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## Third Party Notices

### 64-Bit Dynamic Linker

**Version:** n/a  
**Component(s):** Runtime  
**Description:** The dynamic linker is used to load shared libraries.

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### abseil-cpp

**Version:** 20230802  
**Component(s):** Runtime  
**Description:** open-source collection of C++ code (compliant to C++11) designed to augment the C++ standard library. Needed to build TensorFlow Lite

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### ACPIA

**Version:** 20170303  
**Component(s):** Runtime  
**Description:** Provides code to implement ACPI specification in VxWorks.

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Submitted by Bob Moore on 22 July, 2015 - 12:32

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## acpiBSD.c

**Version:** n/a  
**Component(s):** Target/Runtime  
**Description:** VxWorks source code

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## ANSI C Library

**Version:** n/a  
**Component(s):** Target/Runtime  
**Description:** This library provides functions like: cbrt cabs exp sqrt sinh atan tanh log cosh pow acosh atan2 log1p asinh sincos atanh tan log10 asincos

vxworks-7/pkgs/os/lang-lib/libc/libc-kernel/h/private/trigP.h  
 vxworks-7/pkgs/os/lang-lib/libc/libc-kernel/src/math/cbrt.c  
 vxworks-7/pkgs/os/lang-lib/libc/libc-kernel/src/math/cabs.c  
 vxworks-7/pkgs/os/lang-lib/libc/libc-kernel/src/libc/math/exp.c  
 vxworks-7/pkgs/os/lang-lib/libc/libc-kernel/src/libc/math/sqrt.c  
 vxworks-7/pkgs/os/lang-lib/libc/libc-kernel/src/libc/math/sinh.c  
 vxworks-7/pkgs/os/lang-lib/libc/libc-kernel/src/libc/math/atan.c  
 vxworks-7/pkgs/os/lang-lib/libc/libc-kernel/src/libc/math/tanh.c  
 vxworks-7/pkgs/os/lang-lib/libc/libc-kernel/src/libc/math/log.c  
 vxworks-7/pkgs/os/lang-lib/libc/libc-kernel/src/libc/math/cosh.c  
 vxworks-7/pkgs/os/lang-lib/libc/libc-kernel/src/libc/math/pow.c  
 vxworks-7/pkgs/os/lang-lib/libc/libc-kernel/src/libc/math/support.c  
 vxworks-7/pkgs/os/lang-lib/libc/libc-kernel/src/libc/math/acosh.c  
 vxworks-7/pkgs/os/lang-lib/libc/libc-kernel/src/libc/math/atan2.c

vxworks-7/pkgs/os/lang-lib/libc/libc-kernel/src/libc/math/log1p.c  
 vxworks-7/pkgs/os/lang-lib/libc/libc-kernel/src/libc/math/expm1.c  
 vxworks-7/pkgs/os/lang-lib/libc/libc-kernel/src/libc/math/asinh.c  
 vxworks-7/pkgs/os/lang-lib/libc/libc-kernel/src/libc/math/exp\_\_E.c  
 vxworks-7/pkgs/os/lang-lib/libc/libc-kernel/src/libc/math/sincos.c  
 vxworks-7/pkgs/os/lang-lib/libc/libc-kernel/src/libc/math/atanh.c  
 vxworks-7/pkgs/os/lang-lib/libc/libc-kernel/src/libc/math/tan.c  
 vxworks-7/pkgs/os/lang-lib/libc/libc-kernel/src/libc/math/log10.c  
 vxworks-7/pkgs/os/lang-lib/libc/libc-kernel/src/libc/math/log\_\_L.c  
 vxworks-7/pkgs/os/lang-lib/libc/libc-kernel/src/libc/math/asincos.c

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## Altera Arria10 DevKit VxWorks7 BSP

**Version:** 1.00  
**Component(s):** Host  
**Description:** Used to update the logic and bootrom for Altera BSPs.

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## Altera FPGA Logic File and Script File

**Version:** 1.00  
**Component(s):** Host  
**Description:** Used to update the logic and bootrom for Altera BSPs.

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## Amazon ENA com layer for Embedded C

**Version:** n/a  
**Component(s):** Target/runtime  
**Description:** ena-com layer imported from Amazon release efa\_linux\_1.14.2 and this layer is the communication between the device and the driver..

