11
e1_11_12
e2_e1_11_12
e2_e1_11_12
e1_11_13
e2_e1_11_13
e2_e1_11_13
e1_11_14
e2_e1_11_14
e2_e1_11_14

=====

Test 1.14:115

=====

s1_11_1
s2_s1_11_1
s2_s1_11_1
s1_11_2
s2_s1_11_2
s2_s1_11_2
s1_11_3
s2_s1_11_3
s2_s1_11_3
s1_11_4
s2_s1_11_4
s2_s1_11_4
s1_11_5
s2_s1_11_5
s2_s1_11_5
s1_11_6
s2_s1_11_6
s2_s1_11_6
s1_11_7
s2_s1_11_7
s2_s1_11_7
s1_11_8
s2_s1_11_8
s2_s1_11_8
s1_11_9
s2_s1_11_9
s2_s1_11_9
s1_11_10
s2_s1_11_10
s2_s1_11_10
s1_11_11
s2_s1_11_11
s2_s1_11_11
s1_11_12
s2_s1_11_12
s2_s1_11_12
s1_11_13
s2_s1_11_13
s2_s1_11_13
s1_11_14
s2_s1_11_14
s2_s1_11_14

=====

Test 1.15:116

=====

e1_11_1

sl_e1_11_1
sl_e1_11_1
e1_11_2
sl_e1_11_2
sl_e1_11_2
e1_11_3
sl_e1_11_3
sl_e1_11_3
e1_11_4
sl_e1_11_4
sl_e1_11_4
e1_11_5
sl_e1_11_5
sl_e1_11_5
e1_11_6
sl_e1_11_6
sl_e1_11_6
e1_11_7
sl_e1_11_7
sl_e1_11_7
e1_11_8
sl_e1_11_8
sl_e1_11_8
e1_11_9
sl_e1_11_9
sl_e1_11_9
e1_11_10
sl_e1_11_10
sl_e1_11_10
e1_11_11
sl_e1_11_11
sl_e1_11_11
e1_11_12
sl_e1_11_12
sl_e1_11_12
e1_11_13
sl_e1_11_13
sl_e1_11_13
e1_11_14
sl_e1_11_14
sl_e1_11_14

=====

Test 1.16:117

=====

e1_11_1
e1_11_1
e1_11_2

e1_11_2
e1_11_3
e1_11_3
e1_11_4
e1_11_4
e1_11_5
e1_11_5
e1_11_6
e1_11_6
e1_11_7
e1_11_7
e1_11_8
e1_11_8
e1_11_9
e1_11_9
e1_11_10
e1_11_10
e1_11_11
e1_11_11
e1_11_12
e1_11_12
e1_11_13
e1_11_13
e1_11_14
e1_11_14
e1_11_1
e1_11_1
e1_11_2
e1_11_2
e1_11_3
e1_11_3
e1_11_4
e1_11_4
e1_11_5
e1_11_5
e1_11_6
e1_11_6
e1_11_7
e1_11_7
e1_11_8
e1_11_8
e1_11_9
e1_11_9
e1_11_10
e1_11_10
e1_11_11
e1_11_11
e1_11_12

e1_11_12
e1_11_13
e1_11_13
e1_11_14
e1_11_14

=====
Test 1.17:118

=====

11_1
11_1
11_2
11_2
11_3
11_3
11_4
11_4
11_5
11_5
11_6
11_6
11_7
11_7
11_8
11_8
11_9
11_9
11_10
11_10
11_11
11_11
11_12
11_12
11_13
11_13
11_14
11_14

=====
Test 1.18:119

=====

11_1
11_2
11_3
11_4
11_5
11_6
11_7

11_8

11_9

11_10

11_11

11_12

11_13

11_14

Testing address ranges

=====

Test 2.1:120

=====

11_4

=====

Test 2.2:121

=====

12_6

=====

Test 2.3:122

=====

11_14

=====

Test 2.4:123

=====

12_9

=====

Test 2.5:124

=====

=====

Test 2.6:125

=====

12_9

=====

Test 2.7:126

=====

=====

Test 2.9:127

=====

11_7

=====

Test 2.10:128

=====

11_7

=====

Test 2.11:129

=====

11_7

=====

Test 2.12:130

=====

11_1

11_2

11_3

11_4

=====

Test 2.13:131

=====

11_1

11_2

11_3

11_4

11_5

11_6

11_7

11_8

11_9

11_10

11_11

11_12

11_13

11_14

12_1

12_2

12_3

12_4

12_5

12_6

12_7

12_8

12_9

=====

Test 2.14:132

=====

11_1

11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9

=====
Test 2.15:133

=====
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9

=====

Test 2.16:134

=====

11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
12_1
12_2
12_3
12_4
12_5
12_6

