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Arm Document Reference LES-PRE-21260, Version 12.4, Effective Date 22.01.2021

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=====

**SECTION 1: THIRD PARTY SOFTWARE PROJECTS**

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**1a) Arm Virtual Hardware Framework**

=====

Name: Awscli - 1.18.69-1ubuntu0.20.04.1  
Summary: This package provides a unified command line interface to Amazon Web Services.  
Home-page: <https://github.com/aws/aws-cli/>  
License(s): Apache-2.0 License. See later section for a copy of the license text.  
Copyright(s): Copyright 2014 Amazon.com, Inc. or its affiliates.  
Source(s): <https://github.com/aws/aws-cli/releases/tag/1.18.69>

Name: Docker CE - 20.10.7  
Summary: Docker takes away repetitive, mundane configuration tasks and is used throughout the development lifecycle for fast, easy and portable application development - desktop and cloud.

Home-page: <https://www.docker.com/>  
License(s): Apache-2.0 License. See later section for a copy of the license text.  
Copyright(s): Copyright 2013-2018 Docker, Inc.  
Source(s): <https://github.com/docker/cli/releases/tag/v20.10.7>

---

Name: Dos2Unix/Unix2Dos - 7.4.0  
Summary: A tool that converts text files with DOS or Mac line breaks to Unix line breaks and vice versa.  
Home-page: <https://waterlan.home.xs4all.nl/dos2unix.html>  
License(s): BSD 2-clause FreeBSD License. See later section for a copy of the license text.  
Copyright(s): Copyright (C) 2009-2016 Erwin Waterlander  
Copyright (C) 1998 Christian Wurll  
Copyright (C) 1998 Bernd Johannes Wuebben  
Copyright (C) 1994-1995 Benjamin Lin.  
Source(s): <https://waterlan.home.xs4all.nl/dos2unix/dos2unix-7.4.0-win32.zip>

---

Name: telnet - 0.17-41.2build1  
Summary: Basic telnet client and server  
Home-page: <https://github.com/marado/netkit-telnet>  
License(s): BSD-3-Clause AND BSD-4-Clause-UC  
See later section for a copy of the license text.  
Copyright(s): Copyright (c) 2014, Marcos Marado  
Copyright (c) 1991 The Regents of the University of California.  
Source(s): <https://github.com/marado/netkit-telnet>

---

Name: Libzstd1 - 1.4.4+dfsg-3ubuntu0.1  
Summary: Zstandard, or zstd as short version, is a fast lossless compression algorithm, targeting real-time compression scenarios at zlib-level and better compression ratios.  
Home-page: <https://github.com/facebook/zstd>  
License(s): BSD-3-Clause license.  
See later section for a copy of the license text  
Copyright(s): Copyright (c) 2016-present, Facebook  
Copyright (c) 2018-present Dima Krasner  
Source(s): <https://github.com/facebook/zstd/releases/tag/v1.4.4>

---

Name: Bzip2 - 1.0.8-2  
Summary: high-quality data compressor  
Home-page: <https://www.sourceware.org/bzip2/>  
License(s): bzip2 License. See later section for a copy of the license text.  
Copyright(s): Copyright © 1996-2019 Julian Seward  
Source(s): <https://www.sourceware.org/bzip2/downloads.html>

---

Name: Curl  
Summary: command line tool and library for transferring data with URLs  
Home-page: <https://curl.se/>  
License(s): curl License. See later section for a copy of the license text.  
Copyright(s): Copyright (C) 1998 - 2019, Daniel Stenberg, <daniel@haxx.se>  
Source(s): [https://github.com/curl/curl/releases/tag/curl-7\\_68\\_0](https://github.com/curl/curl/releases/tag/curl-7_68_0)

---

Name: Unzip - 6.0-25ubuntu1  
Summary: UnZip is an extraction utility for archives compressed in .zip format (also called "zipfiles").  
Home-page: <http://infozip.sourceforge.net/UnZip.html>  
License(s): Info-ZIP License. See later section for a copy of the license text  
Copyright(s): Copyright (c) 1990-2009 Info-ZIP  
Source(s): <https://sourceforge.net/projects/zip/files/UnZip%206.x%20%28latest%29/>

---

Name: Linux Standard Base (LSB) - 11.1.0ubuntu2  
Summary: <https://wiki.linuxfoundation.org/lb/start>