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## Amazon Root CA 1 certificate

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**Component(s):** Host/Tool  
**Description:** cryptographic key that can be used to verify the identity of servers that were signed by Amazon's certificate authority...

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## ANTLR

**Version:** n/a  
**Component(s):** Tool  
**Description:** ANTLR (ANother Tool for Language Recognition) is a language tool that provides a framework for multiple operations in a variety of target languages.

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## ARM architecture specific in\_cksum routines

**Version:** n/a  
**Component(s):** ARM software  
**Description:** VxWorks source code

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## ARM precompiled math libraries

**Version:** n/a  
**Component(s):** ARM software  
**Description:** Math libraries

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## ARM software

**Version:** AS803-SW-01030  
**Component(s):** ARM software  
**Description:** Code for ARM optimized ExecuteJava v1.56 for GNU tools

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## arp.h

**Version:** n/a  
**Component(s):** file  
**Description:** arp header file

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## asm.h

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**Component(s):** file  
**Description:** VxWorks source code

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Macros used when writing assembler programs.

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## AWS IoT Device SDK Mosquitto

**Version:** 202108.00  
**Component(s):** Target/Runtime  
**Description:** AWS IoT Device SDK for Embedded C (C-SDK) is a collection of C source files that can be used in embedded applications to securely connect IoT devices to AWS IoT Core

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## axTLS Embedded SSL

**Version:** 2.1.5  
**Component(s):** Target/Runtime  
**Description:** SSL library designed for platforms with small memory requirements

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 axTLS, 1 April 2008 (created 23 February 2007)  
 no tags  
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## AzureSDK for embedded C

**Version:** 1.1.0  
**Component(s):** Runtime  
**Description:** designed to allow small embedded (IoT) devices to communicate with Azure services

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## bcopy.c

**Version:** n/a  
**Component(s):** Target/Runtime  
**Description:** Part of NetBSD/libstand, implements the bcopy() function in C

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## Bluetooth

**Version:** n/a  
**Component(s):** Connectivity  
**Description:** VxWorks source code

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Archie Cobbs [archie@freebsd.org](mailto:archie@freebsd.org)

**BMF Fonts**

**Version:** n/a  
**Component(s):** Fonts  
**Description:** VxWorks source code

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**boost b2**

**Version:** 1.71.0  
**Component(s):** Host tool  
**Description:** tool used to configure Boost C++ library

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**boost**

**Version:** 1.81  
**Component(s):** Runtime  
**Description:** provides free peer-reviewed portable C++ source libraries

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**Broadcom Wireless Driver**

**Version:** 4.151.10.7

**Component(s):** Runtime  
**Description:** OS-independent portion of Broadcom 802.11bang Networking Device Driver.

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**brotli**

**Version:** 1.0.9  
**Component(s):** Host Tool  
**Description:** data format specification[2] for data streams compressed with a specific combination of the general-purpose LZ77 lossless compression algorithm, Huffman coding and 2nd order context modelling

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**BSD GPT and UUID**

**Version:** n/a  
**Component(s):** VxWorks source code  
**Description:** VxWorks source code

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## bdstar

**Version:** 3.7.2  
**Component(s):** Host  
**Description:** Multi-format archive and compression library

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## bzero.c

**Version:** n/a  
**Component(s):** Target/Runtime  
**Description:** Part of NetBSD, implements a simple version of the bzero() function

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## bzip

**Version:** 1.0.6  
**Component(s):** Host Tool  
**Description:** file compression program that uses the Burrows-Wheeler algorithm

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

## cal.c

**Version:** n/a  
**Component(s):** file  
**Description:** cal source file

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## Cavium SDK

**Version:** 2.1.0  
**Component(s):** Runtime  
**Description:** Used to program Cavium Networks processors and evaluation boards. Provides an abstraction layer used by VxWorks BSPs and drivers.

