



PROEMION

CANlink mobile 10000

Free & Open Source Software
Version 1.6.0

Proemion GmbH

2024-10-15

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 */
```

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```
/******
 * NCSA HTTPd Server
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 * National Center for Supercomputing Applications
 * University of Illinois at Urbana-Champaign
 * 605 E. Springfield, Champaign, IL 61820
 * httpd@ncsa.uiuc.edu
 *
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```

```

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

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*
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```

For the `test_zb.c` component:

```

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=====

```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input: Mike Belshe (mbelshe@netscape.com) Michael Campanella (campanella@stevms.enet.dec.com)

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```

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```
/*
 * *****
 * NCSA HTTPd Server
 * Software Development Group
 * National Center for Supercomputing Applications
 * University of Illinois at Urbana-Champaign
 * 605 E. Springfield, Champaign, IL 61820
 * httpd@ncsa.uiuc.edu
 *
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```

```
*
*****
*
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*
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```

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```
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```

```
* _____
```

```
*/
```

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For the `test_zb.c` component:

```

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=====

```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input: Mike Belshe (mbelshe@netscape.com) Michael Campanella (campanella@stevms.enet.dec.com)

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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

```
/*
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 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
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```

From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

```
/* Copyright (c) 1996 by Internet Software Consortium.
 *
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```

From dso/aix/dso.c:

```
* Based on libdl (dlfcn.c/dlfcn.h) which is
* Copyright (c) 1992,1993,1995,1996,1997,1988
* Jens-Uwe Mager, Helios Software GmbH, Hannover, Germany.
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* for any results of using the software, alterations are clearly marked
* as such, and this notice is not modified.
```

From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c – Perform ‘natural order’ comparisons of strings in C. Copyright (C) 2000 by Martin Pool
mbp@humbug.org.au

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From strings/apr_snprintf.c:

```
*
* cvt - IEEE floating point formatting routines.
* Derived from UNIX V7, Copyright(C) Caldera International Inc.
*
```

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apr_lib.h

```
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 */
```

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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

```
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```

From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

```
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```

From dso/aix/dso.c:

```
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```

From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c – Perform ‘natural order’ comparisons of strings in C. Copyright (C) 2000 by Martin Pool
mbp@humbug.org.au

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From strings/apr_snprintf.c:

```
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For the xml_expat_confutils_install-sh component:

install - install a program, script, or datafile This comes from X11R5 (mit/util/scripts/install.sh).

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For the xml_expat_confutils_install-sh component:

install - install a program, script, or datafile This comes from X11R5 (mit/util/scripts/install.sh).

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

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

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.

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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.

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:

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- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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libattr.c

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

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

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Version 3, 29 June 2007

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```
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number.c

```
/* number.c: Implements arbitrary precision numbers. */
/
```

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```
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Version 3, 29 June 2007

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```
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number.c

```
/* number.c: Implements arbitrary precision numbers. */
/
```

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Version 3, 29 June 2007

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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.

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.

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.

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Appendix: How to Apply These Terms to Your New Libraries

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Version 2.1, February 1999

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enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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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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- 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.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a “work that uses the Library” with the Library to produce a work 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) 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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```
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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, your program’s commands might be different; for a GUI interface, you would use an “about box”.

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Version 3, 29 June 2007

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Appendix: How to Apply These Terms to Your New Libraries

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Version 2.1, February 1999

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That's all there is to it!

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```
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 *
 * BlueZ - Bluetooth protocol stack for Linux
 *
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 *
 */
#ifdef HAVE_CONFIG_H
#include <config.h>
#endif
#define __GNU_SOURCE
#include <errno.h>
#include <stdio.h>
#include <unistd.h>
#include <stdlib.h>
#include <string.h>
#include <signal.h>
#include <stdbool.h>
```

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generic_bzip2-1.0.4

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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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Julian Seward, Cambridge, UK. jseward@bzip.org bzip2/libbzip2 version 1.0.4 of 20 December 2006

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generic_bzip2-1.0.6

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

generic_GPL-3.0-or-later

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

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/
* linux/can.h
*
* Definitions for CAN network layer (socket addr / CAN frame / CAN filter)
*
* Authors: Oliver Hartkopp oliver.hartkopp@volkswagen.de
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ls.c

```
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```

```
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```

```
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General Public License as published by the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.
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ls.c

```
/* ‘dir’, ‘vdir’ and ‘ls’ directory listing programs for GNU.
```

```
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```

```
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General Public License as published by the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.
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generic_curl

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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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Theodore Ts'o
23-June-2007

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```
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 * M.I.T. S.I.P.B. make no representations about the suitability of
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 * express or implied warranty.
 *
 * 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. . . .

```

uuid.h.in

```

/*
* Public include file for the UUID library
*
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*
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```
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 * e2p.h — header file for the e2p library
 *
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 * %End-Header%
```

et_name.c

```
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```

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```
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 *
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Theodore Ts'o
23-June-2007

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Version 2, June 1991

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, 1 April 1990 Ty Coon, President of Vice

That’s all there is to it!

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```
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 *
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 * M.I.T. S.I.P.B. make no representations about the suitability of
 * this software for any purpose. It is provided “as is” without
 * express or implied warranty.
 *
 * 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. . . .

```

uuid.h.in

```

/*
* Public include file for the UUID library
*
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*
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```
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```

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debuginfod-client.c

```
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```

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Version 3, 29 June 2007

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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.

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.

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

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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.

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

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

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

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

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:

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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.

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the library ‘Frob’ (a library for tweaking knobs) written

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Ty Coon, President of Vice

That’s all there is to it!

gettext.h

/* Convenience header for conditional use of GNU <libintl.h>.

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gawk licenses

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

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

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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.

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

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Version 3, 29 June 2007

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As used herein, “this License” refers to version 3 of the GNU Lesser General Public License, and the “GNU GPL” refers to version 3 of the GNU General Public License.

“The Library” refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An “Application” is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A “Combined Work” is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the “Linked Version”.

The “Minimal Corresponding Source” for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The “Corresponding Application Code” for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

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c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user’s computer system, and (b)

will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

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 that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

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

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

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

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

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

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

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

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a “work based on the library” and a “work that uses the library”. The former contains

code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

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

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

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of

the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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When you use GCC to compile a program, GCC may combine portions of certain GCC header files and runtime libraries with the compiled program. The purpose of this Exception is to allow compilation of non-GPL (including proprietary) programs to use, in this way, the header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an “Independent Module” if it either requires the Runtime Library for execution after a Compilation Process, or makes use of an interface provided by the Runtime Library, but is not otherwise based on the Runtime Library.

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“GPL-compatible Software” is software whose conditions of propagation, modification and use would permit combination with GCC in accord with the license of GCC.

“Target Code” refers to output from any compiler for a real or virtual target processor architecture, in executable form or suitable for input to an assembler, loader, linker and/or execution phase. Notwithstanding that, Target Code does not include data in any format that is used as a compiler intermediate representation, or used for producing a compiler intermediate representation.

The “Compilation Process” transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine byte code, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

A Compilation Process is “Eligible” if it is done using GCC, alone or with other GPL-compatible software, or if it is done without using any work based on GCC. For example, using non-GPL-compatible Software to optimize any GCC intermediate representations would not qualify as an Eligible Compilation Process.

1. Grant of Additional Permission.

You have permission to propagate a work of Target Code formed by combining the Runtime Library with Independent Modules, even if such propagation would otherwise violate the terms of GPLv3, provided that all Target Code was generated by Eligible Compilation Processes. You may then convey such a combination under terms of your choice, consistent with the licensing of the Independent Modules.

2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of GCC.

generic_GPL-3.0-with-GCC-exception

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GCC RUNTIME LIBRARY EXCEPTION Version 3.1, 31 March 2009

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```
Copyright (C) This program comes with ABSOLUTELY NO WARRANTY; for details type show
w'. &nbsp; This is free software, and you are welcome to redistribute it &nbsp; 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, your program’s commands might be different; for a GUI interface, you would use an “about box”.

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Version 3, 29 June 2007

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

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, 1 April 1990 Ty Coon, President of Vice

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Version 3, 29 June 2007

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

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

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

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

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

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library,

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Version 2.1, February 1999

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

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

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

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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.

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Version 2.1, February 1999

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

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

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

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

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- 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.
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Version 2, June 1991

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

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

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

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

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

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

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

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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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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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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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gnome-desktop-testing-runner.c

```
/* -- mode: C; c-file-style: "gnu"; indent-tabs-mode: nil; --
 *
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Version 3.0, 18 August 2009

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Version 2.1, February 1999

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

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```
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```
/* -- mode: C; c-file-style: "gnu"; indent-tabs-mode: nil; --
 * GObject introspection: Registered Type implementation
 *
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 *
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 * Boston, MA 02111-1307, USA.
 */
```

sourcescanner.c

```
/* GObject introspection: public scanner api
 *
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 *
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*
*/

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compiler.c

```
/* -- mode: C; c-file-style: "gnu"; indent-tabs-mode: nil; --
 * GObject introspection: Typelib compiler
 *
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 *
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 */
```

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giregisteredtypeinfo.c

```
/* -- mode: C; c-file-style: "gnu"; indent-tabs-mode: nil; --
 * GObject introspection: Registered Type implementation
 *
 * Copyright (C) 2005 Matthias Clasen
 * Copyright (C) 2008,2009 Red Hat, Inc.
 *
 * This library is free software; you can redistribute it and/or
 * modify it under the terms of the GNU Lesser General Public
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 * Boston, MA 02111-1307, USA.
 */
```

source-scanner.c

```
/* GObject introspection: public scanner api
 *
 * Copyright (C) 2007 Jurg Billeter
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 *
 * This library is free software; you can redistribute it and/or
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*/

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1. Source Code.

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README

hostapd - user space IEEE 802.11 AP and IEEE 802.1X/WPA/WPA2/EAP Authenticator and RADIUS authentication server

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Introduction

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Originally, hostapd was an optional user space component for Host AP driver. It adds more features to the basic IEEE 802.11 management included in the kernel driver: using external RADIUS authentication server for MAC address based access control, IEEE 802.1X Authenticator and dynamic WEP keying, RADIUS accounting, WPA/WPA2 (IEEE 802.11i/RSN) Authenticator and dynamic TKIP/CCMP keying.

The current version includes support for other drivers, an integrated EAP server (i.e., allow full authentication without requiring an external RADIUS authentication server), and RADIUS authentication server for EAP authentication.

Requirements

Current hardware/software requirements: - drivers: Host AP driver for Prism2/2.5/3. (<http://w1.fi/hostap-driver.html>) Please note that station firmware version needs to be 1.7.0 or newer to work in WPA mode.

mac80211-based drivers that support AP mode (with driver=nl80211).

This includes drivers for Atheros (ath9k) and Broadcom (b43) chipsets.

Any wired Ethernet driver for wired IEEE 802.1X authentication (experimental code)

FreeBSD -current

BSD net80211 layer (e.g., Atheros driver)

Build configuration

In order to be able to build hostapd, you will need to create a build time configuration file, .config that selects which optional components are included. See defconfig file for example configuration and list of available options.

IEEE 802.1X

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IEEE Std 802.1X-2001 is a standard for port-based network access control. In case of IEEE 802.11 networks, a “virtual port” is used between each associated station and the AP. IEEE 802.11 specifies minimal authentication mechanism for stations, whereas IEEE 802.1X introduces a extensible mechanism for authenticating and authorizing users.

IEEE 802.1X uses elements called Supplicant, Authenticator, Port Access Entity, and Authentication Server. Supplicant is a component in a station and it performs the authentication with the Authentication Server. An access point includes an Authenticator that relays the packets between a Supplicant and an Authentication Server. In addition, it has a Port Access Entity (PAE) with Authenticator functionality for controlling the virtual port authorization, i.e., whether to accept packets from or to the station.

IEEE 802.1X uses Extensible Authentication Protocol (EAP). The frames between a Supplicant and an Authenticator are sent using EAP over LAN (EAPOL) and the Authenticator relays these frames to the Authentication Server (and similarly, relays the messages from the Authentication Server to the Supplicant).

The Authentication Server can be colocated with the Authenticator, in which case there is no need for additional protocol for EAP frame transmission. However, a more common configuration is to use an external Authentication Server and encapsulate EAP frame in the frames used by that server. RADIUS is suitable for this, but IEEE 802.1X would also allow other mechanisms.

Host AP driver includes PAE functionality in the kernel driver. It is a relatively simple mechanism for denying normal frames going to or coming from an unauthorized port. PAE allows IEEE 802.1X related frames to be passed between the Supplicant and the Authenticator even on an unauthorized port.

User space daemon, `hostapd`, includes Authenticator functionality. It receives 802.1X (EAPOL) frames from the Supplicant using the `wlanap` device that is also used with IEEE 802.11 management frames. The frames to the Supplicant are sent using the same device.

The normal configuration of the Authenticator would use an external Authentication Server. `hostapd` supports RADIUS encapsulation of EAP packets, so the Authentication Server should be a RADIUS server, like FreeRADIUS (<http://www.freeradius.org/>). The Authenticator in `hostapd` relays the frames between the Supplicant and the Authentication Server. It also controls the PAE functionality in the kernel driver by controlling virtual port authorization, i.e., station-AP connection, based on the IEEE 802.1X state.

When a station would like to use the services of an access point, it will first perform IEEE 802.11 authentication. This is normally done with open systems authentication, so there is no security. After this, IEEE 802.11 association is performed. If IEEE 802.1X is configured to be used, the virtual port for the station is set in Unauthorized state and only IEEE 802.1X frames are accepted at this point. The Authenticator will then ask the Supplicant to authenticate with the Authentication Server. After this is completed successfully, the virtual port is set to Authorized state and frames from and to the station are accepted.

