

# R&S® Oscilloscopes

## R&S® MXO4

### Open Source Acknowledgment

### Software Version: 2.3.2



1335579500  
Version 01.06

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- MXO4

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# 1 Introduction

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angular/animations	8.2.14	<a href="#">MIT License</a>
angular/cdk	8.2.3	<a href="#">MIT License</a>
angular/common	8.2.14	<a href="#">MIT License</a>
angular/compiler	8.2.14	<a href="#">MIT License</a>
angular/core	8.2.14	<a href="#">MIT License</a>
angular/elements	8.2.14	<a href="#">MIT License</a>
angular/forms	8.2.14	<a href="#">MIT License</a>
angular/platform-browser	8.2.14	<a href="#">MIT License</a>
angular/platform-browser-dynamic	8.2.14	<a href="#">MIT License</a>
angular/router	8.2.14	<a href="#">MIT License</a>
attr	2.5.1	LGPL-2.1-or-later License AND GPL-2.0-or-later License
avahi	0.8	GPL-2.0-or-later License AND LGPL-2.1-or-later License
bash	5.1.16	GPL-3.0-or-later License
binutils	2.38	GPL-3.0-only License
boost	1.78.0	<a href="#">Boost Software License 1.0</a> AND MIT License AND Python License 2.0
Boost C++ Libraries	1.67	<a href="#">Boost Software License 1.0</a>
BOOST Library	1.69.0	<a href="#">Boost Software License 1.0</a>
brotli	1.0.9	MIT License

Package	Version	License
busybox	1.35.0	GPL-2.0-only License AND bzip2-1.0.4 License
bzip2	1.0.8	bzip2-1.0.6 License AND GPL-3.0-or-later License AND <a href="#">Apache License 2.0</a> AND MS-PL License AND BSD 3-Clause License AND zlib License
ca-certificates	20211016	GPL-2.0-or-later License AND MPL-2.0 License
cairo	1.16.0	(IMPL-1.1 License OR LGPL-2.1-only License)) AND GPL-3.0-or-later License
commander	2.8.1	<a href="#">MIT License</a>
coreutils	9.0	GPL-3.0-or-later License
cpprest	2.10.18	MIT License
cpprestsdk	2.10.10	<a href="#">MIT License</a>
cryptsetup	2.4.3	GPL-2.0-with-OpenSSL-exception License
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Cyrus SASL	2.1.27	<a href="#">BSD-4-Clause Carnegie Mellon University Variant</a>
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delaunator	4.0.1	<a href="#">ISC License</a>
delaunator-cpp	0.4.0*	<a href="#">MIT License</a>
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fpga-manager-script	1.0	<a href="#">Proprietary License</a>



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fribidi	1.0.13	LGPL-2.1-or-later License
gawk	5.1.1	GPL-3.0-only License
gcc-runtime	11.4.0	GPL-3.0-with-GCC-exception License
gdb	11.2	GPL-2.0-only License AND GPL-3.0-only License AND LGPL-2.0-only License AND LGPL-3.0-only License
gdbm	1.23	GPL-3.0-only License
gdk-pixbuf	2.42.10	LGPL-2.1-or-later License
glib-2.0	2.72.3	LGPL-2.1-or-later License AND BSD 3-Clause License AND Public Domain
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graphviz	2.50.0	EPL-1.0 License
Guidelines Support Library	4.0.0	<a href="#">MIT License</a>
harfbuzz	4.0.1	MIT License
haveged	1.9.18	GPL-3.0-only License
iconv-lite	0.4.24	<a href="#">MIT License</a>
ICU	68.2	<a href="#">ICU License</a>
icu	70.1	ICU License
iniparser	4.1+git	MIT License
jansson	2.13.1	MIT License

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kernel-module-rsusbtmc	1.5+git	GPL-2.0-only License
keyutils	1.6.1	LGPL-2.1-or-later License AND GPL-2.0-or-later License
kmod	29	GPL-2.0-or-later License AND LGPL-2.1-or-later License
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libgpod	1.6.3	LGPL-2.1-or-later License
libgudev	237	LGPL-2.1-only License
libice	1.0.10	MIT License
libidn2	2.3.2	(LGPL-2.0-or-later License OR LGPL-3.0-only License)) AND GPL-3.0-or-later License AND Unicode-DFS-2016 License
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libndp	1.8	LGPL-2.1-only License
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libpcre	8.45	BSD 3-Clause License
libpcre2	10.40	BSD 3-Clause License
libpng	1.6.39	libpng License
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librsvg	2.52.10	LGPL-2.1-or-later License
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libsndfile1	1.0.31	LGPL-2.1-only License
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libusb	1.0.23	<a href="#">GNU Lesser General Public License v2.1</a>
libusb1	1.0.26	LGPL-2.1-or-later License
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libxcb	1.14	MIT License
libxcrypt	4.4.33	LGPL-2.1-only License
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libxdmcp	1.1.3	MIT License
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lightercollective	0.0.0	<a href="#">ISC License</a>
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main-app	1.0	MIT License
mDNS Res-ponder	320.5	<a href="#">Artistic License 2.0</a>

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mtdev	1.1.6	MIT License
ncurses	6.3+20220423	MIT License
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nginx-dav-ext-module	3.0.0	BSD 2-Clause License
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ngx-translate/ http-loader	4.0.0	<a href="#">MIT License</a>
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noVNC	0.4	<a href="#">BSD 2-clause "Simplified" License</a>
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nss	3.74	(IMPL-2.0 License AND MIT License)) OR (IMPL-2.0 License AND GPL-2.0-or-later License AND MIT License)) OR (IMPL-2.0 License AND LGPL-2.1-or-later License AND MIT License)) OR

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OncRpc	1.14	<a href="#">Sun RPC License</a>
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openocd	0.12+git	GPL-2.0-only License
openssl	3.0.14	<a href="#">Apache License 2.0</a>
OpenSSL	1.1.1b	<a href="#">OpenSSL License</a>
OpenSSL	1.1.1c	<a href="#">OpenSSL License</a>
OpenSSL cryptographic library	1.1.1m	<a href="#">OpenSSL License</a>
OpenSSL cryptographic library	1.1.1b	<a href="#">OpenSSL License</a>
packagegroup-firmware-image	1.0	MIT License
packagegroup-uso-espresso	1.0	MIT License
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parted	3.4	GPL-3.0-or-later License
path-parse	1.0.6	<a href="#">MIT License</a>
pcsc-lite	1.9.0	BSD 3-Clause License AND GPL-3.0-or-later License
perf	1.0	GPL-2.0-only License
perl	5.34.3	Artistic License 1.0 OR GPL-1.0-or-later License
PHP	7.2.11	<a href="#">PHP License v3.01</a>
pixman	0.40.0	MIT License AND Public Domain
polkit	0.119	LGPL-2.0-or-later License
popt	1.18	MIT License
primeicons	1.0.0-beta.10	<a href="#">MIT License</a>
primeng	8.1.1	<a href="#">MIT License</a>
pugixml	1.11	<a href="#">MIT License</a>
pugixml	1.12	MIT License
pulseaudio	15.0	LGPL-2.1-or-later License AND MIT License AND BSD 3-Clause License

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python3	3.10.14	PSF-2.0 License
qtbase	5.15.13+git	Qt-Commercial License
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qtgraphicaleffects	5.15.13+git	Qt-Commercial License
qtlocation	5.15.13+git	Qt-Commercial License
qtmultimedia	5.15.13+git	Qt-Commercial License
qtquickcontrols	5.15.13+git	Qt-Commercial License
qtquickcontrols2	5.15.13+git	Qt-Commercial License
qtremoteobjects	5.15.13+git	Qt-Commercial License
qtsvg	5.15.13+git	Qt-Commercial License
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RapidXml XML parser	1.13	<a href="#">MIT License</a> OR <a href="#">Boost Software License 1.0</a>
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rpcbind	1.2.6	BSD 3-Clause License
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rxjs	6.4.0	<a href="#">Apache License 2.0</a>
safer-buffer	2.1.2	<a href="#">MIT License</a>
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SQLite	3.22.0	<a href="#">SQLITE Copyright Notice</a>
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strace	5.16	LGPL-2.1-or-later License AND GPL-2.0-or-later License
systemd	250.5	GPL-2.0-only License AND LGPL-2.1-only License
systemd-conf	1.0	MIT License
systemd-serial- getty	1.0	GPL-2.0-or-later License
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TightVNC	2.7.10	<a href="#">GNU General Public License v2.0</a>
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ttf-dejavu	2.37	BitstreamVera License
tzdata	2024a	Public Domain AND BSD 3-Clause License
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udisks2	2.9.4	GPL-2.0-or-later License AND LGPL-2.0-or-later License
udmabuf-module	1.0	BSD 2-Clause License
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util-linux	2.37.4	GPL-2.0-or-later License AND LGPL-2.1-or-later License AND BSD 3-Clause License AND BSD 4-Clause License
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vega-force	4.0.3	<a href="#">BSD 3-clause "New" or "Revised" License</a>



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vega-loader	4.1.3	BSD 3-clause "New" or "Revised" License
vega-parser	5.12.0	BSD 3-clause "New" or "Revised" License
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vega-regression	1.0.4	BSD 3-clause "New" or "Revised" License
vega-runtime	5.0.2	BSD 3-clause "New" or "Revised" License
vega-scale	6.0.0	BSD 3-clause "New" or "Revised" License
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```
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```
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```

```
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Version 3, 29 June 2007

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```

```
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
```

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```
=====
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```

binutils-2.38: libiberty/COPYING.LIB  
fribidi-1.0.13: COPYING

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That's all there is to it!

```
=====
alsa-lib-1.2.6.1: src/socket.c, 9-24
=====
```

```
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```
=====
alsa-ucm-conf-1.2.6.3: LICENSE
=====
```

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=====
```

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

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```
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```

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```
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```

```
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Ty Coon, President of Vice
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```
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=====
```

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```

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```

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```
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```

```
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
```

That's all there is to it!

```
=====
attr-2.5.1: tools/attr.c, 1-17
```

```
=====
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 *
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 */

=====
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=====

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 */

=====
avahi-0.8: LICENSE
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libassuan-2.5.6: COPYING.LIB
libatasmart-0.19: LGPL
libdaemon-0.14: LICENSE
libgcc-11.4.0: COPYING.LIB
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```

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That's all there is to it!

```
=====
avahi-0.8: avahi-common/address.h, 1-25
=====

#ifndef fooaddressshfoo
#define fooaddressshfoo

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 * Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307
 * USA.
 */

/** \file address.h Definitions and functions to manipulate IP addresses. */

#include <inttypes.h>
```



```
=====
avahi-0.8: avahi-core/dns.h, 1-23
=====

#ifndef foodnshfoo
#define foodnshfoo

/**
 * This file is part of avahi.
 *
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 * You should have received a copy of the GNU Lesser General Public
 * License along with avahi; if not, write to the Free Software
 * Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307
 * USA.
 */

#include "rr.h"

=====
avahi-0.8: avahi-daemon/main.c, 1-21
=====

/**
 * This file is part of avahi.
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 * Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307
 * USA.
```

```

***/

#ifdef HAVE_CONFIG_H
#include <config.h>

=====

avahi-0.8: avahi-client/client.h, 1-23
=====

#ifndef fooclienthfoo
#define fooclienthfoo

/****
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    Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307
    USA.
****/

#include <inttypes.h>

=====

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binutils-2.38: COPYING3
binutils-2.38: gas/COPYING
binutils-2.38: include/COPYING3
binutils-2.38: bfd/COPYING
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```

```
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readline-8.1.2: COPYING
xz-5.2.6: COPYING.GPLv3
```

```
=====
```

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Version 3, 29 June 2007

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

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or
```

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

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

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

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

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

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

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```
=====
binutils-2.38: COPYING.LIB
gdb-11.2: COPYING.LIB
=====
```

```
GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991
```

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[This is the first released version of the library GPL. It is  
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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.

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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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To apply these terms, attach the following notices to the library. 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 library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

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```

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

```
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
```

That's all there is to it!

```
=====
binutils-2.38: COPYING3.LIB
gcc-runtime-11.4.0: COPYING3.LIB
gdb-11.2: COPYING3.LIB
gmp-6.2.1: COPYING.LESSERv3
libgcc-11.4.0: COPYING3.LIB
libunistring-1.0: COPYING.LIB
nettle-3.7.3: COPYING.LESSERv3
=====
```

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Version 3, 29 June 2007

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- d) Do one of the following:

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Julian Seward, Cambridge, UK.

[jseward@bzip.org](mailto:jseward@bzip.org)

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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bzip2-1.0.8: License.zlib.txt
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Jean-loup Gailly jloup@gzip.org  
 Mark Adler madler@alumni.caltech.edu

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```
=====
ca-certificates-20211016: debian/copyright
=====
```

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>  
 Source: <http://ftp.debian.org/debian/pool/main/c/ca-certificates/>

Files: debian/\*  
 examples/\*  
 Makefile

```

    mozilla/*
    sbin/*
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       mozilla/nssckbi.h
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        (certdata.txt <= CVS Revision: 1.82)
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```

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```
=====
coreutils-9.0: src/ls.c, 1-15
=====
```

```
/* 'dir', 'vdir' and 'ls' directory listing programs for GNU.
   Copyright (C) 1985-2021 Free Software Foundation, Inc.
```

```
This program is free software: you can redistribute it and/or modify
it under the terms of the GNU 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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```

```
You should have received a copy of the GNU General Public License
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```

```
=====
cpprest-2.10.18: license.txt
=====
```

C++ REST SDK

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Ty Coon, President of Vice
```

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```
=====
dbus-1.14.8: dbus/dbus.h, 6-20
=====
```

```
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```

```
=====
duktape-2.7.0: LICENSE.txt
```

```
=====
=====
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=====
```

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```
=====
e2fsprogs-1.46.5: NOTICE
=====
```

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Theodore Ts'o  
23-June-2007

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Ty Coon, President of Vice
```

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```
=====
e2fsprogs-1.46.5: lib/ext2fs/ext2fs.h, 1-9
=====
```

```

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 * ext2fs.h --- ext2fs
 *
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 *
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 * %End-Header%

=====
e2fsprogs-1.46.5: lib/e2p/e2p.h, 1-7
=====

/*
 * e2p.h --- header file for the e2p library
 *
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=====
e2fsprogs-1.46.5: lib/uuid/uuid.h.in, 1-32
=====

/*
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 *
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```

=====
e2fsprogs-1.46.5: lib/et/et_name.c, 1-11
=====

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=====
e2fsprogs-1.46.5: lib/ss/ss.h, 1-20
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*
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* culture." --- http://scriptingnewsarchive.userland.com/1999/12/13
*
* Let no one say political correctness isn't dead....

```

```

=====
elfutils-0.186: debuginfod/debuginfod-client.c, 1-27
=====

```

```

/* Retrieve ELF / DWARF / source files from the debuginfod.
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```
=====
flac-1.3.4: src/Makefile.am, 1-17
=====

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```

```
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```
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xz-5.2.6: COPYING.GPLv2
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```
=====
flac-1.3.4: src/flac/main.c, 1-18
=====
```

```
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=====
```

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That's all there is to it!

```
=====
flac-1.3.4: src/plugin_common/all.h, 1-18
=====
```

```
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 */
```

```
=====
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```
=====
flac-1.3.4: include/FLAC/all.h, 65-70
=====
```

```
* By writing a little code and linking against libFLAC, it is
* relatively easy to add FLAC support to another program. The
* library is licensed under <A HREF="http://xiph.org/licenses/bsd-license.html">Xiph's BSD license</A>.
* Complete source code of libFLAC as well as the command-line
* encoder and plugins is available and is a useful source of
* examples.
```

```
=====
fontconfig-2.13.1: COPYING
=====
```

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```
=====
fontconfig-2.13.1: src/fcftypetype.c, 1-45
=====
```

```
/*
 * fontconfig/src/fcftypetype.c
 *
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 */
```

```

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*/

=====
fontconfig-2.13.1: src/fccache.c, 1671-1686
=====

/*
 * This code implements the MD5 message-digest algorithm.
 * The algorithm is due to Ron Rivest.  This code was
 * written by Colin Plumb in 1993, no copyright is claimed.
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 *
 * Equivalent code is available from RSA Data Security, Inc.
 * This code has been tested against that, and is equivalent,
 * except that you don't need to include two pages of legalese
 * with every copy.
 *
 * To compute the message digest of a chunk of bytes, declare an
 * MD5Context structure, pass it to MD5Init, call MD5Update as
 * needed on buffers full of bytes, and then call MD5Final, which
 * will fill a supplied 16-byte array with the digest.
 */

=====
fpga-manager-script-1.0: fpgautil.c, 1-24
=====

/*****
 *
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 */

```

```

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*
*****/
/*****/

```

```

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=====

```

```

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=====  
 freetype-2.11.1: docs/FTL.TXT  
 =====

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2006-Jan-27

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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```
=====
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```
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Version 3.1, 31 March 2009

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=====
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```
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```

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```
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```

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```

=====
gdk-pixbuf-2.42.10: COPYING
glib-2.0-2.72.3: COPYING
glib-2.0-2.72.3: gmodule/COPYING
glibc-2.35: COPYING.LIB
libgudev-237: COPYING
libmnl-1.0.4: COPYING
libndp-1.8: COPYING
libnl-3.5.0: COPYING
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librsvg-2.52.10: COPYING.LIB
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util-linux-libuuid-2.37.4: Documentation/licenses/COPYING.LGPL-2.1-or-later
xz-5.2.6: COPYING.LGPLv2.1
=====

```

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Version 2.1, February 1999

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```

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```
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```

```
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
```

That's all there is to it!

```
=====
gdk-pixbuf-2.42.10: gdk-pixbuf/gdk-pixbuf.h, 1-26
=====
```

```
/* GdkPixbuf library - Main header file
 *
 * Copyright (C) 1999 The Free Software Foundation
 *
 * Authors: Mark Crichton <crichton@gimp.org>
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```

```

#ifndef GDK_PIXBUF_H
#define GDK_PIXBUF_H

```

```

=====
glib-2.0-2.72.3: glib/glib.h, 4-17
glib-2.0-2.72.3: gmodule/gmodule.h, 4-17
=====

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glib-2.0-2.72.3: docs/reference/COPYING
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glibc-2.35: LICENSES
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```
=====
gnutls-3.7.4: LICENSE
=====
```

```
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```
=====
gpgme-1.17.1: src/gpgme.h.in, 1-23
=====
```

```
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 *
 * Generated from gpgme.h.in for @GPGME_CONFIG_HOST@.
 */
```

```
=====
gpgme-1.17.1: src/engine.h, 1-22
=====
```

```

/* engine.h - GPGME engine interface.
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Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA
02111-1307, USA. */

#ifndef ENGINE_H
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```
harfbuzz-4.0.1: src/hb-ucd.cc, 1-15
```

```
=====
```

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```
=====
kernel-module-mali-r9p0-01rel10: linux/license/gpl/mali_kernel_license.h
=====
```

```
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 *
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 */

/**
 * @file mali_kernel_license.h
 * Defines for the macro MODULE_LICENSE.
 */

#ifndef __MALI_KERNEL_LICENSE_H__
#define __MALI_KERNEL_LICENSE_H__
```

```

#ifdef __cplusplus
extern "C" {
#endif

#define MALI_KERNEL_LINUX_LICENSE      "GPL"
#define MALI_LICENSE_IS_GPL 1

#ifdef __cplusplus
}
#endif

#endif /* __MALI_KERNEL_LICENSE_H__ */

=====
kernel-module-rsusbtmc-1.5+git: COPYING
=====

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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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```
=====
libassuan-2.5.6: src/assuan.c, 1-20
=====
```

```
/* assuan.c - Global interface (not specific to context).
 * Copyright (C) 2009 Free Software Foundation, Inc.
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 *
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*/

```

```

=====
libassuan-2.5.6: src/assuan-defs.h, 1-20
=====

```

```

/* assuan-defs.h - Internal definitions to Assuan
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*/

```

```

=====
libblockdev-2.26: LICENSE
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=====

```

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=====  
 libdaemon-0.14: libdaemon/daemon.h, 9-21  
 =====

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=====
libdrm-2.4.110: xf86drm.c, 9-32
=====
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```
=====
libidn2-2.3.2: src/idn2.c, 1-16
=====
```

```
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```

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*/
```

```
=====
libidn2-2.3.2: lib/idn2.h.in, 1-27
=====
```

```
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[1] <https://gitlab.freedesktop.org/libinput/libinput/blob/main/include/linux/input.h>

```
=====  
libjpeg-turbo-2.1.5.1: cdjpeg.h, 1-13  
=====
```

```
/*  
 * cdjpeg.h  
 *  
 * This file was part of the Independent JPEG Group's software:  
 * Copyright (C) 1994-1997, Thomas G. Lane.  
 * Modified 2019 by Guido Vollbeding.  
 * libjpeg-turbo Modifications:  
 * Copyright (C) 2017, 2019, 2021, D. R. Commander.  
 * For conditions of distribution and use, see the accompanying README.ijg  
 * file.  
 *  
 * This file contains common declarations for the sample applications  
 * cjpeg and djpeg. It is NOT used by the core JPEG library.
```

```
=====  
libjpeg-turbo-2.1.5.1: jpeglib.h, 1-16  
=====
```

```
/*  
 * jpeglib.h  
 *  
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 * file.  
 *  
 * This file defines the application interface for the JPEG library.  
 * Most applications using the library need only include this file,  
 * and perhaps jerror.h if they want to know the exact error codes.  
 */
```

```
=====  
libjpeg-turbo-2.1.5.1: djpeg.c, 1-11  
=====
```

```
/*  
 * djpeg.c  
 *
```

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```
=====
libmali-xlnx-r9p0-01rel0: EULA
=====
```

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LES-PRE-xxxxx

```
=====
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=====
```

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=====
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=====
```

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 */
```

```
=====
libtirpc-1.3.2: src/netname.c, 1-27
rpcbind-1.2.6: src/rpcinfo.c, 1-27
=====
```

```
/*
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*/

```

```

=====
libunistring-1.0: README, 45-65
=====

```

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-----

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```

=====
libunistring-1.0: doc/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{<\header>}}
@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
@ifnotinfo
@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.