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## Ceres-solver

**Version:** 2.1.0  
**Component(s):** VxWorks source code  
**Description:** open source C++ library for modeling and solving large, complicated optimization problems

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## civetweb

**Version:** 1.15  
**Component(s):** Target/Runtime  
**Description:** provides the websockets library that is required by the device cloud application running on VxWorks to establish a websockets communications with the cloud

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## cJSON

**Version:** 1.7.15  
**Component(s):** Target/Runtime and Host/Tool  
**Description:** Ultralightweight JSON parser in ANSI C

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## CP437 Console Fonts

**Version:** CP437 8x16 and CP437 8x8  
**Component(s):** Fonts  
**Description:** fonts provide easy-to-read console bitmap data that is used to render text on a display

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character as a rectangular grid of pixels. The bitmap for each character indicates precisely what pixels should be on and off. Printing a bitmapped character is simply a matter of blasting the right bits out to the printer. There are a number of disadvantages to this approach. The bitmap represents a particular instance of the character at a particular size and resolution. It is very difficult to change the size, shape, or resolution of a bitmapped character without significant loss of quality in the image. On the other hand, it's easy to do things like shading and filling with bitmapped characters. .... 5. Are fonts copyrightable? This topic is hotly debated at regular intervals on comp.fonts. Terry Carroll (tjc50@juts.ccc.amdahl.COM) provides the following analysis of current [ed: as of 6/92] legislation and regulation regarding fonts and copyrights. Members of the comp.fonts community are encouraged to submit other materials that add clarity to the issue. \*-[-Quote]-----

-----\* First, the short answer: Typefaces are not copyrightable; bitmapped fonts are not copyrightable, but scalable fonts are copyrightable. Authorities for these conclusions follow. Before we get started, let's get some terminology down: A typeface is a set of letters, numbers, or other symbolic characters, whose forms are related by repeating design elements consistently applied in a notational system and are intended to be embodied in articles whose intrinsic utilitarian function is for use in composing text or other cognizable combinations of characters. A font is the computer file or program that is used to represent or create the typeface. Now, on to the legal authorities: Volume 37 of the Code of Federal Regulations specifies this about the copyrightability of typefaces: "The following are examples of works not subject to copyright and applications for registration of such works cannot be entertained: . . . typeface as typeface" 37 CFR 202.1(e). By the way, you won't find that in the most recent (7/1/91) edition of the CFR; the addition was enacted 2/21/92. It'll be in the next edition, though. It's described in the 2/21/92 edition of the Federal Register, page 6201 (57 FR 6201). The change didn't actually change the law, it just clarified it, and codified existing Copyright Office policy. The regulation is in accordance with the House of Representatives report that accompanied the new copyright law, when it was passed in 1976: "The Committee has considered, but chosen to defer, the possibility of protecting the design of typefaces. A 'typeface' can be defined as a set of letters, numbers, or other symbolic characters, whose forms are related by repeating design elements consistently applied in a notational system and are intended to be embodied in articles whose intrinsic utilitarian function is for use in composing text or other cognizable combinations of characters. The Committee does not regard the design of typeface, as thus defined, to be a copyrightable 'pictorial, graphic, or sculptural work' within the meaning of this bill and the application of the dividing line in section 101." H. R. Rep. No. 94-1476, 94th Congress, 2d Session at 55 (1976), reprinted in 1978 U.S. Cong. and Admin. News 5659, 5668. It's also in accordance with the one court case I know of that has considered the matter: *Eltra Corp. v. Ringer*, 579 F.2d 294, 208 USPQ 1 (1978, C.A. 4, Va.). The Copyright Office holds that a bitmapped font is nothing more than a computerized representation of a typeface, and as such is not copyrightable: "The [September 29, 1988] Policy Decision [published at 53 FR 38110] based on the [October 10,] 1986 Notice of Inquiry [published at 51 FR 36410] reiterated a number of previous registration decisions made by the [Copyright] Office. First, under existing law, typeface as such is not registerable. The Policy Decision then went on to state the Office's position that 'data that merely represents an electronic depiction of a particular typeface or individual letterform' [that is, a bitmapped font] is also not registerable." 57 FR 6201. However, scalable fonts are, in the opinion of the Copyright Office, computer programs, and as such are copyrightable: "... the Copyright Office is persuaded that creating scalable typefaces using already-digitized typeface represents a significant change in the industry since our previous [September 29, 1988] Policy Decision. We are also persuaded that computer programs designed for generating typeface in conjunction with low resolution and other printing devices may involve original computer instructions entitled protection under the Copyright Act. For example, the creation of scalable font output programs to produce harmonious fonts consisting of hundreds of characters typically involves many decisions in drafting the instructions that drive the printer. The expression of these decisions is neither limited by the unprotectable shape of the letters nor functionally mandated. This expression, assuming it meets the usual standard of authorship, is thus registerable as a computer program." 57 FR 6202.