Home-page: The Linux Standard Base was created to lower the overall costs of supporting the Linux platform.  
License(s): GPL-2.0-only AND BSD-3-Clause license.  
See later section for a copy of the license text  
Copyright(s): Copyright: 2002-2010, Chris Lawrence <lawrenc@debian.org>  
Source(s): <https://launchpad.net/ubuntu/+source/lb/11.1.0ubuntu2>  
-----

Name: TigerVNC - 1.11.0  
Summary: High performance, multi-platform VNC client and server  
Home-page: <https://github.com/TigerVNC/tigervnc>  
License(s): GPL-2.0-only AND BSD-3-Clause license.  
See later section for a copy of the license text  
Copyright(s): Copyright (C) 2009-2011 Pierre Ossman for Cendio AB  
Copyright (C) 2004, 2009-2011 Red Hat, Inc.  
Copyright (C) 2009-2020 TigerVNC Team  
Copyright (c) 2000-2011 ymnk, JCraft, Inc.  
Source(s): <https://github.com/TigerVNC/tigervnc/releases/tag/v1.11.0>  
-----

Name: Git - 1:2.25.1-1ubuntu3.1  
Summary: Git is a free and open source distributed version control system  
Home-page: <https://git-scm.com/>  
License(s): GPL-2.0-only AND GPL-2.0+ license.  
See later section for a copy of the license text  
Copyright(s): Copyright 2008-2009 Peter Krefting <peter@softwolves.pp.se>  
Copyright (c) 2005 Junio C Hamano  
Source(s): <https://blueprints.launchpad.net/ubuntu/+source/git/1:2.25.1-1ubuntu3.1>  
-----

Name: Xfce4-terminal - 0.8.9.1-1  
Summary: Xfce Terminal is a lightweight and easy to use terminal emulator application with many advanced features  
Home-page: <https://xfce.org/>  
License(s): GPL-2.0+ license. See later section for a copy of the license text  
Copyright(s): Copyright (C) 1989, 1991 Free Software Foundation, Inc.  
Source(s): <https://archive.xfce.org/src/apps/xfce4-terminal/0.8/>  
-----

Name: Xfce4 - 4.14  
Summary: Xfce is a lightweight desktop environment for UNIX-like operating systems.  
Home-page: <https://xfce.org/>  
License(s): GPL-2.0+ license. See later section for a copy of the license text  
Copyright(s): Copyright (c) 2006 Benedikt Meurer <benny@xfce.org>  
Source(s): [https://archive.xfce.org/xfce/4.14/fat\\_tarballs/](https://archive.xfce.org/xfce/4.14/fat_tarballs/)  
-----

Name: Iproute2 - 5.5.0-1ubuntu1  
Summary: Iproute2 is a collection of utilities for controlling TCP / IP networking and traffic control in Linux.  
Home-page: <https://wiki.linuxfoundation.org/networking/iproute2>  
License(s): GPL-2.0+ license AND GPL-2.0 WITH Linux-syscall-note.  
See later section for a copy of the license text  
Copyright(s): Copyright (c) 2011-2014 PLUMgrid, <http://plumgrid.com>  
Copyright (c) 2016 Mellanox Technologies.  
Source(s): <https://mirrors.edge.kernel.org/pub/linux/utils/net/iproute2/iproute2-5.5.0.tar.gz>  
-----

Name: Make - 4.2.1-1.2  
Summary: GNU Make is a tool which controls the generation of executables and other non-source files of a program from the program's source files.  
Home-page: <https://www.gnu.org/software/make/>  
License(s): GPL-3.0+ license. See later section for a copy of the license text  
Copyright(s): Copyright (C) 1997-2016 Free Software Foundation, Inc.

Source(s): <https://ftp.gnu.org/gnu/make/make-4.2.1.tar.bz2>

---

Name: Wget - 1.20.3-1ubuntu1

Summary: GNU Wget is a free software package for retrieving files using HTTP, HTTPS, FTP and FTPS, the most widely used Internet protocols

Home-page: <https://www.gnu.org/software/wget/>

License(s): GPL-3.0+ license. See later section for a copy of the license text

Copyright(s): Copyright (C) 1990-2005, 2007-2009 Free Software Foundation, Inc.

Copyright (C) 2009-2019 Free Software Foundation, Inc.

Source(s): <https://ftp.gnu.org/gnu/wget/>

---

Name: Sudo - 1.8.31-1ubuntu1.2

Summary: allows a system administrator to delegate authority to give certain users the ability to run commands as root

Home-page: <http://www.sudo.ws/>

License(s): ISC license. See later section for a copy of the license text.