@ignore
@c This was: @copying but it triggers a makeinfo 4.13 bug
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```

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@end ignore

@end ifinfo

@titlepage

@title GNU libunistring, version @value{VERSION}

@subtitle updated @value{UPDATED}

@author Bruno Haible

@ifnohtml

@page

@vskip 0pt plus 1filll

@c @insertcopying

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@end ifnohtml

@end titlepage

```

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@top GNU libunistring
@end ifnottex

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* Conventions::                Conventions used in this manual
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* unistr.h::                    Elementary Unicode string functions
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* unictype.h::                 Unicode character classification and properties
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* unigbrk.h::                  Grapheme cluster breaking
* uniwbrk.h::                  Word breaks in strings
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* uninorm.h::                  Normalization forms
* unicast.h::                  Case mappings
* uniregex.h::                 Regular expressions
* Using the library::          How to link with the library and use it?
* More functionality::         More advanced functionality
* The wchar_t mess::           Why @code{wchar_t *} strings are useless
* The char32_t problem::       Why @code{char32_t *} strings are problematic
* Licenses::                   Licenses

* Index::                       General Index

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* char * strings::             What to keep in mind with @code{char *} strings
* Unicode strings::            How are Unicode strings represented?

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```

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```
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```

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```
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```

```
* GNU GPL::           GNU General Public License
* GNU LGPL::         GNU Lesser General Public License
* GNU FDL::          GNU Free Documentation License
```

```
@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>
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@item <unigrk.h>
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@item <uniwbrk.h>
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@item <uninorm.h>
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@item <unicase.h>
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@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 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

@cindex 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.

@cindex 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.

```

@cindex 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{mbuiter} that
represent multibyte characters and allow to iterate across a multibyte
string with the same ease as through a unibyte string.

```

```

@item
gnulib 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
gnulib has functions @func{mbschr} and @func{mbsrchr} that are
like @posixfunc{strchr} and @posixfunc{strrchr}, but work in multibyte locales.
@item
gnulib has a function @func{mbsstr}, like @posixfunc{strstr}, but works
in multibyte locales.
@item
gnulib has functions @func{mbscspn}, @func{mbspbrk}, @func{mbsspn}
that are like @posixfunc{strcspn}, @posixfunc{strpbrk}, @posixfunc{strspn}, but
work in multibyte locales.
@item
gnulib has functions @func{mbssep} and @func{mbstok_r} that are
like @posixfunc{strsep} and @posixfunc{strtok_r} but work in multibyte locales.
@item
gnulib has functions @func{mbscasemp}, @func{mbsncasemp},
@func{mbspcasemp}, and @func{mbscasestr} that are like @posixfunc{strcasemp},
@posixfunc{strncasemp}, and @posixfunc{strcasestr}, but
work in multibyte locales. Still, the function @code{ulc_casemp} 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 unitypes.texi
#include unistr.texi
#include uniconv.texi
#include unistdio.texi
#include uniname.texi
#include unictype.texi
#include uniwidth.texi
#include unigbrk.texi
#include uniwbrk.texi
#include unilbrk.texi
#include uninorm.texi
#include unicast.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 `LIBUNISTRING_PREFIX` the value of the `--prefix` option that you passed to `configure` while installing this package. If you didn't pass any `--prefix` option, then the package is installed in `/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`.

`index` 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.

`node` Include files

`section` 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.

`deftypevr` Macro `int _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`.  
`end deftypevr`

`deftypevr` Constant `int _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`.  
`end deftypevr`

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.

@node Autoconf macro  
@section Autoconf macro

@cindex autoconf macro  
GNU Gnulib provides an autoconf macro that tests for the availability of `{libunistring}`. It is contained in the Gnulib module `{samp{libunistring}}`, see@texnl{}  
[@url{https://www.gnu.org/software/gnulib/MODULES.html#module=libunistring}](https://www.gnu.org/software/gnulib/MODULES.html#module=libunistring).

@amindex gl\_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:

@itemize @bullet  
@item  
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.

@item  
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).

@item  
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 `{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

The files of this package are covered by the licenses indicated in each particular file or directory. Here is a summary:

@itemize @bullet

@item

The @code{libunistring} library and its header files are dual-licensed under "the GNU LGPLv3+ or the GNU GPLv2+". This means, you can use it under either

@itemize @bullet

@item @minus{}

the terms of the GNU Lesser General Public License (LGPL) version 3 or (at your option) any later version, or

@item @minus{}

the terms of the GNU General Public License (GPL) version 2 or (at your option) any later version, or

@item @minus{}

```

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@end itemize
You find the GNU LGPL version 3 in @ref{GNU LGPL}. This license is
based on the GNU GPL version 3, see @ref{GNU GPL}.
@*
You can find the GNU GPL version 2 at
@url{https://www.gnu.org/licenses/old-licenses/gpl-2.0.html}.
@*
Note: This dual license makes it possible for the @code{libunistring} library
to be used by packages under GPLv2 or GPLv2+ licenses, in particular. See
the table in @url{https://www.gnu.org/licenses/gpl-faq.html#AllCompatibility}.

```

```

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@end itemize

```

```

@menu
* GNU GPL::          GNU General Public License
* GNU LGPL::        GNU Lesser General Public License
* GNU FDL::         GNU Free Documentation License
@end menu

```

```

@page
@node GNU GPL
@appendixsec GNU GENERAL PUBLIC LICENSE
@cindex GPL, GNU General Public License
@cindex License, GNU GPL
@include gpl.texi
@page
@node GNU LGPL
@appendixsec GNU LESSER GENERAL PUBLIC LICENSE
@cindex LGPL, GNU Lesser General Public License
@cindex License, GNU LGPL

```

```

@include lgpl.texi
@page
@node GNU FDL
@appendixsec GNU Free Documentation License
@cindex FDL, GNU Free Documentation License
@cindex License, GNU FDL
@include fdl.texi

@node Index
@unnumbered Index

@printindex cp

@bye

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

=====
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=====

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Version 2, June 1991

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```
=====
libvorbis-1.3.7: include/vorbis/vorbisenc.h, 1-11
=====
```

```

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test-`getrandom-interface.c`, test-`symbols-compat.sh`,  
test-`symbols-renames.sh`, test-`symbols-static.sh`,  
build-`aux/scripts/gen-crypt-h`,  
build-`aux/scripts/gen-crypt-symbol-vers-h`,  
build-`aux/scripts/gen-libcrypt-map`,  
build-`aux/scripts/skip-if-exec-format-error`,  
build-`aux/m4/zw_alignment.m4`, build-`aux/m4/zw_static_assert.m4`,  
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```

=====
lvm2-2.03.11: COPYING
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lzo-2.10: src/lzo_init.c, 5-25
=====
```

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mmc-utils-0.1+git: mmc.c, 1-20
=====
```

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```

```
*
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*/
```

```
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nettle-3.7.3: serpent-decrypt.c, 14-36  
nettle-3.7.3: serpent-set-key.c, 14-36  
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```

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```
=====
nspr-4.29: configure.in, 3-6
=====
```

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nspr-4.29: Makefile.in, 4-38
=====
```

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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

```

```

=====
nss-3.74: nss/COPYING
=====

```

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END OF TERMS AND CONDITIONS

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

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

```
This program is free software; you can redistribute it and/or modify
```

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

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

```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

That's all there is to it!

```
=====
perl-5.34.3: Artistic
=====
```

The "Artistic License"

Preamble

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The End

```
=====
pixman-0.40.0: COPYING
=====
```

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\*/

```
=====
pixman-0.40.0: pixman/pixman-matrix.c, 1-21
=====
```

/\*

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\*

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\*/

```
=====
pixman-0.40.0: pixman/pixman-arm-neon-asm.h, 1-24
=====
```

```

=====
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 * DEALINGS IN THE SOFTWARE.
 *
 * Author: Siarhei Siamashka (siarhei.siamashka@nokia.com)
 */

```

```

=====
polkit-0.119: COPYING
=====

```

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That's all there is to it!

```
=====
polkit-0.119: src/polkit/polkit.h, 1-20
=====
```

```
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 *
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 * Boston, MA 02111-1307, USA.
 *
 * Author: David Zeuthen <davidz@redhat.com>
 */
```

```
=====
popt-1.18: COPYING
=====
```

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```
=====
pugixml-1.12: readme.txt, 29-52
=====
```

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```
=====
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=====
```

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However, the server side has optional GPL dependencies. These include the libsamplerate and gdbm (core libraries), LIRC (lirc module) and FFTW (equalizer module), although others may also be included in the future. If PulseAudio is compiled with these optional components, this effectively downgrades the license of the server part to GPL (see the file GPL for details), exercising section 3 of the LGPL. In such circumstances, you should treat the client library (libpulse) of PulseAudio as being LGPL licensed and the server part (libpulsecore) as being GPL licensed. Since the PulseAudio daemon, tests, various utilities/helpers and the modules link to libpulsecore and/or the aforementioned optional GPL dependencies they are of course also GPL licensed also in this scenario.

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Andre Adrian's echo cancellation implementation is licensed under a less restrictive license - see src/modules/echo-cancel/adrian-license.txt for details.

Some other files pulled into PA source (i.e. reference implementations that are considered too small and stable to be considered as an external library) use the more permissive MIT license. These include the device reservation DBus protocol and realtime kit implementations.

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While we attempt to provide a summary here, it is the ultimate responsibility of the packager to ensure the components they use in their build of PulseAudio meets their license requirements.

```
=====
pulseaudio-15.0: GPL
=====
```

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Version 2, June 1991

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```

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```

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

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```
=====
pulseaudio-15.0: src/modules/echo-cancel/adrian-license.txt
=====
```

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```
=====
pulseaudio-15.0: src/pulsecore/filter/LICENSE.WEBKIT
=====
```

```
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 */
```

```
=====
pulseaudio-15.0: src/pulsecore/resampler.h, 4-21
=====
```

```
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 * This file is part of PulseAudio.
 *
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```

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\*\*\*/  
 =====

pulseaudio-15.0: src/modules/reserve.h, 6-28  
 =====

/\*\*\*

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\*\*\*/  
 =====

pulseaudio-15.0: src/pulsecore/rtkit.h, 6-29  
 =====

/\*\*\*

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\*\*\*/  
 =====

pulseaudio-15.0: src/modules/echo-cancel/adrian-aec.h, 3-12  
 =====

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 \* Author: Andre Adrian  
 \*  
 \* Acoustic Echo Cancellation Leaky NLMS-pw algorithm  
 \*  
 \* Version 0.3 filter created with www.dsptutor.freeuk.com  
 \* Version 0.3.1 Allow change of stability parameter delta  
 \* Version 0.4 Leaky Normalized LMS - pre whitening algorithm  
 \*/

=====

pulseaudio-15.0: src/pulsecore/filter/biquad.h, 1-4  
 =====

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 \*/

=====

python3-3.10.14: LICENSE  
 =====

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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.

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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"Redistributables" shall mean the portions of the Licensed Software set forth in Appendix 1 that may be distributed pursuant to the terms of this Agreement in object code form only, including any relevant documentation. Where relevant, any reference to Licensed Software in this Agreement shall include and refer also to Redistributables.

"Renewal Term" shall mean an extension of previous Development License Term as agreed between the Parties.

"Submitted Modified Software" shall have the meaning as set forth in Section 2.3.

"Support" shall mean standard developer support that is provided by The Qt Company to assist Designated Users in using the Licensed Software in accordance with this Agreement and the Support Terms.

"Support Terms" shall mean The Qt Company's standard support terms specified in Appendix 9 hereto.

"Taxes" shall have the meaning set forth in Section 10.5.

"The Qt Company" shall mean:

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- (ii) in the event the Licensee is an individual residing outside of the United States or a legal entity incorporated outside of the United States or having its registered office outside of the United States,

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"Third-Party Software" shall have the meaning set forth in Section 4.

"Updates" shall mean a release or version of the Licensed Software containing bug fixes, error corrections and other changes that are generally made available to users of the Licensed Software that have contracted for Support. Updates are generally depicted as a change to the digits following the decimal in the Licensed Software version number. The Qt Company shall make Updates available to the Licensee under the Support. Updates shall be considered as part of the Licensed Software hereunder.

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no less than thirty (30) days before expiry of the respective Development License Term. The Qt Company shall, in good time before the due date for the above notification, remind the Licensee on the coming Renewal Term. Unless otherwise agreed between the Parties, Renewal Term shall be 12 months.

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The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

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License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

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A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due and which have not been disputed by the Licensee in good faith.

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Licensee shall, within thirty (30) days from receiving The Qt Company's request to that effect, deliver to The Qt Company a report based on Licensee's Records, such report to contain information, in sufficient detail, on (i) number and identity of users working with Licensed Software or Open Source Qt, (ii) copies of Redistributables distributed by Licensee during the most recent calendar quarter and/or any other term specified by The Qt Company, , and (iii) any other information pertaining to Licensee's compliance with the terms of this Agreement (like e.g. information on products and/or projects relating to use of Distribution Licenses), as The Qt Company may reasonably require from time to time.

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## 12. TERM AND TERMINATION

#### 12.1. Agreement Term

This Agreement shall enter into force upon due acceptance by both Parties and remain in force until terminated pursuant to the terms of this Section 12 ("Agreement Term").

#### 12.2. Termination for breach and suspension of rights

Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within ten (10) business days following The Qt Company's written notice thereof.

#### 12.3. Termination for insolvency

Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

#### 12.4. Parties' Rights and Duties upon Termination

Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software under this Agreement. For clarity, a Development License of a Designated User or a QA Tools License, and all rights relating thereto, shall always terminate at the expiry of the respective Development License Term, even if the Agreement continues to remain in force.

Upon such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same by Licensee's duly authorized officer to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Except when this Agreement is terminated by The Qt Company due to Licensee's material breach as set forth in Section 12.2, the Licensee may continue

distribution of Applications and Devices under the terms of this Agreement despite the termination of this Agreement. In such event the terms hereof will continue to be applicable and govern any such distribution of Applications and Devices beyond the expiry or termination of this Agreement. In case of termination by The Qt Company due to Licensee's material breach, Licensee must cease any distribution of Applications and Devices at the date of termination of this Agreement.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee pay to The Qt Company all such fees within 30 days from the effective date of termination of this Agreement.

Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

#### 12.5. Extension of Rights under Special Circumstances

In the event of The Qt Company choosing not to renew the Development License(s) or QA Tools Licenses, as set forth in Section 3.1 and 3.5 respectively, and where such decision of non-renewal is not due to any ongoing breach or alleged breach (as reasonably determined by The Qt Company) by Licensee of the terms of this Agreement or any applicable license terms of Open Source Qt, then all valid and affected Development Licenses and QA Tools licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in Section 10.2.

In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) or QA Tools Licenses, assigned to party, who has assumed The Qt Company's position as a legitimate licensor of Licensed Software under this Agreement, then all valid Development Licenses and QA Tools Licenses possessed by the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the terms of this Agreement.

For clarity, in case of an extension under this Section 12.5, any such extension shall not apply to The Qt Company's Support obligations, but Support shall be provided only up until the end of the respective fixed Development License Term regardless of the extension of relevant Development License or QA Tools License, unless otherwise agreed between the Parties.

#### 13. GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

- (i) this Agreement shall be construed and interpreted in accordance with



the laws of the State of California, USA, excluding its choice of law provisions;

- (ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
- (iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

- (i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;
- (ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
- (iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of International Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

#### 14. GENERAL PROVISIONS

##### 14.1. No Assignment

Except in the case of a merger or sale of substantially all of its corporate assets, Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

##### 14.2. No Third-Party Representations

Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company's behalf shall be void as to The Qt Company.

#### 14.3. Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12.4, 13 and 14.

#### 14.4. Entire Agreement

This Agreement, the Appendices hereto, the License Certificate and any applicable quote and Purchase Order accepted by The Qt Company constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein.

In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company's applicable processes relating to Licensed Software.

#### 14.5. Modifications

No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order ("Deviating Terms") shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms.

#### 14.6. Force Majeure

Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

#### 14.7. Notices

Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

#### 14.8. Export Control

Licensee acknowledges that the Redistributables, as incorporated in Applications or Devices, may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the Redistributables and exercise of licenses hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Redistributables, Applications and/or Devices.

#### 14.9. No Implied License

There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with The Qt Company and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software with any other software or hardware not delivered by The Qt Company under this Agreement.

#### 14.10. Attorney Fees

The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action, as to be ordered by the relevant dispute resolution body.

#### 14.11. Privacy

Licensee acknowledges and agrees that for the purpose of this Agreement, The Qt Company may collect, use, transfer and disclose personal data pertaining to Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data will be primarily collected from the relevant individuals but may be collected also from Licensee (e.g. in the course of Licensee's reporting obligations). The Parties acknowledge that as The Qt Company determines the purpose and means for such collection and processing of the applicable personal data, The Qt Company shall be regarded as the Data Controller under the applicable Data Protection Legislation. The Qt Company shall process any such personal data in accordance with its

privacy and security policies and practices, which will comply with all applicable requirements of the Data Protection Legislation.

#### 14.12. Severability

If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

#### 14.13. Marketing Rights

Parties have agreed upon Marketing Rights pursuant to Appendix 7, if any.

#### APPENDICES

The Agreement includes following Appendices 1-10, as applicable.

- Appendix 1: Licensed Software details
- Appendix 2: Pricing
- Appendix 3: Add-on Software details (optional)
- Appendix 4: Small business and startup Licenses (optional)
- Appendix 5: Non-commercial and educational Licenses (optional)
- Appendix 6: License Reporting (optional)
- Appendix 7: Marketing Rights (optional)
- Appendix 8: Intentionally left blank (optional)
- Appendix 9: Support Terms
- Appendix 10: Conversion from legacy Licenses to Subscription (optional)

#### APPENDIX 1: LICENSED SOFTWARE

The modules and/or tools that are included in the latest publicly available version of the respective product at the effective date of this Agreement- Qt for Application Development Professional (ADP), Qt for Application Development Enterprise (ADE), Qt for Device Creation Professional (DCP), Qt for Device Creation Enterprise (DCE), - are marked with "X" in the below table. The modules and tools are specific to each product version respectively and may vary from version to version. Modules and tools included in the latest publicly available version of the respective product at any given time are listed in Appendix 1 of the latest version of this Agreement available at [www.qt.io/terms-conditions/](http://www.qt.io/terms-conditions/). If a new version of Licensed Software does not include a module or tool present in an older version which Licensee is entitled to use under a valid license from The Qt Company, then Licensee will continue to have such right during the Term of this Agreement. In the event a new version of the Licensed Software adds modules or tools to any previous version(s), Licensee's rights will extend to cover also such additional modules and tools.

Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with "R" in the below table.