## cmake

**Version:** 3.26.4  
**Component(s):** Host Tool  
**Description:** extensible, open-source system that manages the build process in an operating system and in a compiler-independent manner

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CMake - Cross Platform Makefile Generator

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## Controller Area Network (CAN)

<b>Version:</b>	n/a
<b>Component(s):</b>	VxWorks source code
<b>Description:</b>	Vehicle bus standard that allows microcontrollers and devices to communicate with each other within a vehicle without a host computer.

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## CoreMark in NXP S32G Linux

**Version:** n/a  
**Component(s):** Target/Runtime and Host  
**Description:** VxWorks source code

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## cpuinfo

**Version:** n/a  
**Component(s):** TensorFlow  
**Description:** library to detect essential for performance optimization information about host CPU, needed to build TensorFlow

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## cpu-regs-gdb.h

**Version:** n/a  
**Component(s):** Target/runtime  
**Description:** TCF debug agent

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Xilinx - initial API and implementation

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## cpython

**Version:** 3.8.0  
**Component(s):** Host  
**Description:** python interpreter for executing python code on the host development

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## cURL (libcurl)

**Version:** 8.4.0  
**Component(s):** Host  
**Description:** Command line tool for transferring files with URL syntax.

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## CyberRT

**Version:** 8.0.0  
**Component(s):** VxWorks source code  
**Description:** Apollo Cyber RT framework for autonomous driving

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## Cygwin Crypt

**Version:** 2.1  
**Component(s):** Host/tool  
**Description:** crypt library based on musl crypto code provides support for DES, MD5, Blowfish, SHA-256, and SHA-512 algorithms.

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## cython

**Version:** 0.29.36  
**Component(s):** Host Tool  
**Description:** optimising static compiler for both the Python programming language and the extended Cython programming language (based on Pyrex)

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## Datalight FlashFX Pro

**Version:** 4.1  
**Component(s):** Runtime  
**Description:** Flash management tool, provides support for NAND flash chip.

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## dateutil

**Version:** 2.8.2  
**Component(s):** Host Tool  
**Description:** provides powerful extensions to the standard datetime module, available in Python

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dateutil - Extensions to the standard Python datetime module.  
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## Dinkum C/C++ Standard/Abridged Libraries

**Version:** 8.04  
**Component(s):** Host and Runtime  
**Description:** Complete implementation of the ANSI/ISO Standard C++ Library.

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cond.c pthread.c mutex.c once.c xnotify.c xtime.c:

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## Direct Rendering Manager (DRM)

**Version:** n/a  
**Component(s):** DRI  
**Description:** Component of the Direct Rendering Infrastructure (DRI), a system to provide efficient video acceleration on Unix-like operating systems.

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## Device Tree Compiler

<b>Version:</b>	1.4.0
<b>Component(s):</b>	Host
<b>Description:</b>	used to compile device tree source file

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libfdt - Flat Device Tree manipulation Testcase for fdt\_appendprop()  
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## Device Tree Source

**Version:** n/a  
**Component(s):** Target/Runtime data structure  
**Description:** This component is not executable code, but instead a data structure providing kernel access to configuration data. This data structure is analogous to XML data structure.