Host AP configuration for IEEE 802.1X

The user space daemon has its own configuration file that can be used to define AP options. Distribution package contains an example configuration file (`hostapd/hostapd.conf`) that can be used as a basis for configuration. It includes examples of all supported configuration options and short description of each option. `hostapd` should be started with full path to the configuration file as the command line argument, e.g., `./hostapd /etc/hostapd.conf`. If you have more than one wireless LAN card, you can use one `hostapd` process for multiple interfaces by giving a list of configuration files (one per interface) in the command line.

`hostapd` includes a minimal co-located IEEE 802.1X server which can be used to test IEEE 802.1X authentication. However, it should not be used in normal use since it does not provide any security. This can be configured by setting `ieee8021x` and `minimal_eap` options in the configuration file.

An external Authentication Server (RADIUS) is configured with `auth_server_addr,port,shared_secret` options. In addition, `ieee8021x` and `own_ip_addr` must be set for this mode. With such configuration, the co-located Authentication Server is not used and EAP frames will be relayed using EAPOL between the Supplicant and the Authenticator and RADIUS encapsulation between the Authenticator and the Authentication Server. Other than this, the functionality is similar to the case with the co-located Authentication Server.

Authentication Server

Any RADIUS server supporting EAP should be usable as an IEEE 802.1X Authentication Server with `hostapd` Authenticator. FreeRADIUS (<http://www.freeradius.org/>) has been successfully tested with `hostapd` Authenticator.

Automatic WEP key configuration

EAP/TLS generates a session key that can be used to send WEP keys from an AP to authenticated stations. The Authenticator in `hostapd` can be configured to automatically select a random default/broadcast key (shared by all authenticated stations) with `wep_key_len_broadcast` option (5 for 40-bit WEP or 13 for 104-bit WEP). In addition, `wep_key_len_unicast` option can be used to configure individual unicast keys for stations. This requires support for individual keys in the station driver.

WEP keys can be automatically updated by configuring rekeying. This will improve security of the network since same WEP key will only be used for a limited period of time. `wep_rekey_period` option sets the interval for rekeying in seconds.

WPA/WPA2

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Features

Supported WPA/IEEE 802.11i features: - WPA-PSK (“WPA-Personal”) - WPA with EAP (e.g., with RADIUS authentication server) (“WPA-Enterprise”) - key management for CCMP, TKIP, WEP104, WEP40 - RSN/WPA2 (IEEE 802.11i), including PMKSA caching and pre-authentication

WPA

The original security mechanism of IEEE 802.11 standard was not designed to be strong and has proved to be insufficient for most networks that require some kind of security. Task group I (Security) of IEEE 802.11 working group (<http://www.ieee802.org/11/>) has worked to address the flaws of the base standard and has in practice completed its work in May 2004. The IEEE 802.11i amendment to the IEEE 802.11 standard was approved in June 2004 and this amendment was published in July 2004.

Wi-Fi Alliance (<http://www.wi-fi.org/>) used a draft version of the IEEE 802.11i work (draft 3.0) to define a subset of the security enhancements that can be implemented with existing wlan hardware. This is called Wi-Fi Protected Access (WPA). This has now become a mandatory component of interoperability testing and certification done by Wi-Fi Alliance.

IEEE 802.11 standard defined wired equivalent privacy (WEP) algorithm for protecting wireless networks. WEP uses RC4 with 40-bit keys, 24-bit initialization vector (IV), and CRC32 to protect against packet forgery. All these choices have proven to be insufficient: key space is too small against current attacks, RC4 key scheduling is insufficient (beginning of the pseudorandom stream should be skipped), IV space is too small and IV reuse makes attacks easier, there is no replay protection, and non-keyed authentication does not protect against bit flipping packet data.

WPA is an intermediate solution for the security issues. It uses Temporal Key Integrity Protocol (TKIP) to replace WEP. TKIP is a compromise on strong security and possibility to use existing hardware. It still uses RC4 for the encryption like WEP, but with per-packet RC4 keys. In addition, it implements replay protection, keyed packet authentication mechanism (Michael MIC).

Keys can be managed using two different mechanisms. WPA can either use an external authentication server (e.g., RADIUS) and EAP just like IEEE 802.1X is using or pre-shared keys without need for additional servers. Wi-Fi calls these “WPA-Enterprise” and “WPA-Personal”, respectively. Both mechanisms will generate a master session key for the Authenticator (AP) and Supplicant (client station).

WPA implements a new key handshake (4-Way Handshake and Group Key Handshake) for generating and exchanging data encryption keys between the Authenticator and Supplicant. This handshake is also used to verify that both Authenticator and Supplicant know the master session key. These handshakes are identical regardless of the selected key management mechanism (only the method for generating master session key changes).

IEEE 802.11i / WPA2

The design for parts of IEEE 802.11i that were not included in WPA has finished (May 2004) and this amendment to IEEE 802.11 was approved in June 2004. Wi-Fi Alliance is using the final IEEE 802.11i as a new version of WPA called WPA2. This includes, e.g., support for more robust encryption algorithm (CCMP: AES in Counter mode with CBC-MAC) to replace TKIP and optimizations for handoff (reduced number of messages in initial key handshake, pre-authentication, and PMKSA caching).

Some wireless LAN vendors are already providing support for CCMP in their WPA products. There is no “official” interoperability certification for CCMP and/or mixed modes using both TKIP and CCMP, so some interoperability issues can be expected even though many combinations seem to be working with equipment from different vendors. Testing for WPA2 is likely to start during the second half of 2004.

hostapd configuration for WPA/WPA2

TODO

Enable WPA. Setting this variable configures the AP to require WPA (either WPA-PSK or WPA-RADIUS/EAP based on other configuration). For WPA-PSK, either `wpa_psk` or `wpa_passphrase` must be set and `wpa_key_mgmt` must include WPA-PSK. For WPA-RADIUS/EAP, `ieee8021x` must be set (but without dynamic WEP keys), RADIUS authentication server must be configured, and WPA-EAP must be included in `wpa_key_mgmt`. This field is a bit field that can be used to enable WPA (IEEE 802.11i/D3.0) and/or WPA2 (full IEEE 802.11i/RSN): `bit0 = WPA bit1 = IEEE 802.11i/RSN (WPA2) wpa=1`

WPA pre-shared keys for WPA-PSK. This can be either entered as a 256-bit secret in hex format (64 hex digits), `wpa_psk`, or as an ASCII passphrase (8..63 characters) that will be converted to PSK. This conversion uses SSID so the PSK changes when ASCII passphrase is used and the SSID is changed. `wpa_psk=0123456789abcdef0123456789abcdef0123456789abcdef0123456789abcdef wpa_passphrase=secret passphrase`

Set of accepted key management algorithms (WPA-PSK, WPA-EAP, or both). The entries are separated with a space. `wpa_key_mgmt=WPA-PSK WPA-EAP`

Set of accepted cipher suites (encryption algorithms) for pairwise keys (unicast packets). This is a space separated list of algorithms: CCMP = AES in Counter mode with CBC-MAC [RFC 3610, IEEE 802.11i] TKIP = Temporal Key Integrity Protocol [IEEE 802.11i] Group cipher suite (encryption algorithm for broadcast and multicast frames) is automatically selected based on this configuration. If only CCMP is allowed as the pairwise cipher, group cipher will also be CCMP. Otherwise, TKIP will be used as the group cipher. `wpa_pairwise=TKIP CCMP`

Time interval for rekeying GTK (broadcast/multicast encryption keys) in seconds. `wpa_group_rekey=600`

Time interval for rekeying GMK (master key used internally to generate GTKs (in seconds)). `wpa_gmk_rekey=86400`

Enable IEEE 802.11i/RSN/WPA2 pre-authentication. This is used to speed up roaming by pre-authenticating IEEE 802.1X/EAP part of the full RSN authentication and key handshake before actually associating with a new AP. `rsn_preauth=1`

Space separated list of interfaces from which pre-authentication frames are accepted (e.g., ‘eth0’ or ‘eth0 wlan0wds0’). This list should include all interface that are used for connections to other APs. This could include wired interfaces and WDS links. The normal wireless data interface towards associated stations (e.g., wlan0) should not be added, since pre-authentication is only used with APs other than the currently associated one. `rsn_preauth_interfaces=eth0`

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* `stdio.c`
* by Mark Gates mgates@nlanr.net
* and Ajay Tirumalla tirumala@ncsa.uiuc.edu
* _____
* input and output numbers, converting with kilo, mega, giga
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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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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

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

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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user’s computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user 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.
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For an executable, the required form of the “work that uses the Library” must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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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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Version 2.1, February 1999

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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.

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself. ¶ 6. As an exception to the Sections above, you may also combine or link a “work that uses the Library” with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer’s own use and reverse engineering for debugging such modifications.

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

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

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

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

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

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

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

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

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

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

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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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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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generic__Artistic-1.0

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Version 3, 29 June 2007

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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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code derived from the library, whereas the latter must be combined with the library in order to run.

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A “library” means a collection of software functions and/or data 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”.)

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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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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.

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

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

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

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

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

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

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execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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A file is an “Independent Module” if it either requires the Runtime Library for execution after a Compilation Process, or makes use of an interface provided by the Runtime Library, but is not otherwise based on the Runtime Library.

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“Target Code” refers to output from any compiler for a real or virtual target processor architecture, in executable form or suitable for input to an assembler, loader, linker and/or execution phase. Notwithstanding that, Target Code does not include data in any format that is used as a compiler intermediate representation, or used for producing a compiler intermediate representation.

The “Compilation Process” transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine byte code, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

A Compilation Process is “Eligible” if it is done using GCC, alone or with other GPL-compatible software, or if it is done without using any work based on GCC. For example, using non-GPL-compatible Software to optimize any GCC intermediate representations would not qualify as an Eligible Compilation Process.

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Version 3, 29 June 2007

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

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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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“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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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.

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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) 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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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.

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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.

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

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- 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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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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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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- 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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(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 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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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.

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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.

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

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

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

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(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 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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pcap.h

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generic_Zlib

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Version 2.1, February 1999

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

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

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Version 2.1, February 1999

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libunistring.texi

```
_input texinfo @c --texinfo--
@comment %**start of header
@setfilename libunistring.info @documentencoding UTF-8 @settitle GNU libunistring @finalout @c Indices:
@c am = autoconf macro @amindex @c cp = concept @cindex @c fn = function @findex @c tp = type
@tindex @c Unused predefined indices: @c ky = keystroke @kindex @c pg = program @pindex @c vr =
variable @vindex @defcodeindex am @syncodeindex am cp @syncodeindex fn cp @syncodeindex tp cp @ifclear
texi2html @firstparagraphindent insert @end ifclear @c texi2html-1.76 does not support @arrow___. @ifset
texi2html @macro arrow__ -> @end macro @end ifset @comment %**end of header

@include version.texi

@c Location of the POSIX specification on the web. @set POSIXURL http://pubs.opengroup.org/onlinepubs/9699919799

@c Macro for referencing a POSIX header. @ifinfo @macro posixheader _header_ @code <_header_>_ @end
macro @end ifinfo @ifnotinfo @macro posixheader _header_ @uref_@value_POSIXURL_/basedefs/_header_.html,,@code <_
@end macro @end ifnotinfo

@c Macro for referencing a POSIX function. @c We don't write it as func(), see section “GNU Manuals” of the
@c GNU coding standards. @ifinfo @macro posixfunc _func_ @code __func__ @end macro @end ifinfo @ifnot-
info @macro posixfunc _func_ @uref_@value_POSIXURL_/functions/_func_.html,,@code __func__
@end macro @end ifnotinfo

@c Macro for referencing a normal function. @c We don't write it as func(), see section “GNU Manuals” of
the @c GNU coding standards. @macro func _func_ @code __func__ @end macro
```

@c Macro for an advisory ragged line break in TeX mode. @c Needed because there are long unbreakable pieces of text (such as URLs or @c formulas), TeX is too shy to move them to a new line. TeX considers only @c two choices: a line break in aligned mode (which it rejects due to aesthetic @c reasons) and writing into the margin. What we want in many cases is a line @c break without filling the first line. Like what @* delivers. But we want it

@c only when needed, so that it disappears when unrelated changes in the same @c paragraph cause a line break in a nearby position. And we need it only in @c TeX mode. info and HTML modes are fine. @c This trick is from Karl Berry. @iftex @macro texnl @hfil@penalty9000@hfilneg @end macro @end iftex @ifnottex @macro texnl @end macro @end ifnottex

@ifinfo @dircategory Software development @direntry * GNU libunistring: (libunistring). Unicode string library.

@end direntry @end ifinfo

@ifinfo This manual is for GNU libunistring.

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@titlepage @title GNU libunistring, version @value_VERSION_ @subtitle updated @value_UPDATED_ @author Bruno Haible

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* Conventions:: Conventions used in this manual

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* unistr.h:: Elementary Unicode string functions

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 - * `unistdio.h`:: Output with Unicode strings
 - * `uniname.h`:: Names of Unicode characters
 - * `unictype.h`:: Unicode character classification and properties
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@end detailmenu @end menu

@node Introduction @chapter Introduction

This library provides functions for manipulating Unicode strings and for manipulating C strings according to the Unicode standard.

It consists of the following parts:

@table @code @item <unistr.h> elementary string functions @item <uniconv.h> conversion from/to legacy encodings @item <unistdio.h> formatted output to strings @item <uniname.h> character names @item <unictype.h> character classification and properties @item <uniwidth.h> string width when using non-proportional fonts @item <unigrbrk.h> grapheme cluster breaks @item <uniwbrk.h> word breaks @item <unilbrk.h> line breaking algorithm @item <uninorm.h> normalization (composition and decomposition) @item <unicase.h> case folding @item <uniregex.h> regular expressions (not yet implemented) @end table

@cindex use cases @cindex value, of libunistring libunistring is for you if your application involves non-trivial text processing, such as upper/lower case conversions, line breaking, operations on words, or more advanced analysis of text. Text provided by the user can, in general, contain characters of all kinds of scripts. The text processing functions provided by this library handle all scripts and all languages.

libunistring is for you if your application already uses the ISO C / POSIX @posixheader_ctype.h_, @posixheader_wctype.h_ functions and the text it operates on is provided by the user and can be in any language.

libunistring is also for you if your application uses Unicode strings as internal in-memory representation.