Copyright(s): Copyright (c) 1994-1996, 1998-2020 Todd C. Miller

<Todd.Miller@sudo.ws>

Source(s): <https://www.sudo.ws/dist/sudo-1.8.32.tar.gz>

---

Name: Code-server - 3.11.0

Summary: Run VS Code on any machine anywhere and access it in the browser.

Home-page: <https://github.com/cdr/code-server>

License(s): MIT license. See later section for a copy of the license text.

Copyright(s): Copyright (c) 2019 Coder Technologies Inc.

Source(s): <https://github.com/cdr/code-server/releases/tag/v3.11.0>

---

Name: Xterm - 353-1ubuntu1.20.04.2

Summary: The xterm program is a terminal emulator for the X Window System.

Home-page: <https://github.com/ThomasDickey/xterm-snapshots>

License(s): MIT license. See later section for a copy of the license text.

Copyright(s): Copyright 2002-2019,2020 by Thomas E. Dickey

Source(s): <https://github.com/ThomasDickey/xterm-snapshots/releases/tag/xterm-353e>

---

Name: CMake - 3.16.3-1ubuntu1

Summary: CMake is an open-source, cross-platform family of tools designed to build, test and package software.

Home-page: <https://cmake.org/>

License(s): MIT license. See later section for a copy of the license text.

Copyright(s): Copyright: 2011-2012 Aleksey Kravchenko <rhash.admin@gmail.com>

Copyright (C) Microsoft Corporation. All rights reserved.

Source(s): <https://gitlab.kitware.com/cmake/cmake/-/tags/v3.16.3>

---

Name: Libxinerama1 - 2:1.1.4-2

Summary: The Xinerama (also known as panoramiX) extension allows for multiple screens attached to a single display to be treated as belonging together, and to give desktop applications a better idea of the monitor layout.

Home-page: <https://www.x.org/wiki/>

License(s): MIT license. See later section for a copy of the license text.

Copyright(s): Copyright (c) 2007, Oracle and/or its affiliates.

Source(s): <https://packages.debian.org/buster/libxinerama1>

---

Name: Firefox - 90.0+build1-0ubuntu0.20.04.1

Summary: <https://www.mozilla.org/>

Home-page: Desktop browser

License(s): MPL-2.0 license. See later section for a copy of the license text.

Source(s): <https://www.mozilla.org/en-US/firefox/new/>

---

Name: Python v3.7.11, v3.8.2 and v3.9.6

Summary: Python is an efficient high-level data structures and a simple but

effective approach to object-oriented programming. Python's elegant syntax and dynamic typing, together with its interpreted nature, make it an ideal language for scripting and rapid application development in many areas on most platforms.

Home-page: <https://www.python.org/>

License(s): Python License 2.0 (Python-2.0). See later section for a copy of license text.

Copyright(s): <https://www.python.org/doc/copyright/>

Source(s): <https://www.python.org/downloads/release/python-3711/>  
<https://www.python.org/downloads/release/python-382/>  
<https://www.python.org/downloads/release/python-396/>

---

Name: Vim - 2:8.1.2269-1ubuntu5

Summary: Vim is a highly configurable text editor built to make creating and changing any kind of text very efficient.

Home-page: <https://www.vim.org/>

License(s): Vim license. See later section for a copy of the license text.

Copyright(s): Copyright (C) 2006 Martin Krischik

Source(s): <https://github.com/vim/vim/tree/v8.1.2269>

---

Name: Ubuntu - 20.04

Summary: Ubuntu is a Linux distribution based on Debian and composed mostly of free and open-source software.

Home-page: <https://ubuntu.com/download/desktop>

License(s): Ubuntu license. See later section for a copy of the license text.

Source(s): <https://ubuntu.com/download/desktop>

---

## 1b) Arm Fixed Virtual Platforms

---

Name: Accellera SystemC v2.3.2

Summary: Reference implementation of the SystemC standard.

Home-page: <https://accellera.org/downloads/standards/systemc>

License(s): Apache License 2.0 (Apache-2.0). See later section for a copy of license text.

Copyright(s): See 'Notice' file appended to Apache License 2.0 text. For full list, please refer to Source(s).