=====

Test 2.17:135

=====

11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_14
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9

=====

Test 2.18:136

=====

12_3
12_4
12_5
12_6

l2_7

l2_8

l2_9

=====

Test 2.19:137

=====

l1_12

=====

Test 2.20:138

=====

l1_7

Brace and other grouping

=====

Test 3.1:139

=====

l1_1

l1_2

l1_3

^l1T4\$

^l1T5\$

^l1T6\$

^l1T7\$

^l1T8\$

^l1T9\$

^l1T10\$

^l1T11\$

^l1T12\$

l1_13

l1_14

=====

Test 3.2:140

=====

l1_1

l1_2

l1_3

^l1_4

^l1_5

^l1_6\$

^l1_7\$

^l1T8\$

^l1_9\$

^l1_10\$

^l1_11

^l1_12

ll_13

ll_14

=====

Test 3.3:141

=====

^llT1\$

^llT2\$

^llT3\$

ll_4

ll_5

ll_6

ll_7

ll_8

ll_9

ll_10

ll_11

ll_12

^llT13\$

^llT14\$

=====

Test 3.4:142

=====

^ll_1

^ll_2

^ll_3

ll_4

ll_5

ll_6

ll_7

ll_8

ll_9

ll_10

ll_11

ll_12

^ll_13

^ll_14

Testing a c d and i commands

=====

Test 4.1:143

=====

before_ll1_1

after_ibefore_ll1_1

before_ll1_2

after_ibefore_ll1_2

before_ll1_3

after_ibefore_il1_3
before_il1_4
after_ibefore_il1_4
before_il1_5
after_ibefore_il1_5
before_il1_6
after_ibefore_il1_6
before_il1_7
after_ibefore_il1_7
before_il1_8
after_ibefore_il1_8
before_il1_9
after_ibefore_il1_9
before_il1_10
after_ibefore_il1_10
before_il1_11
after_ibefore_il1_11
before_il1_12
after_ibefore_il1_12
before_il1_13
after_ibefore_il1_13
before_il1_14
after_ibefore_il1_14
before_il2_1
after_ibefore_il2_1
before_il2_2
after_ibefore_il2_2
before_il2_3
after_ibefore_il2_3
before_il2_4
after_ibefore_il2_4
before_il2_5
after_ibefore_il2_5
before_il2_6
inserted
after_ibefore_il2_6
before_il2_7
after_ibefore_il2_7
before_il2_8
after_ibefore_il2_8
before_il2_9
after_ibefore_il2_9

=====
Test 4.2:144
=====
before_all_1
after_abefore_all_1

before_al1_2
after_abefore_al1_2
before_al1_3
after_abefore_al1_3
before_al1_4
after_abefore_al1_4
before_a5-1211_5
after_abefore_a5-1211_5
appended
before_a5-1211_6
after_abefore_a5-1211_6
appended
before_a5-1211_7
after_abefore_a5-1211_7
appended
before_a5-1211_8
after_abefore_a5-1211_8
appended
before_a5-1211_9
after_abefore_a5-1211_9
appended
before_a5-1211_10
after_abefore_a5-1211_10
appended
before_a5-1211_11
after_abefore_a5-1211_11
appended
before_a5-1211_12
after_abefore_a5-1211_12
appended
before_al1_13
after_abefore_al1_13
before_al1_14
after_abefore_al1_14
before_al2_1
after_abefore_al2_1
before_al2_2
after_abefore_al2_2
before_al2_3
after_abefore_al2_3
before_al2_4
after_abefore_al2_4
before_al2_5
after_abefore_al2_5
before_al2_6
after_abefore_al2_6
before_al2_7
after_abefore_al2_7

before_al2_8
after_abefore_al2_8
before_al2_9
after_abefore_al2_9

=====
Test 4.3:145
=====

^I1_1
^I1_1\$
appended
^I1_2
^I1_2\$
appended
^I1_3
^I1_3\$
appended
^I1_4
^I1_4\$
appended
^I1_5
^I1_5\$
appended
^I1_6
^I1_6\$
appended
^I1_7
^I1_7\$
appended
^I1_8
appended
^I1_8
I1_9\$
^I1_10
appended
^I1_10
I1_11\$
^I1_12
^I1_12\$
appended
^I1_13
^I1_13\$
appended
^I1_14
^I1_14\$
appended
^I2_1
^I2_1\$