Modules / Tools	ADP	ADE	DCP	DCE
Active Qt	X,R	X,R	X,R	X,R
Qt 3D	X,R	X,R	X,R	X,R
Qt 5 Core Compatibility APIs	X,R	X,R	X,R	X,R
Qt Android Extras	X,R	X,R	X,R	X,R
Qt Bluetooth	X,R	X,R	X,R	X,R
Qt Canvas 3D	X,R	X,R	X,R	X,R
Qt Charts	X,R	X,R	X,R	X,R
Qt Concurrent	X,R	X,R	X,R	X,R
Qt Core	X,R	X,R	X,R	X,R
Qt Data Visualization	X,R	X,R	X,R	X,R
Qt D-Bus	X,R	X,R	X,R	X,R
Qt for Python	X,R	X,R	X,R	X,R
Qt for WebAssembly	X,R	X,R	X,R	X,R
Qt Gamepad	X,R	X,R	X,R	X,R
Qt Graphical Effects	X,R	X,R	X,R	X,R
Qt GUI	X,R	X,R	X,R	X,R
Qt Help	X,R	X,R	X,R	X,R
Qt Image Formats	X,R	X,R	X,R	X,R
Qt Location	X,R	X,R	X,R	X,R
Qt Lottie Animation	X,R	X,R	X,R	X,R
Qt Mac Extras	X,R	X,R	X,R	X,R
Qt Multimedia	X,R	X,R	X,R	X,R

Qt Multimedia Widgets	X,R   X,R   X,R   X,R
+-----+	
Qt Network	X,R   X,R   X,R   X,R
+-----+	
Qt Network Authorization	X,R   X,R   X,R   X,R
+-----+	
Qt NFC	X,R   X,R   X,R   X,R
+-----+	
Qt OpenGL	X,R   X,R   X,R   X,R
+-----+	
Qt PDF	X,R   X,R   X,R   X,R
+-----+	
Qt Platform Headers	X,R   X,R   X,R   X,R
+-----+	
Qt Positioning	X,R   X,R   X,R   X,R
+-----+	
Qt Print Support	X,R   X,R   X,R   X,R
+-----+	
Qt Purchasing	X,R   X,R   X,R   X,R
+-----+	
Qt QML	X,R   X,R   X,R   X,R
+-----+	
Qt Quick	X,R   X,R   X,R   X,R
+-----+	
Qt Quick 3D	X,R   X,R   X,R   X,R
+-----+	
Qt Quick Controls 1	X,R   X,R   X,R   X,R
+-----+	
Qt Quick Controls	X,R   X,R   X,R   X,R
+-----+	
Qt Quick Dialogs	X,R   X,R   X,R   X,R
+-----+	
Qt Quick Extras	X,R   X,R   X,R   X,R
+-----+	
Qt Quick Layouts	X,R   X,R   X,R   X,R
+-----+	
Qt Quick Test	X,R   X,R   X,R   X,R
+-----+	
Qt Quick Timeline	X,R   X,R   X,R   X,R
+-----+	
Qt Quick WebGL	X,R   X,R   X,R   X,R
+-----+	
Qt Quick Widgets	X,R   X,R   X,R   X,R
+-----+	
Qt Remote Objects	X,R   X,R   X,R   X,R
+-----+	
Qt Script	X,R   X,R   X,R   X,R
+-----+	
Qt Script Tools	X,R   X,R   X,R   X,R
+-----+	

Qt SCXML	X,R   X,R   X,R   X,R
+-----+	
Qt Sensors	X,R   X,R   X,R   X,R
+-----+	
Qt Serial Bus	X,R   X,R   X,R   X,R
+-----+	
Qt Serial Port	X,R   X,R   X,R   X,R
+-----+	
Qt Shader Tools	X,R   X,R   X,R   X,R
+-----+	
Qt Speech	X,R   X,R   X,R   X,R
+-----+	
Qt State Machine	X,R   X,R   X,R   X,R
+-----+	
Qt SQL	X,R   X,R   X,R   X,R
+-----+	
Qt SVG	X,R   X,R   X,R   X,R
+-----+	
Qt Test	X,R   X,R   X,R   X,R
+-----+	
Qt UI Tools	X,R   X,R   X,R   X,R
+-----+	
Qt Virtual Keyboard	X,R   X,R   X,R   X,R
+-----+	
Qt Wayland Compositor	X,R   X,R   X,R   X,R
+-----+	
Qt WebChannel	X,R   X,R   X,R   X,R
+-----+	
Qt WebEngine	X,R   X,R   X,R   X,R
+-----+	
Qt WebSockets	X,R   X,R   X,R   X,R
+-----+	
Qt WebView	X,R   X,R   X,R   X,R
+-----+	
Qt Widgets	X,R   X,R   X,R   X,R
+-----+	
Qt Windows Extras	X,R   X,R   X,R   X,R
+-----+	
Qt X11 Extras	X,R   X,R   X,R   X,R
+-----+	
Qt XML	X,R   X,R   X,R   X,R
+-----+	
Qt XML Patterns	X,R   X,R   X,R   X,R
+-----+	
Qt Designer (Qt Widget Designer)	X,R   X,R   X,R   X,R
+-----+	
Qt Linguist	X,R   X,R   X,R   X,R
+-----+	
Qt Assistant	X,R   X,R   X,R   X,R
+-----+	

lupdate	X,R	X,R	X,R	X,R	
+-----+					
lrelease	X,R	X,R	X,R	X,R	
+-----+					
lconvert	X,R	X,R	X,R	X,R	
+-----+					
Qt MQTT		X,R	X,R	X,R	
+-----+					
Qt KNX		X,R	X,R	X,R	
+-----+					
Qt OPC UA		X,R	X,R	X,R	
+-----+					
Qt CoAP		X,R	X,R	X,R	
+-----+					
Boot 2 Qt stacks			X,R	X,R	
+-----+					
Qt OTA			X,R	X,R	
+-----+					
Device Utilities			X,R	X,R	
+-----+					
Qt Debugging Bridge (QBD) Daemon			X,R	X,R	
+-----+					
Qt Quick Ultralite Controls			X,R	X,R	
+-----+					
Qt Quick Ultralite			X,R	X,R	
+-----+					
Qt Safe Renderer (QSR)				X,R	
+-----+					
Qt Application Manager				X,R	
+-----+					
Qt Interface Framework				X,R	
+-----+					
Neptune Reference UI				X,R	
+-----+					
Qt for Android Automotive (QAA)				X,R	
+-----+					
Qt Creator	X	X	X	X	
+-----+					
Qt Design Studio Professional	X	X	X	X	
+-----+					
androiddeployqt	X	X	X	X	
+-----+					
androidtestrunner	X	X	X	X	
+-----+					
canbusutil	X	X	X	X	
+-----+					
dumpcpp	X	X	X	X	
+-----+					
dumpdoc	X	X	X	X	
+-----+					



fixqt4headers.pl	X	X	X	X	
+-----+					
idc	X	X	X	X	
+-----+					
moc	X	X	X	X	
+-----+					
pixeltool	X	X	X	X	
+-----+					
qdbus	X	X	X	X	
+-----+					
qdbuscpp2xml	X	X	X	X	
+-----+					
qdbusviwer	X	X	X	X	
+-----+					
qdbusxml2cpp	X	X	X	X	
+-----+					
qdistancefieldgenerator	X	X	X	X	
+-----+					
qdoc	X	X	X	X	
+-----+					
qhelpgenerator	X	X	X	X	
+-----+					
qlalr	X	X	X	X	
+-----+					
qmake	X	X	X	X	
+-----+					
qml	X	X	X	X	
+-----+					
qmlcachegen	X	X	X	X	
+-----+					
qmldom	X	X	X	X	
+-----+					
qmleasing	X	X	X	X	
+-----+					
qmlformat	X	X	X	X	
+-----+					
qmllint	X	X	X	X	
+-----+					
qmlpreview	X	X	X	X	
+-----+					
qmlprofiler	X	X	X	X	
+-----+					
qmlscene	X	X	X	X	
+-----+					
qmltestrunner	X	X	X	X	
+-----+					
qmltime	X	X	X	X	
+-----+					
qmlviewer	X	X	X	X	
+-----+					

qtdiag	X	X	X	X	
+-----+					
qtpaths	X	X	X	X	
+-----+					
qtplugininfo	X	X	X	X	
+-----+					
qvkgen	X	X	X	X	
+-----+					
rcc	X	X	X	X	
+-----+					
tracegen	X	X	X	X	
+-----+					
uic	X	X	X	X	
+-----+					
windeployqt	X	X	X	X	
+-----+					
Target toolchains			X	X	
+-----+					
Qt Debugging Bridge Host Tools			X	X	
+-----+					
qtconfig-gui			X	X	
+-----+					
Qt Emulator			X	X	
+-----+					
Qt Creator VxWorks plugin			X	X	
+-----+					
Qt Creator plugin for Qt				X	
Application Manager					
+-----+					
qmlinterfacegenerator				X	
+-----+					
qmltoccpp				X	
+-----+					
qulfontcompiler				X	
+-----+					
Qt Deployment Server				X	
+-----+					

#### Rights for Application and Device use cases

Following table summarizes the rights afforded by different products of the Licensed Software to create and distribute Applications and Devices as defined in this Agreement (X marks for rights):

	Applications	Devices	
+-----+			
ADP	X		
+-----+			

		X		
ADE		X		
+-----+				
DCP		X	X	
+-----+				
DCE		X	X	
+-----+				

Licensed Software: Designer tools and modules

The modules and/or tools that are included in the respective product - Qt for Design Studio Professional (DSP), Qt for Design Studio Enterprise (DSE) - are marked with "X" in the below table.

Designer tools provides no Redistributables.

		DSP	DSE	
Qt Design Studio		X	X	
+-----+				
Qt Design Bridges			X	
+-----+				
QML Live on host		X	X	
+-----+				
QML Live on target			X	
+-----+				
Variant Management			X	
+-----+				
Shader creation tools			X	
+-----+				
Profiling tools			X	
+-----+				
Simulink support			X	
+-----+				

Both DSP and DSE can be used to create an user interface for use cases covered by ADP, ADE, DCP and DCE.

Licensed Software: QA Tools

The modules and/or tools that are included in the respective QA Tools product - Squish (both Tester and execution Licenses), Coco or Test Center - are marked with "X" in the below table. Optional features that will need additional licenses are marked with "O". QA Tools include no Redistributables.

		Squish	Coco	Test Center	
Squish IDE		X			

QA Tool-specific command line tools	X	X	X
Coverage Browser		X	
HTML interface			X
Qt Support Module	X		
Java support module	X		
Windows support module	X		
iOS support module	X		
Android support module	X		
Web support module	X		
macOS support module	X		
VNC support module	X		
MCU support module	X		
C and C++ language module		X	
C# language module		X	
QML language module		X	
Tester Cross-Compilation Add-On	O	O	

#### License capabilities for Squish

License capabilities that are included in the Squish Tester and Execution Licenses are marked with "X" in the below table.

	Squish Tester License	Squish Execution License
Ability to create, edit, and debug test cases	X	
Ability to execute test cases	X	X

#### Install and use capabilities for QA Tools

Install and use capabilities that are included in the respective QA Tools products are defined in the below table.

	Squish	Squish	Coco	Test
	Tester	Execution	License	Center
	License	License		License
Number of installation instances per license	Unlimited	Unlimited	Unlimited	One(1)
Number of concurrent users	Limited by number of Squish Tester Licenses	Limited by number of Squish Execution Licenses	Limited by number of Coco Tester Licenses	Limited by number of Test Center Licenses

#### APPENDIX 2: PRICING

Separate template

#### APPENDIX 3: ADD-ON PRODUCTS TO LICENSED SOFTWARE

Intentionally left blank.

#### APPENDIX 4: SMALL BUSINESS AND STARTUP

The provisions of this Appendix 4 are applicable for companies with an annual revenue, including funding, equivalent to maximum of 250,000 USD (in applicable currency) during the latest full calendar year, as evidenced by duly audited records of the Licensee and approved by The Qt Company ("Start-up Company").

Start-up Companies are qualified for a discounted License Fee for maximum of four (4) Development Licenses ("Start-up Development License") unless otherwise agreed between the parties.

Start-up Development License entitles the respective Designated User for Support only for Install Support as defined in Appendix 9, Support Terms.

Upon expiry of the respective Development License Term, the Start-up Development Licenses shall be automatically extended, pursuant to Section 3.1 of the Agreement, for a Renewal Term either as new Start-up Development Licenses (if the Licensee still qualifies as a Start-up Company), or as normal then standard list price Development Licenses (if the Licensee no longer qualifies as a Start-up Company).

#### APPENDIX 5: NON-COMMERCIAL AND EDUCATIONAL USE

The provisions of this Appendix 5 are applicable for non-commercial use of the Licensed Software by the Licensee.

For the purpose of this Appendix 5, the following additional definitions (replacing the relevant definition of the Agreement, where applicable) shall be applicable:

"Demo Units" shall mean (i) hardware development platform, which incorporates the Licensed Software along with Licensee's software and/or hardware, and (ii) prototype versions of Applications or Devices.

"Designated User(s)" shall mean the employees and students of the Licensee.

"Licensee Products" shall mean Applications and/or Devices.

"Permitted Purpose" shall mean (i) Licensee's internal evaluation and testing of Licensed Software, (ii) building Demo Units as well as (iii) educational use.

"Agreement Term" shall mean a period of twelve (12) months or any such other period as may be agreed between the Parties.

For the purpose of this Appendix 5, the following changes shall be agreed with respect to relevant Sections of the Agreement:

I. Recital (A) shall be replaced in its entirety to read as follows:

"(A) Licensee wishes to use the Licensed Software for the Permitted Purpose."

II. Section 3.1 shall be replaced in its entirety to read as follows:

"The Qt Company grants to Licensee a personal, non-exclusive, non-transferable, revocable, royalty-free license, valid for the Agreement Term, to use, modify and copy the Licensed Software solely for the Permitted Purpose. Licensee may install copies of the Licensed Software on five (5) computers per Designated User, provided that only the Designated Users who have a valid Development License may use the Licensed Software. Licensee may demonstrate the Demo Units, provided that such demonstrations must be conducted by Licensee, and the Demo Units must remain in Licensee's possession and under Licensee's control at all times.

For clarity, this Agreement does not (i) entitle Licensee to use Licensed Software to create Applications or Devices (other than prototypes thereof) or (ii) carry any distribution rights to Licensee, but such rights are subject to and conditional upon conclusion of a separate license agreement with The Qt Company."

III. Sections 3.2, 3.3, 3.5, 3.6, 8 and 10 shall be deleted.

IV. Section 3.4 shall be replaced in its entirety to read as follows:

"Licensee shall not:

- remove or alter any copyright, trademark or other proprietary rights notice contained in any portion of the Licensed Software;
- transfer, publish, sublicense, disclose, display or otherwise make

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Except for the modifications specified above, this Appendix carries no change to the terms of the Agreement which shall remain in full force.

#### APPENDIX 6: LICENSE REPORTING

Separate template

#### APPENDIX 7: MARKETING RIGHTS

This Appendix 7 has the purpose to grant visibility through The Qt Company marketing channels of the usage of Qt and related product and service in Licensee product. Following related marketing right are agreed between the Qt Company and the Licensee.

##### 1. LICENSEE NAME AND LICENSEE LOGO

The Qt Company has the right to use Licensee name and Licensee logo in public channel, in respect of the value proposition that the Qt company provided to the Licensee.

##### 2. MARKETING CONTENT COOPERATION

###### 2.1. LICENSEE CASES

The Licensee is open to collaborate on content creation for marketing and communication purpose. The Licensee will nominate one responsible that will be in charge to support The Qt company with this content creation, according to

content format paragraph, answering technical questions or sharing professional picture or video of required content. The Qt Company will have the right to advertise this in Content Format and Channel as mentioned in paragraph 3 and 4.

## 2.2. FINAL PRODUCT REFERRAL

Licensee agree that The Qt Company could connect their software product and services with the Licensee device or application, that the Licensee has created using The Qt Company technology and competence. Licensee will provide high quality picture, and video of the created final product where the Qt technology is running into. The Qt Company will have the right to advertise this in Content Format and Channel as mentioned in paragraph 3 and 4.

## 3. CONTENT FORMAT

- Video
- Written Licensee case
- Press release
- Social media posts
- Emails
- Event booth Graphics
- Printed material

## 4. CHANNELS

- Social media
- The Qt Company resource center and website
- Email to the Qt company contact database
- Events
- Online webinars
- Public speech
- Public presentations

## APPENDIX 8: INTENTIONALLY LEFT BLANK

## APPENDIX 9: SUPPORT TERMS

These Qt support terms and conditions ("Support Terms") set forth the legal framework, where under The Qt Company ("The Qt Company") provides support services (as herein defined) to the Licensee.

### 1 DEFINITIONS

"Application Code" shall mean a computer software program written strictly using the Qt programming language, by or for the Licensee, with a user interface, enabling the Licensee or their users to accomplish a specific task and display any results of the task on the display monitor or screen.

"Dedicated Contact" shall mean the employee of The Qt Company who will be the first point of contact for all Designated Users' requests for Support.



"Errors" shall mean an error, flaw, mistake, failure, or fault in Licensed Software that prevents it from behaving as described in the relevant documentation or as agreed between the Parties.

"Extended Support" shall mean a continuation to the normal Support period, which allows Designated Users to receive selected Support (Standard Support or Premium Support) for a version of Licensed Software that is no longer generally supported by The Qt Company.

"Install Support" shall mean Support that is limited to installation related Error(s) on Development Platforms specified as supported host platforms for each Qt release under doc.qt.io.

"Maintenance Release" shall mean a release or version of Licensed Software containing bug fixes, error corrections and other changes targeted to maintaining and improving product stability and quality. Maintenance Releases are generally depicted as a change to the third digit of Licensed Software version number.

"Platforms" shall mean both Development Platforms and Deployment Platforms. Supported host and target Platforms may vary from for each Qt release as defined under doc.qt.io.

"Premium Support" shall mean an upgraded level of Support that The Qt Company provides pursuant to these Support Terms to Licensee if Licensee has purchased Premium Support instead of Standard Support. Premium Support shall always be purchased for all Designated User(s) in the respective development team of the Licensee.

"Response Time" shall mean the period of time from when Licensee notifies TheQt Company about an Error or requests Support until The Qt Company provides Licensee with a response that addresses (but not necessarily resolves) the reported Error or provides the requested Support.

"Standard Support" shall mean standard level of Support that The Qt Company provides pursuant to these Support Terms to Licensee.

"Support" shall mean developer assistance that is provided by The Qt Company to assist eligible Designated Users in Licensed Software installation, usage and functionality problem resolution for Error(s) and Error workarounds pursuant to the terms of these Support Terms. Support for different products is available as specified in the below table ("X" marking the Support that is included in the license price, optional Add-on Support services are marked as "O"):

	ADP	ADE	DCP	DCE	DSP	DSE	Squish	Coco	Test Center
Install Support	X	X	X	X	X	X	X	X	X

Standard Support		X	X	X	X	X	X	X	X	X
Premium Support		O	O	O	O	O	O	O	O	O
Extended Support		O	O	O	O	O				
Tool Qualification Kit							O	O		

"Support Validity Term" shall mean the Development License Term or any other fixed time period agreed between the Parties during which time the Customer is eligible to receive Support from The Qt Company.

"Tool Qualification Kit" shall mean a customized set of documents and validation test cases.

## 2 SUPPORT SERVICES

### 2.1 Support Services Provided by The Qt Company

Subject to these Support Terms and during the Support Validity Term, The Qt Company will via its web-based support user-interface, provide Designated User(s) with Support for the Platforms which Customer has licensed under the Agreement.

The Qt Company will make commercially reasonable efforts to solve any Errors reported by Designated User(s). Resolution of an Error may be provided through Designated User(s) themselves downloading of a later released version of the applicable Licensed Software product(s) or providing the Designated User with a temporary workaround addressing such Error.

### 2.2 Licensee's Obligations

To report an Error, the Designated User shall register the Error on The Qt Company's web-based support user interface located at:  
<https://account.qt.io/login> or at another location designated by The Qt Company.

The Designated User must provide adequate information and documentation to The Qt Company to enable it to recreate the Error or problem for which the Designated User has sought assistance.

To ensure efficient handling of Errors, the Designated User must provide the following information, where relevant:

- A clear, detailed description of the problem, question or suggestion;
- Identification of which Licensed Software product and version is affected;
- Identification of the operating environment (e.g. operating system, hardware Platform, build tools, etc.) on which the problem exists;
- On Standard Support: A complete and compilable test case of not more than 500 lines of code that demonstrates the problem;
- On Premium Support: A complete and compilable test case that demonstrates the problem or access to Application Code source codes.

Additional relevant content, such as screenshots, etc.

Additional content should be included as attachments. The preferred image formats are JPEG and PNG. Compressed content should be included in zip or tar.gz archives. Executable content and documents in platform specific formats such as Microsoft Office' are not accepted.

In order for The Qt Company to provide prompt handling of Errors, the Designated User shall promptly respond to any requests from The Qt Company for additional information.

### 2.3 Support Limitations

General limitations:

Each version or release of the Licensed Software will be Supported under Standard Support or Premium Support only for limited time period as set forth in doc.qt.io. For example, regular releases of Qt Software are supported for one (1) year from the release date of the version x.y.0 and Long Term Support (LTS) Releases are supported for a period of three (3) years from the release date of the LTS version x.y.0.

The Qt Company shall only provide Support for Designated User(s).

Support is made available for the entire development teams only: It is not allowed to purchase Support only for some members of the development team, and all Designated Users of the respective development team must be eligible for the same level of Support.

Support is not provided for snapshots, preview releases, beta releases or release candidates.

The Qt Company shall have no obligation to provide Support for hardware or operating system specific problems or problems arising from improper use, accident, neglect or modification of Qt.

Limitations with Install Support:

Support limited to Error(s) regarding installation and setting up of the Qt development environment on host Platforms.

Limitations with Standard Support:

The Qt Company shall not provide Support for third-party software or problems caused by third-party software even if such third-party software is distributed together with Licensed Software product(s).

The Qt Company shall only provide Support for Error(s) that are reported on and can be reproduced on Platforms that are officially supported for the release of the Licensed Software.

Limitations with Premium support:

The Qt Company shall not provide Support for third-party software or problems caused by third-party software. However, if such third-party software is distributed together with Licensed Software, The Qt Company will make commercially reasonable efforts to solve such problems.

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Premium Support is optional and purchased for an agreed bucket of hours ("Bucket"). Hours can be used by any Designated User in the respective development team. To encourage continuous usage of the Support, ten percent (10%) of the purchased Bucket shall automatically expire (regardless of whether such support hours are actually used or not by the Licensee) each month after three (3) months from the purchase of the Premium Support.

#### 2.4 Extended Support

Extended Support extends the Support Validity Term for a release of Licensed Software that is no longer generally supported.

Extended Support includes and is by default provided with Standard Support rules and limitations, unless Extended Support is purchased with Premium Support in which case Premium Support rules and limitations will apply.

Extended Support is optional and purchased with annual fee and separately per each Licensee product. Extended Support will need definition of (i) Licensee product, (ii) used Platform(s) and (iii) Licensed Software version(s).