Source(s): <https://accellera.org/downloads/standards/systemc>

---

Name: Python v2.7.4 and v3.9.6

Summary: Python is an efficient high-level data structures and a simple but effective approach to object-oriented programming. Python's elegant syntax and dynamic typing, together with its interpreted nature, make it an ideal language for scripting and rapid application development in many areas on most platforms.

Home-page: <https://www.python.org/>

License(s): Python License 2.0 (Python-2.0). See later section for a copy of license text.

Copyright(s): <https://www.python.org/doc/copyright/>

Source(s): <https://www.python.org/downloads/release/python-274/>  
<https://www.python.org/downloads/release/python-396/>

---

Name: libgcc v4.9.2 (Linux OS only)

Summary: GCC runtime support library for Linux.

Home-page: <https://gcc.gnu.org/>

License(s): GNU General Public License v3.0 or later WITH GCC Runtime Library exception 3.1 (GPL-3.0-or-later WITH GCC-exception-3.1). See later section for a copy of license text.

Copyright(s): Copyright (C) 2003-2014 Free Software Foundation, Inc. For full list, please refer to Source(s).

Source(s): libgcc folder in <ftp://ftp.gnu.org/gnu/gcc/gcc-4.9.2/>

---

Name: libstdc++ v6.0.20 (GCC 4.9.2) (Linux OS only)  
Summary: GCC C++ runtime support library for Linux.  
Home-page: <https://gcc.gnu.org/>  
License(s): GNU General Public License v3.0 or later WITH GCC Runtime Library exception 3.1 (GPL-3.0-or-later WITH GCC-exception-3.1). See later section for a copy of license text.  
Copyright(s): Copyright (C) 2003-2014 Free Software Foundation, Inc. For full list, please refer to Source(s).  
Source(s): libstdc++-v3 folder in <ftp://ftp.gnu.org/gnu/gcc/gcc-4.9.2/>

---

Name: sdl v2.0.10  
Summary: Simple DirectMedia Layer (SDL) is a cross-platform development library designed to provide low level access to audio, keyboard, mouse, joystick, and graphics hardware via OpenGL and Direct3D.  
Home-page: <https://www.libsdl.org/>  
License(s): zlib license (Zlib). See later section for a copy of license text.  
Copyright(s): Copyright (C) 1997-2019 Sam Lantinga <[slouken@libsdl.org](mailto:slouken@libsdl.org)>. For full list, please refer to Source(s).  
Source(s): <https://www.libsdl.org/download-2.0.php>

---

Name: SWIG 2.0.9  
Summary: SWIG is an interface compiler that connects programs written in C and C++ with scripting languages such as Perl, Python, Ruby, and Tcl.  
Home-page: <http://www.swig.org/index.php>  
License(s): University of Utah Permissive License, University of Arizona Permissive License and University of Chicago Permissive License. See later section for a copy of license text.  
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Copyright (c) 1998-2005 University of Chicago.  
Copyright (c) 1995-1998 The University of Utah and the Regents of the University of California  
For full list, please refer to Source(s).  
Source(s): <https://sourceforge.net/projects/swig/files/>

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---

Name: LLVM v3.8.0  
Summary: The LLVM Core libraries provide a modern source- and target-independent optimizer, along with code generation support for many popular CPUs. These libraries are built around a well specified code representation known as the LLVM intermediate representation ("LLVM IR")  
Home-page: <https://llvm.org/>  
License(s): University of Illinois/NCSA Open Source License (NCSA). See later section for a copy of license text.  
Copyright(s): Copyright (c) 2003-2015 University of Illinois at Urbana-Champaign. All rights reserved.  
For full list, please refer to Source(s).  
Source(s): <https://github.com/llvm/llvm-project/tree/llvmorg-3.8.0>

---

Name: LLVM v5.0.0  
Summary: The LLVM Core libraries provide a modern source- and target-independent optimizer, along with code generation support for many popular CPUs. These libraries are built around a well specified code representation known as the LLVM intermediate representation ("LLVM IR")

Home-page: <https://llvm.org/>  
License(s): University of Illinois/NCSA Open Source License (NCSA). See later section for a copy of license text.  
Copyright(s): Copyright (c) 2003-2017 University of Illinois at Urbana-Champaign. All rights reserved.  
For full list, please refer to Source(s).  
Source(s): <https://github.com/llvm/llvm-project/tree/llvmorg-5.0.0>