^I2_2
^I2_2\$
^I2_3
^I2_3\$
^I2_4
^I2_4\$
^I2_5
^I2_5\$
^I2_6
^I2_6\$
^I2_7
^I2_7\$
^I2_8
^I2_8\$
^I2_9
^I2_9\$

=====
Test 4.4:146

=====
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello

=====
Test 4.5:147

=====
hello

=====
Test 4.6:148

=====
hello

=====
Test 4.7:149

hello

=====

Test 4.8:150

=====

Testing labels and branching

=====

Test 5.1:151

=====

label2_11_1

label3_label2_11_1

label1_11_2

label1_11_3

label1_11_4

label1_11_5

label1_11_6

label1_11_7

label1_11_8

label1_11_9

label1_11_10

label1_11_11

label1_11_12

label2_11_13

label3_label2_11_13

label2_11_14

label3_label2_11_14

=====

Test 5.2:152

=====

tested l2_1

tested l2_2

tested l2_3

tested l2_4

tested l2_5

tested l2_6

tested l2_7

tested l2_8

tested l2_9

tested l2_10

tested l2_11

tested l2_12

tested l2_13

tested l2_14

=====

Test 5.3:153


```
=====
^I1_1
^I1_1$
^I1_2
^I1_2$
^I1_3
^I1_3$
^I1_4
^I1_4$
I1_5$
I1_6$
I1_7$
I1_8$
```

```
=====
Test 5.4:154
```

```
=====
^I1_1$
^I1_2$
^I1_3$
^I1_4$
^I1_5$
^I1_6$
^I1_7$
^I1_8$
I1_9$
I1_10$
I1_11$
I1_12$
I1_13$
I1_14$
```

```
=====
Test 5.5:155
```

```
=====
^I1_1
^I1_2
^I1_4
^I1_6
^I1_8
```

```
=====
Test 5.6:156
```

```
=====
I1_1
I1_2
I1_3
I1_4
```

l1_5

=====

Test 5.7:157

=====

l1_1

l1_2

l1_3

l1_4

hello

l1_5

=====

Test 5.8:158

=====

m1_1

m1_2

m1_3

m1_4

m1_5

m1_6

m1_7

m1_8

m1_9

m1_10

m1_11

m1_12

m1_13

m1_14

Pattern space commands

=====

Test 6.1:159

=====

changed

changed

changed

changed

changed

changed

changed

changed

changed

changed

changed

changed

changed

changed

=====
Test 6.2:160
=====

11_1
11_2
11_3
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

=====
Test 6.3:161
=====

11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

=====
Test 6.4:162
=====

11_1
11_2
11_3
11_2
11_3
11_5
11_2
11_3
11_2
11_3
11_6
11_6
11_7

11_8
11_9
11_10
11_11
11_12
11_13
11_14

=====

Test 6.5:163

=====

11_1
11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

=====

Test 6.6:164

=====

Testing print and file routines

=====

Test 7.1:165

=====

\001\002\003\004\005\006\ab\t\$\n\nr\016\017\020\021\022\023\024\025\026\027\030\031\032\033\034\n035\036\037 !"#%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNPOQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~\177\200\201\202\203\204\205\n206\207\210\211\212\213\214\215\216\217\220\221\222\223\224\225\226\n227\230\231\232\233\234\235\236\237\240\241\242\243\244\245\246\247\n250\251\252\253\254\255\256\257\260\261\262\263\264\265\266\267\270\n271\272\273\274\275\276\277\300\301\302\303\304\305\306\307\310\311\n312\313\314\315\316\317\320\321\322\323\324\325\326\327\330\331\332\n333\334\335\336\337\340\341\342\343\344\345\346\347\350\351\352\353\n354\355\356\357\360\361\362\363\364\365\366\367\370\371\372\373\374\n375\376\377\$\n\$\n\$