#### 2.5 Tool Qualification Kit

The Qt Company shall provide set of customized documents and validation tests that enable Licensee to qualify QA testing tool for the purpose of ISO 26262, EN 50128, DO-330, IEC 61508, IEC 62304 or IEC 13485 certification Licensee end to end solution.

### 3 RESPONSE TIME

In performing Support, The Qt Company shall commit to following, non-binding, Response Times:

Standard Support: Errors and Support requests will have a Response Time not to exceed two (2) business days.

Premium Support: Errors and Support requests will have a Response Time not to

exceed one (1) business day.

For complex issues, The Qt Company may provide an initial response to the Designated User and then follow up, without undue delay, with additional communication before an Error is properly addressed or Support provided.

#### 4 ADDITIONAL SERVICES IN PREMIUM SUPPORT

The Designated User(s) will be assigned a Dedicated Contact to handle requests for Support. Dedicated Contact is subject to change in cases such as sick leave, vacation and other similar reasons.

The Designated User(s) can on request ask The Qt Company to access their computer remotely in order to resolve problems directly.

The Designated User(s) can request a session via Instant Messaging or phone call in the support request to The Qt Company.

Premium Support can assist Licensee in implementing new features, bug fixes and accessing patches in Licensed Software or Application Code.

All Support requests will be handled with high priority.

#### 5 MAINTENANCE RELEASES, UPDATES AND UPGRADES

Under the Support the Customer is eligible for Maintenance Releases and Updates that The Qt Company generally makes available to customers who has purchased Support. Unless otherwise decided by The Company at its free and absolute discretion, Upgrades will not be provided under the Support.

The primary focus of Maintenance Releases is product quality. Therefore, each Maintenance Release typically includes the following types of changes to the previous version of Licensed Software:

- Bug fixes caused by changes to previously working code;
- Fixes related to build issues on supported Platforms;
- Error corrections specific to a single Platform that are not present on other Platforms;
- Critical Error corrections such as crashes, data corruption, loss of data, race conditions; and
- Updates to documentation and license information when deemed necessary by The Qt Company.

The primary focus of Updates is introducing new features to Licensed Software and covering new platforms. Therefore, each Updates typically includes the following types of changes to the previous version of Licensed Software:

- New platform support;
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#### APPENDIX 10: CONVERSION TO SUBSCRIPTION

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```
=====
qtlocation-5.15.13+git: src/3rdparty/mapbox-gl-native/LICENSE.md
=====
```

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=====  
Mapbox GL uses portions of Clipper.

Author : Angus Johnson  
Version : 6.1.3a  
Date : 22 January 2014  
Website : <http://www.angusj.com>  
Copyright : Angus Johnson 2010-2014

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Attributions:  
The code in this library is an extension of Bala Vatti's clipping algorithm:  
"A generic solution to polygon clipping"  
Communications of the ACM, Vol 35, Issue 7 (July 1992) pp 56-63.  
<http://portal.acm.org/citation.cfm?id=129906>

Computer graphics and geometric modeling: implementation and algorithms  
By Max K. Agoston  
Springer; 1 edition (January 4, 2005)



<http://books.google.com/books?q=vatti+clipping+agoston>

See also:

"Polygon Offsetting by Computing Winding Numbers"

Paper no. DETC2005-85513 pp. 565-575

ASME 2005 International Design Engineering Technical Conferences

and Computers and Information in Engineering Conference (IDETC/CIE2005)

September 24-28, 2005 , Long Beach, California, USA

<http://www.me.berkeley.edu/~mcmains/pubs/DAC05OffsetPolygon.pdf>

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Mapbox GL uses portions of BugshotKit.

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Mapbox GL uses portions of CSS Color Parser.

(c) Dean McNamee <[dean@gmail.com](mailto:dean@gmail.com)>, 2012.

C++ port by Konstantin Käfer <[mail@kkaefer.com](mailto:mail@kkaefer.com)>, 2014.

<https://github.com/deanm/css-color-parser-js>

<https://github.com/kkaefer/css-color-parser-cpp>

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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

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TurboJPEG/LJT: this implements the TurboJPEG API using libjpeg or libjpeg-turbo

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=====
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
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```

```
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
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```
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=====
```

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```

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=====
shadow-4.11.1: src/passwd.c, 2-30
=====

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*/

#include <config.h>

#ident "$Id$"

#include <errno.h>
#include <fcntl.h>
#include <getopt.h>
#include <pwd.h>
#include <signal.h>
#include <stdio.h>
#include <sys/types.h>

```

```
#include <time.h>
#include "defines.h"
#include "getdef.h"
#include "nscd.h"
#include "sssd.h"
#include "prototypes.h"
#include "pwauth.h"
#include "pwio.h"
#include "shadowio.h"
#include "shadowlog.h"
```

```
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=====
```

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 sqlite3-3.38.5: sqlite3.h, 1-11  
 =====

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=====
usbutils-014: lsusb.c, 1-1
=====

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=====
usbutils-014: lsusb.py.in, 2-2
=====

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```
=====  
wayland-1.20.0: src/wayland-server.c, 1-24  
=====
```

```
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```

```

wpa_supPLICant and hostapd
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=====
wpa-supPLICant-2.10: README, 1-56
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```

```

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This package may include either wpa\_supplicant, hostapd, or both. See README file respective subdirectories (wpa\_supplicant/README or hostapd/README) for more details.

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\_supplicant or hostapd) and creating build configuration (.config) and running 'make' there (for Linux/BSD/cygwin builds).

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```
=====
wpa-supPLICANT-2.10: wpa_supPLICANT/wpa_supPLICANT.c, 1-12
=====
```

```
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 *
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 *
 * This file implements functions for registering and unregistering
 * %wpa_supPLICANT interfaces. In addition, this file contains number of
 * functions for managing network connections.
 */
```

```
=====
xcb-util-0.4.0: src/xcb_aux.c, 1-30
=====
```

```
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*/
```

```
=====
xcb-util-0.4.0: src/xcb_event.h, 1-27
=====
```

```
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```

```
=====
xcb-util-image-0.4.0: image/xcb_image.c, 1-24
=====
```

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```

```

=====
xcb-util-image-0.4.0: image/xcb_image.h, 4-27
=====

```

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```

```

=====
xcb-util-keysyms-0.4.0: keysyms/keysyms.c, 1-30
=====

```

```

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```

```
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```

```
=====
xcb-util-renderutil-0.3.9: renderutil/glyph.c, 1-24
=====
```

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```

```

=====
xcb-util-renderutil-0.3.9: renderutil/util.c, 1-20
=====

```

```

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```

=====
xcb-util-renderutil-0.3.9: renderutil/xcb_renderutil.h, 1-24
=====

```

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```

```

=====
xcb-util-wm-0.4.1: ewmh/ewmh.c.m4, 1-27
=====

```

```

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```

=====
xcb-util-wm-0.4.1: ewmh/xcb_ewmh.h.m4, 4-30
=====

```

```

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```

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```

```
=====
xcb-util-wm-0.4.1: icccm/icccm.c, 1-28
=====
```

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```

```

=====
xcb-util-wm-0.4.1: icccm/xcb_icccm.h, 4-31
=====

```

```

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```
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xz-5.2.6: lib/getopt.c, 1-23
=====
```

```
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```

```
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```

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```
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```

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=====
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Project Homepage: <https://github.com/google-ar/arcore-android-sdk>

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Extracted from mac/include/DeckLinkAPI.h:

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Breakpad, An open-source multi-platform crash reporting system

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Brotli

Project Homepage: <https://github.com/google/brotli>

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bspatch

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C++ port of zxcvbn, an advanced password strength estimation

library.

Project Homepage: <https://github.com/rianhunter/zxcvbn-cpp>

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Chromium OS system API

Project Homepage: <http://www.chromium.org/chromium-os>

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Closure compiler

Project Homepage: <http://github.com/google/closure-compiler>

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Cocoa extension code from Camino

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Compact Encoding Detection

Project Homepage: [https://github.com/google/compact\\_enc\\_det](https://github.com/google/compact_enc_det)

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Compact Language Detector v3 Project Homepage: <https://github.com/google/cld3>

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d3

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dav1d is an AV1 decoder :)

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dom-distiller-js

Project Homepage: <https://github.com/chromium/dom-distiller>

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  - `signature\_lookup.c` - `vf\_blackframe.c` - `vf\_boxblur.c` -
  - `vf\_cover\_rect.c` - `vf\_cropdetect.c` - `vf\_delogo.c` - `vf\_eq.c` -
  - `vf\_fspp.c` - `vf\_histeq.c` - `vf\_hqdn3d.c` - `vf\_kerndeint.c` -
  - (GPL version 3 or later) - `vf\_mcdeint.c` - `vf\_mpdecimate.c` - `vf\_nnedi.c`
  - `vf\_owdenoise.c` - `vf\_perspective.c` - `vf\_phase.c` - `vf\_pp.c` - `vf\_pp7.c`
  - `vf\_pullup.c` - `vf\_repeatfields.c` - `vf\_sab.c` - `vf\_signature.c` -
  - `vf\_spp.c` - `vf\_stereo3d.c` - `vf\_super2xsai.c` - `vf\_tinterlace.c` -
  - `vf\_vaguedenoiser.c` - `vsrc\_mptestsrc.c`

Should you, for whatever reason, prefer to use version 3 of the (L)GPL, then configure parameter `--enable-version3` will activate this licensing option for Read the file `COPYING.LGPLv3` or, if you have enabled GPL parts, to learn the exact legal terms that apply in this case. There are a handful of under other licensing terms, namely: \* The files `libavcodec/jfdctfst.c`, and

`libavcodec/jrevdct.c` are taken from libjpeg, see the top of the files for details. Specifically note that you must credit the IJG in the documentation your program if you only distribute executables. You must also indicate any including additions and deletions to those three files in the documentation. \* `tests/reference.pnm` is under the expat license.

## External libraries

FFmpeg can be combined with a number of external libraries, which sometimes the licensing of binaries resulting from the combination. ### Compatible

The following libraries are under GPL version 2: - avisynth - frei0r - libcdio libdavs2 - librubberband - libvidstab - libx264 - libx265 - libxavs - libxavs2 libxvid When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as by passing `--enable-gpl` to configure. The following libraries are under LGPL 3:



- gmp - libaribb24 - liblensfun When combining them with FFmpeg, use the option `--enable-version3` to upgrade FFmpeg to the LGPL v3.

The VMAF, mbedTLS, RK MPI, OpenCORE and VisualOn libraries are under the Apache 2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not version 3 of those licenses. So to combine these libraries with FFmpeg, the version needs to be upgraded by passing `--enable-version3` to configure. The library is under the GPL v3, to combine it with FFmpeg, the options and `--enable-version3` have to be passed to configure to upgrade FFmpeg to the v3.

### Incompatible libraries

There are certain libraries you can combine with FFmpeg whose licenses are not with the GPL and/or the LGPL. If you wish to enable these libraries, even in that their license may be incompatible, pass `--enable-nonfree` to configure. will cause the resulting binary to be unredistributable. The Fraunhofer FDK AAC OpenSSL libraries are under licenses which are incompatible with the GPLv2 and To the best of our knowledge, they are compatible with the LGPL.

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libavcodec/arm/jrevdct\_arm.S

C-like prototype :

```
void j_rev_dct_arm(DCTBLOCK data)
```

With DCTBLOCK being a pointer to an array of 64 'signed shorts'

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libavcodec/arm/vp8dsp\_armv6.S

VP8 ARMv6 optimisations

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libavcodec/mips/acelp\_vectors\_mips.c

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libavcodec/mips/amrbdec\_mips.c

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libavcodec/mips/celp\_math\_mips.c

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libavcodec/mips/fft\_mips.c

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libavcodec/mips/mpegauddsp\_mips\_float.c

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libavcodec/x86/xvididct.asm XVID MPEG-4 VIDEO CODEC

Conversion from gcc syntax to x264asm syntax with modifications

by Christophe Gisquet <christophe.gisquet@gmail.com>

===== SSE2 inverse discrete cosine transform ===== Copyright(C)  
Pascal Massimino <skal@planet-d.net>

Conversion to gcc syntax with modifications by Alexander Strange

Originally from dct/x86\_asm/fdct\_sse2\_skal.asm in Xvid. Vertical pass is an of the scheme:

Loeffler C., Ligtenberg A., and Moschytz C.S.: Practical Fast 1D DCT Algorithm

Eleven Multiplications, Proc. ICASSP 1989, 988-991.

Horizontal pass is a double 4x4 vector/matrix multiplication, (see also Intel's Note 922:

<http://developer.intel.com/vtune/cbts/strmsimd/922down.htm> Copyright (C) 1999 Corporation)

More details at <http://skal.planet-d.net/coding/dct.html>

===== MMX and XMM forward discrete cosine transform =====

Copyright(C) 2001 Peter Ross <pross@xvid.org> Originally provided by at AP-922 <http://developer.intel.com/vtune/cbts/strmsimd/922down.htm> (See more notes at <http://developer.intel.com/vtune/cbts/strmsimd/appnotes.htm>) but in a edition. New macro implements a column part for precise iDCT The routine now satisfies IEEE standard 1180-1990. Copyright(C) 2000-2001 Peter Gubanov Rounding trick Copyright(C) 2000 Michel Lespinasse <walken@zoy.org>

<http://www.elecard.com/peter/idct.html> <http://www.linuxvideo.org/mpeg2dec/>

These examples contain code fragments for first stage iDCT 8x8 (for rows) and stage DCT 8x8 (for columns) conversion to gcc syntax by Michael Niedermayer

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libavformat/oggparsetheora.c

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libavutil/avsscanf.c

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libswresample/version.h Version macros.

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libavformat/oggdec.c libavformat/oggdec.h libavformat/oggparseogm.c

libavformat/oggparsevorbis.c

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Fiat-Crypto: Synthesizing Correct-by-Construction Code for Cryptographic

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FidelityFX Single Pass Downsampler

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FlatBuffers

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David Turner, Robert Wilhelm, and Werner Lemberg

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google-glog's symbolization library

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GVR Android SDK

Project Homepage: <https://github.com/googlevr/gvr-android-sdk>

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./test/cholesky.cpp ./test/geo_quaternion.cpp ./test/miscmatrices.cpp
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./test/eigen2/product.h ./test/eigen2/eigen2_sparse_basic.cpp
./test/array.cpp ./test/product_syrk.cpp ./test/commainitializer.cpp
./test/qr_colpivoting.cpp ./test/nullary.cpp ./test/bandmatrix.cpp
./test/product.h ./test/block.cpp ./test/vectorization_logic.cpp
./test/diagonal.cpp ./test/schur_complex.cpp ./test/sizeoverflow.cpp
./bench/benchFFT.cpp ./bench/eig33.cpp ./bench/spbench/spbenchsolver.h
./lapack/complex_double.cpp ./lapack/cholesky.cpp ./lapack/lapack_common.h
./lapack/single.cpp ./lapack/lu.cpp ./lapack/complex_single.cpp
./demos/mix_eigen_and_c/binary_library.cpp
./demos/mix_eigen_and_c/example.c ./demos/mandelbrot/mandelbrot.cpp
./demos/opengl/icosphere.cpp ./demos/opengl/icosphere.h
./demos/opengl/quaternion_demo.h ./demos/opengl/camera.h
./demos/opengl/gpuhelper.h ./demos/opengl/trackball.cpp
./demos/opengl/quaternion_demo.cpp ./debug/gdb/printers.py
./unsupported/test/openglsupport.cpp ./unsupported/test/jacobisvd.cpp

./unsupported/test/dgmres.cpp ./unsupported/test/matrix_square_root.cpp
./unsupported/test/matrix_exponential.cpp ./unsupported/test/forward_adolc.cpp
./unsupported/test/matrix_function.cpp ./unsupported/test/sparse_extra.cpp
./unsupported/test/svd_common.h ./unsupported/test/FFTW.cpp
./unsupported/test/autodiff.cpp ./unsupported/test/gmres.cpp
./unsupported/test/levenberg_marquardt.cpp ./unsupported/test/matrix_power.cpp
./unsupported/test/splines.cpp ./unsupported/test/polynomialutils.cpp
./unsupported/Eigen/IterativeSolvers
./unsupported/Eigen/src/IterativeSolvers/IncompleteLU.h
./unsupported/Eigen/src/IterativeSolvers/IncompleteCholesky.h
./unsupported/Eigen/src/IterativeSolvers/MINRES.h
./unsupported/Eigen/src/SparseExtra/MatrixMarketIterator.h
./unsupported/Eigen/src/SparseExtra/MarketIO.h
./unsupported/Eigen/src/KroneckerProduct/KroneckerTensorProduct.h
./unsupported/Eigen/src/NonLinearOptimization/HybridNonLinearSolver.h
./unsupported/Eigen/src/BVH/KdBVH.h
./unsupported/Eigen/src/AutoDiff/AutoDiffJacobian.h
./unsupported/Eigen/src/Splines/Spline.h
./unsupported/Eigen/src/Splines/SplineFwd.h
./unsupported/Eigen/src/SVD/BDCSVD.h ./unsupported/Eigen/src/SVD/SVDBase.h
./unsupported/Eigen/src/MatrixFunctions/MatrixSquareRoot.h
./unsupported/Eigen/src/MatrixFunctions/StemFunction.h
./unsupported/Eigen/src/MatrixFunctions/MatrixExponential.h

./unsupported/Eigen/src/MatrixFunctions/MatrixFunctionAtomic.h
./unsupported/Eigen/src/LevenbergMarquardt/LevenbergMarquardt.h
./unsupported/Eigen/src/FFT/ei_kissfft_impl.h
./unsupported/Eigen/src/Polynomials/Companion.h
./unsupported/Eigen/src/NumericalDiff/NumericalDiff.h
./unsupported/Eigen/src/Skyline/SkylineMatrixBase.h
./unsupported/Eigen/src/Skyline/SkylineUtil.h
./unsupported/Eigen/src/Skyline/SkylineMatrix.h ./unsupported/Eigen/SparseExtra
./unsupported/Eigen/KroneckerProduct ./unsupported/Eigen/NonLinearOptimization
./unsupported/Eigen/OpenGLSupport ./unsupported/Eigen/ArpackSupport

```

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./unsupported/Eigen/Splines ./unsupported/Eigen/MPRealSupport
./unsupported/Eigen/MoreVectorization ./unsupported/Eigen/LevenbergMarquardt
./unsupported/Eigen/FFT ./unsupported/Eigen/Polynomials
./unsupported/Eigen/Skyline ./COPYING.README ./COPYING.README ./LICENSE
./LICENSE ./Eigen/Eigen2Support ./Eigen/src/Eigen2Support/VectorBlock.h
./Eigen/src/Eigen2Support/Minor.h ./Eigen/src/Eigen2Support/Lazy.h
./Eigen/src/Eigen2Support/MathFunctions.h
./Eigen/src/Eigen2Support/Geometry/Hyperplane.h
./Eigen/src/Eigen2Support/Geometry/Rotation2D.h
./Eigen/src/Eigen2Support/Geometry/RotationBase.h
./Eigen/src/Eigen2Support/Geometry/Scaling.h

./Eigen/src/Eigen2Support/Geometry/AngleAxis.h
./Eigen/src/Eigen2Support/TriangularSolver.h ./Eigen/src/Eigen2Support/LU.h
./Eigen/src/Eigen2Support/SVD.h ./Eigen/src/Eigen2Support/Meta.h
./Eigen/src/Eigen2Support/Macros.h ./Eigen/src/Eigen2Support/LeastSquares.h
./Eigen/src/Jacobi/Jacobi.h ./Eigen/src/misc/Kernel.h
./Eigen/src/misc/Solve.h ./Eigen/src/misc/Image.h
./Eigen/src/SparseCore/SparseTranspose.h ./Eigen/src/SparseCore/SparseUtil.h
./Eigen/src/SparseCore/SparseDiagonalProduct.h
./Eigen/src/SparseCore/SparseDot.h ./Eigen/src/SparseCore/SparseCwiseUnaryOp.h
./Eigen/src/SparseCore/SparseBlock.h
./Eigen/src/SparseCore/CompressedStorage.h
./Eigen/src/SparseCore/MappedSparseMatrix.h
./Eigen/src/SparseCore/SparseView.h ./Eigen/src/SparseCore/SparseFuzzy.h
./Eigen/src/SparseCore/SparseSelfAdjointView.h
./Eigen/src/SparseCore/SparseVector.h ./Eigen/src/SparseCore/AmbiVector.h
./Eigen/src/SparseCore/SparseRedux.h ./Eigen/src/SparseCore/SparsePermutation.h
./Eigen/src/Eigenvalues/ComplexEigenSolver.h
./Eigen/src/Eigenvalues/ComplexSchur.h ./Eigen/src/Eigenvalues/RealQZ.h
./Eigen/src/Eigenvalues/HessenbergDecomposition.h
./Eigen/src/Eigenvalues/Tridiagonalization.h
./Eigen/src/Eigenvalues/MatrixBaseEigenvalues.h