---

Name: mbed TLS v2.16.6  
Summary: mbed TLS makes it trivially easy for developers to include cryptographic and SSL/TLS capabilities in their (embedded) products, facilitating this functionality with a minimal coding footprint.  
Home-page: <https://tls.mbed.org/>  
License(s): Apache License 2.0 (Apache-2.0). See later section for a copy of license text.  
Copyright(s): Copyright (C) 2006-2021, ARM Limited, All Rights Reserved.  
For full list, please refer to Source(s).  
Source(s): <https://tls.mbed.org/download/start/mbedtls-2.16.6-apache.tgz>

---

Name: LibTomCrypt #165c795  
Summary: LibTomCrypt is a fairly comprehensive, modular and portable cryptographic toolkit that provides developers with a vast array of well known published block ciphers, one-way hash functions, chaining modes, pseudo-random number generators, public key cryptography and a plethora of other routines.  
Home-page: <https://www.libtom.net/LibTomCrypt/>  
License(s): The Unlicense : <https://unlicense.org/>  
CC0 1.0 Universal : <http://creativecommons.org/publicdomain/zero/1.0>  
OpenSSL license : <https://www.openssl.org/source/license.html>  
Apache 2.0 : <http://www.apache.org/licenses/LICENSE-2.0>  
Copyright(s): Copyright 2012, Samuel Neves <sneves@dei.uc.pt>  
For full list, please refer to Source(s).  
Source(s): <https://github.com/libtom/libtomcrypt/commit/165c795>

---

Name: zlib v1.2.11  
Summary: File Compression and Uncompression Library.  
Home-page: <http://www.zlib.net/>  
License(s): zlib License (Zlib). See later section for a copy of license text.  
Copyright(s): Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler, et al.  
For full list, please refer to Source(s).  
Source(s): <https://github.com/madler/zlib/tree/v1.2.11>

---

Name: FFmpeg v4.1.3 (for Video Processor Fast Models only)  
Summary: FFmpeg is set of tools and libraries for audio/video processing. The library comes in either GPLv2 or LGPL version depending of the build options.  
Home-page: <https://ffmpeg.org/>  
License(s): GNU Lesser General Public License v2.1 or later (LGPL-2.1-or-later) and portions under the Independent JPEG Group License (IJG). See later section for a copy of license texts.  
Copyright(s): Copyright (C) 1991, 1999 Free Software Foundation, Inc.  
For full list, please refer to Source(s).  
Source(s): <https://github.com/FFmpeg/FFmpeg/tree/n4.1.3>

---

Name: OpenMAX IL(ffomaxil) v1.2.0 (for Video Processor Fast Models only)  
Summary: Headers file for the OpenMAX standard.  
Home-page: <https://www.khronos.org/openmax/il/>  
License(s): MIT License (MIT). See later section for a copy of license text.  
Copyright(s): Copyright (c) 2016 The Khronos Group Inc.  
For full list, please refer to Source(s).  
Source(s): <https://www.khronos.org/registry/OpenMAX-IL/>

---

Name: libvpx v1.6.0 (for Video Processor Fast Models only)  
Summary: Library to encode and decode videos in VP8, VP9 and VP10 formats  
Home-page: <https://www.webmproject.org/code/>  
License(s): BSD 3-Clause "New" or "Revised" License (BSD-3-Clause). See later section for a copy of license text.  
Copyright(s): Copyright (c) 2010, The WebM Project authors. All rights reserved.  
For full list, please refer to Source(s).  
Source(s): <https://chromium.googlesource.com/webm/libvpx/+refs/tags/v1.6.0/>

---

Name: drm\_fourcc.h and related libdrm headers (drm.h, drm\_mode.h)  
Summary: Headers from the Mesa libdrm library to encode OpenGL Formats for images.  
Home-page: <https://01.org/linuxgraphics/community/libdrm>  
License(s): MIT License (MIT). See later section for a copy of license text.  
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Copyright (c) 2008 Red Hat Inc.  
Copyright (c) 2007-2008 Tungsten Graphics, Inc., Cedar Park, TX., USA  
Copyright (c) 2007-2008 Intel Corporation  
Source(s): <https://gitlab.freedesktop.org/mesa/drm/-/tree/master/include/drm>

---

Name: Wayland 1.16 header files  
Summary: Headers from the Wayland compositor protocol  
Home-page: <https://wayland.freedesktop.org/>  
License(s): MIT License (MIT). See later section for a copy of license text.  
Copyright(s): Copyright (c) 2008-2012 Kristian Høgsberg  
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Copyright (c) 2011 Benjamin Franzke  
Copyright (c) 2012 Collabora, Ltd.  
Source(s): <https://gitlab.freedesktop.org/wayland/wayland/-/tree/1.16>