=====

Test 7.2:166

=====

11_1

11_2

11_3

11_4

11_5

11_6

11_7

11_8

11_9

11_10

11_11

11_12

11_13

11_14

15

12_1

16

12_2

17

12_3

18

12_4

19

12_5

20

12_6

21

12_7

22

12_8

23

12_9

=====

Test 7.3:167

=====

11_1

11_2

11_3

11_4

11_5

11_6

11_7

11_8

11_9

11_10
11_11
11_12
11_13
11_14
w results
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12

=====
Test 7.4:168

=====
11_1
11_2
11_3
11_4
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

=====
Test 7.5:169

=====
11_1

11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

=====

Test 7.6:170

=====

11_1
11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

=====

Test 7.8:171

=====

Testing substitution commands

=====

Test 8.1:172

=====

XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX

XXXX
XXXX
XXXXXX
XXXXXX
XXXXXX
XXXXXX
XXXXXX

=====
Test 8.2:173

=====
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXXXX
XXXXXX
XXXXXX
XXXXXX
XXXXXX

=====
Test 8.3:174

=====
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXXXX
XXXXXX
XXXXXX
XXXXXX
XXXXXX

=====
Test 8.4:175

=====
11_1

11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

=====
Test 8.5:176

=====
11X1
11X2
11X3
11X4
11X5
11X6
11X7
11X8
11X9
11X10
11X11
11X12
11X13
11X14

=====
Test 8.6:177

=====
(I)(1)(_(1)
(I)(1)(_(2)
(I)(1)(_(3)
(I)(1)(_(4)
(I)(1)(_(5)
(I)(1)(_(6)
(I)(1)(_(7)
(I)(1)(_(8)
(I)(1)(_(9)
(I)(1)(_(1)(0)
(I)(1)(_(1)(1)
(I)(1)(_(1)(2)
(I)(1)(_(1)(3)

(l)(1)()(1)(4)

=====

Test 8.7:178

=====

(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)(&)
(&)(&)(&)(&)(&)
(&)(&)(&)(&)(&)
(&)(&)(&)(&)(&)
(&)(&)(&)(&)(&)
(&)(&)(&)(&)(&)

=====

Test 8.8:179

=====

x_x1x11
x_x1x12
x_x1x13
x_x1x14
x_x1x15
x_x1x16
x_x1x17
x_x1x18
x_x1x19
x_x1x110
x_x1x111
x_x1x112
x_x1x113
x_x1x114

=====

Test 8.9:180

=====

l1u0
u1
u21
l1u0
u1
u22
l1u0

u1
u23
llu0
u1
u24
llu0
u1
u25
llu0
u1
u26
llu0
u1
u27
llu0
u1
u28
llu0
u1
u29
llu0
u1
u210
llu0
u1
u211
llu0
u1
u212
llu0
u1
u213
llu0
u1
u214

=====

Test 8.10:181

=====

ll_X
ll_X
ll_X
ll_X
ll_X
ll_X
ll_X
ll_X
ll_X

II_X0
II_X1
II_X2
II_X3
II_X4

=====
Test 8.11:182

=====

IX_1
IX_2
IX_3
IX_4
IX_5
IX_6
IX_7
IX_8
IX_9
IX_10
IX_11
IX_12
IX_13
IX_14

s wfile results

IX_1
IX_2
IX_3
IX_4
IX_5
IX_6
IX_7
IX_8
IX_9
IX_10
IX_11
IX_12
IX_13
IX_14

=====
Test 8.12:183

=====

IX_X
IX_X
IX_X
IX_4
IX_5
IX_6

IX_7
IX_8
IX_9
IX_X0
IX_XX
IX_XX
IX_XX
IX_X4

=====
Test 8.13:184

=====
18_8
18_7
18_6
18_5
18_4
18_3
18_2
18_1
18_0
18_89
18_88
18_87
18_86
18_85

=====
Test 8.14:185

=====
18_8
18_7
18_6
18_5
18_4
18_3
18_2
18_1
18_0
18_89
18_88
18_87
18_86
18_85

=====
Test 8.15:186

11_1X11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

=====

Test 8.16:187

=====

eeefff
Xeefff
XYefff
XYeYff
XYeYYf
XYeYYY
XYeYYY

=====

Test 8.17:188

=====

&&&&
&&&&
&&&&
&&&&
&&&&
&&&&
&&&&
&&&&
&&&&
&&&&
&&&&&
&&&&&
&&&&&
&&&&&
&&&&&

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1.221 smartmontools 6.4 :r0.2

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1.223 ssh 1:5.5p1-4ubuntu4

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It is split out from the main package to isolate the dependency on the Gnome and X11 libraries.

