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This document contains notices regarding usage of 3rd party software in Firmware Updater, including the 3rd party software used in Qt framework.

The list of 3rd party software used in Firmware Updater application:

function2 Library

Improved and configurable drop-in replacement to std::function that supports move only types, multiple overloads and more

The sources can be found in <https://github.com/Naios/function2>

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continuable Library

C++14 asynchronous allocation aware futures (supporting then, exception handling, coroutines and connections)

The sources can be found in <https://github.com/Naios/continuable>

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JSON Library

JSON for Modern C++

The sources can be found in <https://github.com/nlohmann/json>

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The class contains a slightly modified version of the Grisu2 algorithm from Florian Loitsch which is licensed under the [MIT License](#) (see above). Copyright © 2009 [Florian Loitsch](#)

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moodycamel::ConcurrentQueue Library

A fast multi-producer, multi-consumer lock-free concurrent queue for C++11

The sources can be found in <https://github.com/ameron314/concurrentqueue>

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OpenSSL Library

OpenSSL is a robust, commercial-grade, and full-featured toolkit for the Transport Layer Security (TLS) and Secure Sockets Layer (SSL) protocols

The sources can be found in <https://github.com/openssl/openssl>

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*

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Modifications, if any, done to the third-party libraries can normally be found by reviewing the change history of the corresponding files in the public Qt repository.

Data Compression Library (zlib)

zlib is a general purpose data compression library.

Optionally used in Qt Core and development tools. Configure with `-system-zlib` to avoid.

The sources can be found in `qt5/qtbase/src/3rdparty/zlib`.

[Project Homepage](#), upstream version: 1.2.11

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Jean-loup Gailly

Mark Adler

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Easing Equations by Robert Penner

Used in Qt Core ([QEasingCurve](#)).

The sources can be found in qt5/qtbase/src/3rdparty/easing.

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Efficient Binary-Decimal and Decimal-Binary Conversion Routines for IEEE Doubles

Used in Qt Core. Configure with `-system-doubleconversion` or `-no-doubleconversion` to avoid.

The sources can be found in `qt5/qtbase/src/3rdparty/double-conversion`.

[Project Homepage](#), upstream version: **2.0.1**

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FreeBSD strtoll and strtoull

strtoll() and strtoull() are functions for converting a string to (unsigned) long long integer.

Used in Qt Core.

The sources can be found in qt5/qtbase/src/3rdparty/freebsd.

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MD4

An OpenSSL-compatible implementation of the RSA Data Security, Inc. MD4 Message-Digest Algorithm.

Used in Qt Core ([QCryptographicHash](#)). Configure with -DQT_CRYPTOGRAPHICHASH_ONLY_SHA1 to avoid. The sources can be found in qt5/qtbase/src/3rdparty/md4.

Written by Alexander Peslyak - better known as Solar Designer <solar@openwall.com> - in 2001, and placed in the public domain. There's absolutely no warranty.

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MD5

MD5 message-digest algorithm.

Used in Qt Core ([QCryptographicHash](#)). Configure with -DQT_CRYPTOGRAPHICHASH_ONLY_SHA1 to avoid. The sources can be found in qt5/qtbase/src/3rdparty/md5.

Written by Colin Plumb in 1993, no copyright is claimed.

Ian Jackson <ian@chiark.greenend.org.uk>.

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PCRE2

The PCRE library is a set of functions that implement regular expression pattern matching using the same syntax and semantics as Perl 5.

Optionally used in Qt Core ([QRegularExpression](#)). Configure with `-system-pcre` or `-no-pcre` to avoid.

The sources can be found in `qt5/qtbase/src/3rdparty/pcre2`.

[Project Homepage](#), upstream version: **10.31**

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PCRE2 LICENCE

PCRE2 is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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The basic library functions are written in C and are freestanding. Also

included in the distribution is a just-in-time compiler that can be used to optimize pattern matching. This is an optional feature that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel

Email local part: ph10

Email domain: cam.ac.uk

University of Cambridge Computing Service,
Cambridge, England.

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Written by: Zoltan Herczeg

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QEventDispatcher on macOS

Implementation of [QAbstractEventDispatcher](#) for [macOS](#).

Used in Qt Core on [macOS](#).

The sources can be found in `qt5/qtbase/src/corelib/kernel/qeventdispatcher_cf_p.h`.