./Eigen/src/StlSupport/StdDeque.h ./Eigen/src/StlSupport/StdVector.h
./Eigen/src/StlSupport/details.h ./Eigen/src/SparseQR/SparseQR.h
./Eigen/src/LU/arch/Inverse_SSE.h ./Eigen/src/LU/Determinant.h
./Eigen/src/LU/FullPivLU.h ./Eigen/src/UmfPackSupport/UmfPackSupport.h
./Eigen/src/OrderingMethods/Eigen_Colamd.h ./Eigen/src/QR/HouseholderQR.h
./Eigen/src/QR/FullPivHouseholderQR.h ./Eigen/src/SVD/JacobiSVD.h
./Eigen/src/Geometry/OrthoMethods.h ./Eigen/src/Geometry/AlignedBox.h
./Eigen/src/Geometry/Quaternion.h ./Eigen/src/Geometry/EulerAngles.h
./Eigen/src/Geometry/ParametrizedLine.h ./Eigen/src/Geometry/RotationBase.h
./Eigen/src/Geometry/Umeyama.h ./Eigen/src/Geometry/Homogeneous.h
./Eigen/src/Geometry/Scaling.h ./Eigen/src/Geometry/AngleAxis.h
./Eigen/src/plugins/BlockMethods.h ./Eigen/src/plugins/CommonCwiseUnaryOps.h
./Eigen/src/plugins/MatrixCwiseUnaryOps.h
./Eigen/src/Householder/Householder.h
./Eigen/src/Householder/BlockHouseholder.h ./Eigen/src/Core/VectorBlock.h
./Eigen/src/Core/Ref.h ./Eigen/src/Core/SelfAdjointView.h

```

```

./Eigen/src/Core/GlobalFunctions.h ./Eigen/src/Core/MapBase.h
./Eigen/src/Core/GenericPacketMath.h ./Eigen/src/Core/NestByValue.h
./Eigen/src/Core/SolveTriangular.h

./Eigen/src/Core/Fuzzy.h ./Eigen/src/Core/Visitor.h ./Eigen/src/Core/Map.h
./Eigen/src/Core/Diagonal.h ./Eigen/src/Core/StableNorm.h
./Eigen/src/Core/products/Parallelizer.h
./Eigen/src/Core/products/GeneralMatrixMatrixTriangular.h
./Eigen/src/Core/products/GeneralMatrixMatrix.h
./Eigen/src/Core/products/CoeffBasedProduct.h
./Eigen/src/Core/products/SelfadjointMatrixMatrix.h
./Eigen/src/Core/products/SelfadjointRank2Update.h
./Eigen/src/Core/products/GeneralMatrixVector.h
./Eigen/src/Core/Reverse.h ./Eigen/src/Core/BooleanRedux.h
./Eigen/src/Core/arch/Altivec/PacketMath.h
./Eigen/src/Core/arch/SSE/PacketMath.h ./Eigen/src/Core/arch/SSE/Complex.h
./Eigen/src/Core/arch/NEON/PacketMath.h ./Eigen/src/Core/arch/NEON/Complex.h
./Eigen/src/Core/CwiseUnaryView.h ./Eigen/src/Core/Array.h
./Eigen/src/Core/Swap.h ./Eigen/src/Core/Transpositions.h
./Eigen/src/Core/IO.h ./Eigen/src/Core/SelfCwiseBinaryOp.h
./Eigen/src/Core/Select.h ./Eigen/src/Core/ArrayBase.h
./Eigen/src/Core/DiagonalProduct.h ./Eigen/src/Core/Assign.h
./Eigen/src/Core/ForceAlignedAccess.h ./Eigen/src/Core/BandMatrix.h
./Eigen/src/Core/DenseBase.h ./Eigen/src/Core/Flagged.h

./Eigen/src/Core/ProductBase.h ./Eigen/src/Core/TriangularMatrix.h
./Eigen/src/Core/DiagonalMatrix.h ./Eigen/src/Core/Dot.h
./Eigen/src/Core/PermutationMatrix.h ./Eigen/src/Core/NumTraits.h
./Eigen/src/Core/DenseStorage.h ./Eigen/src/Core/util/Memory.h
./Eigen/src/Core/util/BlasUtil.h ./Eigen/src/Core/util/MatrixMapper.h
./Eigen/src/Core/util/ForwardDeclarations.h ./Eigen/src/Core/util/Meta.h
./Eigen/src/Core/util/Constants.h ./Eigen/src/Core/CwiseNullaryOp.h
./Eigen/src/Core/GeneralProduct.h ./Eigen/src/Core/CommaInitializer.h
./Eigen/src/Core/Stride.h ./Eigen/src/SPQRSupport/SuiteSparseQRSupport.h
./Eigen/src/SparseLU/SparseLU_panel_dfs.h
./Eigen/src/SparseLU/SparseLU_panel_bmod.h
./Eigen/src/SparseLU/SparseLU_Uutils.h
./Eigen/src/SparseLU/SparseLU_kernel_bmod.h
./Eigen/src/SparseLU/SparseLU_Memory.h
./Eigen/src/SparseLU/SparseLUImpl.h
./Eigen/src/SparseLU/SparseLU_Structs.h ./Eigen/src/SparseLU/SparseLU.h
./Eigen/src/SparseLU/SparseLU_pruneL.h
./Eigen/src/IterativeLinearSolvers/BasicPreconditioners.h
./Eigen/src/IterativeLinearSolvers/ConjugateGradient.h
./Eigen/src/SparseCholesky/SimplicialCholesky.h ./Eigen/src/Cholesky/LDLT.h
./Eigen/src/CholmodSupport/CholmodSupport.h

./Eigen/src/MetisSupport/MetisSupport.h ./Eigen/StdVector ./Eigen/Core
./Eigen/StdList ./Eigen/StdDeque ./Eigen/SparseCholesky ./scripts/relicense.py
./blas/BandTriangularSolver.h ./blas/PackedTriangularMatrixVector.h

```

```

./blas/level2_real_impl.h ./blas/level1_cplx_impl.h ./blas/level1_impl.h
./blas/level3_impl.h ./blas/single.cpp ./blas/level2_cplx_impl.h
./blas/Rank2Update.h ./blas/complex_single.cpp
./blas/double.cpp ./blas/common.h ./blas/level2_impl.h
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./Eigen/src/Eigenvalues/SelfAdjointEigenSolver_MKL.h
./Eigen/src/Eigenvalues/RealSchur_MKL.h ./Eigen/src/LU/arch/Inverse_SSE.h
./Eigen/src/LU/PartialPivLU_MKL.h ./Eigen/src/LU/PartialPivLU_MKL.h
./Eigen/src/QR/HouseholderQR_MKL.h ./Eigen/src/QR/ColPivHouseholderQR_MKL.h
./Eigen/src/SVD/JacobiSVD_MKL.h ./Eigen/src/SVD/JacobiSVD_MKL.h
./Eigen/src/PardisoSupport/PardisoSupport.h

./Eigen/src/Core/Assign_MKL.h ./Eigen/src/Core/Assign_MKL.h
./Eigen/src/Core/products/SelfadjointMatrixVector_MKL.h
./Eigen/src/Core/products/GeneralMatrixVector_MKL.h
./Eigen/src/Core/products/SelfadjointMatrixMatrix_MKL.h
./Eigen/src/Core/products/TriangularMatrixMatrix_MKL.h
./Eigen/src/Core/products/GeneralMatrixMatrix_MKL.h
./Eigen/src/Core/products/TriangularMatrixVector_MKL.h
./Eigen/src/Core/products/GeneralMatrixMatrixTriangular_MKL.h
./Eigen/src/Core/products/TriangularSolverMatrix_MKL.h
./Eigen/src/Core/util/MKL_support.h ./Eigen/src/Cholesky/LLT_MKL.h
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```
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```
-----
applies to: ./test/metis_support.cpp ./test/sparselu.cpp
./unsupported/Eigen/src/IterativeSolvers/IterationController.h
./unsupported/Eigen/src/Eigenvalues/ArpackSelfAdjointEigenSolver.h
./Eigen/src/SparseCholesky/SimplicialCholesky_impl.h
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\*\*\*\*\* GL \*\*\*\*\* Mesa Component

Component Location Primary Author License

Main Mesa code src/ mesa/ Brian Paul Mesa (MIT)

Device drivers src/ mesa/ drivers/\* See drivers See drivers Ext headers

SGI SGI Free B

include/GL/glxext.h

GLUT src/ glut/ Mark Kilgard Mark's copyright

GLEW src/ glew-1.13.0 Nigel Stewart Modified BSD Mesa GLU library src/ glu/ mesa/ Paul GNU-LGPL

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for the slf4j package

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libprotobuf-mutator

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linux-syscall-support

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Protocol Buffers

Project Homepage: <https://github.com/google/protobuf>

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pyjson5

Project Homepage: <https://github.com/dpranke/pyjson5>



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pywebsocket3

Project Homepage: <https://github.com/GoogleChromeLabs/pywebsocket3/>

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Quick Color Management System

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re2 - an efficient, principled regular expression library

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Recurrent neural network for audio noise reduction

Project Homepage: <https://github.com/xiph/rnnoise>

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Shaka Player

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Simple Homomorphic Encryption Library with Lattices

Project Homepage: <https://github.com/google/shell-encryption>

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simplejson

Project Homepage: <https://github.com/simplejson/simplejson>

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six

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Snappy: A fast compressor/decompressor

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SPIR-V Headers

Project Homepage: <https://github.com/KhronosGroup/SPIRV-Headers.git>

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SPIR-V Tools

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tcmalloc

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url\_parse

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V8 JavaScript Engine

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valgrind

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WebM container parser and writer.

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WebP image encoder/decoder

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Weston - reference Wayland compositor

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Windows Template Library (WTL)

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woff2

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Wuffs (Wrangling Untrusted File Formats Safely)

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xdg-user-dirs

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zlib

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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.

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.
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specified materials from the same place.

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

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

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```
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```

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```

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```
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License along with this library; if not, write to the Free Software
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```
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
```

That's all there is to it!

```
=====
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binutils-2.38: libiberty/COPYING.LIB
fribidi-1.0.13: COPYING
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```

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Version 2.1, February 1999

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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

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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.

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```

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```
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```

```
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
```

That's all there is to it!

```
=====
alsa-lib-1.2.6.1: src/socket.c, 9-24
=====
```

```
* Copyright (c) 2003 by Abramo Bagnara <abramo@alsa-project.org>
*
*
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```

```
=====
alsa-ucm-conf-1.2.6.3: LICENSE
=====
```

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=====

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```

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```

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

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```
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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:

- 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:

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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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

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```

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```

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```

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

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

```
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
```

That's all there is to it!

```
=====
attr-2.5.1: tools/attr.c, 1-17
=====
```

```
/*
```

```

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*/

```

```

=====
attr-2.5.1: libattr/libattr.c, 1-17
=====

```

```

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*/

```

```

=====
avahi-0.8: LICENSE
gcc-runtime-11.4.0: COPYING.LIB
libassuan-2.5.6: COPYING.LIB
libatasmart-0.19: LGPL
libdaemon-0.14: LICENSE
libgcc-11.4.0: COPYING.LIB
libgpg-error-1.44: COPYING.LIB
libnss-mdns-0.15.1: LICENSE
pulseaudio-15.0: LGPL
=====

```

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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.

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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"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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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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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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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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That's all there is to it!

```
=====
avahi-0.8: avahi-common/address.h, 1-25
=====
```

```
#ifndef fooaddressshfoo
#define fooaddressshfoo
```

```
/**
```

```
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```

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    USA.
```

```
***
```

```
/** \file address.h Definitions and functions to manipulate IP addresses. */
```

```
#include <inttypes.h>
```

```
=====
avahi-0.8: avahi-core/dns.h, 1-23
```

```
=====

#ifndef foodnshfoo
#define foodnshfoo

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 */

#include "rr.h"

=====
avahi-0.8: avahi-daemon/main.c, 1-21
=====

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 */

#ifdef HAVE_CONFIG_H
```



```

#include <config.h>

=====
avahi-0.8: avahi-client/client.h, 1-23
=====

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#define fooclienthfoo

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 * USA.
 */
***/

#include <inttypes.h>

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bash-5.1.16: COPYING
binutils-2.38: COPYING3
binutils-2.38: gas/COPYING
binutils-2.38: include/COPYING3
binutils-2.38: bfd/COPYING
bzip2-1.0.8: COPYING
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```

```

qtquickcontrols-5.15.13+git: LICENSE.GPL3
qtremoteobjects-5.15.13+git: LICENSE.GPL3
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```

```

=====

```

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```
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Copyright (C) <year> <name of author>
```

```
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the Free Software Foundation, either version 3 of the License, or  
(at your option) any later version.
```

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```
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```

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```
=====
binutils-2.38: COPYING
binutils-2.38: include/COPYING
gcc-runtime-11.4.0: COPYING
gdb-11.2: COPYING
libgcc-11.4.0: COPYING
libgpg-error-1.44: COPYING
ntfs-3g-ntfsprogs-2022.10.3: COPYING
=====
```

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```

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```
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```

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

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```
=====
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gdb-11.2: COPYING.LIB
=====
```

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```

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Ty Coon, President of Vice
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```
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gcc-runtime-11.4.0: COPYING3.LIB  
gdb-11.2: COPYING3.LIB  
gmp-6.2.1: COPYING.LESSERv3  
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```

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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

```
=====  
bzip2-1.0.8: LICENSE, 4-37  
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```
=====
coreutils-9.0: src/ls.c, 1-15
=====
```

```
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   Copyright (C) 1985-2021 Free Software Foundation, Inc.
```

```
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```

```
=====
cpprest-2.10.18: license.txt
=====
```

```
C++ REST SDK
```

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Version 2, June 1991

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dbus-1.14.8: dbus/dbus.h, 6-20  
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Theodore Ts'o

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```
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```

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

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-----  
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```

```
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
```

That's all there is to it!

```
=====
e2fsprogs-1.46.5: lib/ext2fs/ext2fs.h, 1-9
=====
```

```
/*
 * ext2fs.h --- ext2fs
 *

```

```

* Copyright (C) 1993, 1994, 1995, 1996 Theodore Ts'o.
*
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=====
e2fsprogs-1.46.5: lib/e2p/e2p.h, 1-7
=====

/*
* e2p.h --- header file for the e2p library
*
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=====
e2fsprogs-1.46.5: lib/uuid/uuid.h.in, 1-32
=====

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*
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```

```
=====
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util-linux-libuuid-2.37.4: Documentation/licenses/COPYING.BSD-3-Clause
=====
```

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```
=====
e2fsprogs-1.46.5: lib/et/et_name.c, 1-11
=====
```

```
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```

```
=====
e2fsprogs-1.46.5: lib/ss/ss.h, 1-20
=====
```

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

```
=====
elfutils-0.186: debuginfod/debuginfod-client.c, 1-27
=====
```

```
/* Retrieve ELF / DWARF / source files from the debuginfod.
   Copyright (C) 2019-2021 Red Hat, Inc.
   This file is part of elfutils.
```

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```
=====
expat-2.5.0: COPYING
=====
```

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```
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=====
```

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```

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```
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```

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

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```
=====
flac-1.3.4: src/flac/main.c, 1-18
=====
```

```
/* flac - Command-line FLAC encoder/decoder
 * Copyright (C) 2000-2009 Josh Coalson
 * Copyright (C) 2011-2016 Xiph.Org Foundation
 *
 * This program is free software; you can redistribute it and/or
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 *
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 *
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 * with this program; if not, write to the Free Software Foundation, Inc.,
 * 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
 */
```

```
=====
flac-1.3.4: COPYING.LGPL
libusb1-1.0.26: COPYING
lvm2-2.03.11: COPYING.LIB
=====
```

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```

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

```
=====
flac-1.3.4: src/plugin_common/all.h, 1-18
=====
```

```
/* plugin_common - Routines common to several plugins
 * Copyright (C) 2002-2009 Josh Coalson
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 *
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 */
```

```
=====
flac-1.3.4: COPYING.Xiph
=====
```

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```
=====
flac-1.3.4: include/FLAC/all.h, 65-70
=====
```

```
* By writing a little code and linking against libFLAC, it is
* relatively easy to add FLAC support to another program. The
* library is licensed under <A HREF=" ../license.html">Xiph's BSD license</A>.
* Complete source code of libFLAC as well as the command-line
* encoder and plugins is available and is a useful source of
* examples.
```

```
=====
fontconfig-2.13.1: COPYING
=====
```

```
fontconfig/COPYING
```

```
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```

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```
=====  
fontconfig-2.13.1: src/fcftyp1.c, 1-45  
=====
```

```
/*  
 * fontconfig/src/fcftyp1.c  
 *  
 * Copyright © 2001 Keith Packard  
 *  
 * Permission to use, copy, modify, distribute, and sell this software and its  
 * documentation for any purpose is hereby granted without fee, provided that  
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 */  
  
/*  
 Copyright © 2002-2003 by Juliusz Chroboczek
```

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\*/

```
=====
fontconfig-2.13.1: src/fccache.c, 1671-1686
=====
```

/\*

```
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
* This code is in the public domain; do with it what you wish.
*
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
```

\*/

```
=====
fpga-manager-script-1.0: fpgautil.c, 1-24
=====
```

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

```
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```

```
*
```

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```
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gdk-pixbuf-2.42.10: COPYING
glib-2.0-2.72.3: COPYING
```

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glib-2.0-2.72.3: gmodule/COPYING
glibc-2.35: COPYING.LIB
libgudev-237: COPYING
libmnl-1.0.4: COPYING
libndp-1.8: COPYING
libnl-3.5.0: COPYING
libnsl2-2.0.0: COPYING
librsvg-2.52.10: COPYING.LIB
libtool-2.4.7: libltdl/COPYING.LIB
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util-linux-2.37.4: Documentation/licenses/COPYING.LGPL-2.1-or-later
util-linux-libuuid-2.37.4: Documentation/licenses/COPYING.LGPL-2.1-or-later
xz-5.2.6: COPYING.LGPLv2.1
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```
=====
gdk-pixbuf-2.42.10: gdk-pixbuf/gdk-pixbuf.h, 1-26
=====
```

```
/* GdkPixbuf library - Main header file
 *
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#ifndef GDK_PIXBUF_H
#define GDK_PIXBUF_H

=====
glib-2.0-2.72.3: glib/glib.h, 4-17
glib-2.0-2.72.3: gmodule/gmodule.h, 4-17
=====

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```
=====
glibc-2.35: LICENSES
=====
```

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```
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gnutls-3.7.4: LICENSE
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```
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```

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

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

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```
=====
gpgme-1.17.1: COPYING.LESSER
libgcrypt-1.9.4: COPYING.LIB
=====
```

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```
=====
gpgme-1.17.1: src/gpgme.h.in, 1-23
=====
```

```
/* gpgme.h - Public interface to GnuPG Made Easy.                -*- c -*-
 * Copyright (C) 2000 Werner Koch (dd9jn)
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 *
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 *
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 * SPDX-License-Identifier: LGPL-2.1-or-later
 *
 * Generated from gpgme.h.in for @GPGME_CONFIG_HOST@.
 */
```

```
=====
gpgme-1.17.1: src/engine.h, 1-22
=====
```

```
/* engine.h - GPGME engine interface.
   Copyright (C) 2000 Werner Koch (dd9jn)
```

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```
#ifndef ENGINE_H
```

```
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```

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```

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```

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```
=====
kernel-module-mali-r9p0-01rel10: linux/license/gpl/mali_kernel_license.h
=====
```

```
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 *
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 *
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from Free Software
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 */

/**
 * @file mali_kernel_license.h
 * Defines for the macro MODULE_LICENSE.
 */

#ifndef __MALI_KERNEL_LICENSE_H__
#define __MALI_KERNEL_LICENSE_H__

#ifdef __cplusplus
extern "C" {
```

```

#endif

#define MALI_KERNEL_LINUX_LICENSE      "GPL"
#define MALI_LICENSE_IS_GPL 1

#ifdef __cplusplus
}
#endif

#endif /* __MALI_KERNEL_LICENSE_H__ */

=====
kernel-module-rsusbtmc-1.5+git: COPYING
=====

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```

```
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```
=====
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=====
```

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

```
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```

```
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```

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```

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```
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```

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

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

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```
=====
keyutils-1.6.1: LICENCE.LGPL
=====
```

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Ty Coon, President of Vice

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```
=====
kmod-29: tools/COPYING
libftdi-1.4: COPYING.GPL
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=====
```

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```

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```
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```

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

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=====
```

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```
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```

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

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```
=====
libassuan-2.5.6: src/assuan.c, 1-20
=====
```

```
/* assuan.c - Global interface (not specific to context).
 * Copyright (C) 2009 Free Software Foundation, Inc.
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 *
 * This file is part of Assuan.
 *
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 * under the terms of the GNU Lesser General Public License as
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 * the License, or (at your option) any later version.
 *
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```

```

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* SPDX-License-Identifier: LGPL-2.1+
*/

```

```

=====
libassuan-2.5.6: src/assuan-defs.h, 1-20
=====

```

```

/* assuan-defs.h - Internal definitions to Assuan
* Copyright (C) 2001, 2002, 2004, 2005, 2007, 2008,
*           2009, 2010 Free Software Foundation, Inc.
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*/

```

```

=====
libblockdev-2.26: LICENSE
libbytesize-2.6: LICENSE
=====

```

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```

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```

```
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
```

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```
=====
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libdaemon-0.14: libdaemon/daemon.h, 9-21
=====
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libdrm-2.4.110: xf86drm.c, 9-32
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```

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Ty Coon, President of Vice
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```
=====  
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=====
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- cipher/sha256-avx2-bmi2-amd64.S
- cipher/sha256-ssse3-amd64.S
- cipher/sha512-avx-amd64.S
- cipher/sha512-avx2-bmi2-amd64.S
- cipher/sha512-ssse3-amd64.S
- cipher/sha512-ssse3-i386.c

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```
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libpgp-error-1.44: src/gpg-error.h.in, 2-18
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=====
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```
=====
libidn2-2.3.2: src/idn2.c, 1-16
=====
```

```
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```
*/
```

```
=====
libidn2-2.3.2: lib/idn2.h.in, 1-27
=====
```

```
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```

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```
=====  
libjpeg-turbo-2.1.5.1: cdjpeg.h, 1-13  
=====
```

```
/*  
 * cdjpeg.h  
 *  
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 * Modified 2019 by Guido Vollbeding.  
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 * file.  
 *  
 * This file contains common declarations for the sample applications  
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```

```
=====  
libjpeg-turbo-2.1.5.1: jpeglib.h, 1-16  
=====
```

```
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 * jpeglib.h  
 *  
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 * file.  
 *  
 * This file defines the application interface for the JPEG library.  
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 * and perhaps jerror.h if they want to know the exact error codes.  
 */
```

```
=====  
libjpeg-turbo-2.1.5.1: djpeg.c, 1-11  
=====
```

```
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 *  
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```
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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

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-----

Written by: Philip Hazel  
Email local part: Philip.Hazel  
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 */
```

```
=====
libtirpc-1.3.2: src/netname.c, 1-27
rpcbind-1.2.6: src/rpcinfo.c, 1-27
=====
```

```
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```

=====
libunistring-1.0: README, 45-65
=====

```

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```

=====
libunistring-1.0: doc/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{<\header>}}
@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
@ifnotinfo

```

```
@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.