@menu * Unicode:: What is Unicode?

* Unicode and i18n:: Unicode and internationalization

* Locale encodings:: What is a locale encoding?

* In-memory representation:: How to represent strings in memory?

* char * strings:: What to keep in mind with @code_char _ strings

Unicode strings:: How are Unicode strings represented?

@end menu

@node Unicode @section Unicode

@cindex Unicode Unicode is a standardized repertoire of characters that contains characters from all scripts of the world, from Latin letters to Chinese ideographs and Babylonian cuneiform glyphs. It also specifies how these characters are to be rendered on a screen or on paper, and how common text processing (word selection, line breaking, uppercasing of page titles etc.) is supposed to behave on Unicode text.

Unicode also specifies three ways of storing sequences of Unicode characters in a computer whose basic unit of data is an 8-bit byte: @cindex UTF-8 @cindex UTF-16 @cindex UTF-32 @cindex UCS-4 @table @asis @item UTF-8 Every character is represented as 1 to 4 bytes. @item UTF-16 Every character is represented as 1 to 2 units of 16 bits. @item UTF-32, a.k.a@. UCS-4 Every character is represented as 1 unit of 32 bits. @end table

For encoding Unicode text in a file, UTF-8 is usually used. For encoding Unicode strings in memory for a program, either of the three encoding forms can be reasonably used.

Unicode is widely used on the web. Prior to the use of Unicode, web pages were in many different encodings (ISO-8859-1 for English, French, Spanish, ISO-8859-2 for Polish, ISO-8859-7 for Greek, KOI8-R for Russian, GB2312 or BIG5 for Chinese, ISO-2022-JP-2 or EUC-JP or Shift_JIS for Japanese, and many many others). It was next to impossible to create a document that contained Chinese and Polish text in the same document. Due to the many encodings for Japanese, even the processing of pure Japanese text was error prone.

References: @itemize @bullet @item The Unicode standard:@texnl__ @url_https://www.unicode.org/_ @item Definition of UTF-8:@texnl__ @url_https://www.rfc-editor.org/rfc/rfc3629.txt_ @item Definition of UTF-16:@texnl__ @url_https://www.rfc-editor.org/rfc/rfc2781.txt_ @item Markus Kuhn's UTF-8 and Unicode FAQ:@texnl__ @url_https://www.cl.cam.ac.uk/~mgk25/unicode.html_ @end itemize

@node Unicode and i18n @section Unicode and Internationalization

@cindex internationalization Internationalization is the process of changing the source code of a program so that it can meet the expectations of users in any culture, if culture specific data (translations, images etc.) are provided.

Use of Unicode is not strictly required for internationalization, but it makes internationalization much easier, because operations that need to look at specific characters (like hyphenation, spell checking, or the automatic conversion of double-quotes to opening and closing double-quote characters) don't need to consider multiple possible encodings of the text.

Use of Unicode also enables multilingualization: the ability of having text in multiple languages present in the same document or even in the same line of text.

But use of Unicode is not everything. Internationalization usually consists of four features: @itemize @bullet @item Use of Unicode where needed for text processing. This is what this library is for. @item Use of message catalogs for messages shown to the user, This is what GNU gettext is about. @item Use of locale specific conventions for date and time formats, for numeric formatting, or for sorting of text. This can be done adequately with the POSIX APIs and the implementation of locales in the GNU C library. @item In graphical user interfaces, adapting the GUI to the default text direction of the current locale (see @url_https://en.wikipedia.org/wiki/Right-to-left,right-to-left_languages_). @end itemize

@node Locale encodings @section Locale encodings

@cindex locale A locale is a set of cultural conventions. According to POSIX, for a program, at any moment, there is one locale being designated as the **current locale**'. (Actually, POSIX supports also one locale per thread, but this feature is not yet universally implemented and not widely used.) @cindex locale categories The locale is partitioned into several aspects, called "the categories" of the locale. The main various aspects are: @itemize @bullet @item The character encoding and the character properties. This is the @code_LC_CTYPE_ category. @item The sorting rules for text. This is the @code_LC_COLLATE_ category. @item The language specific translations of messages. This is the @code_LC_MESSAGES_ category. @item The formatting rules for numbers, such as the decimal separator. This is the @code_LC_NUMERIC_ category. @item The formatting rules for amounts of money. This is the @code_LC_MONETARY_ category. @item The formatting of date and time. This is the @code_LC_TIME_ category. @end itemize

@cindex locale encoding In particular, the @code_LC_CTYPE_ category of the current locale determines the character encoding. This is the encoding of @samp_char *_ strings.

We also call it the "locale encoding". GNU libunistring has a function, @func_locale_charset_, that returns a standardized (platform independent) name for this encoding.

All locale encodings used on glibc systems are essentially ASCII compatible: Most graphic ASCII characters have the same representation, as a single byte, in that encoding as in ASCII.

Among the possible locale encodings are UTF-8 and GB18030. Both allow to represent any Unicode character as a sequence of bytes. UTF-8 is used in most of the world, whereas GB18030 is used in the People's Republic of China, because it is backward compatible with the GB2312 encoding that was used in this country earlier.

The legacy locale encodings, ISO-8859-15 (which supplanted ISO-8859-1 in most of Europe), ISO-8859-2, KOI8-R, EUC-JP, etc., are still in use in some places, though.

UTF-16 and UTF-32 are not used as locale encodings, because they are not ASCII compatible.

@node In-memory representation @section Choice of in-memory representation of strings

There are three ways of representing strings in memory of a running program. @itemize @bullet @item As @samp_char _ strings. Such strings are represented in locale encoding.

This approach is employed when not much text processing is done by the program. When some Unicode aware processing is to be done, a string is converted to Unicode on the fly and back to locale encoding afterwards. @item As UTF-8 or UTF-16 or UTF-32 strings. This implies that conversion from locale encoding to Unicode is performed on input, and in the opposite direction on output. This approach is employed when the program

does a significant amount of text processing, or when the program has multiple threads operating on the same data but in different locales. @item As @samp_wchar_t __, a.k.a@. “wide strings”. This approach is misguided, see @ref_The wchar_t mess_. @end itemize

Of course, a @samp_char __ string can, in some cases, be encoded in UTF-8. You will use the data type depending on what you can guarantee about how it’s encoded: If a string is encoded in the locale encoding, or if you don’t know how it’s encoded, use @samp_char __. If, on the other hand, you can @emph_guarantee__ that it is UTF-8 encoded, then you can use the UTF-8 string type, @code_uint8_t __, for it.

The five types @code_char __, @code_uint8_t __, @code_uint16_t __, @code_uint32_t __, and @code_wchar_t __ are incompatible types at the C level. Therefore, @samp_gcc -Wall__ will produce a warning if, by mistake, your code contains a mismatch between these types. In the context of using GNU libunistring, even a warning about a mismatch between @code_char __ and @code_uint8_t __ is a sign of a bug in your code that you should not try to silence through a cast.

```
@node char * strings
@section @samp_char __ strings
```

@index C string functions The classical C strings, with its C library support standardized by ISO C and POSIX, can be used in internationalized programs with some precautions. The problem with this API is that many of the C library functions for strings don’t work correctly on strings in locale encodings, leading to bugs that only people in some cultures of the world will experience.

@index locale, multibyte The first problem with the C library API is the support of multibyte locales. According to the locale encoding, in general, every character is represented by one or more bytes (up to 4 bytes in practice — but use @code_MB_LEN_MAX__ instead of the number 4 in the code). When every character is represented by only 1 byte, we speak of an **unibyte locale**’, otherwise of a **multibyte locale**’. It is important to realize that the majority of Unix installations nowadays use UTF-8 or GB18030 as locale encoding; therefore, the majority of users are using multibyte locales.

@index char, type The important fact to remember is: @cartouche @emph_A @samp_char __ is a byte, not a character. @end cartouche

As a consequence: @itemize @bullet @item The @posixheader_ctype.h__ API is useless in this context; it does not work in multibyte locales. @item The @posixfunc_strlen__ function does not return the number of characters in a string. Nor does it return the number of screen columns occupied by a string after it is output. It merely returns the number of @emph_bytes__ occupied by a string. @item Truncating a string, for example, with @posixfunc_strncpy__, can have the effect of truncating it in the middle of a multibyte character. Such a string will, when output, have a garbled character at its end, often represented by a hollow box. @item @posixfunc_strchr__ and @posixfunc_strrchr__ do not work with multibyte strings if the locale encoding is GB18030 and the character to be searched is a digit. @item @posixfunc_strstr__ does not work with multibyte strings if the locale encoding is different from UTF-8. @item @posixfunc_strcspn__, @posixfunc_strpbrk__, @posixfunc_strspn__ cannot work correctly in multibyte locales: they assume the second argument is a list of single-byte characters. Even in this simple case, they do not work with multibyte strings if the locale encoding is GB18030 and one of the characters to be searched is a digit. @item @posixfunc_strsep__ and @posixfunc_strtok_r__ do not work with multibyte strings unless all of the delimiter characters are ASCII characters < 0x30. @item The @posixfunc_strcasecmp__, @posixfunc_strncasecmp__, and @posixfunc_strcasestr__ functions do not work with multibyte strings. @end itemize

The workarounds can be found in GNU gnuilib @url_https://www.gnu.org/software/gnuilib/__. @itemize @bullet @item gnuilib has modules @samp_mbchar__, @samp_mbiter__, @samp_mbuilder__ that represent multibyte characters and allow to iterate across a multibyte string with the same ease as through a unibyte string. @item gnuilib has functions @func_mbslen__ and @func_mbswidth__ that can be used instead of @posixfunc_strlen__ when the number of characters or the number of screen columns of a string is requested. @item gnuilib has functions @func_mbschr__ and @func_mbsrchr__ that are like @posixfunc_strchr__ and

@posixfunc_strchr_, but work in multibyte locales. @item glibc has a function @func_mbsstr_, like @posixfunc_strstr_, but works in multibyte locales. @item glibc has functions @func_mbscspn_, @func_mbspbrk_, @func_mbsspn_ that are like @posixfunc_strcspn_, @posixfunc_strpbrk_, @posixfunc_strspn_, but work in multibyte locales. @item glibc has functions @func_mbssep_ and @func_mbstok_r_ that are like @posixfunc_strsep_ and @posixfunc_strtok_r_ but work in multibyte locales. @item glibc has functions @func_mbscasecmp_, @func_mbsncasecmp_, @func_mbspcasecmp_, and @func_mbscasestr_ that are like @posixfunc_strcasecmp_, @posixfunc_strncasecmp_, and @posixfunc_strcasestr_, but work in multibyte locales. Still, the function @code_ulc_casecmp_ is preferable to these functions; see below. @end itemize

The second problem with the C library API is that it has some assumptions built-in that are not valid in some languages: @itemize @bullet @item It assumes that there are only two forms of every character: uppercase and lowercase. This is not true for Croatian, where the character @sc_LETTER DZ WITH CARON_ comes in three forms: @sc_LATIN CAPITAL LETTER DZ WITH CARON_ (DZ), @sc_LATIN CAPITAL LETTER D WITH SMALL LETTER Z WITH CARON_ (Dz), @sc_LATIN SMALL LETTER DZ WITH CARON_ (dz). @item It assumes that uppercasing of 1 character leads to 1 character. This is not true for German, where the @sc_LATIN SMALL LETTER SHARP S_, when uppercased, becomes @samp_SS_. @item It assumes that there is 1:1 mapping between uppercase and lowercase forms. This is not true for the Greek sigma: @sc_GREEK CAPITAL LETTER SIGMA_ is the uppercase of both @sc_GREEK SMALL LETTER SIGMA_ and @sc_GREEK SMALL LETTER FINAL SIGMA_. @item It assumes that the upper/lowercase mappings are position independent. This is not true for the Greek sigma and the Lithuanian i. @end itemize

The correct way to deal with this problem is @enumerate @item to provide functions for titlecasing, as well as for upper- and lowercasing, @item to view case transformations as functions that operates on strings, rather than on characters. @end enumerate

This is implemented in this library, through the functions declared in @code_<unicase.h>_, see @ref_unicase.h_.

@node Unicode strings @section Unicode strings

libunistring supports Unicode strings in three representations: @cindex UTF-8, strings @cindex UTF-16, strings @cindex UTF-32, strings @itemize @bullet @item UTF-8 strings, through the type @samp_uint8_t *_. The units are bytes

(@code_uint8_t_). @item UTF-16 strings, through the type @samp_uint16_t *_, The units are 16-bit memory words (@code_uint16_t_). @item UTF-32 strings, through the type @samp_uint32_t *_. The units are 32-bit

memory words (@code_uint32_t_). @end itemize

As with C strings, there are two variants: @itemize @bullet @item Unicode strings with a terminating NUL character are represented as a pointer to the first unit of the string. There is a unit containing a 0 value at the end. It is considered part of the string for all memory allocation purposes, but is not considered part of the string for all other logical purposes. @item Unicode strings where embedded NUL characters are allowed. These are represented by a pointer to the first unit and the number of units (not bytes!) of the string. In this setting, there is no trailing zero-valued unit used as “end marker”. @end itemize

@node Conventions @chapter Conventions

This chapter explains conventions valid throughout the libunistring library.

@cindex argument conventions Variables of type @code_char * _ denote C strings in locale encoding. See @ref_Locale encodings_.

Variables of type @code_uint8_t * _ denote UTF-8 strings. Their units are bytes.

Variables of type @code_uint16_t * _ denote UTF-16 strings, without byte order mark. Their units are 2-byte words.