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Secure Hash Algorithm SHA-1

Implements the Secure Hash Algorithms SHA 1

Used in Qt Core ([QCryptographicHash](#)).

The sources can be found in `qt5/qtbase/src/3rdparty/sha1`.

[Project Homepage](#)

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Secure Hash Algorithm SHA-3 - Keccak

SHA-3, originally known as Keccak, is a cryptographic hash function.

Used in Qt Core ([QCryptographicHash](#)).

The sources can be found in qt5/qtbase/src/3rdparty/sha3/KeccakF-1600-32-rvk.macros, qt5/qtbase/src/3rdparty/sha3/KeccakF-1600-32.macros, qt5/qtbase/src/3rdparty/sha3/KeccakF-1600-64.macros, qt5/qtbase/src/3rdparty/sha3/KeccakF-1600-interface.h, qt5/qtbase/src/3rdparty/sha3/KeccakF-1600-opt32.c, qt5/qtbase/src/3rdparty/sha3/KeccakF-1600-opt64.c, qt5/qtbase/src/3rdparty/sha3/KeccakF-1600-unrolling.macros, qt5/qtbase/src/3rdparty/sha3/KeccakNISTInterface.c, qt5/qtbase/src/3rdparty/sha3/KeccakNISTInterface.h, qt5/qtbase/src/3rdparty/sha3/KeccakSponge.c, and qt5/qtbase/src/3rdparty/sha3/KeccakSponge.h.

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Secure Hash Algorithm SHA-3 - brg_endian

SHA-3, originally known as Keccak, is a cryptographic hash function.

Used in Qt Core ([QCryptographicHash](#)).

The sources can be found in `qt5/qtbase/src/3rdparty/sha3/brg_endian.h`.

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Secure Hash Algorithms SHA-384 and SHA-512

Implements the Secure Hash Algorithms SHA 384 and SHA-512

Used in Qt Core ([QCryptographicHash](#) and [QMessageAuthenticationCode](#))

The sources can be found in qt5/qtbase/src/3rdparty/rfc6234.

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Text Codec: EUC-JP

The EUC-JP text codec provides conversion to and from EUC-JP, the main legacy encoding for Unix machines in Japan.

Used in Qt Core if ICU is not used. Configure with -icu to avoid.

The sources can be found in qt5/qtbase/src/corelib/codecs/qeucjpcodec.cpp.

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Text Codec: EUC-KR

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The sources can be found in `qt5/qtbase/src/corelib/codecs/qeuckrcodec.cpp`.

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Text Codec: GBK

The GBK codec provides conversion to and from the Chinese GB18030/GBK/GB2312 encoding.

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The sources can be found in qt5/qtbase/src/corelib/codecs/qgb18030codec.cpp.

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Text Codec: ISO 2022-JP (JIS)

The ISO 2022-JP (JIS) text codec provides conversion to and from ISO 2022-JP.

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The sources can be found in `qt5/qtbase/src/corelib/codecs/qjiscodec.cpp`.

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Text Codec: Shift-JIS

The Shift-JIS text codec provides conversion to and from Shift-JIS.

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The sources can be found in qt5/qtbase/src/corelib/codecs/qsjiscodec.cpp.

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Text Codec: TSCII

The TSCII text codec provides conversion to and from the Tamil TSCII encoding.

Used in Qt Core.

The sources can be found in `qt5/qtbase/src/corelib/codecs/qtsciicodec.cpp`.

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Text Codecs: Big5, Big5-HKSCS

The Big5 codecs (QBig5Codec, QBig5hkscsCodec) provide conversion to and from the Big5 encodings.

Used in Qt Core if ICU is not used. Configure with -icu to avoid.

The sources can be found in qt5/qtbase/src/corelib/codecs/qbig5codec.cpp.

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- Avoid privacy-damaging "supercookies" being set for high-level domain name suffixes
- Highlight the most important part of a domain name in the user interface
- Accurately sort history entries by site

Used in Qt Core to avoid "supercookies" being set in the cookie jar supported by Qt (by the [QNetworkCookieJar](#) class).

The sources can be found in `qt5/qtbase/src/corelib/io/qurltlds_p.h`.

[Project Homepage](#), upstream version: Generated on 2018-01-04

The list was originally provided by Jo Hermans <jo.hermans@gmail.com>.