---

Name: OpenGL v2.1  
Summary: OpenGL is the most widely adopted 2D and 3D graphics API in the industry, bringing thousands of applications to a wide variety of computer platforms. It is window-system and operating-system independent as well as network-transparent.  
Home-page: <https://www.khronos.org/opengl/>  
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Source(s): <https://github.com/KhronosGroup/OpenGL-Registry/tree/master/api>

---

Name: Boost C++ Libraries, v1.67.0  
Summary: Boost provides free peer-reviewed portable C++ source libraries.  
Home-page: <https://www.boost.org/>  
License(s): Boost Software License 1.0 (BSL-1.0). See later section for a copy of license text.  
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<https://dl.bintray.com/boostorg/release/1.67.0/source/>

---

Name: Boost C++ Libraries, v1.69.0  
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<https://dl.bintray.com/boostorg/release/1.69.0/source/>

---

Name: spdlog, v0.11.0  
Summary: Fast C++ logging library.  
Home-page: <https://github.com/gabime/spdlog>  
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Source(s): <https://github.com/gabime/spdlog/tree/v0.11.0>

---

Name: spdlog, v1.3.1  
Summary: Fast C++ logging library.  
Home-page: <https://github.com/gabime/spdlog>  
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Copyright(c) 2016 Alexander Dalshov.  
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Source(s): <https://github.com/gabime/spdlog/tree/v1.3.1>

---

Name: ac\_types, v4.0.0  
Summary: Algorithmic C Datatypes.  
Home-page: [https://github.com/hlslibs/ac\\_types](https://github.com/hlslibs/ac_types)  
License(s): Apache License 2.0. See later section for a copy of license text.  
Copyright(s): Copyright 2004-2018 Mentor Graphics Corporation  
Source(s): [https://github.com/hlslibs/ac\\_types/tree/4.0.0](https://github.com/hlslibs/ac_types/tree/4.0.0)

---

Name: {fmt}, v3.0.1  
Summary: C++ formatting library.  
Home-page: <https://fmt.dev/latest/index.html>  
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Source(s): <https://github.com/fmtlib/fmt/tree/3.0.1>

---

Name: ELF Tool Chain, v0.6.1  
Summary: Libraries for building and analyzing ELF images.  
Home-page: <https://sourceforge.net/p/elftoolchain/wiki/Home/>  
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Source(s): <https://sourceforge.net/projects/elftoolchain/files/Sources/elftoolchain-0.6.1/>  
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Name: Uthash, v1.9.5  
Summary: Hash table for C structures.  
Home-page: <http://troydhanson.github.io/uthash/>  
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Source(s): <https://sourceforge.net/projects/uthash/files/uthash/uthash-1.9.5/>  
-----

Name: cereal v1.2.2  
Summary: C++ serialization library.  
Home-page: <http://uscilab.github.io/cereal/>  
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Source(s): <https://github.com/USCiLab/cereal/releases/tag/v1.2.2>  
-----

Name: pugixml v1.8  
Summary: Lightweight XML parser for C++  
Home-page: <https://pugixml.org/>  
License(s): MIT License (MIT). See later section for a copy of license text.  
Copyright(s): Copyright (c) 2006-2016 Arseny Kapoulkine  
Source(s): <https://github.com/zeux/pugixml/releases/tag/v1.8>  
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=====  
1c) ARM Compiler 6  
=====

Name: Clang #0d487cf  
Summary: C/C++ language frontend for LLVM.  
Home-page: <https://clang.llvm.org/>  
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Source(s): <https://github.com/llvm/llvm-project/tree/0d487cf/clang>  
-----

Name: fdlibm (1993)

Summary: Freely Distributable Maths library. The Arm C library includes code from fdlibm, under the copyright and license mentioned below.  
Home-page: <https://www.netlib.org/fdlibm/>  
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Copyright(s): Copyright (C) 1993 by Sun Microsystems, Inc. All rights reserved.