Variables of type @code_uint32_t * _ denote UTF-32 strings, without byte order mark. Their units are 4-byte words.

Argument pairs `@code_(@var_s_, @var_n_)__` denote a string `@code_@var_s_[0..@var_n_-1]__` with exactly `@var_n_` units.

All functions with prefix `@samp_ulc__` operate on C strings in locale encoding.

All functions with prefix `@samp_u8__` operate on UTF-8 strings.

All functions with prefix `@samp_u16__` operate on UTF-16 strings.

All functions with prefix `@samp_u32__` operate on UTF-32 strings.

For every function with prefix `@samp_u8__`, operating on UTF-8 strings, there is also a corresponding function with prefix `@samp_u16__`, operating on UTF-16 strings, and a corresponding function with prefix `@samp_u32__`, operating on UTF-32 strings. Their description is analogous; in this documentation we describe only the function that operates on UTF-8 strings, for brevity.

A declaration with a variable `@var_n_` denotes the three concrete declarations with `@var_n_ = 8`, `@var_n_ = 16`, `@var_n_ = 32`.

All parameters starting with `@samp_str__` and the parameters of functions starting with `@code_u8_str_/@code_u16_str_/@code_u32_str_` denote a NUL terminated string.

`@cindex` return value conventions Error values are always returned through the `@code_errno__` variable, usually with a return value that indicates the presence of an error (NULL for functions that return a pointer, or -1 for functions that return an `@code_int__`).

Functions returning a string result take a `@code_(@var_resultbuf_, @var_lengthp_)__` argument pair. If `@var_resultbuf_` is not NULL and the result fits into `@code_@var_lengthp__ units`, it is put in `@var_resultbuf_`, and

@var_resultbuf_ is returned. Otherwise, a freshly allocated string is returned. In both cases, @code_@var_lengthp__ is set to the

length (number of units) of the returned string. In case of error, NULL is returned and `@code_errno__` is set.

`@include untypes.texi @include unistr.texi @include unicnv.texi @include unistdio.texi @include uniname.texi @include unictype.texi @include uniwidth.texi @include unigrbrk.texi @include uniwrbrk.texi @include unilbrk.texi @include uninorm.texi @include unicase.texi @include uniregex.texi`

`@node Using the library @chapter Using the library`

This chapter explains some practical considerations, regarding the installation and compiler options that are needed in order to use this library.

`@menu * Installation::`

`* Compiler options::`

`* Include files::`

`* Autoconf macro::`

`* Reporting problems::`

`@end menu`

`@node Installation @section Installation`

`@cindex dependencies` Before you can use the library, it must be installed. First, you have to make sure all dependencies are installed. They are listed in the file `@file_DEPENDENCIES_`.

`@cindex installation` Then you can proceed to build and install the library, as described in the file `@file_INSTALL_`. For installation on Windows systems, please refer to the file `@file_INSTALL.windows_`.

`@node Compiler options @section Compiler options`

Let's denote as `@code_LIBUNISTRING_PREFIX_` the value of the `@samp_-prefix_` option that you passed to `@code_configure_` while installing this package. If you didn't pass any `@samp_-prefix_` option, then the package is installed in `@file_/usr/local_`.

Let's denote as `_LIBUNISTRING_INCLUDEDIR_` the directory where the include files were installed. This is usually the same as `$_LIBUNISTRING_PREFIX_/include_`. Except that if you passed an `__includedir_` option to `__configure_`, it is the value of that option.

Let's further denote as `_LIBUNISTRING_LIBDIR_` the directory where the library itself was installed. This is the value that you passed with the `__libdir_` option to `__configure_`, or otherwise the same as `$_LIBUNISTRING_PREFIX_/lib_`. Recall that when building in 64-bit mode on a 64-bit GNU/Linux system that supports executables in either 64-bit mode or 32-bit mode, you should have used the option `__libdir=__LIBUNISTRING_PREFIX_/lib64_`.

Compiler options So that the compiler finds the include files, you have to pass it the option `__I$_LIBUNISTRING_INCLUDEDIR_`.

So that the compiler finds the library during its linking pass, you have to pass it the options `__L$_LIBUNISTRING_LIBDIR_ -lunistring_`. On some systems, in some configurations, you also have to pass options needed for linking with `__libiconv_`. The autoconf macro `__gl_LIBUNISTRING_` (see [Autoconf macro](#)) deals with this particularity.

Include files

Most of the include files have been presented in the introduction, see [Introduction](#), and subsequent detailed chapters.

Another include file is `<unistring/version.h>`. It contains the version number of the libunistring library.

Macro `LIBUNISTRING_VERSION` This constant contains the version of libunistring that is being used at compile time. It encodes the major and minor parts of the version number only. These parts are encoded in the form `(major«8) + minor`.

Constant `libunistring_version` This constant contains the version of libunistring that is being used at run time. It encodes the major and minor parts of the version number only. These parts are encoded in the form `(major«8) + minor`.

It is possible that `__libunistring_version_` is greater than `__LIBUNISTRING_VERSION_`. This can happen when you use `__libunistring_` as a shared library, and a newer, binary backward-compatible version has been installed after your program that uses `__libunistring_` was installed.

Autoconf macro

GNU GnuLib provides an autoconf macro that tests for the availability of `__libunistring_`. It is contained in the GnuLib module `__libunistring_`, see https://www.gnu.org/software/gnuilib/MODULES.html#module=libunistring_.

The macro is called `__gl_LIBUNISTRING_`. It searches for an installed libunistring. If found, it sets and `AC_SUBSTs` `__HAVE_LIBUNISTRING=yes_` and the `__LIBUNISTRING_` and `__LTLIBUNISTRING_` variables and augments the `__CPPFLAGS_` variable, and defines the C macro `__HAVE_LIBUNISTRING_` to 1. Otherwise, it sets and `AC_SUBSTs` `__HAVE_LIBUNISTRING=no_` and `__LIBUNISTRING_` and `__LTLIBUNISTRING_` to empty.

The complexities that `__gl_LIBUNISTRING_` deals with are the following:

- On some operating systems, in some configurations, libunistring depends on `__libiconv_`, and the options for linking with libiconv must be mentioned explicitly on the link command line.

- GNU `__libunistring_`, if installed, is not necessarily already in the search path (`__CPPFLAGS_` for the include file search path, `__LDFLAGS_` for the library search path).

- GNU `__libunistring_`, if installed, is not necessarily already in the run time library search path. To avoid the need for setting an environment variable like `__LD_LIBRARY_PATH_`, the macro adds

the appropriate run time search path options to the @code_LIBUNISTRING_ variable. This works on most systems. @end itemize

@node Reporting problems @section Reporting problems

@cindex bug reports @cindex bug tracker @cindex mailing list If you encounter any problem, please don't hesitate to submit a detailed bug report either in the bug tracker at the project page @url_https://savannah.gnu.org/projects/libunistring_, or by email to the @code_bug-libunistring@@gnu.org_ mailing list.

Please always include the version number of this library, and a short description of your operating system and compilation environment with corresponding version numbers.

For problems that appear while building and installing @code_libunistring_, for which you don't find the remedy in the @file_INSTALL_ file, please include a description of the options that you passed to the @samp_configure_ script.

@node More functionality @chapter More advanced functionality

@cindex bidirectional reordering For bidirectional reordering of strings, we recommend the GNU FriBidi library: @url_http://www.fribidi.org/_.

@cindex rendering For the rendering of Unicode strings outside of the context of a given toolkit (KDE/Qt or GNOME/Gtk), we recommend the Pango library: @url_https://www.pango.org/_.

@include wchar_t.texi

@include char32_t.texi

@node Licenses @appendix Licenses @cindex Licenses

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@node Index @unnumbered Index

@printindex cp

@bye

@c Local Variables: @c indent-tabs-mode: nil @c whitespace-check-buffer-indent: nil @c End:

README

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Version 3, 29 June 2007

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libunistring.texi

```
_input texinfo @c --texinfo--
@comment %**start of header
@setfilename libunistring.info @documentencoding UTF-8 @settitle GNU libunistring @finalout @c Indices:
@c am = autoconf macro @amindex @c cp = concept @cindex @c fn = function @findex @c tp = type
@tindex @c Unused predefined indices: @c ky = keystroke @kindex @c pg = program @pindex @c vr =
variable @vindex @defcodeindex am @syncodeindex am cp @syncodeindex fn cp @syncodeindex tp cp @ifclear
texi2html @firstparagraphindent insert @end ifclear @c texi2html-1.76 does not support @arrow___. @ifset
texi2html @macro arrow__ -> @end macro @end ifset @comment %**end of header

@include version.texi

@c Location of the POSIX specification on the web. @set POSIXURL http://pubs.opengroup.org/onlinepubs/9699919799

@c Macro for referencing a POSIX header. @ifinfo @macro posixheader _header_ @code <_header_>_ @end
macro @end ifinfo @ifnotinfo @macro posixheader _header_ @uref_@value_POSIXURL_/basedefs/_header_.html,,@code <_
@end macro @end ifnotinfo

@c Macro for referencing a POSIX function. @c We don't write it as func(), see section “GNU Manuals” of the
@c GNU coding standards. @ifinfo @macro posixfunc _func_ @code __func__ @end macro @end ifinfo @ifnot-
info @macro posixfunc _func_ @uref_@value_POSIXURL_/functions/_func_.html,,@code __func__
@end macro @end ifnotinfo

@c Macro for referencing a normal function. @c We don't write it as func(), see section “GNU Manuals” of
the @c GNU coding standards. @macro func _func_ @code __func__ @end macro
```

@c Macro for an advisory ragged line break in TeX mode. @c Needed because there are long unbreakable pieces of text (such as URLs or @c formulas), TeX is too shy to move them to a new line. TeX considers only @c two choices: a line break in aligned mode (which it rejects due to aesthetic @c reasons) and writing into the margin. What we want in many cases is a line @c break without filling the first line. Like what @* delivers. But we want it

@c only when needed, so that it disappears when unrelated changes in the same @c paragraph cause a line break in a nearby position. And we need it only in @c TeX mode. info and HTML modes are fine. @c This trick is from Karl Berry. @iftex @macro texnl @hfil@penalty9000@hfilneg @end macro @end iftex @ifnottex @macro texnl @end macro @end ifnottex

@ifinfo @dircategory Software development @direntry * GNU libunistring: (libunistring). Unicode string library.

@end direntry @end ifinfo

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* Conventions:: Conventions used in this manual

* untypes.h:: Elementary types

* unistr.h:: Elementary Unicode string functions

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 - * `unistdio.h`:: Output with Unicode strings
 - * `uniname.h`:: Names of Unicode characters
 - * `unictype.h`:: Unicode character classification and properties
 - * `uniwidth.h`:: Display width
 - * `unigrk.h`:: Grapheme cluster breaking
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 - Licenses:: Licenses
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- * Locale encodings:: What is a locale encoding?
- * In-memory representation:: How to represent strings in memory?
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Licenses

- * GNU GPL:: GNU General Public License
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@end detailmenu @end menu

@node Introduction @chapter Introduction

This library provides functions for manipulating Unicode strings and for manipulating C strings according to the Unicode standard.

It consists of the following parts:

@table @code @item <unistr.h> elementary string functions @item <uniconv.h> conversion from/to legacy encodings @item <unistdio.h> formatted output to strings @item <uniname.h> character names @item <unictype.h> character classification and properties @item <uniwidth.h> string width when using non-proportional fonts @item <unigrbrk.h> grapheme cluster breaks @item <uniwbrk.h> word breaks @item <unilbrk.h> line breaking algorithm @item <uninorm.h> normalization (composition and decomposition) @item <unicase.h> case folding @item <uniregex.h> regular expressions (not yet implemented) @end table

@cindex use cases @cindex value, of libunistring libunistring is for you if your application involves non-trivial text processing, such as upper/lower case conversions, line breaking, operations on words, or more advanced analysis of text. Text provided by the user can, in general, contain characters of all kinds of scripts. The text processing functions provided by this library handle all scripts and all languages.

libunistring is for you if your application already uses the ISO C / POSIX @posixheader_ctype.h_, @posixheader_wctype.h_ functions and the text it operates on is provided by the user and can be in any language.

libunistring is also for you if your application uses Unicode strings as internal in-memory representation.

@menu * Unicode:: What is Unicode?

* Unicode and i18n:: Unicode and internationalization

* Locale encodings:: What is a locale encoding?

* In-memory representation:: How to represent strings in memory?

* char * strings:: What to keep in mind with @code_char _ strings

Unicode strings:: How are Unicode strings represented?

@end menu

@node Unicode @section Unicode

@cindex Unicode Unicode is a standardized repertoire of characters that contains characters from all scripts of the world, from Latin letters to Chinese ideographs and Babylonian cuneiform glyphs. It also specifies how these characters are to be rendered on a screen or on paper, and how common text processing (word selection, line breaking, uppercasing of page titles etc.) is supposed to behave on Unicode text.

Unicode also specifies three ways of storing sequences of Unicode characters in a computer whose basic unit of data is an 8-bit byte: @cindex UTF-8 @cindex UTF-16 @cindex UTF-32 @cindex UCS-4 @table @asis @item UTF-8 Every character is represented as 1 to 4 bytes. @item UTF-16 Every character is represented as 1 to 2 units of 16 bits. @item UTF-32, a.k.a@. UCS-4 Every character is represented as 1 unit of 32 bits. @end table

For encoding Unicode text in a file, UTF-8 is usually used. For encoding Unicode strings in memory for a program, either of the three encoding forms can be reasonably used.

Unicode is widely used on the web. Prior to the use of Unicode, web pages were in many different encodings (ISO-8859-1 for English, French, Spanish, ISO-8859-2 for Polish, ISO-8859-7 for Greek, KOI8-R for Russian, GB2312 or BIG5 for Chinese, ISO-2022-JP-2 or EUC-JP or Shift_JIS for Japanese, and many many others). It was next to impossible to create a document that contained Chinese and Polish text in the same document. Due to the many encodings for Japanese, even the processing of pure Japanese text was error prone.