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```
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**
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**
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- 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

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*

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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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*
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*
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.225 sysv-rc 2.87dsf-4ubuntu18

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```

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1.226 sysvinit 2.88dsf :r14.21

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script

* in C (faster - it is executed many times during system startup).

*

* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,

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1.228 sysvinit-utils 2.87dsf-4ubuntu18

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Init was written by Miquel van Smoorenburg <miquels@cistron.nl>.

This package was first put together by Bruce Perens <Bruce@Pixar.com> from pre-distribution sources. Ian Murdock <imurdock@debian.org> integrated it into the base system maintained it until the end of 1995. Miquel van Smoorenburg <miquels@cistron.nl> implemented Debian support. In version 2.85 the package was split into three (sysvinit, sysv-rc, and initscripts) in order to make room for alternative rc mechanisms.

The upstream source is available at:

Primary-Site: `ftp.cistron.nl/pub/people/miquels/software`
92K `sysvinit-2.86.tar.gz`
Alternate-Site: `sunsite.unc.edu/pub/Linux/system/daemons/init`
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1.230 tcp-wrappers 7.6 :r10

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1.232 tuncctl 1.5 :r0

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```
/* Copyright 2002 Jeff Dike
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 */
```

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <errno.h>
#include <fcntl.h>
#include <unistd.h>
#include <pwd.h>
#include <grp.h>
#include <net/if.h>
#include <sys/ioctl.h>
#include <linux/if_tun.h>
```

```
/* TUNSETGROUP appeared in 2.6.23 */
#ifdef TUNSETGROUP
```

```

#define TUNSETGROUP _IOW('T', 206, int)
#endif

static void Usage(char *name)
{
    fprintf(stderr, "Create: %s [-b] [-u owner] [-g group] [-t device-name] "
        "[-pl-n] [-f tun-clone-device]\n", name);
    fprintf(stderr, "Delete: %s -d device-name [-f tun-clone-device]\n\n",
        name);
    fprintf(stderr, "The default tun clone device is /dev/net/tun - some systems"
        " use\n/dev/misc/net/tun instead\n\n");
    fprintf(stderr, "-b will result in brief output (just the device name)\n");
    fprintf(stderr, "-n will result in a point-to-point tun device.\n");
    fprintf(stderr, "-p in an ethernet tap device. Default is a tap.\n");
    fprintf(stderr, " except the device contains \"tun\" in the name.\n");
    exit(1);
}

int main(int argc, char **argv)
{
    struct ifreq ifr;
    struct passwd *pw;
    struct group *gr;
    uid_t owner = -1;
    gid_t group = -1;
    int tap_fd, opt, delete = 0, brief = 0, type = 0;
    char *tun = "", *file = "/dev/net/tun", *name = argv[0], *end;

    while((opt = getopt(argc, argv, "bd:f:npt:u:g:h")) > 0){
        switch(opt) {
            case 'b':
                brief = 1;
                break;
            case 'd':
                delete = 1;
                tun = optarg;
                break;
            case 'f':
                file = optarg;
                break;
            case 'p':
                if(type != 0)
                    Usage(name);
                type = IFF_TAP;
                break;
            case 'n':
                if(type != 0)
                    Usage(name);

```

```

    type = IFF_TUN;
    break;
case 'u':
pw = getpwnam(optarg);
if(pw != NULL){
    owner = pw->pw_uid;
    break;
}
    owner = strtol(optarg, &end, 0);
if(*end != '\0'){
    fprintf(stderr, "%s' is neither a username nor a numeric uid.\n",
    optarg);
    Usage(name);
}
    break;
case 'g':
gr = getgrnam(optarg);
if(gr != NULL){
    group = gr->gr_gid;
    break;
}
    group = strtol(optarg, &end, 0);
if(*end != '\0'){
    fprintf(stderr, "%s' is neither a groupname nor a numeric group.\n",
    optarg);
    Usage(name);
}
    break;

case 't':
    tun = optarg;
    break;
case '?':
case 'h':
default:
    Usage(name);
}
}

argv += optind;
argc -= optind;

if(argc > 0)
    Usage(name);

if((tap_fd = open(file, O_RDWR)) < 0){
    fprintf(stderr, "Failed to open '%s' : ", file);
    perror("");
}