---

Name: libcpp #0d487cf  
Summary: The LLVM implementation of the C++ standard library.  
Home-page: <https://libcxx.llvm.org/>  
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Source(s): <https://github.com/llvm/llvm-project/tree/0d487cf/libcxx>

---

Name: libcppabi #0d487cf  
Summary: C++ ABI runtime support library from the LLVM project.  
Home-page: <https://libcxxabi.llvm.org/>  
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Source(s): <https://github.com/llvm/llvm-project/tree/0d487cf/libcxxabi>

---

Name: libunwind #0d487cf  
Summary: C++ exception unwind library from the LLVM project. Library to determine the call-chain of a program..  
Home-page: <https://github.com/llvm-mirror/libunwind>  
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Source(s): <https://github.com/llvm/llvm-project/tree/0d487cf/libunwind>  
Note: The included license file refers to CREDITS.TXT in its Copyright statement. However, the provider of libunwind, the LLVM project, has not included the referenced CREDITS.TXT file in the aforementioned source repository.

---

Name: libxml2 v2.9.9  
Summary: XML C parsing library.  
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For full list, please refer to Source(s).  
Source(s): <ftp://xmlsoft.org/libxml2/>

-----  
Name: LLVM #0d487cf  
Summary: The LLVM Project is a collection of modular and reusable compiler and toolchain technologies. The LLVM Core libraries provide a modern source- and target-independent optimizer, along with code generation support for many popular CPUs.  
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Source(s): <https://github.com/llvm/llvm-project/tree/0d487cf/llvm>  
-----

Name: glibc v2.12 (Linux OS only)  
Summary: The GNU C Library. GNU C library (glibc) is dynamically linked to Arm Compiler for running on Linux Systems.  
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For full list, please refer to Source(s).  
Source(s): <https://ftp.gnu.org/gnu/glibc/>  
-----

Name: libstdc++ 6.0.24 (Part of GCC 7.3.0) (Linux OS only)  
Summary: The GNU Standard C++ Library for Linux.  
Home-page: <https://gcc.gnu.org/>  
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For full list, please refer to Source(s).  
Source(s): <https://gcc.gnu.org/svn/gcc/branches/gcc-7-branch/libstdc++-v3/>  
-----

Name: ncurses v6.0 (Linux and Mac OSes only)  
Summary: GNU New Curses Library. ncurses (new curses) is a toolkit for developing "GUI-like" application software that runs under a terminal emulator.  
Home-page: <https://www.gnu.org/software/ncurses/>  
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For full list, please refer to Source(s).  
Source(s): <ftp://ftp.invisible-island.net/ncurses/6.0/>  
-----

Name: Core Foundation, part of Xcode Developer Tools (Mac OS only)  
Summary: Apple's Core Foundation framework. The Foundation Project, providing core utilities, internationalization, and OS independence. This is part of the Swift Project <https://swift.org/> (a general-purpose programming language)  
Home-page: <https://developer.apple.com/documentation/corefoundation>  
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For full list, please refer to Source(s).

Source(s): <https://github.com/apple/swift-corelibs-foundation>

---

Name: swift-compiler-rt, part of Xcode Developer Tools (Mac OS only)  
Summary: The LLVM/Clang compiler-rt Runtime Library. This is part of the Swift project, derived from the LLVM compiler-rt project.  
Home-page: <https://github.com/apple/swift-compiler-rt>  
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For full list, please refer to Source(s).  
Source(s): <https://github.com/apple/swift-compiler-rt>

---

Name: IOKit, part of Xcode Developer Tools (Mac OS only)  
Summary: The I/O Kit framework.  
Home-page: <https://developer.apple.com/documentation/iokit>  
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For full list, please refer to Source(s).  
Source(s): <https://opensource.apple.com/source/IOKitUser/IOKitUser-1445.71.1/>

---

Name: Libsystem, part of Xcode Developer Tools (Mac OS only)  
Summary: Libsystem from Apple Inc.  
Home-page: <https://opensource.apple.com/source/Libsystem/Libsystem-1252.50.4/>  
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For full list, please refer to Source(s).  
Source(s): <https://opensource.apple.com/source/Libsystem/Libsystem-1252.50.4/>

---

Name: Libc, part of Xcode Developer Tools (Mac OS only)  
Summary: The Apple Libc Library.  
Home-page: <https://opensource.apple.com/source/Libc/Libc-1244.50.9/>  
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Source(s): <https://opensource.apple.com/source/Libc/Libc-1244.50.9/>

---

Name: libiconv v1.15  
Summary: iconv - Unicode character set conversion library.  
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For full list, please refer to Source(s).  
Source(s): <https://ftp.gnu.org/gnu/libiconv/libiconv-1.15.tar.gz>

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