References: @itemize @bullet @item The Unicode standard:@texnl__ @url_https://www.unicode.org/_ @item Definition of UTF-8:@texnl__ @url_https://www.rfc-editor.org/rfc/rfc3629.txt_ @item Definition of UTF-16:@texnl__ @url_https://www.rfc-editor.org/rfc/rfc2781.txt_ @item Markus Kuhn's UTF-8 and Unicode FAQ:@texnl__ @url_https://www.cl.cam.ac.uk/~mgk25/unicode.html_ @end itemize

@node Unicode and i18n @section Unicode and Internationalization

@cindex internationalization Internationalization is the process of changing the source code of a program so that it can meet the expectations of users in any culture, if culture specific data (translations, images etc.) are provided.

Use of Unicode is not strictly required for internationalization, but it makes internationalization much easier, because operations that need to look at specific characters (like hyphenation, spell checking, or the automatic conversion of double-quotes to opening and closing double-quote characters) don't need to consider multiple possible encodings of the text.

Use of Unicode also enables multilingualization: the ability of having text in multiple languages present in the same document or even in the same line of text.

But use of Unicode is not everything. Internationalization usually consists of four features: @itemize @bullet @item Use of Unicode where needed for text processing. This is what this library is for. @item Use of message catalogs for messages shown to the user, This is what GNU gettext is about. @item Use of locale specific conventions for date and time formats, for numeric formatting, or for sorting of text. This can be done adequately with the POSIX APIs and the implementation of locales in the GNU C library. @item In graphical user interfaces, adapting the GUI to the default text direction of the current locale (see @url_https://en.wikipedia.org/wiki/Right-to-left,right-to-left_languages_). @end itemize

@node Locale encodings @section Locale encodings

@cindex locale A locale is a set of cultural conventions. According to POSIX, for a program, at any moment, there is one locale being designated as the **current locale**'. (Actually, POSIX supports also one locale per thread, but this feature is not yet universally implemented and not widely used.) @cindex locale categories The locale is partitioned into several aspects, called "the categories" of the locale. The main various aspects are: @itemize @bullet @item The character encoding and the character properties. This is the @code_LC_CTYPE_ category. @item The sorting rules for text. This is the @code_LC_COLLATE_ category. @item The language specific translations of messages. This is the @code_LC_MESSAGES_ category. @item The formatting rules for numbers, such as the decimal separator. This is the @code_LC_NUMERIC_ category. @item The formatting rules for amounts of money. This is the @code_LC_MONETARY_ category. @item The formatting of date and time. This is the @code_LC_TIME_ category. @end itemize

@cindex locale encoding In particular, the @code_LC_CTYPE_ category of the current locale determines the character encoding. This is the encoding of @samp_char *_ strings.

We also call it the "locale encoding". GNU libunistring has a function, @func_locale_charset_, that returns a standardized (platform independent) name for this encoding.

All locale encodings used on glibc systems are essentially ASCII compatible: Most graphic ASCII characters have the same representation, as a single byte, in that encoding as in ASCII.

Among the possible locale encodings are UTF-8 and GB18030. Both allow to represent any Unicode character as a sequence of bytes. UTF-8 is used in most of the world, whereas GB18030 is used in the People's Republic of China, because it is backward compatible with the GB2312 encoding that was used in this country earlier.

The legacy locale encodings, ISO-8859-15 (which supplanted ISO-8859-1 in most of Europe), ISO-8859-2, KOI8-R, EUC-JP, etc., are still in use in some places, though.

UTF-16 and UTF-32 are not used as locale encodings, because they are not ASCII compatible.

@node In-memory representation @section Choice of in-memory representation of strings

There are three ways of representing strings in memory of a running program. @itemize @bullet @item As @samp_char _ strings. Such strings are represented in locale encoding.

This approach is employed when not much text processing is done by the program. When some Unicode aware processing is to be done, a string is converted to Unicode on the fly and back to locale encoding afterwards. @item As UTF-8 or UTF-16 or UTF-32 strings. This implies that conversion from locale encoding to Unicode is performed on input, and in the opposite direction on output. This approach is employed when the program

does a significant amount of text processing, or when the program has multiple threads operating on the same data but in different locales. @item As @samp_wchar_t __, a.k.a@. “wide strings”. This approach is misguided, see @ref_The wchar_t mess_. @end itemize

Of course, a @samp_char __ string can, in some cases, be encoded in UTF-8. You will use the data type depending on what you can guarantee about how it’s encoded: If a string is encoded in the locale encoding, or if you don’t know how it’s encoded, use @samp_char __. If, on the other hand, you can @emph_guarantee__ that it is UTF-8 encoded, then you can use the UTF-8 string type, @code_uint8_t __, for it.

The five types @code_char __, @code_uint8_t __, @code_uint16_t __, @code_uint32_t __, and @code_wchar_t __ are incompatible types at the C level. Therefore, @samp_gcc -Wall__ will produce a warning if, by mistake, your code contains a mismatch between these types. In the context of using GNU libunistring, even a warning about a mismatch between @code_char __ and @code_uint8_t __ is a sign of a bug in your code that you should not try to silence through a cast.

```
@node char * strings
@section @samp_char __ strings
```

@index C string functions The classical C strings, with its C library support standardized by ISO C and POSIX, can be used in internationalized programs with some precautions. The problem with this API is that many of the C library functions for strings don’t work correctly on strings in locale encodings, leading to bugs that only people in some cultures of the world will experience.

@index locale, multibyte The first problem with the C library API is the support of multibyte locales. According to the locale encoding, in general, every character is represented by one or more bytes (up to 4 bytes in practice — but use @code_MB_LEN_MAX__ instead of the number 4 in the code). When every character is represented by only 1 byte, we speak of an **unibyte locale**’, otherwise of a **multibyte locale**’. It is important to realize that the majority of Unix installations nowadays use UTF-8 or GB18030 as locale encoding; therefore, the majority of users are using multibyte locales.

@index char, type The important fact to remember is: @cartouche @emph_A @samp_char __ is a byte, not a character. @end cartouche

As a consequence: @itemize @bullet @item The @posixheader_ctype.h__ API is useless in this context; it does not work in multibyte locales. @item The @posixfunc_strlen__ function does not return the number of characters in a string. Nor does it return the number of screen columns occupied by a string after it is output. It merely returns the number of @emph_bytes__ occupied by a string. @item Truncating a string, for example, with @posixfunc_strncpy__, can have the effect of truncating it in the middle of a multibyte character. Such a string will, when output, have a garbled character at its end, often represented by a hollow box. @item @posixfunc_strchr__ and @posixfunc_strrchr__ do not work with multibyte strings if the locale encoding is GB18030 and the character to be searched is a digit. @item @posixfunc_strstr__ does not work with multibyte strings if the locale encoding is different from UTF-8. @item @posixfunc_strcspn__, @posixfunc_strpbrk__, @posixfunc_strspn__ cannot work correctly in multibyte locales: they assume the second argument is a list of single-byte characters. Even in this simple case, they do not work with multibyte strings if the locale encoding is GB18030 and one of the characters to be searched is a digit. @item @posixfunc_strsep__ and @posixfunc_strtok_r__ do not work with multibyte strings unless all of the delimiter characters are ASCII characters < 0x30. @item The @posixfunc_strcasecmp__, @posixfunc_strncasecmp__, and @posixfunc_strcasestr__ functions do not work with multibyte strings. @end itemize

The workarounds can be found in GNU gnuilib @url_https://www.gnu.org/software/gnuilib/__. @itemize @bullet @item gnuilib has modules @samp_mbchar__, @samp_mbiter__, @samp_mbieter__ that represent multibyte characters and allow to iterate across a multibyte string with the same ease as through a unibyte string. @item gnuilib has functions @func_mbslen__ and @func_mbswidth__ that can be used instead of @posixfunc_strlen__ when the number of characters or the number of screen columns of a string is requested. @item gnuilib has functions @func_mbschr__ and @func_mbsrchr__ that are like @posixfunc_strchr__ and

@posixfunc_strchr_, but work in multibyte locales. @item glibc has a function @func_mbsstr_, like @posixfunc_strstr_, but works in multibyte locales. @item glibc has functions @func_mbscspn_, @func_mbspbrk_, @func_mbsspn_ that are like @posixfunc_strcspn_, @posixfunc_strpbrk_, @posixfunc_strspn_, but work in multibyte locales. @item glibc has functions @func_mbssep_ and @func_mbstok_r_ that are like @posixfunc_strsep_ and @posixfunc_strtok_r_ but work in multibyte locales. @item glibc has functions @func_mbscasecmp_, @func_mbsncasecmp_, @func_mbspcasecmp_, and @func_mbscasestr_ that are like @posixfunc_strcasecmp_, @posixfunc_strncasecmp_, and @posixfunc_strcasestr_, but work in multibyte locales. Still, the function @code_ulc_casecmp_ is preferable to these functions; see below. @end itemize

The second problem with the C library API is that it has some assumptions built-in that are not valid in some languages: @itemize @bullet @item It assumes that there are only two forms of every character: uppercase and lowercase. This is not true for Croatian, where the character @sc_LETTER DZ WITH CARON_ comes in three forms: @sc_LATIN CAPITAL LETTER DZ WITH CARON_ (DZ), @sc_LATIN CAPITAL LETTER D WITH SMALL LETTER Z WITH CARON_ (Dz), @sc_LATIN SMALL LETTER DZ WITH CARON_ (dz). @item It assumes that uppercasing of 1 character leads to 1 character. This is not true for German, where the @sc_LATIN SMALL LETTER SHARP S_, when uppercased, becomes @samp_SS_. @item It assumes that there is 1:1 mapping between uppercase and lowercase forms. This is not true for the Greek sigma: @sc_GREEK CAPITAL LETTER SIGMA_ is the uppercase of both @sc_GREEK SMALL LETTER SIGMA_ and @sc_GREEK SMALL LETTER FINAL SIGMA_. @item It assumes that the upper/lowercase mappings are position independent. This is not true for the Greek sigma and the Lithuanian i. @end itemize

The correct way to deal with this problem is @enumerate @item to provide functions for titlecasing, as well as for upper- and lowercasing, @item to view case transformations as functions that operates on strings, rather than on characters. @end enumerate

This is implemented in this library, through the functions declared in @code_<unicase.h>_, see @ref_unicase.h_.

@node Unicode strings @section Unicode strings

libunistring supports Unicode strings in three representations: @cindex UTF-8, strings @cindex UTF-16, strings @cindex UTF-32, strings @itemize @bullet @item UTF-8 strings, through the type @samp_uint8_t *_. The units are bytes

(@code_uint8_t_). @item UTF-16 strings, through the type @samp_uint16_t *_, The units are 16-bit memory words (@code_uint16_t_). @item UTF-32 strings, through the type @samp_uint32_t *_. The units are 32-bit

memory words (@code_uint32_t_). @end itemize

As with C strings, there are two variants: @itemize @bullet @item Unicode strings with a terminating NUL character are represented as a pointer to the first unit of the string. There is a unit containing a 0 value at the end. It is considered part of the string for all memory allocation purposes, but is not considered part of the string for all other logical purposes. @item Unicode strings where embedded NUL characters are allowed. These are represented by a pointer to the first unit and the number of units (not bytes!) of the string. In this setting, there is no trailing zero-valued unit used as “end marker”. @end itemize

@node Conventions @chapter Conventions

This chapter explains conventions valid throughout the libunistring library.

@cindex argument conventions Variables of type @code_char * _ denote C strings in locale encoding. See @ref_Locale encodings_.

Variables of type @code_uint8_t * _ denote UTF-8 strings. Their units are bytes.

Variables of type @code_uint16_t * _ denote UTF-16 strings, without byte order mark. Their units are 2-byte words.

Variables of type @code_uint32_t * _ denote UTF-32 strings, without byte order mark. Their units are 4-byte words.

Argument pairs `@code_(@var_s_, @var_n_)__` denote a string `@code_@var_s_[0..@var_n_-1]__` with exactly `@var_n_` units.

All functions with prefix `@samp_ulc__` operate on C strings in locale encoding.

All functions with prefix `@samp_u8__` operate on UTF-8 strings.

All functions with prefix `@samp_u16__` operate on UTF-16 strings.

All functions with prefix `@samp_u32__` operate on UTF-32 strings.

For every function with prefix `@samp_u8__`, operating on UTF-8 strings, there is also a corresponding function with prefix `@samp_u16__`, operating on UTF-16 strings, and a corresponding function with prefix `@samp_u32__`, operating on UTF-32 strings. Their description is analogous; in this documentation we describe only the function that operates on UTF-8 strings, for brevity.

A declaration with a variable `@var_n_` denotes the three concrete declarations with `@var_n_ = 8`, `@var_n_ = 16`, `@var_n_ = 32`.

All parameters starting with `@samp_str__` and the parameters of functions starting with `@code_u8_str_/@code_u16_str_/@code_u32_str_` denote a NUL terminated string.

`@cindex` return value conventions Error values are always returned through the `@code_errno__` variable, usually with a return value that indicates the presence of an error (NULL for functions that return a pointer, or -1 for functions that return an `@code_int__`).

Functions returning a string result take a `@code_(@var_resultbuf_, @var_lengthp_)__` argument pair. If `@var_resultbuf_` is not NULL and the result fits into `@code_@var_lengthp__ units`, it is put in `@var_resultbuf_`, and `@var_resultbuf_` is returned. Otherwise, a freshly allocated string is returned. In both cases, `@code_@var_lengthp__` is set to the length (number of units) of the returned string. In case of error, NULL is returned and `@code_errno__` is set.