```



```

    exit(1);
}

if(type == 0) {
    type = strstr(tun, "tun") ? IFF_TUN : IFF_TAP;
}

memset(&ifr, 0, sizeof(ifr));

ifr.ifr_flags = type | IFF_NO_PI;
strncpy(ifr.ifr_name, tun, sizeof(ifr.ifr_name) - 1);
if(ioctl(tap_fd, TUNSETIFF, (void *) &ifr) < 0){
    perror("TUNSETIFF");
    exit(1);
}

if(delete){
    if(ioctl(tap_fd, TUNSETPERSIST, 0) < 0){
        perror("disabling TUNSETPERSIST");
        exit(1);
    }
    printf("Set '%s' nonpersistent\n", ifr.ifr_name);
}
else {
    /* emulate behaviour prior to TUNSETGROUP */
    if(owner == -1 && group == -1) {
        owner = geteuid();
    }

    if(owner != -1) {
        if(ioctl(tap_fd, TUNSETOWNER, owner) < 0){
            perror("TUNSETOWNER");
            exit(1);
        }
    }
    if(group != -1) {
        if(ioctl(tap_fd, TUNSETGROUP, group) < 0){
            perror("TUNSETGROUP");
            exit(1);
        }
    }

    if(ioctl(tap_fd, TUNSETPERSIST, 1) < 0){
        perror("enabling TUNSETPERSIST");
        exit(1);
    }

    if(brief)

```

```

    printf("%s\n", ifr.ifr_name);
else {
    printf("Set '%s' persistent and owned by", ifr.ifr_name);
    if(owner != -1)
        printf(" uid %d", owner);
    if(group != -1)
        printf(" gid %d", group);
    printf("\n");
}
}
return(0);
}

```

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Version 2.1, February 1999

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```

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1.236 update-rc.d 0.7 :r5

1.236.1 Available under license :

```
#!/bin/sh
#
# update-rc.d Update the links in /etc/rc[0-9S].d/
#
# (c) 2003, 2004 Phil Blundell <pb@handhelds.org>
#
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initd="/etc/init.d"
etcd="/etc/rc"
notreally=0
force=0
dostart=0
verbose=0

usage()
{
cat >&2 <<EOF
usage: update-rc.d [-n] [-f] [-r <root>] <basename> remove
      update-rc.d [-n] [-r <root>] [-s] <basename> defaults [NN | sNN kNN]
      update-rc.d [-n] [-r <root>] [-s] <basename> start|stop NN run|vl [run|vl] [...] .
-n: not really
-f: force
-v: verbose
-r: alternate root path (default is /)
-s: invoke start methods if appropriate to current runlevel
EOF
}

checklinks()
{
local i dn fn remove=0
if [ "x$1" = "xremove" ]; then
echo " Removing any system startup links for $bn ..."
remove=1
}
```

```

fi

for i in 0 1 2 3 4 5 6 7 8 9 S; do
dn="${etcd}${i}.d"
if [ ! -d $dn ]; then
continue;
fi
for f in ${dn}/[SK]??${bn}; do
if [ -L $f ]; then
if [ $remove -eq 0 ]; then
return 1
fi
echo " $f"
if [ $notreally -eq 1 ]; then
continue
fi
rm $f
fi
done
done

return 0
}

dolink()
{
startstop=$1
lev=`echo $2 | cut -d/ -f1`
nn=`echo $2 | cut -d/ -f2`
fn="${etcd}${lev}.d/${startstop}${nn}${bn}"
[ $verbose -eq 1 ] && echo " $fn -> ./init.d/$bn"
if [ $notreally -eq 0 ]; then
mkdir -p `dirname $fn`
ln -s ./init.d/$bn $fn
fi
if [ $dostart -eq 1 ] && [ $startstop = "S" ] && [ $lev = $RUNLEVEL ]; then
$fn start || true
fi
}

makelinks()
{
if ! checklinks; then
echo " System startup links for $initd/$bn already exist."
if [ $dostart -eq 1 ] && [ $notreally -eq 0 ] && [ -L ${etcd}${RUNLEVEL}.d/S??${bn} ]; then
${etcd}${RUNLEVEL}.d/S??${bn} restart || true
fi
exit 0
}