It is now maintained on github (<https://github.com/publicsuffix/list>).

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Qt Core uses data obtained from UCD files for working with characters and strings.

The sources can be found in `qt5/qtbase/src/corelib/tools/qunicodetables_p.h` and `qt5/qtbase/src/corelib/tools/qunicodetables.cpp`.

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Used in Qt Core ([QTimeZone](#), [QLocale](#)).

The sources can be found in `qt5/qtbase/src/corelib/tools/qlocale_data_p.h` and `qt5/qtbase/src/corelib/tools/qtimezoneprivate_data_p.h`.

[Project Homepage](#), upstream version: v31.0.1

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forkfd

Used on most Unix platforms in Qt Core.

The sources can be found in qt5/qtbase/src/3rdparty/forkfd.

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ANGLE Library

Used on Windows to implement OpenGL ES on top of DirectX. Configure with `-no-opengl`, or `-opengl desktop` to exclude.

The sources can be found in `qt5/qtbase/src/3rdparty/angle`.

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ANGLE: Array Bounds Clamper for WebKit

Implements clamping of array indexing expressions during shader translation.

Used on Windows to implement OpenGL ES on top of DirectX. Configure with `-no-opengl`, or `-opengl desktop` to exclude.

The sources can be found in `qt5/qtbase/src/3rdparty/angle/src/third_party/compiler`.

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ANGLE: Murmurhash

Used on Windows to implement OpenGL ES on top of DirectX. Configure with `-no-opengl`, or `-opengl desktop` to exclude.

The sources can be found in `qt5/qtbase/src/3rdparty/angle/src/third_party/murmurhash`.

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ANGLE: Systeminfo

Used on Windows to implement OpenGL ES on top of DirectX. Configure with -no-opengl, or -opengl desktop to exclude.

The sources can be found in qt5/qtbase/src/3rdparty/angle/src/third_party/systeminfo.

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ANGLE: trace_event

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Anti-aliasing rasterizer from FreeType 2

FreeType is a freely available software library to render fonts.
Used in Qt GUI.

The sources can be found in qt5/qtbase/src/gui/painting/qgrayraster.c.

[Project Homepage](#)

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Cocoa Platform Plugin

Allows Qt to integrate into Apple's Cocoa API.

Code used in the Qt Platform Abstraction (QPA) for [macOS](#).

The sources can be found in

qt5/qtbase/src/plugins/platforms/cocoa/qcocoaapplication.h,
qt5/qtbase/src/plugins/platforms/cocoa/qcocoaapplication.mm,
qt5/qtbase/src/plugins/platforms/cocoa/qcocoaapplicationdelegate.h,
qt5/qtbase/src/plugins/platforms/cocoa/qcocoaapplicationdelegate.mm,
qt5/qtbase/src/plugins/platforms/cocoa/qcocoaeventdispatcher.h,
qt5/qtbase/src/plugins/platforms/cocoa/qcocoaeventdispatcher.mm,
qt5/qtbase/src/plugins/platforms/cocoa/qcocoaintrospection.h,
qt5/qtbase/src/plugins/platforms/cocoa/qcocoaintrospection.mm,
qt5/qtbase/src/plugins/platforms/cocoa/qcocoasystemtrayicon.mm, and
qt5/qtbase/src/plugins/platforms/cocoa/qmacdefines_mac.h.

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FreeType 2

FreeType is a freely available software library to render fonts. Optionally used in Qt GUI and platform plugins. Configure with `-no-freetype`, or `-system-freetype` to avoid.

The sources can be found in `qt5/qtbase/src/3rdparty/freetype`.

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Jean-loup Gailly

Mark Adler

jloup@gzip.org

madler@alumni.caltech.edu

HarfBuzz

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IAccessible2 IDL Specification

IAccessible2 is a new accessibility API which complements Microsoft's earlier work on MSAA
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The sources can be found in `qt5/qtbase/src/3rdparty/iaccessible2`.

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The Independent JPEG Group's JPEG software

Used in the QJPEG image plugin. Configure with `-no-jpeg` to avoid.

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Glenn Randers-Pehrson

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OpenGL ES 2 Headers

OpenGL ES 2 header generated from the Khronos OpenGL / OpenGL ES XML API Registry.

Used on Windows and Linux in the OpenGL related headers of Qt GUI.