`@include untypes.texi @include unistr.texi @include unicnv.texi @include unistdio.texi @include uniname.texi @include unictype.texi @include uniwidth.texi @include unigrbrk.texi @include uniwrbrk.texi @include unilbrk.texi @include uninorm.texi @include unicase.texi @include uniregex.texi`

`@node` Using the library `@chapter` Using the library

This chapter explains some practical considerations, regarding the installation and compiler options that are needed in order to use this library.

`@menu` * Installation::

* Compiler options::

* Include files::

* Autoconf macro::

* Reporting problems::

`@end menu`

`@node` Installation `@section` Installation

`@cindex` dependencies Before you can use the library, it must be installed. First, you have to make sure all dependencies are installed. They are listed in the file `@file_DEPENDENCIES_`.

`@cindex` installation Then you can proceed to build and install the library, as described in the file `@file_INSTALL_`. For installation on Windows systems, please refer to the file `@file_INSTALL.windows_`.

`@node` Compiler options `@section` Compiler options

Let's denote as `@code_LIBUNISTRING_PREFIX_` the value of the `@samp_-prefix_` option that you passed to `@code_configure_` while installing this package. If you didn't pass any `@samp_-prefix_` option, then the package is installed in `@file_/usr/local_`.

Let's denote as `_LIBUNISTRING_INCLUDEDIR_` the directory where the include files were installed. This is usually the same as `$_LIBUNISTRING_PREFIX_/include_`. Except that if you passed an `__includedir_` option to `__configure_`, it is the value of that option.

Let's further denote as `_LIBUNISTRING_LIBDIR_` the directory where the library itself was installed. This is the value that you passed with the `__libdir_` option to `__configure_`, or otherwise the same as `$_LIBUNISTRING_PREFIX_/lib`. Recall that when building in 64-bit mode on a 64-bit GNU/Linux system that supports executables in either 64-bit mode or 32-bit mode, you should have used the option `__libdir=__LIBUNISTRING_PREFIX_/lib64_`.

Compiler options So that the compiler finds the include files, you have to pass it the option `__I$_LIBUNISTRING_INCLUDEDIR_`.

So that the compiler finds the library during its linking pass, you have to pass it the options `__L$_LIBUNISTRING_LIBDIR_ -lunistring_`. On some systems, in some configurations, you also have to pass options needed for linking with `__libiconv_`. The autoconf macro `__gl_LIBUNISTRING_` (see [Autoconf macro](#)) deals with this particularity.

Include files

Most of the include files have been presented in the introduction, see [Introduction](#), and subsequent detailed chapters.

Another include file is `<unistring/version.h>`. It contains the version number of the libunistring library.

Macro `LIBUNISTRING_VERSION` *This constant contains the version of libunistring that is being used at compile time. It encodes the major and minor parts of the version number only. These parts are encoded in the form `(major«8) + minor`.*

Constant `libunistring_version` *This constant contains the version of libunistring that is being used at run time. It encodes the major and minor parts of the version number only. These parts are encoded in the form `(major«8) + minor`.*

It is possible that `__libunistring_version_` is greater than `__LIBUNISTRING_VERSION_`. This can happen when you use `__libunistring_` as a shared library, and a newer, binary backward-compatible version has been installed after your program that uses `__libunistring_` was installed.

Autoconf macro

GNU GnuLib provides an autoconf macro that tests for the availability of `__libunistring_`. It is contained in the GnuLib module `__libunistring_`, see <https://www.gnu.org/software/gnuilib/MODULES.html#module=libunistring>.

The macro is called `__gl_LIBUNISTRING_`. It searches for an installed libunistring. If found, it sets and `AC_SUBSTs` `__HAVE_LIBUNISTRING=yes_` and the `__LIBUNISTRING_` and `__LTLIBUNISTRING_` variables and augments the `__CPPFLAGS_` variable, and defines the C macro `__HAVE_LIBUNISTRING_` to 1. Otherwise, it sets and `AC_SUBSTs` `__HAVE_LIBUNISTRING=no_` and `__LIBUNISTRING_` and `__LTLIBUNISTRING_` to empty.

The complexities that `__gl_LIBUNISTRING_` deals with are the following:

- On some operating systems, in some configurations, libunistring depends on `__libiconv_`, and the options for linking with libiconv must be mentioned explicitly on the link command line.

- GNU `__libunistring_`, if installed, is not necessarily already in the search path (`__CPPFLAGS_` for the include file search path, `__LDFLAGS_` for the library search path).

- GNU `__libunistring_`, if installed, is not necessarily already in the run time library search path. To avoid the need for setting an environment variable like `__LD_LIBRARY_PATH_`, the macro adds

the appropriate run time search path options to the `@code_LIBUNISTRING_` variable. This works on most systems. @end itemize

@node Reporting problems @section Reporting problems

@cindex bug reports @cindex bug tracker @cindex mailing list If you encounter any problem, please don't hesitate to submit a detailed bug report either in the bug tracker at the project page [@url_https://savannah.gnu.org/projects/libunistring_](https://savannah.gnu.org/projects/libunistring_), or by email to the `@code_bug-libunistring@gnu.org_` mailing list.

Please always include the version number of this library, and a short description of your operating system and compilation environment with corresponding version numbers.

For problems that appear while building and installing `@code_libunistring_`, for which you don't find the remedy in the `@file_INSTALL_` file, please include a description of the options that you passed to the `@samp_configure_` script.

@node More functionality @chapter More advanced functionality

@cindex bidirectional reordering For bidirectional reordering of strings, we recommend the GNU FriBidi library: [@url_http://www.fribidi.org/_](http://www.fribidi.org/).

@cindex rendering For the rendering of Unicode strings outside of the context of a given toolkit (KDE/Qt or GNOME/Gtk), we recommend the Pango library: [@url_https://www.pango.org/_](https://www.pango.org/).

@include wchar_t.texi

@include char32_t.texi

@node Licenses @appendix Licenses @cindex Licenses

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@end menu

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@node Index @unnumbered Index

@printindex cp

@bye

@c Local Variables: @c indent-tabs-mode: nil @c whitespace-check-buffer-indent: nil @c End:

README

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Version 2.1, February 1999

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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.

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

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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“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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LICENSE

Userspace RCU library licensing Mathieu Desnoyers September 3, 2012

* LGPLv2.1

The library part is distributed under LGPLv2.1 or later. See lgpl-2.1.txt for license details. Refer to the individual file headers for details.

LGPL-compatible source code can statically use the library header using :

```
define __LGPL_SOURCE include <urcu.h>
```

Dynamic-only linking with the LGPL library is used if __LGPL_SOURCE is not defined. It permits relinking with newer versions of the library, which is required by the LGPL license.

See lgpl-relicensing.txt for details.

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xchg() primitive has been rewritten from scratch starting from atomic_ops 1.2 which has a MIT-style license that is intended to allow use in both free and proprietary software: http://www.hpl.hp.com/research/linux/atomic_ops/LICENSE
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* GPLv2

Library test code is distributed under the GPLv2 license. See gpl-2.0.txt for license details. See headers of individual files under tests/ for details.

* GPLv3 (or later)

The following build-related macro is under GPLv3 (or later):

m4/ax_tls.m4

urcu.h

```
/*
 * urcu.h
 *
 * Userspace RCU header
 *
 * Copyright (c) 2009 Mathieu Desnoyers mathieu.desnoyers@efficios.com
 * Copyright (c) 2009 Paul E. McKenney, IBM Corporation.
 *
 * LGPL-compatible code should include this header with :
 *
 * define __LGPL_SOURCE
 * include <urcu.h>
 *
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 *
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 */
```

x86.h

```
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 * Copyright (c) 1996-1999 by Silicon Graphics. All rights reserved.
 * Copyright (c) 1999-2004 Hewlett-Packard Development Company, L.P.
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 */
```

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* modified is included with the above copyright notice.
*
* Code inspired from libatomic_ops-1.2, inherited in part from the
* Boehm-Demers-Weiser conservative garbage collector.
*/

libusb1 licenses

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Version 2.1, February 1999

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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.

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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.

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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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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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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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Parser.pm

XML::Parser

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 */
```

Bug Reports

generic_Spencer-94

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lzo_init.c

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lzo_init.c

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```
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 * mdadm - manage Linux “md” devices aka RAID arrays.
 *
```

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```
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 *
 * $Id: minicom.h,v 1.26 2009-06-06 21:19:36 al-guest Exp $
 *
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 *
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 *
 * (This code is based on btrfs-progs/btrfs.c.)
 */
```

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```
MOD_DEPTH = . topsrcdir = @top_srcdir@ srcdir = @srcdir@ VPATH = @srcdir@
```

```
include $(MOD_DEPTH)/config/autoconf.mk
```

```
DIRS = config pr lib
```

```
ifdef MOZILLA_CLIENT Make nsinstall use absolute symlinks by default for Mozilla OSX builds
http://bugzilla.mozilla.org/show\_bug.cgi?id=193164 ifeq ($(OS_ARCH),Darwin) ifndef NSDISTMODE
NSDISTMODE=absolute_symlink export NSDISTMODE endif endif endif
```

```
DIST_GARBAGE = config.cache config.log config.status
```

```
all:: config.status export
```

```
include $(topsrcdir)/config/rules.mk
```

```
config.status:: configure ifeq ($(OS_ARCH),WINNT) sh $(srcdir)/configure --no-create --no-recursion else
```

nspr licenses

configure.in

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```
MOD_DEPTH = . topsrcdir = @top_srcdir@ srcdir = @srcdir@ VPATH = @srcdir@
```

```
include $(MOD_DEPTH)/config/autoconf.mk
```

```
DIRS = config pr lib
```

```
ifdef MOZILLA_CLIENT Make nsinstall use absolute symlinks by default for Mozilla OSX builds  
http://bugzilla.mozilla.org/show\_bug.cgi?id=193164 ifeq ($(OS_ARCH),Darwin) ifndef NSDISTMODE  
NSDISTMODE=absolute_symlink export NSDISTMODE endif endif endif
```

```
DIST_GARBAGE = config.cache config.log config.status
```

```
all:: config.status export
```

```
include $(topsrcdir)/config/rules.mk
```

```
config.status:: configure ifeq ($(OS_ARCH),WINNT) sh $(srcdir)/configure --no-create --no-recursion else
```

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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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perlcross-native licenses

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README.md

perl-cross provides configure script, top-level Makefile and some auxiliary files for perl, with the primary emphasis on cross-compiling the source.

Get perl and perl-cross sources `curl -L -O http://www.cpan.org/src/5.0/perl-5.24.1.tar.gz` `curl -L -O https://github.com/arsv/perl-cross/releases/download/1.1.3/perl-cross-1.1.3.tar.gz`

Unpack perl-cross over perl, overwriting Makefile `tar -zxvf perl-5.24.1.tar.gz` `cd perl-5.24.1` `tar -strip-components=1 -zxvf ../perl-cross-1.1.3.tar.gz`

Proceed as usual with most autoconfed packages `./configure --target=arm-linux-gnueabi --prefix=/usr` `-Duseshrplib` `make -j4` `make DESTDIR=/path/to/staging/dir` `install`

Unlike mainline Perl, this configure never runs any target executables, relying solely on compile/link tests and pre-defined hints.

On the flip side, it is only meant to run on reasonably sane modern unix systems.

Check project pages for more info.

In particular, configure usage lists available configure options.

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generic_Artistic-1.0

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

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

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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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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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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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Version 2.1, February 1999

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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.)

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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user’s computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://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 <https://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

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

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Release Derived Year Owner GPL- from compatible? (1)

0.9.0 thru 1.2 1991-1995 CWI yes 1.3 thru 1.5.2 1.2 1995-1999 CNRI yes 1.6 1.5.2 2000 CNRI no 2.0 1.6 2000 BeOpen.com no 1.6.1 1.6 2001 CNRI yes (2) 2.1 2.0+1.6.1 2001 PSF no 2.0.1 2.0+1.6.1 2001 PSF yes 2.1.1 2.1+2.0.1 2001 PSF yes 2.1.2 2.1.1 2002 PSF yes 2.1.3 2.1.2 2002 PSF yes 2.2 and above 2.1.1 2001-now PSF yes

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=====

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 Year Owner GPL- from compatible? (1)

0.9.0 thru 1.2	1991-1995	CWI	yes	1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes	1.6	1.5.2	2000	CNRI	no	2.0	1.6
2000	BeOpen.com	no	1.6.1	1.6	2001	CNRI	yes	(2)	2.1	2.0+1.6.1	2001	PSF	no	2.0.1	2.0+1.6.1
2001	PSF	yes	2.1.1	2.1+2.0.1	2001	PSF	yes	2.2	2.1.1	2001	PSF	yes	2.1.2	2.1.1	2002
2002	PSF	yes	2.1.3	2.1.2	2002	PSF	yes	2.2.1	2.2	2002	PSF	yes	2.2.2	2.2.1	2002
2003	PSF	yes	2.2.3	2.2.2	2003	PSF	yes	2.3	2.2.2	2002-2003	PSF	yes	2.3.1	2.3	2002-2003
2004	PSF	yes	2.3.2	2.3.1	2002-2003	PSF	yes	2.3.3	2.3.2	2002-2003	PSF	yes	2.3.4	2.3.3	2004
2005	PSF	yes	2.3.5	2.3.4	2005	PSF	yes	2.4	2.3	2004	PSF	yes	2.4.1	2.4	2005
2006	PSF	yes	2.4.2	2.4.1	2005	PSF	yes	2.4.3	2.4.2	2006	PSF	yes	2.4.4	2.4.3	2006
2007	PSF	yes	2.5.1	2.5	2007	PSF	yes	2.5.2	2.5.1	2008	PSF	yes	2.5.3	2.5.2	2008
2008	PSF	yes	2.6.1	2.6	2008	PSF	yes	2.6.2	2.6.1	2009	PSF	yes	2.6.3	2.6.2	2009
2009	PSF	yes	2.6.4	2.6.3	2009	PSF	yes	2.6.5	2.6.4	2010	PSF	yes	3.0	2.6	2008
2009	PSF	yes	3.0.1	3.0	2009	PSF	yes	3.1	3.0.1	2009	PSF	yes	3.1.1	3.1	2009
2010	PSF	yes	3.1.2	3.1	2010	PSF	yes	3.2	3.1	2010	PSF	yes			

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

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

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

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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
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README.md

pyexpect: Minimal but very flexible implementation of the expect pattern

The whole point of the expect pattern is to allow concise assertions that generate predictable and good error messages.

Best viewed in an example (here from pytest)