```

```

fi

echo " Adding system startup for $initd/$bn."

for i in $startlinks; do
  dolink S $i
done
for i in $stoplinks; do
  dolink K $i
done
}

while [ $# -gt 0 ]; do
case $1 in
-n) notreally=1
  shift
  continue
  ;;
-v) verbose=1
  shift
  continue
  ;;
-f) force=1
  shift
  continue
  ;;
-s) dostart=1
  shift
  continue
  ;;
-r)  shift
  root=$1
  initd="{root}${initd}"
  etcd="{root}${etcd}"
  shift
  ;;
-h | --help)
  usage
  exit 0
  ;;
-*)
  usage
  exit 1
  ;;
*)
  break
  ;;
esac

```

```

done

if [ $# -lt 2 ]; then
usage
exit 1
fi

bn=$1
shift

sn=$initd/$bn
if [ -L "$sn" -a -n "$root" ]; then
if which readlink >/dev/null; then
while true; do
linksn="$(readlink "$sn")"
if [ -z "$linksn" ]; then
break
fi

sn="$linksn"
case "$sn" in
/*) sn="$root$sn" ;;
*) sn="$initd/$sn" ;;
esac
done
else
echo "update-rc.d: readlink tool not present, cannot check whether \
$sn symlink points to a valid file." >&2
fi
fi

if [ $1 != "remove" ]; then
if [ ! -f "$sn" ]; then
echo "update-rc.d: $initd/$bn: file does not exist" >&2
exit 1
fi
else
if [ -f "$sn" ]; then
if [ $force -eq 1 ]; then
echo "update-rc.d: $initd/$bn exists during rc.d purge (continuing)" >&2
else
echo "update-rc.d: $initd/$bn exists during rc.d purge (use -f to force)" >&2
exit 1
fi
fi
fi

if [ $dostart -eq 1 ]; then

```

```

#RUNLEVEL=`sed 's/.*\[\(.*\)\]/\1/' < /proc/1/cmdline`
RUNLEVEL=`runlevel | cut -d" " -f2`
if [ "x$RUNLEVEL" = "x" ]; then
    echo "Unable to determine current runlevel" >&2
    exit 1
fi
fi

case $1 in
remove)
    checklinks "remove"
    ;;

defaults)
    if [ $# -gt 3 ]; then
        echo "defaults takes only one or two arguments" >&2
        usage
        exit 1
    fi
    start=20
    stop=20
    if [ $# -gt 1 ]; then
        start=$2
        stop=$2
    fi
    if [ $# -gt 2 ]; then
        stop=$3
    fi
    start=`printf %02d $start`
    stop=`printf %02d $stop`
    stoplinks="0/$stop 1/$stop 6/$stop"
    startlinks="2/$start 3/$start 4/$start 5/$start"
    makelinks
    ;;

start | stop)
    while [ $# -gt 0 ]; do
        if [ $1 = "start" ]; then
            letter=S
        elif [ $1 = "stop" ]; then
            letter=K
        else
            echo "expected start or stop" >&2
            usage
            exit 1
        fi
        shift
        NN=`printf %02d $(expr $1 + 0)`

```

```

shift
while [ "x$1" != "x." ]; do
if [ $# -eq 0 ]; then
    echo "action with list of runlevels not terminated by \." >&2
    exit 1
fi
level=$1
shift
case $letter in
    S) startlinks="$startlinks $level/$NN" ;;
    K) stoplinks="$stoplinks $level/$NN" ;;
    esac
done
shift
done
makelinks
;;

*)
usage
exit 1
;;
esac

```

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Version 2, June 1991

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1.237 upstart 0.6.6-3

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```
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```
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<signature of Ty Coon>, 1 April 1990
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1.241 util-linux 2.17.2-0ubuntu1

1.241.1 Available under license :

size: 8388608, sector size: 512, PT: dos, offset: 446

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

size: 4456448, sector size: 512, PT: bsd, offset: 512

#1: 7936 4864 0x7
#2: 12544 3584 0x7
BZh91AY&SYf"~@H R h% CFTC@OQ6_@
tTJmlAH1ll/F0HA]BAk@
BZh91AY&SY`hC+{HlyL*UT{JDCCMhd?TPJ
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<bunk@stusta.de>.