The sources can be found in qt5/qtbase/src/gui/opengl/qopengles2ext.h.

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Pixman

pixman is a library that provides low-level pixel manipulation features such as image compositing and trapezoid rasterization.

Used in Qt GUI on ARM NEON.

The sources can be found in qt5/qtbase/src/3rdparty/pixman.

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Smooth Scaling Algorithm

Normal smoothscale method, based on Imlib2's smoothscale.

Used in Qt Gui ([QImage::transformed\(\)](#) functions).

The sources can be found in `qt5/qtbase/src/gui/painting/qimagescale.cpp`.

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Vulkan API Registry

Vulkan XML API Registry.

Used to dynamically generate the sources for the QVulkan(Device)Functions classes.

The sources can be found in qt5/qtbase/src/gui/vulkan/vk.xml.

[Project Homepage](#), upstream version: 1.0.39

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Wintab API

Wintab is a de facto API for pointing devices on Windows.

Used in the Qt platform plugin for Windows. Configure with `-no-feature-tabletevent` to avoid.

The sources can be found in `qt5/qtbase/src/3rdparty/wintab`.

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XCB

Selected xcb libraries.

Optionally used in xcb platform plugin if configured with `-qt-xcb`.

The sources can be found in `qt5/qtbase/src/3rdparty/xcb`.

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sRGB color profile icc file

An ICC color profile for PDF/A-1b compatible PDF files.

Used in Qt Gui (Embedded into PDF/A-1b files generated by QPrinter/[QPdfWriter](#)). The sources can be found in `qt5/qtbase/src/3rdparty/icc/sRGB2014.icc`.

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(original source location: <http://www.color.org/srgbprofiles.xalter>)

xkbcommon

xkbcommon is a keymap compiler and support library which processes a reduced subset of keymaps as defined by the XKB specification.

Used in xcb platform plugin. Configure with `-system-xkbcommon-x11` to avoid.

The sources can be found in `qt5/qtbase/src/3rdparty/xkbcommon`.

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JavaScriptCore Macro Assembler

Used in Qt QML.

The sources can be found in qt5/qtdeclarative/src/3rdparty/masm.

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Shadow values from Angular Material

Shadow values for the elevation effect.

Used in the Material Style of Qt Quick Controls 2.

The sources can be found in
`qt5/qtquickcontrols2/src/imports/controls/material/ElevationEffect.qml`.

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SQLite

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The sources can be found in `qt5/qtbase/src/3rdparty/sqlite`.

[Project Homepage](#), upstream version: **3.24.0**

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JavaScriptCore is the built-in JavaScript engine, originally developed for WebKit. Used as JavaScript engine in Qt Script.

The sources can be found in qt5/qtscript/src/3rdparty/javascriptcore.

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XML Schema

The xml.xsd file provided by W3C describes the XML namespace, in a form suitable for import by other schema documents.

Used for implementing validation of the the XML schema.

The sources can be found in
qt5/qt5xmlpatterns/src/xmlpatterns/schema/schemas/xml.xsd.

[Project Homepage](#), upstream version: 2007/08

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

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Flot Javascript/JQuery library for creating graphs

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/// OpenGL Mathematics (glm.g-truc.net)

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

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

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve

this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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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
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Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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

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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

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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)

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

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WebM container parser and writer.

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WebP image encoder/decoder

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Windows Template Library (WTL)

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pyyaml tests  llvm/test/YAMLParse/{*.data, LICENSE.TXT}

ARM contributions llvm/lib/Target/ARM/LICENSE.TXT

md5 contributions llvm/lib/Support/MD5.cpp llvm/include/llvm/Support/MD5.h
```

libaddressinput

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libjpeg

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libsrtp

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libudev

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any

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libvpx

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libxml

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libxslt

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linux-syscall-support

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minigbm

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modp base64 decoder

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```
* MODP_B64 - High performance base64 encoder/decoder

* Version 1.3 -- 17-Mar-2006

* http://modp.com/release/base64

*

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mt19937ar

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A C-program for MT19937, with initialization improved 2002/1/26.

Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`

or `init_by_array(init_key, key_length)`.

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nmoinvaz/minizip

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opus

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re2 - an efficient, principled regular expression library

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sfntly

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simplejson

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url_parse

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usrctp

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v4l-utils

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valgrind

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xdg-mime

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xdg-user-dirs

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