```
_____ test_equals _____
def test_equals():
    > expect(foo).to_equal(bar) many variant spellings, see source E AssertionError:
Expect 3 to equal 4

_____ test_equals_shorthand _____
def test_equals_shorthand():
    > expect(foo) == bar if you like the pyexpect way better E AssertionError:
Expect 3 to equal 4

=== 2 failed in 0.06 seconds =====
```

Line noise is reduced as much as possible, so the error message is displayed as near to the problematic code as possible. No stack traces to dig through, clear and consistent error messages that tell you what went wrong. That's how assertions should work.

Why should I use `expect()` over `self.assert*`?

Lets start with an example:

```
self.assertEqual('foo', 'bar')
```

In this assertion it is not possible to see which of the arguments is the expected and which is the actual value. While this ordering is mostly internally consistent between the different assertions within the unittest package, it is certainly not consistent in how people use this package. This becomes even more unnerving if you switch unit test packages, teams and languages.

The problem here is that the API has not way of knowing which of the two arguments is the expected value, and thus that information cannot be used in the error message.

Consider this `unittest.TestCase` example:

```
=====
FAIL: test_equals (main.ExpectedActualConfusionTest) _____
```

```
Traceback (most recent call last):  File "", line 6, in test_equals self.assertEqual(sorted(unsorted), [1,2,3,5])
AssertionError: Lists differ: [1, 2, 3, 5, 8] != [1, 2, 3, 5]
```

First list contains 1 additional elements. First extra element 4: 8

- [1, 2, 3, 5, 8] ? — + [1, 2, 3, 5]

That's quite a nice error message - but you have to read and understand the unit test quite deeply, to understand which of those values is the expected and which the actual value. (To add insult to injury, there are testing frameworks out there who print the second argument first, giving you even more rope to hang yourself trying to read the output.)

If you are as annoyed by this as I am, allow me to introduce you to the expect pattern. An assertion like this:

```
expect('foo').to.equal('bar') expect('foo').equals('bar') expect('foo') == 'bar'
```

Makes it absolutely plain what is the expected and what is the actual value. No confusion possible. Also the error messages are designed to map cleanly back to the source code:

Expect 'foo' to equal 'bar'.

Thus the mapping from the error message is immediately and completely clear, saving you minutes each time, enhancing your focus, productivity and - most important - your enjoyment when working with unit tests.

As a bonus all these exceptions are not coupled to any `TestCase` class so you can easily reuse them anywhere in your code to formalize expectations that your code has about some internal state. Sometimes called 'Design by Contract' or 'Fail Fast' programming. Oh and these expectations are generally shorter, so you even have less to type while getting clearer and more to the point assertions into your tests. Almost like having a cake and eating it too!

But I already gave up on `unittest.TestCase` and moved on to PyTest

It is quite amazing what kind of error messages pytest can conjure up from just plain python assertions. But there is a problem. Because the API (`assert somethingThatResolvesToTrueOrFalse()`) has no idea what the test is actually about. This means the error message necessarily easily lacks context.

Consider this test that tries to ensure that a framework outputs a specific type:

```
import numpy as np obj = np.int8(3) def test_bad_error_message(): assert isinstance(obj, int)
Testing output _____ test_bad_error_message _____
def test_bad_error_message(): > assert isinstance(obj, int) E assert False E + where False =
isinstance(3, int)
```

Looking at the output - can you figure out what happened?

The `repr()` of `np.int8(3)` is 3, which is identical to that of `int(3)`, which makes this error message ... bad.

The problem is that pytest cannot know what this assertion is actually about. Thus it cannot know that the type of the argument (`np.int8`) is the information that would be useful here.

For this reason pyexpect contains a rich set of matchers that generate clear and readable error messages every time.

Also, of course, if you try to use normal assertions outside of pytest tests, you will discover that the python default output from these exceptions sucks quite hard and is completely useless without custom error messages, which is quite verbose to type.

Interesting! So what can it do?

Glad you ask! Here you go:

1. Lots of included matchers: Take a look at the source to see all the assertions you need to get started. From `equals` over `be` or `is_` and `raises` till `matches` - we've got you covered. And not only that, but each matcher has some aliases so you can use the variant that reads the best in your assertion, or

that you are more used to when using multiple unit testing frameworks across language boundaries (python/js anyone?).

Some examples:

```
expect(True).is_true() expect(True).is_true() expect(True).equals(True) expect(True).is_equal(True)
expect(True) == True expect(raising_calable).raises() expect(raising_calable).to_raise()
```

Should an important alias be missing, pull requests are welcome.

2. Ease of use: `expect()` can be arbitrary chained with whatever you can think of (provided it's a valid python identifier) to give you the cleanest description of your assertion possible:

```
expect(23).to.equal(23) expect(23).is_equal(23) or go all out - but just because it works
doesn't mean it's sensible expect(23).to_be_chained.with_something_that_makes_sense_in_
your_context.before_it.calls_the.matcher.as_the_last.segment(23) Here .segment(23) would be the
matcher that is called
```

Choose whatever makes sense for your specific test to read well so that reading the test later feels natural and transports the meaning of the code as best as possible.

3. Simplicity of extension: In all other python expect implementations I've looked at, at least some aspects of them are way more complicated. Each matcher is a class or something that needs to be registered via a more or less complicated process, arguments are not just straightforward method arguments, `not` is not supported as a native framework concept...

In contrast in pyexpect if you want to register a new matcher, it's as easy as defining a method and then assigning it to as many instance method names as you want, asserting what you want to assert within and clearly define the error message that is going to be raised:

```
def falseish(self): See expect() source for available helpers self._assert(self._actual == False, "to
be falseish") expect.is_falseish = expect.is_falseish = expect.falseish = expect.falseish = falseish
or class expect(original_expect): def falseish(self): See expect() source for available helpers
self._assert(self._actual == False, "to be falseish")
```

Done!

Also note how the matcher clearly communicates what is important: what it asserts, and what error message it generates. No fluff included(TM)!

Compared this to how you would add matchers to more established packages like `sure` and `ensure` - I think pyexpect is simpler - you can either just assign a property on `expect` or create a local subclass with more methods.

4. Native `not` support: If you define a matcher, you don't have to define the inverse of it too or do anything special to get it. That means that for every matchers like `equals`, you automatically get the inverse of that, i.e. `not_equals`. This inverse can be invoked in a number of ways:

You can just prefix the matcher with `not_` like this

```
expect(foo).not_equals(bar) expect(some_function).not_to_raise()
```

You can include `not` as part of the path before the matcher like this:

```
expect(foo).not_to_equal(bar) expect(foo).not_to.equal(bar) expect(foo).to_not.equal(bar) ex-
pect(foo).to_not_be.equal(bar) or go all out - but just because it works doesn't mean it's sensible
expect(foo).is_just_a_little.notQuite_the_same_as_it.equals(bar)
```

That is you can include the word `not` at the beginning, middle or end of an identifier - just ensure to separate it from the identifier by snakecase.

This works for all aliases of each matcher, so no additional work there.

For more examples, have a look at the testsuite for the matchers.

If you want to add your own matchers, sometimes the inverse doesn't work automatically if you implement your expectations as multiple consecutive checks. In that case the inverse matcher might assert the wrong thing, because the order of the checks doesn't make sense in the inverted case. Should that happen, take a look at `expect._assert_if_positive()`, `expect._assert_if_negative()` and `expect._is_negative()`. Be advised however, that good matchers should need this only very rarely.

5. Great error messages: pyexpect takes great care to ensure every aspect of experiencing an error is as concise and usefull as possible. All error messages have the same format that always starts with what is expected and then is customized by the matcher to pack as much information as possible.

`expect(23).not_.to_equal(23)` Expect 23 not to equal 23

If you write your own assertion methods to enhance your unit testing, it's quite easy to get long stack traces because the actual assertion happens some stack frames down in one of the called matchers.

Consider assertions like this (a little fabricated, ok. But I'm sure you've seen this happen in your projects):

```
from unittest import TestCase, main
class Test(TestCase):
    def assert_equals(self, actual, expected):
    self.assertEqual(actual, expected)
    def assert_something(self, something):
    self.assert_equals(something, 'something')
    def test_something(self):
    self.assert_something('fnord')
main()
```

It will give you output like this:

```
FAIL: test_something (main.Test) ----- Traceback
(most recent call last):  method test_something in test.py at line 11  self.assert_something('fnord')
method assert_something in test.py at line 8  self.assert_equals(something, 'something')  method
assert_equals in test.py at line 5  self.assertEqual(actual, expected)  AssertionError: 'fnord' !=
'something'
```

Even in this simple case the actual error is 4 lines removed from the actual error.

Using pyexpect however a test like this:

```
from pyexpect import expect
def something(self):
    self._assert(self._actual == 'something', "to be
'something'")
    expect.something = something
from unittest import TestCase, main
class Test(TestCase):
    def test_something(self):
    expect('fnord').to_be.something()
main()
```

Gives you this output (standard `unittest.main()`):

```
FAIL: test_something (main.Test) -----
Traceback (most recent call last):  File "test_example.py", line 11, in test_something
expect('fnord').to_be.something()  File "/Users/dwt/Code/Projekte/pyexpect/internals.py
pyexpect_internals_hidden_in_backtraces  raise assertion  AssertionError: Expect 'fnord' to be
something
```

In `nosetests`:

```
FAIL: test_example:Test.test_something  mate +11 test_example.py test_something
expect('fnord').to_be.something()  mate +150 internals.py pyexpect_internals_hidden_in_backtraces
raise assertion  AssertionError: Expect 'fnord' to be something
```

`py.test` this is even prettier:

```
self = <test_example.Test testMethod=test_something>
def test_something(self):
    > expect('fnord').to_be.something()
E AssertionError: Expect 'fnord' to be something
```

Notice here, that the actual matcher `someting()` calls another method `_assert` to do the actual assertion and compose the error message, but none of this is visible in the stack trace? That is true for any methods you call in the matcher, so call into your api or whatever you need to trigger the assertion and enjoy the readability of the generated error messages.

Another common cause for really hard to read error messages are too long messages. Ever had something like this?

```
FAIL: test_example (main.DemoTest) ----- Traceback
(most recent call last):  File "untitled", line 15, in test_example
self.assertEqual(long_actual, long_expected)
AssertionError: ['foo', 'bar', 'baz', 'quoox', 'quaax', 'quuuxfoo', 'bar', 'baz', 'quoox', 'quaax', 'quuux'] != ['foo', 'bar', 'baz', 'quoox', 'quaax', 'quuux', 'foo', 'bar', 'baz', 'quoox', 'quaax', 'quuux', 'foo', 'bar', 'baz', 'quoox', 'quaax', 'quuux']
```

Good luck finding where the output of the expected and actual object even are separated, let alone what is different between them.

pyexpect formats long error messages on multiple lines, so you always see where the complaint starts and have a much easier time mentally diffing the two objects:

```
FAIL: test_example (main.DemoTest) -----
Traceback (most recent call last):  File "test.py", line 16, in test_example
expect(long_actual) == long_expected
File "pyexpect/internals.py", line 17, in pyexpect_internals_hidden_in_backtraces
raise exception
AssertionError: Expect ['foo', 'bar', 'baz', 'quoox', 'quaax', 'quuuxfoo', 'bar', 'baz', 'quoox', 'quaax', 'quuux']
```

to equal ['foo', 'bar', 'baz', 'quoox', 'quaax', 'quuux', 'foo', 'bar', 'baz', 'quoox', 'quaax', 'quuux', 'foo', 'bar', 'baz', 'quoox', 'quaax', 'quuux']

tl;dr: error messages are much easier to read and there is less fluff in between the error and the cause to distract you. As it should be.

1. Usage outside of unit tests: You can use this package as a standalone assertion package that gives you much more expressive assertions than just using using **assert** and refined error messages to boot.

Just assert away wherever you need it to get robust code by failing fast:

```
from pyexpect import expect def some_method(some_argument): expect(some_argument).is_.between(3,20)
something(some_argument)
```

And should you need it, you can switch the assertions from throwing to returning a (**bool**, **string**) tuple so you can reuse it in your api.

```
from pyexpect import expect def some_api(something): was_success, explanation = expect.returning(something) == 23 if not was_success: register_error(explanation)
```

And should you need it, you can override the error messages generated without needing to change the matchers. See `expect.with_message()` for details.

2. Test coverage: Of course pyexpect has full test coverage ensuring that it does exactly what you expect it to do.
3. Think something could be better in this documentation? Send a pull request. :)

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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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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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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:

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Version 2.1, February 1999

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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.

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

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

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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user’s computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://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 <https://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

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

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0.9.0 thru 1.2 1991-1995 CWI yes 1.3 thru 1.5.2 1.2 1995-1999 CNRI yes 1.6 1.5.2 2000 CNRI no 2.0 1.6 2000 BeOpen.com no 1.6.1 1.6 2001 CNRI yes (2) 2.1 2.0+1.6.1 2001 PSF no 2.0.1 2.0+1.6.1 2001 PSF yes 2.1.1 2.1+2.0.1 2001 PSF yes 2.1.2 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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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Version 2, June 1991

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screen.h

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

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```
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```

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```

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*/
```

```
include <config.h>
```

```
ident "Id"
```

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


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login.defs_shadow-sysroot

/etc/login.defs - Configuration control definitions for the shadow package.