The current maintainer is LaMont Jones <lamont@debian.org>.
See also: [git://git.debian.org/~lamont/util-linux.git](https://git.debian.org/~lamont/util-linux.git)

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1.242 util-linux 2.26.2 :r0.3

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Initialize empty image

`f1c9645dbc14efddc7d8a322685f26eb` `bsd.img`

Create new DOS partition table

`57e721e38d1266c2df055067c18f2cf9` `bsd.img`

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

Create 1st primary partition

`ada64ace122978d00d1d1c0e5ee45d26` `bsd.img`

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

Device	Boot	Start	End	Sectors	Size	Id	Type
<removed>1		2048	4095	2048	1M	83	Linux

```
Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img
```

---layout-----

```
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>
```

```
Device  Boot Start  End Sectors Size Id Type
<removed>1    2048 4095   2048  1M 83 Linux
<removed>2    4096 20479 16384   8M a5 FreeBSD
```

```
Create default BSD
2e1cee529cb59c9341afef0443f196a1 bsd.img
```

---layout-----

```
Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
```

```
Command (m for help): Entering nested BSD disklabel.
```

```
Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd
partitions: 4
```

```
Slice Start  End Sectors  Size Type  Fsize Bsize Cpg
c   4096 20479 16384   8M unused   0   0   0
d     0 16064 16065 7.9M unused   0   0   0
```

```
Partition table entries are not in disk order.
```

```
Command (m for help): Leaving nested disklabel.
```

```
Command (m for help):
```

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-----

Welcome to fdisk <removed>.

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors

Geometry: 255 heads, 63 sectors/track, 1 cylinders

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: bsd

partitions: 4

Slice	Start	End	Sectors	Size	Type	Fsize	Bsize	Cpg
-------	-------	-----	---------	------	------	-------	-------	-----

a	4096	6144	2049	1M	4.2BSD	0	0	0
---	------	------	------	----	--------	---	---	---

c	4096	20479	16384	8M	unused	0	0	0
---	------	-------	-------	----	--------	---	---	---

d	0	16064	16065	7.9M	unused	0	0	0
---	---	-------	-------	------	--------	---	---	---

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

0	unused	5	4.1BSD	9	4.4LFS	d	boot
---	--------	---	--------	---	--------	---	------

1	swap	6	Eighth Edition	a	unknown	e	ADOS
---	------	---	----------------	---	---------	---	------

2	Version 6	7	4.2BSD	b	HPFS	f	HFS
---	-----------	---	--------	---	------	---	-----

3	Version 7	8	MS-DOS	c	ISO-9660	10	AdvFS
---	-----------	---	--------	---	----------	----	-------

4	System V						
---	----------	--	--	--	--	--	--

Command (m for help):

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Name: XZ Utils

Maintainer: Lasse Collin <lasse.collin@tukaani.org>

Source: <http://tukaani.org/xz>

<git://ctrl.tukaani.org/xz.git>

X-Authors:

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To: Jonathan Nieder <jrnieder@gmail.com>
Subject: Re: XZ utils for Debian
Date: Sun, 19 Jul 2009 13:28:23 +0300
Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

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X-Origin: configure.ac from XZ Utils,
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dos/config.h was generated with autoheader, which tells Autoconf to
output a script to generate a config.h file and then runs it.
```

Files: po/Makevars

X-Origin: gettext-runtime/po/Makevars (gettext-0.12)

X-Authors: Bruno Haible

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1.246 yajl 2.1.0 :r0.1

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1.247 zlib 1.2.8 :r0

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1.248 zlib1g 1:1.2.3.4.dfsg-3ubuntu1

1.248.1 Available under license :

This is the pre-packaged Debian Linux version of the zlib compression library. It was packaged by Michael Alan Dorman <mdorman@debian.org> from sources originally retrieved from ftp.uu.net in the directory /pub/archiving/zip/zlib as the file zlib-1.0.4.tar.gz.

There is a homepage at <http://www.gzip.org/zlib/>

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by Peter Deutsch. Thanks to all the

people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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