@ignore
@c This was: @copying but it triggers a makeinfo 4.13 bug
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```

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@end ignore  
@end ifinfo

@titlepage  
@title GNU libunistring, version @value{VERSION}  
@subtitle updated @value{UPDATED}  
@author Bruno Haible

@ifnohtml  
@page  
@vskip 0pt plus 1filll  
@c @insertcopying  
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@end ifnohtml  
@end titlepage

@c Table of Contents  
@contents

```

@ifnottex
@node Top
@top GNU libunistring
@end ifnottex

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* Conventions::          Conventions used in this manual
* unistypes.h::          Elementary types
* unistr.h::              Elementary Unicode string functions
* uniconv.h::             Conversions between Unicode and encodings
* unistdio.h::           Output with Unicode strings
* uniname.h::            Names of Unicode characters
* unictype.h::           Unicode character classification and properties
* uniwidth.h::           Display width
* unigrbrk.h::           Grapheme cluster breaking
* uniwbrk.h::            Word breaks in strings
* unilbrk.h::            Line breaking
* uninorm.h::            Normalization forms
* unicast.h::            Case mappings
* uniregex.h::           Regular expressions
* Using the library::    How to link with the library and use it?
* More functionality::   More advanced functionality
* The wchar_t mess::     Why @code{wchar_t *} strings are useless
* The char32_t problem:: Why @code{char32_t *} strings are problematic
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* 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?

unistr.h

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Elementary string functions

```

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- \* Word break property::

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- \* Composition of characters::
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unicase,h

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Licenses

- |              |                                   |
|--------------|-----------------------------------|
| * GNU GPL::  | GNU General Public License        |
| * GNU LGPL:: | GNU Lesser General Public License |
| * GNU FDL::  | GNU Free Documentation License    |

@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 <unicnv.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 nonproportional fonts
@item <unigbrk.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}

@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](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. @code{`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

@cindex 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.

@cindex 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 @code{`unibyte locale'}, otherwise of a @code{`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.

@cindex 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{strcasemp}, @posixfunc{strncasemp}, 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{mbuiter} 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

gnulib has functions @func{mbschr} and @func{mbsrchr} that are like @posixfunc{strchr} and @posixfunc{strrchr}, but work in multibyte locales.

@item

gnulib has a function @func{mbsstr}, like @posixfunc{strstr}, but works in multibyte locales.

@item

gnulib has functions @func{mbscspn}, @func{mbspbrk}, @func{mbssp} that are like @posixfunc{strcspn}, @posixfunc{strpbrk}, @posixfunc{strspn}, but work in multibyte locales.

@item

gnulib has functions @func{mbssep} and @func{mbstok\_r} that are like @posixfunc{strsep} and @posixfunc{strtok\_r} but work in multibyte locales.

@item

gnulib 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 `{errno}` is set.

```
@include unitypes.texi
#include unistr.texi
#include uniconv.texi
#include unistdio.texi
#include uniname.texi
#include unictype.texi
#include uniwidth.texi
#include unigbrk.texi
#include uniwbrk.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 `{DEPENDENCIES}`.

@cindex installation

Then you can proceed to build and install the library, as described in the file `{INSTALL}`. For installation on Windows systems, please refer to the file `{INSTALL.windows}`.

@node Compiler options

@section Compiler options

Let's denote as `{LIBUNISTRING_PREFIX}` the value of the `{--prefix}` option that you passed to `{configure}` while installing this package. If you didn't pass any `{--prefix}` option, then the package is installed

in `@file{/usr/local}`.

Let's denote as `@code{LIBUNISTRING_INCLUDEDIR}` the directory where the include files were installed. This is usually the same as `@code{${LIBUNISTRING_PREFIX@}/include}`. Except that if you passed an `@samp{--includedir}` option to `@code{configure}`, it is the value of that option.

Let's further denote as `@code{LIBUNISTRING_LIBDIR}` the directory where the library itself was installed. This is the value that you passed with the `@samp{--libdir}` option to `@code{configure}`, or otherwise the same as `@code{${LIBUNISTRING_PREFIX@}/lib}`. Recall that when building in 64-bit mode on a 64-bit GNU/Linux system that supports executables in either 64-bit mode or 32-bit mode, you should have used the option `@code{--libdir=${LIBUNISTRING_PREFIX@}/lib64}`.

`@cindex compiler options`

So that the compiler finds the include files, you have to pass it the option `@code{-I${LIBUNISTRING_INCLUDEDIR@}}`.

So that the compiler finds the library during its linking pass, you have to pass it the options `@code{-L${LIBUNISTRING_LIBDIR@} -lunistring}`. On some systems, in some configurations, you also have to pass options needed for linking with `@code{libiconv}`. The `autoconf` macro `@code{gl_LIBUNISTRING}` (see `@ref{Autoconf macro}`) deals with this particularity.

`@node Include files`

`@section Include files`

Most of the include files have been presented in the introduction, see `@ref{Introduction}`, and subsequent detailed chapters.

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

`@deftypevr Macro int _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 `@code{(major<<8) + minor}`.  
`@end deftypevr`

`@deftypevr Constant int _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 `@code{(major<<8) + minor}`.  
`@end deftypevr`

It is possible that `@code{_libunistring_version}` is greater than `@code{_LIBUNISTRING_VERSION}`. This can happen when you use

@code{libunistring} as a shared library, and a newer, binary backward-compatible version has been installed after your program that uses @code{libunistring} was installed.

@node Autoconf macro  
@section Autoconf macro

@cindex autoconf macro  
GNU Gnulib provides an autoconf macro that tests for the availability of @code{libunistring}. It is contained in the Gnulib module @samp{libunistring}, see@texnl{}  
@url{https://www.gnu.org/software/gnulib/MODULES.html#module=libunistring}.

@amindex gl\_LIBUNISTRING  
The macro is called @code{gl\_LIBUNISTRING}. It searches for an installed libunistring. If found, it sets and AC\_SUBSTS @code{HAVE\_LIBUNISTRING=yes} and the @code{LIBUNISTRING} and @code{LTLIBUNISTRING} variables and augments the @code{CPPFLAGS} variable, and defines the C macro @code{HAVE\_LIBUNISTRING} to 1. Otherwise, it sets and AC\_SUBSTS @code{HAVE\_LIBUNISTRING=no} and @code{LIBUNISTRING} and @code{LTLIBUNISTRING} to empty.

The complexities that @code{gl\_LIBUNISTRING} deals with are the following:

@itemize @bullet  
@item

On some operating systems, in some configurations, libunistring depends on @code{libiconv}, and the options for linking with libiconv must be mentioned explicitly on the link command line.

@item  
GNU @code{libunistring}, if installed, is not necessarily already in the search path (@code{CPPFLAGS} for the include file search path, @code{LDFLAGS} for the library search path).

@item  
GNU @code{libunistring}, if installed, is not necessarily already in the run time library search path. To avoid the need for setting an environment variable like @code{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 `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 `libunistring`,  
 for which you don't find the remedy in the `INSTALL` file, please include  
 a description of the options that you passed to the `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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@cindex License, GNU LGPL

@include lgpl.texi

@page

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```
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@cindex FDL, GNU Free Documentation License
@cindex License, GNU FDL
@include fdl.texi
```

```
@node Index
@unnumbered Index
```

```
@printindex cp
```

```
@bye
```

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

```
=====
libunwind-1.6.2: COPYING
=====
```

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```
=====
libvncserver-0.9.14: COPYING
=====
```

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```

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```
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```

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

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

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```
=====
libvorbis-1.3.7: COPYING
=====
```

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```
=====
libvorbis-1.3.7: include/vorbis/vorbisenc.h, 1-11
=====
```

```

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=====
```

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```

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libxml2-2.9.14: hash.c, 6-15
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libxml2-2.9.14: list.c, 4-13
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 lsof-4.94.0: 00README, 645-679  
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lzo-2.10: src/lzo_init.c, 5-25
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=====
mmc-utils-0.1+git: mmc.c, 1-20
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mpfr-4.1.1: COPYING.LESSER
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Version 3, 29 June 2007

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=====
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nettle-3.7.3: serpent-decrypt.c, 14-36
nettle-3.7.3: serpent-set-key.c, 14-36
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Patrick McHardy <kaber@trash.net>

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```
=====
nspr-4.29: configure.in, 3-6
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```

```
=====
nspr-4.29: Makefile.in, 4-38
=====
```

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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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nss-3.74: nss/COPYING
=====
```

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

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Software Foundation, Inc., 59 Temple Place - Suite 330, Boston,  
MA 02111-1307, USA
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```
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```

<signature of Ty Coon>, 1 April 1990  
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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

```
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```

```
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```
<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
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```

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```
=====
pcsc-lite-1.9.0: COPYING
=====
```

```
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```

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- doc/example/pcsc\_demo.c
- the files in src/spy/
- the files in UnitaryTests/

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* Author: Nikos Mavrogiannopoulos <nmav@redhat.com>
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```
=====
perl-5.34.3: Copying
=====
```

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

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

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```
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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

That's all there is to it!

```
=====
perl-5.34.3: Artistic
=====
```

#### The "Artistic License"

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The End

```
=====
pixman-0.40.0: COPYING
=====
```

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```

```
*/
```

```
=====
pixman-0.40.0: pixman/pixman-matrix.c, 1-21
=====
```

```
/*
```

```
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```

```
*
```

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```

```
*/
```

```
=====
pixman-0.40.0: pixman/pixman-arm-neon-asm.h, 1-24
=====
```

```
/*
```

```

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

```

```

=====
polkit-0.119: COPYING
=====

```

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Version 2, June 1991

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```

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Boston, MA 02111-1307 USA.
```

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

```
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
```

That's all there is to it!

```
=====
polkit-0.119: src/polkit/polkit.h, 1-20
=====
```

```
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 *
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 *
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 * Free Software Foundation, Inc., 59 Temple Place, Suite 330,
 * Boston, MA 02111-1307, USA.
 *
 * Author: David Zeuthen <davidz@redhat.com>
 */
```

```
=====
popt-1.18: COPYING
=====
```

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```
=====
pugixml-1.12: readme.txt, 29-52
=====
```

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```
=====
pulseaudio-15.0: LICENSE
=====
```

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However, the server side has optional GPL dependencies. These include the libsamplerate and gdbm (core libraries), LIRC (lirc module) and FFTW (equalizer module), although others may also be included in the future. If PulseAudio is

compiled with these optional components, this effectively downgrades the license of the server part to GPL (see the file GPL for details), exercising section 3 of the LGPL. In such circumstances, you should treat the client library (libpulse) of PulseAudio as being LGPL licensed and the server part (libpulsecore) as being GPL licensed. Since the PulseAudio daemon, tests, various utilities/helpers and the modules link to libpulsecore and/or the aforementioned optional GPL dependencies they are of course also GPL licensed also in this scenario.

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Andre Adrian's echo cancellation implementation is licensed under a less restrictive license - see src/modules/echo-cancel/adrian-license.txt for details.

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While we attempt to provide a summary here, it is the ultimate responsibility of the packager to ensure the components they use in their build of PulseAudio meets their license requirements.

```
=====
pulseaudio-15.0: GPL
=====
```

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Version 2, June 1991

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```

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```
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=====
```