\$Id: login.defs 3038 2009-07-23 20:41:35Z nekral-guest \$

Delay in seconds before being allowed another attempt after a login failure Note: When PAM is used, some modules may enforce a minimal delay (e.g. pam_unix enforces a 2s delay)

FAIL_DELAY 3

Enable logging and display of /var/log/faillog login failure info.

FAILLOG_ENAB yes

Enable display of unknown usernames when login failures are recorded.

LOG_UNKFAIL_ENAB no

Enable logging of successful logins

LOG_OK_LOGINS no

Enable logging and display of /var/log/lastlog login time info.

LASTLOG_ENAB yes

Enable checking and display of mailbox status upon login.

Disable if the shell startup files already check for mail (“mailx -e” or equivalent).

MAIL_CHECK_ENAB yes

Enable additional checks upon password changes.

OBSCURE_CHECKS_ENAB yes

Enable checking of time restrictions specified in /etc/porttime.

PORTTIME_CHECKS_ENAB yes

Enable setting of ulimit, umask, and niceness from passwd gecost field.

QUOTAS_ENAB yes

Enable “syslog” logging of su activity - in addition to sulog file logging. SYSLOG_SG_ENAB does the same for newgrp and sg.

SYSLOG_SU_ENAB yes SYSLOG_SG_ENAB yes

If defined, either full pathname of a file containing device names or a “:” delimited list of device names. Root logins will be allowed only upon these devices.

CONSOLE /etc/securetty CONSOLE console:tty01:tty02:tty03:tty04

If defined, all su activity is logged to this file.

SULOG_FILE /var/log/sulog

If defined, “:” delimited list of “message of the day” files to be displayed upon login.

MOTD_FILE /etc/motd MOTD_FILE /etc/motd:/usr/lib/news/news-motd

If defined, this file will be output before each login prompt.

ISSUE_FILE /etc/issue

If defined, file which maps tty line to TERM environment parameter. Each line of the file is in a format something like “vt100 tty01”.

TTYTYPE_FILE /etc/ttytype

If defined, login failures will be logged here in a utmp format. last, when invoked as lastb, will read /var/log/btmp, so...

FTMP_FILE /var/log/btmp

If defined, name of file whose presence which will inhibit non-root logins. The contents of this file should be a message indicating why logins are inhibited.

NOLOGINS_FILE /etc/nologin

If defined, the command name to display when running “su -”. For example, if this is defined as “su” then a “ps” will display the command is “-su”. If not defined, then “ps” would display the name of the shell actually being run, e.g. something like “-sh”.

SU_NAME su

REQUIRED

Directory where mailboxes reside, *or* name of file, relative to the home directory. If you *do* define both, MAIL_DIR takes precedence.

MAIL_DIR /var/spool/mail MAIL_FILE .mail

If defined, file which inhibits all the usual chatter during the login sequence. If a full pathname, then hushed mode will be enabled if the user's name or shell are found in the file. If not a full pathname, then hushed mode will be enabled if the file exists in the user's home directory.

HUSHLOGIN_FILE .hushlogin HUSHLOGIN_FILE /etc/hushlogins

If defined, either a TZ environment parameter spec or the fully-rooted pathname of a file containing such a spec.

ENV_TZ TZ=CST6CDT ENV_TZ /etc/tzname

If defined, an HZ environment parameter spec.

for Linux/x86 ENV_HZ HZ=100 For Linux/Alpha... ENV_HZ HZ=1024

REQUIRED The default PATH settings, for superuser and normal users.

(they are minimal, add the rest in the shell startup files) ENV_SUPATH PATH=/sbin:/bin:/usr/sbin:/usr/bin
ENV_PATH PATH=/bin:/usr/bin

Terminal permissions

TTYGROUP Login tty will be assigned this group ownership.

TTYPERM Login tty will be set to this permission.

If you have a "write" program which is "setgid" to a special group which owns the terminals, define TTYGROUP to the group number and TTYPERM to 0620. Otherwise leave TTYGROUP commented out and assign TTYPERM to either 622 or 600.

TTYGROUP tty TTYPERM 0600

Login configuration initializations:

ERASECHAR Terminal ERASE character ('_010' = backspace).

KILLCHAR Terminal KILL character ('_025' = CTRL/U).

ULIMIT Default "ulimit" value.

The ERASECHAR and KILLCHAR are used only on System V machines. The ULIMIT is used only if the system supports it. (now it works with setrlimit too; ulimit is in 512-byte units)

Prefix these values with "0" to get octal, "0x" to get hexadecimal.

ERASECHAR 0177 KILLCHAR 025 ULIMIT 2097152

Default initial "umask" value for non-PAM enabled systems. UMASK is also used by useradd and newusers to set the mode of new home directories. 022 is the default value, but 027, or even 077, could be considered better for privacy. There is no One True Answer here: each sysadmin must make up her mind. UMASK 022

Password aging controls:

PASS_MAX_DAYS Maximum number of days a password may be used.

PASS_MIN_DAYS Minimum number of days allowed between password changes.

PASS_MIN_LEN Minimum acceptable password length.

PASS_WARN_AGE Number of days warning given before a password expires.

PASS_MAX_DAYS 99999 PASS_MIN_DAYS 0 PASS_MIN_LEN 5 PASS_WARN_AGE 7

If "yes", the user must be listed as a member of the first gid 0 group in /etc/group (called "root" on most Linux systems) to be able to "su" to uid 0 accounts. If the group doesn't exist or is empty, no one will be able to "su" to uid 0.

SU__WHEEL__ONLY no

If compiled with cracklib support, where are the dictionaries

CRACKLIB_DICTPATH /var/cache/cracklib/cracklib_dict

Min/max values for automatic uid selection in useradd

UID_MIN 1000 UID_MAX 60000 System accounts SYS_UID_MIN 101 SYS_UID_MAX 999

Min/max values for automatic gid selection in groupadd

GID_MIN 1000 GID_MAX 60000 System accounts SYS_GID_MIN 101 SYS_GID_MAX 999

Max number of login retries if password is bad

LOGIN_RETRIES 5

Max time in seconds for login

LOGIN_TIMEOUT 60

Maximum number of attempts to change password if rejected (too easy)

PASS_CHANGE_TRIES 5

Warn about weak passwords (but still allow them) if you are root.

PASS_ALWAYS_WARN yes

Number of significant characters in the password for crypt(). Default is 8, don't change unless your crypt() is better. Ignored if MD5_CRYPT_ENAB set to "yes".

PASS_MAX_LEN 8

Require password before chfn/chsh can make any changes.

CHFN_AUTH yes

Which fields may be changed by regular users using chfn - use any combination of letters "frwh" (full name, room number, work phone, home phone). If not defined, no changes are allowed. For backward compatibility, "yes" = "rwh" and "no" = "frwh". CHFN_RESTRICT rwh

Password prompt (%s will be replaced by user name).

XXX - it doesn't work correctly yet, for now leave it commented out to use the default which is just "Password:". LOGIN_STRING "%s's Password:"

Only works if compiled with MD5_CRYPT defined: If set to "yes", new passwords will be encrypted using the MD5-based algorithm compatible with the one used by recent releases of FreeBSD. It supports passwords of unlimited length and longer salt strings. Set to "no" if you need to copy encrypted passwords to other systems which don't understand the new algorithm. Default is "no".

Note: If you use PAM, it is recommended to use a value consistent with the PAM modules configuration.

This variable is deprecated. You should use ENCRYPT_METHOD.

MD5_CRYPT_ENAB no

Only works if compiled with ENCRYPTMETHOD_SELECT defined: If set to MD5, MD5-based algorithm will be used for encrypting password. If set to SHA256, SHA256-based algorithm will be used for encrypting password. If set to SHA512, SHA512-based algorithm will be used for encrypting password. If set to DES, DES-based algorithm will be used for encrypting password (default). Overrides the MD5_CRYPT_ENAB option

Note: If you use PAM, it is recommended to use a value consistent with the PAM modules configuration.

ENCRYPT_METHOD DES

Only works if ENCRYPT_METHOD is set to SHA256 or SHA512.

Define the number of SHA rounds. With a lot of rounds, it is more difficult to brute forcing the password. But note also that it more CPU resources will be needed to authenticate users.

If not specified, the libc will choose the default number of rounds (5000). The values must be inside the 1000-999999999 range. If only one of the MIN or MAX values is set, then this value will be used. If MIN > MAX, the highest value will be used.

SHA_CRYPT_MIN_ROUNDS 5000 SHA_CRYPT_MAX_ROUNDS 5000

List of groups to add to the user's supplementary group set when logging in on the console (as determined by the CONSOLE setting). Default is none.

Use with caution - it is possible for users to gain permanent access to these groups, even when not logged in on the console. How to do it is left as an exercise for the reader...

CONSOLE_GROUPS floppy:audio:cdrom

Should login be allowed if we can't cd to the home directory? Default in no.

DEFAULT_HOME yes

If this file exists and is readable, login environment will be read from it. Every line should be in the form name=value.

ENVIRON_FILE /etc/environment

If defined, this command is run when removing a user. It should remove any at/cron/print jobs etc. owned by the user to be removed (passed as the first argument).

USERDEL_CMD /usr/sbin/userdel_local

Enable setting of the umask group bits to be the same as owner bits (examples: 022 -> 002, 077 -> 007) for non-root users, if the uid is the same as gid, and username is the same as the primary group name.

This also enables userdel to remove user groups if no members exist.

USERGROUPS_ENAB yes

If set to a non-nul number, the shadow utilities will make sure that groups never have more than this number of users on one line. This permit to support split groups (groups split into multiple lines, with the same group ID, to avoid limitation of the line length in the group file).

0 is the default value and disables this feature.

MAX_MEMBERS_PER_GROUP 0

If useradd should create home directories for users by default (non system users only) This option is overridden with the -M or -m flags on the useradd command line.

CREATE_HOME yes

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```

```
include <config.h>
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```
ident "Id"
```

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

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sudo_queue.h

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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 an idea of what it does. Copyright (C) yyyy name of author

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generic_LGPL-2.1-only

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Version 2.1, February 1999

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

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

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

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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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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.

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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 operating system on which the executable runs, unless that component itself accompanies the executable.

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Version 3, 29 June 2007

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License identifier syntax

1. Placement:

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2. Style:

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

```
C source: // SPDX-License-Identifier: C header: /* SPDX-License-Identifier: /
ASM: / SPDX-License-Identifier: */
scripts: SPDX-License-Identifier: .rst: .. SPDX-License-Identifier: .dts_i: // SPDX-License-Identifier:
```

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

3. Syntax:

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License identifiers for licenses like [L]GPL with the ‘or later’ option are constructed by using a “+” for indicating the ‘or later’ option::

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

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

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

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

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```
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```

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

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```

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

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```

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Full name SPDX Identifier OSI Approved File name URI

=====

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

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

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

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

License identifier syntax

1. Placement:

The SPDX license identifier in U-Boot files shall be added at the first possible line in a file which can contain a comment. For the majority of files this is the first line, except for scripts which require the ‘!PATH_TO_INTERPRETER’ in the first line. For those scripts the SPDX identifier goes into the second line.

2. Style:

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

```
C source: // SPDX-License-Identifier:
C header: /* SPDX-License-Identifier:
ASM: / SPDX-License-Identifier: */
scripts: SPDX-License-Identifier:
.rst: .. SPDX-License-Identifier:
.dts_i: // SPDX-License-Identifier:
```

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

3. Syntax:

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

License identifiers for licenses like [L]GPL with the ‘or later’ option are constructed by using a “+” for indicating the ‘or later’ option::

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

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

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

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

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

Exceptions can only be used with particular License identifiers. The valid License identifiers are listed in the tags of the exception text file.

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

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

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

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

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

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

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

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

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

Full name SPDX Identifier OSI Approved File name URI

=====

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	LGPL-2.1+	Y	lgpl-2.1.txt	http://www.gnu.org/licenses/old-licenses/lgpl-2.1.txt	eCos license version 2.0
	eCos-2.0		eCos-2.0.txt	http://www.gnu.org/licenses/ecos-license.html	BSD 2-Clause License
	BSD-2-Clause	Y	bsd-2-clause.txt	http://spdx.org/licenses/BSD-2-Clause	BSD 3-clause "New" or "Revised" License
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```
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*/

/*

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

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

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

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

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

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

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

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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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Version 2.1, February 1999

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uganda.txt

uganda.txt For Vim version 9.0. Last change: 2022 Mar 02

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<https://iccf-holland.org/>
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=====

Kibaale Children's Centre *kcc Kibaale charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there usually is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that in the past 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. Although AIDS is now mostly under control, the problems are still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people

who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a clinic at the project, which provides children and their family medical help. Since 2020 a maternity ward was added and 24/7 service is available. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem). *donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: Bram@vim.org.

The address of the centre is: Kibaale Children's Centre p.o. box 1658 Masaka, Uganda, East Africa

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See [\[iccf\]](#) for the URL.

USA: The methods mentioned below can be used. If you must send a check send it to our Canadian partner: <https://www.kuwasha.net/>

Canada: Contact Kuwasha in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. Kuwasha forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Look on their site for information about sponsorship: <https://www.kuwasha.net/> If you make a donation to Kuwasha you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Amersfoort. This will allow for tax deduction if you live in Holland. ING bank, IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information: <https://iccf-holland.org/germany.html>

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vim:tw=78:ts=8:noet:ft=help:norl:

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Source code files were moved around in v0.6.x releases and compared to earlier releases, the programs are now built by first going to a subdirectory (wpa_suplicant or hostapd) and creating build configuration (.config) and running 'make' there (for Linux/BSD/cygwin builds).

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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 state 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)

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

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

```
Copyright (C) This program 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, your program's commands might be different; for a GUI interface, you would use an "about box".

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

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

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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.

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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.

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

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

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

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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.

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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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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

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

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

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Version 2, June 1991

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