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```
=====
pulseaudio-15.0: src/pulsecore/filter/LICENSE.WEBKIT
=====
```

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 */
```

```
=====
pulseaudio-15.0: src/pulsecore/resampler.h, 4-21
=====
```

```
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\*\*\*/  
 =====

pulseaudio-15.0: src/modules/reserve.h, 6-28  
 =====

/\*\*\*

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\*\*\*/  
 =====

pulseaudio-15.0: src/pulsecore/rtkit.h, 6-29  
 =====

/\*\*\*

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\*\*\*/  
 =====

pulseaudio-15.0: src/modules/echo-cancel/adrian-aec.h, 3-12  
 =====

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 \* Author: Andre Adrian  
 \*  
 \* Acoustic Echo Cancellation Leaky NLMS-pw algorithm  
 \*  
 \* Version 0.3 filter created with www.dsptutor.freeuk.com  
 \* Version 0.3.1 Allow change of stability parameter delta  
 \* Version 0.4 Leaky Normalized LMS - pre whitening algorithm  
 \*/

=====

pulseaudio-15.0: src/pulsecore/filter/biquad.h, 1-4  
 =====

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python3-3.10.14: LICENSE  
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

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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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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Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide, non-exclusive, non-transferable license, valid for the Development License Term, to use the QA Tools for Licensee's internal business purposes in the manner provided below and in Appendix 1 hereto.

Licensee may modify the QA Tools except for altering or removing any details of ownership, copyright, trademark or other property right connected with the QA Tools.

Licensee shall not distribute the QA Tools or any part thereof, modified or unmodified, separately or as part of any software package, Application or Device.

Upon expiry of the initially agreed Development License Term, the respective Development License Term shall be automatically extended to one or more Renewal Term(s), unless and until either Party notifies the other Party in writing, or

any other method acceptable to The Qt Company (it being specifically acknowledged and understood that verbal notification is explicitly deemed inadequate in all circumstances), that it does not wish to continue the Development License Term, such notification to be provided to the other Party no less than thirty (30) days before expiry of the respective Development License Term. The Qt Company shall, in good time before the due date for the above notification, remind the Licensee on the coming Renewal Term. Unless otherwise agreed between the Parties, Renewal Term shall be 12 months.

Any such Renewal Term shall be subject to License Fees agreed between the Parties or, if no advance agreement exists, subject to The Qt Company's standard list pricing applicable at the commencement date of any such Renewal Term.

### 3.6 Evaluation License

Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide, non-exclusive, non-transferable license, valid for the Evaluation License Term to use the Licensed Software solely for the Licensee's internal use to evaluate and determine whether the Licensed Software meets Licensee's business requirements, specifically excluding any commercial use of the Licensed Software or any derived work thereof.

Upon the expiry of the Evaluation License Term, Licensee must either discontinue use of the relevant Licensed Software or acquire a commercial Development License or QA Tools License specified herein.

### 4. THIRD-PARTY SOFTWARE

The Licensed Software may provide links or access to third party libraries or code (collectively "Third-Party Software") to implement various functions. Third-Party Software does not, however, comprise part of the Licensed Software, but is provided to Licensee complimentary and use thereof is discretionary for the Licensee. Third-Party Software will be listed in the ".../src/3rdparty" source tree delivered with the Licensed Software or documented in the Licensed Software, as such may be amended from time to time. Licensee acknowledges that use or distribution of Third-Party Software is in all respects subject to applicable license terms of applicable third-party right holders.

### 5. PRE-RELEASE CODE

The Licensed Software may contain pre-release code and functionality, or sample code marked or otherwise stated with appropriate designation such as "Technology Preview", "Alpha", "Beta", "Sample", "Example" etc. ("Pre-Release Code").

Such Pre-Release Code may be present complimentary for the Licensee, in order to provide experimental support or information for new platforms or preliminary versions of one or more new functionalities or for other similar reasons. The Pre-Release Code may not be at the level of performance and



compatibility of a final, generally available, product offering. The Pre-Release Code may not operate correctly, may contain errors and may be substantially modified by The Qt Company prior to the first commercial product release, if any. The Qt Company is under no obligation to make Pre-Release Code commercially available, or provide any Support or Updates relating thereto. The Qt Company assumes no liability whatsoever regarding any Pre-Release Code, but any use thereof is exclusively at Licensee's own risk and expense.

For clarity, unless Licensed Software specifies different license terms for the respective Pre-Release Code, the Licensee is entitled to use such pre-release code pursuant to Section 3, just like other Licensed Software.

#### 6. LIMITED WARRANTY AND WARRANTY DISCLAIMER

The Qt Company hereby represents and warrants that (i) it has the power and authority to grant the rights and licenses granted to Licensee under this Agreement, and (ii) Licensed Software will operate materially in accordance with its specifications.

Except as set forth above, the Licensed Software is licensed to Licensee "as is" and Licensee's exclusive remedy and The Qt Company's entire liability for errors in the Licensed Software shall be limited, at The Qt Company's option, to correction of the error, replacement of the Licensed Software or return of the applicable fees paid for the defective Licensed Software for the time period during which the License is not able to utilize the Licensed Software under the terms of this Agreement.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE QT COMPANY ON BEHALF OF ITSELF AND ITS LICENSORS, SUPPLIERS AND AFFILIATES, DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT WITH REGARD TO THE LICENSED SOFTWARE. THE QT COMPANY DOES NOT WARRANT THAT THE LICENSED SOFTWARE WILL SATISFY LICENSEE'S REQUIREMENTS OR THAT IT WILL OPERATE WITHOUT DEFECT OR ERROR OR THAT THE OPERATION THEREOF WILL BE UNINTERRUPTED.

#### 7. LIMITATION OF LIABILITY

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY BE LIABLE TO THE OTHER PARTY FOR ANY LOSS OF PROFIT, LOSS OF DATA, LOSS OF BUSINESS OR GOODWILL OR ANY OTHER INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE COST, DAMAGES OR EXPENSE OF ANY KIND, HOWSOEVER ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT.

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY'S TOTAL AGGREGATE LIABILITY UNDER THIS AGREEMENT EXCEED THE AGGREGATE LICENSE FEES PAID OR PAYABLE TO THE QT COMPANY BY LICENSEE

DURING THE DEVELOPMENT LICENSE TERM DURING WHICH THE EVENT RESULTING IN SUCH LIABILITY OCCURRED.

THE PROVISIONS OF THIS SECTION 7 ALLOCATE THE RISKS UNDER THIS AGREEMENT BETWEEN THE QT COMPANY AND LICENSEE AND THE PARTIES HAVE RELIED UPON THE LIMITATIONS SET FORTH HEREIN IN DETERMINING WHETHER TO ENTER INTO THIS AGREEMENT.

NOTWITHSTANDING ANYTHING TO THE CONTRARY IN THIS AGREEMENT, LICENSEE SHALL ALWAYS BE LIABLE TO PAY THE APPLICABLE LICENSE FEES CORRESPONDING TO ITS ACTUAL USE OF LICENSED SOFTWARE.

#### 8. SUPPORT, UPDATES AND ONLINE SERVICES

Upon due payment of the agreed License Fees the Licensee will be eligible to receive Support and Updates and to use the Online Services during the agreed Development License Term or other agreed fixed time period. Support is provided according to agreed support level and subject to applicable requirements and restrictions, as specified in the Support Terms.

Unless otherwise decided by The Qt Company at its free and absolute discretion, Upgrades will not be included in the Support but may be available subject to additional fees.

From time to time The Qt Company may change the Support Terms, provided that during the respective ongoing Support period the level of Support may not be reduced without the consent of the Licensee.

Unless otherwise agreed, The Qt Company shall not be responsible for providing any service or support to Customers.

#### 9. CONFIDENTIALITY

Each Party acknowledges that during the Agreement Term each Party may receive information about the other Party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other Party, and the value of which would be significantly reduced if disclosed to third parties ("Confidential Information"). Accordingly, when a Party (the "Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information to employees and Contractors on a need to know basis, and shall cause its employees and employees of its Affiliates to: (i) maintain any and all Confidential Information in confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each Party shall take reasonable measures to protect the Confidential Information of the other Party, which measures shall not be less than the measures taken by such Party

to protect its own confidential and proprietary information.

Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party; (iv) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

## 10. FEES, DELIVERY AND PAYMENT

### 10.1. License Fees

License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an Appendix 2 hereto, as the case may be.

Unless otherwise expressly provided in this Agreement, the License Fees shall not be refunded or claimed as a credit in any event or for any reason whatsoever.

### 10.2. Ordering Licenses

Licensee may purchase Development Licenses, Distribution Licenses and QA Tools Licenses pursuant to agreed pricing terms or, if no specific pricing terms have been agreed upon, at The Qt Company's standard pricing terms applicable at the time of purchase.

Unless expressly otherwise agreed, any price or other term quoted to the Licensee or specified herein shall only be valid for the thirty (30) days from the effective date of this Agreement, Appendix 2 or the date of the quote, as applicable.

Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the

Parties.

Licensee acknowledges and agrees that all Purchase Orders for Licensed Software the Licensee makes during the Agreement Term shall be governed exclusively under the terms of this Agreement.

#### 10.3. Distribution License Packs

Unless otherwise agreed, Distribution Licenses shall be purchased by way of Distribution License Packs.

Upon due payment of the ordered Distribution License Pack(s), the Licensee will have an account of Distribution Licenses available for distributing the Redistributables in accordance with this Agreement.

Each time Licensee distributes a copy of Redistributables, then one Distribution License is used, and Licensee's account of available Distribution Licenses is decreased accordingly.

Licensee may distribute copies of the Redistributables so long as Licensee has Distribution Licenses remaining on its account.

#### 10.4. Payment Terms

License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee.

A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due and which have not been disputed by the Licensee in good faith.

#### 10.5. Taxes

All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax, withholding tax and other taxes, duties or tariffs ("Taxes") levied directly for the sale, delivery or use of Licensed Software hereunder pursuant to any applicable law. Such applicable Taxes shall be paid by Licensee to The Qt Company, or, where applicable, in lieu of payment of such Taxes to The Qt Company, Licensee shall provide an exemption certificate to The Qt Company and any applicable authority.

### 11. RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS

#### 11.1. Licensee's Record-keeping

Licensee shall at all times during the Agreement Term and for a period of two (2) years thereafter maintain Licensee's Records in an accurate and up-to-date form. Licensee's Records shall be adequate to reasonably enable The Qt Company to determine Licensee's compliance with the provisions of this Agreement. The records shall conform to general good accounting practices.

Licensee shall, within thirty (30) days from receiving The Qt Company's request to that effect, deliver to The Qt Company a report based on Licensee's Records, such report to contain information, in sufficient detail, on (i) number and identity of users working with Licensed Software or Open Source Qt, (ii) copies of Redistributables distributed by Licensee during the most recent calendar quarter and/or any other term specified by The Qt Company, , and (iii) any other information pertaining to Licensee's compliance with the terms of this Agreement (like e.g. information on products and/or projects relating to use of Distribution Licenses), as The Qt Company may reasonably require from time to time.

#### 11.2. The Qt Company's Audit Rights

The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least thirty (30) days' prior written notice and at its expense, audit Licensee with respect to the Licensee's use of the Licensed Software, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any possible in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities and shall be limited in scope to verify Licensee's compliance with the terms of this Agreement. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records and conduct necessary interviews of Licensee's relevant employees and Contractors. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee shall pay to The Qt Company any amounts owed for such unauthorized use within 30 days from receipt of the corresponding invoice from The Qt Company.

In addition, in the event the audit reveals a material violation of the terms of this Agreement (without limitation, either (i) underpayment of more than 10 % of License Fees or 10,000 euros (whichever is more) or (ii) distribution of products, which include or result from Prohibited Combination, shall be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

## 12. TERM AND TERMINATION

### 12.1. Agreement Term

This Agreement shall enter into force upon due acceptance by both Parties and remain in force until terminated pursuant to the terms of this Section 12 ("Agreement Term").

#### 12.2. Termination for breach and suspension of rights

Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within ten (10) business days following The Qt Company's written notice thereof.

#### 12.3. Termination for insolvency

Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

#### 12.4. Parties' Rights and Duties upon Termination

Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software under this Agreement. For clarity, a Development License of a Designated User or a QA Tools License, and all rights relating thereto, shall always terminate at the expiry of the respective Development License Term, even if the Agreement continues to remain in force.

Upon such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same by Licensee's duly authorized officer to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Except when this Agreement is terminated by The Qt Company due to Licensee's material breach as set forth in Section 12.2, the Licensee may continue distribution of Applications and Devices under the terms of this Agreement despite the termination of this Agreement. In such event the terms hereof will continue to be applicable and govern any such distribution of Applications and

Devices beyond the expiry or termination of this Agreement. In case of termination by The Qt Company due to Licensee's material breach, Licensee must cease any distribution of Applications and Devices at the date of termination of this Agreement.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee pay to The Qt Company all such fees within 30 days from the effective date of termination of this Agreement.

Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

#### 12.5. Extension of Rights under Special Circumstances

In the event of The Qt Company choosing not to renew the Development License(s) or QA Tools Licenses, as set forth in Section 3.1 and 3.5 respectively, and where such decision of non-renewal is not due to any ongoing breach or alleged breach (as reasonably determined by The Qt Company) by Licensee of the terms of this Agreement or any applicable license terms of Open Source Qt, then all valid and affected Development Licenses and QA Tools licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in Section 10.2.

In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) or QA Tools Licenses, assigned to party, who has assumed The Qt Company's position as a legitimate licensor of Licensed Software under this Agreement, then all valid Development Licenses and QA Tools Licenses possessed by the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the terms of this Agreement.

For clarity, in case of an extension under this Section 12.5, any such extension shall not apply to The Qt Company's Support obligations, but Support shall be provided only up until the end of the respective fixed Development License Term regardless of the extension of relevant Development License or QA Tools License, unless otherwise agreed between the Parties.

#### 13. GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

- (i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;
- (ii) the United Nations Convention on Contracts for the International Sale

of Goods will not apply to this Agreement; and

(iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

- (i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;
- (ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
- (iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of International Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

#### 14. GENERAL PROVISIONS

##### 14.1. No Assignment

Except in the case of a merger or sale of substantially all of its corporate assets, Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

##### 14.2. No Third-Party Representations

Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company's behalf shall be void as to The Qt Company.

##### 14.3. Surviving Sections



Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12.4, 13 and 14.

#### 14.4. Entire Agreement

This Agreement, the Appendices hereto, the License Certificate and any applicable quote and Purchase Order accepted by The Qt Company constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein.

In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company's applicable processes relating to Licensed Software.

#### 14.5. Modifications

No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order ("Deviating Terms") shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms.

#### 14.6. Force Majeure

Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

#### 14.7. Notices

Any notice given by one Party to the other shall be deemed properly given and

deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

#### 14.8. Export Control

Licensee acknowledges that the Redistributables, as incorporated in Applications or Devices, may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the Redistributables and exercise of licenses hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Redistributables, Applications and/or Devices.

#### 14.9. No Implied License

There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with The Qt Company and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software with any other software or hardware not delivered by The Qt Company under this Agreement.

#### 14.10. Attorney Fees

The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action, as to be ordered by the relevant dispute resolution body.

#### 14.11. Privacy

Licensee acknowledges and agrees that for the purpose of this Agreement, The Qt Company may collect, use, transfer and disclose personal data pertaining to Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data will be primarily collected from the relevant individuals but may be collected also from Licensee (e.g. in the course of Licensee's reporting obligations). The Parties acknowledge that as The Qt Company determines the purpose and means for such collection and processing of the applicable personal data, The Qt Company shall be regarded as the Data Controller under the applicable Data Protection Legislation. The Qt Company shall process any such personal data in accordance with its privacy and security policies and practices, which will comply with all applicable requirements of the Data Protection Legislation.

#### 14.12. Severability

If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

#### 14.13. Marketing Rights

Parties have agreed upon Marketing Rights pursuant to Appendix 7, if any.

#### APPENDICES

The Agreement includes following Appendices 1-10, as applicable.

- Appendix 1: Licensed Software details
- Appendix 2: Pricing
- Appendix 3: Add-on Software details (optional)
- Appendix 4: Small business and startup Licenses (optional)
- Appendix 5: Non-commercial and educational Licenses (optional)
- Appendix 6: License Reporting (optional)
- Appendix 7: Marketing Rights (optional)
- Appendix 8: Intentionally left blank (optional)
- Appendix 9: Support Terms
- Appendix 10: Conversion from legacy Licenses to Subscription (optional)

#### APPENDIX 1: LICENSED SOFTWARE

The modules and/or tools that are included in the latest publicly available version of the respective product at the effective date of this Agreement- Qt for Application Development Professional (ADP), Qt for Application Development Enterprise (ADE), Qt for Device Creation Professional (DCP), Qt for Device Creation Enterprise (DCE), - are marked with "X" in the below table. The modules and tools are specific to each product version respectively and may vary from version to version. Modules and tools included in the latest publicly available version of the respective product at any given time are listed in Appendix 1 of the latest version of this Agreement available at [www.qt.io/terms-conditions/](http://www.qt.io/terms-conditions/). If a new version of Licensed Software does not include a module or tool present in an older version which Licensee is entitled to use under a valid license from The Qt Company, then Licensee will continue to have such right during the Term of this Agreement. In the event a new version of the Licensed Software adds modules or tools to any previous version(s), Licensee's rights will extend to cover also such additional modules and tools.

Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with "R" in the below table.

Modules / Tools	ADP	ADE	DCP	DCE
Active Qt	X,R	X,R	X,R	X,R
Qt 3D	X,R	X,R	X,R	X,R
Qt 5 Core Compatibility APIs	X,R	X,R	X,R	X,R
Qt Android Extras	X,R	X,R	X,R	X,R
Qt Bluetooth	X,R	X,R	X,R	X,R
Qt Canvas 3D	X,R	X,R	X,R	X,R
Qt Charts	X,R	X,R	X,R	X,R
Qt Concurrent	X,R	X,R	X,R	X,R
Qt Core	X,R	X,R	X,R	X,R
Qt Data Visualization	X,R	X,R	X,R	X,R
Qt D-Bus	X,R	X,R	X,R	X,R
Qt for Python	X,R	X,R	X,R	X,R
Qt for WebAssembly	X,R	X,R	X,R	X,R
Qt Gamepad	X,R	X,R	X,R	X,R
Qt Graphical Effects	X,R	X,R	X,R	X,R
Qt GUI	X,R	X,R	X,R	X,R
Qt Help	X,R	X,R	X,R	X,R
Qt Image Formats	X,R	X,R	X,R	X,R
Qt Location	X,R	X,R	X,R	X,R
Qt Lottie Animation	X,R	X,R	X,R	X,R
Qt Mac Extras	X,R	X,R	X,R	X,R
Qt Multimedia	X,R	X,R	X,R	X,R
Qt Multimedia Widgets	X,R	X,R	X,R	X,R
Qt Network	X,R	X,R	X,R	X,R

Qt Network Authorization	X,R	X,R	X,R	X,R
Qt NFC	X,R	X,R	X,R	X,R
Qt OpenGL	X,R	X,R	X,R	X,R
Qt PDF	X,R	X,R	X,R	X,R
Qt Platform Headers	X,R	X,R	X,R	X,R
Qt Positioning	X,R	X,R	X,R	X,R
Qt Print Support	X,R	X,R	X,R	X,R
Qt Purchasing	X,R	X,R	X,R	X,R
Qt QML	X,R	X,R	X,R	X,R
Qt Quick	X,R	X,R	X,R	X,R
Qt Quick 3D	X,R	X,R	X,R	X,R
Qt Quick Controls 1	X,R	X,R	X,R	X,R
Qt Quick Controls	X,R	X,R	X,R	X,R
Qt Quick Dialogs	X,R	X,R	X,R	X,R
Qt Quick Extras	X,R	X,R	X,R	X,R
Qt Quick Layouts	X,R	X,R	X,R	X,R
Qt Quick Test	X,R	X,R	X,R	X,R
Qt Quick Timeline	X,R	X,R	X,R	X,R
Qt Quick WebGL	X,R	X,R	X,R	X,R
Qt Quick Widgets	X,R	X,R	X,R	X,R
Qt Remote Objects	X,R	X,R	X,R	X,R
Qt Script	X,R	X,R	X,R	X,R
Qt Script Tools	X,R	X,R	X,R	X,R
Qt SCXML	X,R	X,R	X,R	X,R
Qt Sensors	X,R	X,R	X,R	X,R

Qt Serial Bus	X,R   X,R   X,R   X,R
Qt Serial Port	X,R   X,R   X,R   X,R
Qt Shader Tools	X,R   X,R   X,R   X,R
Qt Speech	X,R   X,R   X,R   X,R
Qt State Machine	X,R   X,R   X,R   X,R
Qt SQL	X,R   X,R   X,R   X,R
Qt SVG	X,R   X,R   X,R   X,R
Qt Test	X,R   X,R   X,R   X,R
Qt UI Tools	X,R   X,R   X,R   X,R
Qt Virtual Keyboard	X,R   X,R   X,R   X,R
Qt Wayland Compositor	X,R   X,R   X,R   X,R
Qt WebChannel	X,R   X,R   X,R   X,R
Qt WebEngine	X,R   X,R   X,R   X,R
Qt WebSockets	X,R   X,R   X,R   X,R
Qt WebView	X,R   X,R   X,R   X,R
Qt Widgets	X,R   X,R   X,R   X,R
Qt Windows Extras	X,R   X,R   X,R   X,R
Qt X11 Extras	X,R   X,R   X,R   X,R
Qt XML	X,R   X,R   X,R   X,R
Qt XML Patterns	X,R   X,R   X,R   X,R
Qt Designer (Qt Widget Designer)	X,R   X,R   X,R   X,R
Qt Linguist	X,R   X,R   X,R   X,R
Qt Assistant	X,R   X,R   X,R   X,R
lupdate	X,R   X,R   X,R   X,R
lrelease	X,R   X,R   X,R   X,R

lconvert		X,R		X,R		X,R		X,R	
Qt MQTT				X,R		X,R		X,R	
Qt KNX				X,R		X,R		X,R	
Qt OPC UA				X,R		X,R		X,R	
Qt CoAP				X,R		X,R		X,R	
Boot 2 Qt stacks						X,R		X,R	
Qt OTA						X,R		X,R	
Device Utilities						X,R		X,R	
Qt Debugging Bridge (QBD) Daemon						X,R		X,R	
Qt Quick Ultralite Controls						X,R		X,R	
Qt Quick Ultralite						X,R		X,R	
Qt Safe Renderer (QSR)								X,R	
Qt Application Manager								X,R	
Qt Interface Framework								X,R	
Neptune Reference UI								X,R	
Qt for Android Automotive (QAA)								X,R	
Qt Creator		X		X		X		X	
Qt Design Studio Professional		X		X		X		X	
androiddeployqt		X		X		X		X	
androidtestrunner		X		X		X		X	
canbusutil		X		X		X		X	
dumpcpp		X		X		X		X	
dumpdoc		X		X		X		X	
fixqt4headers.pl		X		X		X		X	
idc		X		X		X		X	

moc	X	X	X	X	
pixeltool	X	X	X	X	
qdbus	X	X	X	X	
qdbuscpp2xml	X	X	X	X	
qdbusviewer	X	X	X	X	
qdbusxml2cpp	X	X	X	X	
qdistancefieldgenerator	X	X	X	X	
qdoc	X	X	X	X	
qhelpgenerator	X	X	X	X	
qlalr	X	X	X	X	
qmake	X	X	X	X	
qml	X	X	X	X	
qmlcachegen	X	X	X	X	
qmldom	X	X	X	X	
qmleasing	X	X	X	X	
qmlformat	X	X	X	X	
qmllint	X	X	X	X	
qmlpreview	X	X	X	X	
qmlprofiler	X	X	X	X	
qmlscene	X	X	X	X	
qmltestrunner	X	X	X	X	
qmltime	X	X	X	X	
qmlviewer	X	X	X	X	
qtdiag	X	X	X	X	
qtpaths	X	X	X	X	



qtplugininfo	X	X	X	X
qvkgen	X	X	X	X
rcc	X	X	X	X
tracegen	X	X	X	X
uic	X	X	X	X
windeployqt	X	X	X	X
Target toolchains			X	X
Qt Debugging Bridge Host Tools			X	X
qtconfig-gui			X	X
Qt Emulator			X	X
Qt Creator VxWorks plugin			X	X
Qt Creator plugin for Qt Application Manager				X
qmlinterfacegenerator				X
qmltoccpp				X
qulfontcompiler				X
Qt Deployment Server				X

## Rights for Application and Device use cases

Following table summarizes the rights afforded by different products of the Licensed Software to create and distribute Applications and Devices as defined in this Agreement (X marks for rights):

	Applications	Devices
ADP	X	
ADE	X	
DCP	X	X

DCE		X	X

Licensed Software: Designer tools and modules

The modules and/or tools that are included in the respective product - Qt for Design Studio Professional (DSP), Qt for Design Studio Enterprise (DSE) - are marked with "X" in the below table.

Designer tools provides no Redistributables.

		DSP	DSE
Qt Design Studio		X	X
Qt Design Bridges			X
QML Live on host		X	X
QML Live on target			X
Variant Management			X
Shader creation tools			X
Profiling tools			X
Simulink support			X

Both DSP and DSE can be used to create an user interface for use cases covered by ADP, ADE, DCP and DCE.

Licensed Software: QA Tools

The modules and/or tools that are included in the respective QA Tools product - Squish (both Tester and execution Licenses), Coco or Test Center - are marked with "X" in the below table. Optional features that will need additional licenses are marked with "O". QA Tools include no Redistributables.

		Squish	Coco	Test Center
Squish IDE		X		
QA Tool-specific command line tools		X	X	X

Coverage Browser		X		
+-----+				
HTML interface			X	
+-----+				
Qt Support Module		X		
+-----+				
Java support module		X		
+-----+				
Windows support module		X		
+-----+				
iOS support module		X		
+-----+				
Android support module		X		
+-----+				
Web support module		X		
+-----+				
macOS support module		X		
+-----+				
VNC support module		X		
+-----+				
MCU support module		X		
+-----+				
C and C++ language module			X	
+-----+				
C# language module			X	
+-----+				
QML language module			X	
+-----+				
Tester Cross-Compilation Add-On		O	O	
+-----+				

#### License capabilities for Squish

License capabilities that are included in the Squish Tester and Execution Licenses are marked with "X" in the below table.

	Squish Tester License	Squish Execution License
Ability to create, edit,   and debug test cas	X	
Ability to execute test   cases	X	X

#### Install and use capabilities for QA Tools

Install and use capabilities that are included in the respective QA Tools products are defined in the below table.

	Squish Tester License	Squish Execution License	Coco License	Test Center License
Number of installation instances per license	Unlimited	Unlimited	Unlimited	One(1)
Number of concurrent users	Limited by number of Squish Tester Licenses	Limited by number of Squish Execution Licenses	Limited by number of Coco Tester Licenses	Limited by number of Test Center Licenses

## APPENDIX 2: PRICING

Separate template

## APPENDIX 3: ADD-ON PRODUCTS TO LICENSED SOFTWARE

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## APPENDIX 4: SMALL BUSINESS AND STARTUP

The provisions of this Appendix 4 are applicable for companies with an annual revenue, including funding, equivalent to maximum of 250,000 USD (in applicable currency) during the latest full calendar year, as evidenced by duly audited records of the Licensee and approved by The Qt Company ("Start-up Company").

Start-up Companies are qualified for a discounted License Fee for maximum of four (4) Development Licenses ("Start-up Development License") unless otherwise agreed between the parties.

Start-up Development License entitles the respective Designated User for Support only for Install Support as defined in Appendix 9, Support Terms.

Upon expiry of the respective Development License Term, the Start-up Development Licenses shall be automatically extended, pursuant to Section 3.1 of the Agreement, for a Renewal Term either as new Start-up Development Licenses (if the Licensee still qualifies as a Start-up Company), or as normal then standard list price Development Licenses (if the Licensee no longer qualifies as a Start-up Company).

## APPENDIX 5: NON-COMMERCIAL AND EDUCATIONAL USE

The provisions of this Appendix 5 are applicable for non-commercial use of the Licensed Software by the Licensee.

For the purpose of this Appendix 5, the following additional definitions (replacing the relevant definition of the Agreement, where applicable) shall be applicable:

"Demo Units" shall mean (i) hardware development platform, which incorporates the Licensed Software along with Licensee's software and/or hardware, and (ii) prototype versions of Applications or Devices.

"Designated User(s)" shall mean the employees and students of the Licensee.

"Licensee Products" shall mean Applications and/or Devices.

"Permitted Purpose" shall mean (i) Licensee's internal evaluation and testing of Licensed Software, (ii) building Demo Units as well as (iii) educational use.

"Agreement Term" shall mean a period of twelve (12) months or any such other period as may be agreed between the Parties.

For the purpose of this Appendix 5, the following changes shall be agreed with respect to relevant Sections of the Agreement:

I. Recital (A) shall be replaced in its entirety to read as follows:

"(A) Licensee wishes to use the Licensed Software for the Permitted Purpose."

II. Section 3.1 shall be replaced in its entirety to read as follows:

"The Qt Company grants to Licensee a personal, non-exclusive, non-transferable, revocable, royalty-free license, valid for the Agreement Term, to use, modify and copy the Licensed Software solely for the Permitted Purpose. Licensee may install copies of the Licensed Software on five (5) computers per Designated User, provided that only the Designated Users who have a valid Development License may use the Licensed Software. Licensee may demonstrate the Demo Units, provided that such demonstrations must be conducted by Licensee, and the Demo Units must remain in Licensee's possession and under Licensee's control at all times.

For clarity, this Agreement does not (i) entitle Licensee to use Licensed Software to create Applications or Devices (other than prototypes thereof) or (ii) carry any distribution rights to Licensee, but such rights are subject to and conditional upon conclusion of a separate license agreement with The Qt Company."

III. Sections 3.2, 3.3, 3.5, 3.6, 8 and 10 shall be deleted.

IV. Section 3.4 shall be replaced in its entirety to read as follows:

"Licensee shall not:

- remove or alter any copyright, trademark or other proprietary rights notice contained in any portion of the Licensed Software;
- transfer, publish, sublicense, disclose, display or otherwise make the Licensed Software available to any third party (except that Licensee may demonstrate the Demo Units pursuant to Section 3.1);
- in any way combine, incorporate or integrate Licensed Software with,

or use Licensed Software for creation of, any software created with or incorporating Open Source Qt; Licensee shall cause all Designated Users who make use of the licenses granted under this Agreement, to be contractually bound to comply with the relevant terms of this Agreement and not to use the Licensed Software beyond the terms hereof. Licensee shall be responsible for any and all actions and omissions of its Designated Users relating to the Licensed Software and use thereof. Any use of Licensed Software beyond the provisions of this Agreement is strictly prohibited and requires an additional license from The Qt Company."

V. Section 12 shall be replaced in its entirety to read as follows:

"This Agreement shall enter into force upon due acceptance by both Parties and remain in force for the Agreement Term, unless and until terminated pursuant to the terms of Section 12.

Upon termination of the Agreement, Licensee shall cease using the Licensed Software. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must, upon request, promptly deliver to The Qt Company a written confirmation that this has occurred."

Except for the modifications specified above, this Appendix carries no change to the terms of the Agreement which shall remain in full force.

#### APPENDIX 6: LICENSE REPORTING

Separate template

#### APPENDIX 7: MARKETING RIGHTS

This Appendix 7 has the purpose to grant visibility through The Qt Company marketing channels of the usage of Qt and related product and service in Licensee product. Following related marketing right are agreed between the Qt Company and the Licensee.

##### 1. LICENSEE NAME AND LICENSEE LOGO

The Qt Company has the right to use Licensee name and Licensee logo in public channel, in respect of the value proposition that the Qt company provided to the Licensee.

##### 2. MARKETING CONTENT COOPERATION

###### 2.1. LICENSEE CASES

The Licensee is open to collaborate on content creation for marketing and communication purpose. The Licensee will nominate one responsible that will be in charge to support The Qt company with this content creation, according to content format paragraph, answering technical questions or sharing professional picture or video of required content. The Qt Company will have the right to advertise this in Content Format and Channel as mentioned in paragraph 3 and 4.

## 2.2. FINAL PRODUCT REFERRAL

Licensee agree that The Qt Company could connect their software product and services with the Licensee device or application, that the Licensee has created using The Qt Company technology and competence. Licensee will provide high quality picture, and video of the created final product where the Qt technology is running into. The Qt Company will have the right to advertise this in Content Format and Channel as mentioned in paragraph 3 and 4.

## 3. CONTENT FORMAT

- Video
- Written Licensee case
- Press release
- Social media posts
- Emails
- Event booth Graphics
- Printed material

## 4. CHANNELS

- Social media
- The Qt Company resource center and website
- Email to the Qt company contact database
- Events
- Online webinars
- Public speech
- Public presentations

## APPENDIX 8: INTENTIONALLY LEFT BLANK

## APPENDIX 9: SUPPORT TERMS

These Qt support terms and conditions ("Support Terms") set forth the legal framework, where under The Qt Company ("The Qt Company") provides support services (as herein defined) to the Licensee.

### 1 DEFINITIONS

"Application Code" shall mean a computer software program written strictly using the Qt programming language, by or for the Licensee, with a user interface, enabling the Licensee or their users to accomplish a specific task and display any results of the task on the display monitor or screen.

"Dedicated Contact" shall mean the employee of The Qt Company who will be the first point of contact for all Designated Users' requests for Support.

"Errors" shall mean an error, flaw, mistake, failure, or fault in Licensed Software that prevents it from behaving as described in the relevant

documentation or as agreed between the Parties.

"Extended Support" shall mean a continuation to the normal Support period, which allows Designated Users to receive selected Support (Standard Support or Premium Support) for a version of Licensed Software that is no longer generally supported by The Qt Company.

"Install Support" shall mean Support that is limited to installation related Error(s) on Development Platforms specified as supported host platforms for each Qt release under doc.qt.io.

"Maintenance Release" shall mean a release or version of Licensed Software containing bug fixes, error corrections and other changes targeted to maintaining and improving product stability and quality. Maintenance Releases are generally depicted as a change to the third digit of Licensed Software version number.

"Platforms" shall mean both Development Platforms and Deployment Platforms. Supported host and target Platforms may vary from for each Qt release as defined under doc.qt.io.

"Premium Support" shall mean an upgraded level of Support that The Qt Company provides pursuant to these Support Terms to Licensee if Licensee has purchased Premium Support instead of Standard Support. Premium Support shall always be purchased for all Designated User(s) in the respective development team of the Licensee.

"Response Time" shall mean the period of time from when Licensee notifies TheQt Company about an Error or requests Support until The Qt Company provides Licensee with a response that addresses (but not necessarily resolves) the reported Error or provides the requested Support.

"Standard Support" shall mean standard level of Support that The Qt Company provides pursuant to these Support Terms to Licensee.

"Support" shall mean developer assistance that is provided by The Qt Company to assist eligible Designated Users in Licensed Software installation, usage and functionality problem resolution for Error(s) and Error workarounds pursuant to the terms of these Support Terms. Support for different products is available as specified in the below table ("X" marking the Support that is included in the license price, optional Add-on Support services are marked as "O"):

	ADP	ADE	DCP	DCE	DSP	DSE	Squish	Coco	Test Center
Install Support	X	X	X	X	X	X	X	X	X
Standard Support		X	X	X	X	X	X	X	X



Premium Support												
Extended Support												
Tool Qualification Kit												

"Support Validity Term" shall mean the Development License Term or any other fixed time period agreed between the Parties during which time the Customer is eligible to receive Support from The Qt Company.

"Tool Qualification Kit" shall mean a customized set of documents and validation test cases.

## 2 SUPPORT SERVICES

### 2.1 Support Services Provided by The Qt Company

Subject to these Support Terms and during the Support Validity Term, The Qt Company will via its web-based support user-interface, provide Designated User(s) with Support for the Platforms which Customer has licensed under the Agreement.

The Qt Company will make commercially reasonable efforts to solve any Errors reported by Designated User(s). Resolution of an Error may be provided through Designated User(s) themselves downloading of a later released version of the applicable Licensed Software product(s) or providing the Designated User with a temporary workaround addressing such Error.

### 2.2 Licensee's Obligations

To report an Error, the Designated User shall register the Error on The Qt Company's web-based support user interface located at:  
<https://account.qt.io/login> or at another location designated by The Qt Company.

The Designated User must provide adequate information and documentation to The Qt Company to enable it to recreate the Error or problem for which the Designated User has sought assistance.

To ensure efficient handling of Errors, the Designated User must provide the following information, where relevant:

- A clear, detailed description of the problem, question or suggestion;
- Identification of which Licensed Software product and version is affected;
- Identification of the operating environment (e.g. operating system, hardware Platform, build tools, etc.) on which the problem exists;
- On Standard Support: A complete and compilable test case of not more than 500 lines of code that demonstrates the problem;
- On Premium Support: A complete and compilable test case that demonstrates the problem or access to Application Code source codes.

Additional relevant content, such as screenshots, etc.

Additional content should be included as attachments. The preferred image

formats are JPEG and PNG. Compressed content should be included in zip or tar.gz archives. Executable content and documents in platform specific formats such as Microsoft Office' are not accepted.

In order for The Qt Company to provide prompt handling of Errors, the Designated User shall promptly respond to any requests from The Qt Company for additional information.

### 2.3 Support Limitations

General limitations:

Each version or release of the Licensed Software will be Supported under Standard Support or Premium Support only for limited time period as set forth in doc.qt.io. For example, regular releases of Qt Software are supported for one (1) year from the release date of the version x.y.0 and Long Term Support (LTS) Releases are supported for a period of three (3) years from the release date of the LTS version x.y.0.

The Qt Company shall only provide Support for Designated User(s).

Support is made available for the entire development teams only: It is not allowed to purchase Support only for some members of the development team, and all Designated Users of the respective development team must be eligible for the same level of Support.

Support is not provided for snapshots, preview releases, beta releases or release candidates.

The Qt Company shall have no obligation to provide Support for hardware or operating system specific problems or problems arising from improper use, accident, neglect or modification of Qt.

Limitations with Install Support:

Support limited to Error(s) regarding installation and setting up of the Qt development environment on host Platforms.

Limitations with Standard Support:

The Qt Company shall not provide Support for third-party software or problems caused by third-party software even if such third-party software is distributed together with Licensed Software product(s).

The Qt Company shall only provide Support for Error(s) that are reported on and can be reproduced on Platforms that are officially supported for the release of the Licensed Software.

Limitations with Premium support:

The Qt Company shall not provide Support for third-party software or problems caused by third-party software. However, if such third-party software is distributed together with Licensed Software, The Qt Company will make commercially reasonable efforts to solve such problems.

The Qt Company shall only provide Support for Error(s) that can be reproduced on Platforms that are officially supported for the release of the Licensed Software. If the Error is on a Platform that is not supported, The Qt Company will make commercially reasonable efforts to provide a solution on closest corresponding supported Platform.

Premium Support is optional and purchased for an agreed bucket of hours ("Bucket"). Hours can be used by any Designated User in the respective development team. To encourage continuous usage of the Support, ten percent (10%) of the purchased Bucket shall automatically expire (regardless of whether such support hours are actually used or not by the Licensee) each month after three (3) months from the purchase of the Premium Support.

#### 2.4 Extended Support

Extended Support extends the Support Validity Term for a release of Licensed Software that is no longer generally supported.

Extended Support includes and is by default provided with Standard Support rules and limitations, unless Extended Support is purchased with Premium Support in which case Premium Support rules and limitations will apply.

Extended Support is optional and purchased with annual fee and separately per each Licensee product. Extended Support will need definition of (i) Licensee product, (ii) used Platform(s) and (iii) Licensed Software version(s).

#### 2.5 Tool Qualification Kit

The Qt Company shall provide set of customized documents and validation tests that enable Licensee to qualify QA testing tool for the purpose of ISO 26262, EN 50128, DO-330, IEC 61508, IEC 62304 or IEC 13485 certification Licensee end to end solution.

### 3 RESPONSE TIME

In performing Support, The Qt Company shall commit to following, non-binding, Response Times:

Standard Support: Errors and Support requests will have a Response Time not to exceed two (2) business days.

Premium Support: Errors and Support requests will have a Response Time not to exceed one (1) business day.

For complex issues, The Qt Company may provide an initial response to the

Designated User and then follow up, without undue delay, with additional communication before an Error is properly addressed or Support provided.

#### 4 ADDITIONAL SERVICES IN PREMIUM SUPPORT

The Designated User(s) will be assigned a Dedicated Contact to handle requests for Support. Dedicated Contact is subject to change in cases such as sick leave, vacation and other similar reasons.

The Designated User(s) can on request ask The Qt Company to access their computer remotely in order to resolve problems directly.

The Designated User(s) can request a session via Instant Messaging or phone call in the support request to The Qt Company.

Premium Support can assist Licensee in implementing new features, bug fixes and accessing patches in Licensed Software or Application Code.

All Support requests will be handled with high priority.

#### 5 MAINTENANCE RELEASES, UPDATES AND UPGRADES

Under the Support the Customer is eligible for Maintenance Releases and Updates that The Qt Company generally makes available to customers who has purchased Support. Unless otherwise decided by The Company at its free and absolute discretion, Upgrades will not be provided under the Support.

The primary focus of Maintenance Releases is product quality. Therefore, each Maintenance Release typically includes the following types of changes to the previous version of Licensed Software:

- Bug fixes caused by changes to previously working code;
- Fixes related to build issues on supported Platforms;
- Error corrections specific to a single Platform that are not present on other Platforms;
- Critical Error corrections such as crashes, data corruption, loss of data, race conditions; and
- Updates to documentation and license information when deemed necessary by The Qt Company.

The primary focus of Updates is introducing new features to Licensed Software and covering new platforms. Therefore, each Updates typically includes the following types of changes to the previous version of Licensed Software:

- New platform support;
- New toolchain support;
- New features and Qt modules;

#### 6 WARRANTY DISCLAIMER

The Qt Company makes no warranties that the Support provided will be successful in resolving any difficulties or problems or in diagnosing faults reported by

Licensee. Support is provided to Licensee on an "as is" basis. To the maximum extent permitted by applicable law, The Qt Company disclaims all warranties and conditions, either express or implied, including, but not limited to, implied warranties of merchantability and fitness for a particular purpose for the Support provided by The Qt Company to Licensee.

#### APPENDIX 10: CONVERSION TO SUBSCRIPTION

Subject to the terms of this Appendix Licensee's current development licenses ("Current Licenses") for commercial version of Qt Software and the license agreements governing such Current Licenses ("Existing Agreements") are being replaced by this Agreement and subscription based Development Licenses governed hereunder, as further specified below.

```
+-----+
| Existing Agreement(s)      | <Trolltech, Nokia, Digia, The Qt Company> and |
| signing parties, version  | <Licensee> <Version of the Agreement, e.g. 2,0, |
| and date of signatures   | 3.2 or 4.1> <Date of the agreement signatures> |
| thereof                   | |
+-----+
```

Parties hereby agree on conversion of Current Licenses listed in attached Exhibit A to the subscription licenses listed in attached Exhibit B for use through License Term. As of the date hereof,

- i. Licensee's Current Licenses as listed in Exhibit A shall terminate and be replaced with the Subscription licenses listed in Exhibit B and;
- ii. Existing Agreements are terminated.

Prices for the conversion of Current Licenses are defined in Appendix 2 Pricing or Quote.

Notwithstanding anything in this Appendix to the contrary, and in addition to any payments due pursuant to this Appendix, Licensee remains fully obligated to fulfill any and all outstanding payment obligations to The Qt Company under any applicable Existing Agreements. For the avoidance of doubt, if any payments remain outstanding on the Current Licenses under the applicable terms Licensee will continue to make such payments in accordance with the applicable order documentation, notwithstanding the fact that the Current Licenses are being converted to Development Licenses pursuant to this Appendix.

```
=====
qtlocation-5.15.13+git: src/3rdparty/mapbox-gl-native/LICENSE.md
=====
```

mapbox-gl-native copyright (c) 2014-2017 Mapbox.

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=====

Mapbox GL uses portions of Android Gesture Detectors Framework.

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=====

Mapbox GL uses portions of Android Support Library.

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=====  
Mapbox GL uses portions of Boost.

Distributed under the Boost Software License, Version 1.0.

[http://www.boost.org/LICENSE\\_1\\_0.txt](http://www.boost.org/LICENSE_1_0.txt)

=====  
Mapbox GL uses portions of Clipper.

Author : Angus Johnson  
Version : 6.1.3a  
Date : 22 January 2014  
Website : <http://www.angusj.com>  
Copyright : Angus Johnson 2010-2014

License:  
Use, modification & distribution is subject to Boost Software License Ver 1.  
[http://www.boost.org/LICENSE\\_1\\_0.txt](http://www.boost.org/LICENSE_1_0.txt)

Attributions:  
The code in this library is an extension of Bala Vatti's clipping algorithm:  
"A generic solution to polygon clipping"  
Communications of the ACM, Vol 35, Issue 7 (July 1992) pp 56-63.  
<http://portal.acm.org/citation.cfm?id=129906>

Computer graphics and geometric modeling: implementation and algorithms  
By Max K. Agoston  
Springer; 1 edition (January 4, 2005)  
<http://books.google.com/books?q=vatti+clipping+agoston>

See also:

"Polygon Offsetting by Computing Winding Numbers"  
Paper no. DETC2005-85513 pp. 565-575  
ASME 2005 International Design Engineering Technical Conferences  
and Computers and Information in Engineering Conference (IDETC/CIE2005)  
September 24-28, 2005 , Long Beach, California, USA  
<http://www.me.berkeley.edu/~mcmains/pubs/DAC05OffsetPolygon.pdf>

=====  
Mapbox GL uses portions of BugshotKit.

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reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

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#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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) <year> <name of author>
```

```
This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.
```

```
This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.
```

```
You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.
```

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:

```
<program> Copyright (C) <year> <name of author>
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".

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

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<<http://www.gnu.org/philosophy/why-not-lgpl.html>>.

```
=====
qtsvg-5.15.13+git: LICENSE.LGPLv21
=====
```

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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

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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.

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

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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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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

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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



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

```
This library is free software; you can redistribute it and/or
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version 2.1 of the License, or (at your option) any later version.
```

```
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```

```
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Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
```

That's all there is to it!

```
=====
qtsvg-5.15.13+git: LICENSE.LGPLv3
qtwebview-5.15.13+git: LICENSE.LGPLv3
=====
```

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Version 3, 29 June 2007

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and utility programs needed for reproducing the Combined Work from the  
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- d) Do one of the following:

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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.)

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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:

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```
=====
qtsvg-5.15.13+git: LICENSE.GPLv3
qtwebengine-5.15.13+git: LICENSE.GPLv3
qtwebview-5.15.13+git: LICENSE.GPLv3
=====
```

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Version 3, 29 June 2007

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

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```
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Hacker.
```

```
<signature of Ty Coon>, 1 April 1990
```

```
Ty Coon, President of Vice
```

```
That's all there is to it!
```

```
=====  
sed-4.8: sed/sed.h, 1-15  
=====
```

```
/* GNU SED, a batch stream editor.
```

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=====
```

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```

```

=====
shadow-4.11.1: src/passwd.c, 2-30
=====

```

```

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*/

```

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

```
#ident "$Id$"
```

```
#include <errno.h>
#include <fcntl.h>
#include <getopt.h>
#include <pwd.h>
#include <signal.h>
#include <stdio.h>
#include <sys/types.h>
#include <time.h>
#include "defines.h"
#include "getdef.h"

```

```
#include "nscd.h"
#include "sssd.h"
#include "prototypes.h"
#include "pwauth.h"
#include "pwio.h"
#include "shadowio.h"
#include "shadowlog.h"
```

```
=====  
slang-2.3.2: COPYING  
=====
```

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sqlite3-3.38.5: sqlite3.h, 1-11
=====
```

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```
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```

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```
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```
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```

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```

```
<signature of Ty Coon>, 1 April 1990
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```

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```

```
=====
usbutils-014: lsusb.c, 1-1
=====
```

```
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```

```
=====
usbutils-014: lsusb.py.in, 2-2
=====
```

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```
=====
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=====
```

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```

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=====
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wayland-1.20.0: COPYING

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=====

wayland-1.20.0: src/wayland-server.c, 1-24

=====

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```

=====
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```

```

wpa_supPLICANT and hostapd
-----

```

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=====
wpa-supPLICANT-2.10: README, 1-56
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wpa_supPLICANT and hostapd
-----

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This package may include either wpa\_supplicant, hostapd, or both. See README file respective subdirectories (wpa\_supplicant/README or hostapd/README) for more details.

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\_supplicant or hostapd) and creating build configuration (.config) and running 'make' there (for Linux/BSD/cygwin builds).

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```
=====
wpa-supPLICant-2.10: wpa_supPLICant/wpa_supPLICant.c, 1-12
=====
```

```
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 *
 * This file implements functions for registering and unregistering
 * %wpa_supPLICant interfaces. In addition, this file contains number of
 * functions for managing network connections.
 */
```

```
=====
xcb-util-0.4.0: src/xcb_aux.c, 1-30
=====
```

```
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```
=====  
xcb-util-0.4.0: src/xcb_event.h, 1-27  
=====
```

```
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 */
```

```
=====  
xcb-util-image-0.4.0: image/xcb_image.c, 1-24  
=====
```

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```

```

=====
xcb-util-image-0.4.0: image/xcb_image.h, 4-27
=====

```

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```

```

=====
xcb-util-keysyms-0.4.0: keysyms/keysyms.c, 1-30
=====

```

```

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=====
xcb-util-renderutil-0.3.9: renderutil/glyph.c, 1-24
=====

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```
=====
xcb-util-renderutil-0.3.9: renderutil/util.c, 1-20
=====
```

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```

```
=====
xcb-util-renderutil-0.3.9: renderutil/xcb_renderutil.h, 1-24
=====
```

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```
=====
xcb-util-wm-0.4.1: ewmh/ewmh.c.m4, 1-27
=====
```

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```
=====
xcb-util-wm-0.4.1: ewmh/xcb_ewmh.h.m4, 4-30
=====
```

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```
=====
xcb-util-wm-0.4.1: icccm/icccm.c, 1-28
=====
```

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```
=====
xcb-util-wm-0.4.1: icccm/xcb_icccm.h, 4-31
=====
```

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```
=====
xz-5.2.6: lib/getopt.c, 1-23
=====
```

```
/* Getopt for GNU.
```

```
NOTE: getopt is now part of the C library, so if you don't know what
"Keep this file name-space clean" means, talk to drepper@gnu.org
before changing it!
```

```
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```

```
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with this program; if not, write to the Free Software Foundation,
Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA. */
```

```
#ifndef _LIBC
```

```
=====
zlib-1.2.11: zlib.h, 6-23
=====
```

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