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*From am335x-evm (BSD).dts*

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## DOM4J

**Version:** 2.0.3  
**Component(s):** Host  
**Description:** Open Source XML framework for Java.

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## Dos2unix

**Version:** 7.4.2  
**Component(s):** Host Tool  
**Description:** includes utilities dos2unix and unix2dos to convert plain text files in DOS or Mac format to Unix format

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## Drm

**Version:** 4.9.0  
**Component(s):** Target/Runtime  
**Description:** Driver for graphics

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## Drm-intel

**Version:** 2016-09-19  
**Component(s):** Target/Runtime  
**Description:** Driver for graphics

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## Dynamic Linker for ELF

**Version:** n/a  
**Component(s):** VxWorks source code  
**Description:** VxWorks source code

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## EDK2 MdePkg Include

**Version:** n/a  
**Component(s):** Host tool  
**Description:** header files required for UEFI firmware development

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## Efficient Checksum Update Algorithm

**Version:** n/a  
**Component(s):** VxWorks source code  
**Description:** Efficient checksum update algorithm taken from "RFC 3022."

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## EFI Sample Code

**Version:** 1.10.14.62  
**Component(s):** Runtime  
**Description:** Code to enable booting VxWorks from EFI.

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## efiUgaDraw.h

**Version:** n/a  
**Component(s):** Target/Runtime  
**Description:** Header file, describes the interface to the Universal Graphics Adapter protocol (UGA) implemented in the EFI 1.1 specification.

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## endMedia.h

**Version:** n/a  
**Component(s):** file  
**Description:** VxWorks source code

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## ethernet.h

**Version:** n/a  
**Component(s):** file  
**Description:** Fundamental constants relating to ethernet.

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## Example code for EGL\_MESA\_platform\_gbm

### Khronos Extension

**Version:** n/a  
**Component(s):** Runtime  
**Description:** snippet that illustrates how to use an EGL Khronos extension

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## Expat

**Version:** 2.5.0  
**Component(s):** Runtime  
**Description:** XML parser library written in C.

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## Expect

**Version:** 5.45.4  
**Component(s):** Host tool  
**Description:** program automates interactions with programs that expose a text terminal interface. The program is used to run CERT test script on the host development

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**ezxml.c, ezxml.h**

**Version:** n/a  
**Component(s):** Target/Runtime  
**Description:** VxWorks source code

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**Farmhash**

**Version:** n/a  
**Component(s):** VxWorks source code  
**Description:** provides hash functions for strings and other data

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**fastcdr**

**Version:** 1.0.14  
**Component(s):** 3pp-download  
**Description:** Fast-CDR

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**fastdds**

**Version:** 1.5.0  
**Component(s):** 3pp-download  
**Description:** Fast-DDS

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**FatFs – FAT file system module**

**Version:** 0.10  
**Component(s):** Arch/BSP  
**Description:** simple FAT filesystem implementation for embedded systems

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**FB Copy Demo**

**Version:** n/a  
**Component(s):** Runtime  
**Description:** allows for easy performance comparisons between VxWorks 6.9 and VxWorks 7

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**fdlibm**

**Version:** 5.2  
**Component(s):** VxWorks source code  
**Description:** math library used by programs doing computations

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**Fft2d**

**Version:**  
**Component(s):** Target/Runtime  
**Description:** package to calculate Discrete Fourier/Cosine/Sine Transforms of 1-dimensional sequences of length  $2^N$ .

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**Flatbuffers**

**Version:** 2.0.6  
**Component(s):** Runtime/Tensorflow Lite  
**Description:** cross platform serialization library architected for maximum memory efficiency

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**Flex**

**Version:** 2.4.6  
**Component(s):** Host/Tool  
**Description:** tool for generating scanners: programs which recognize lexical patterns in text

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## FMT

**Version:** 10.0.0  
**Component(s):** VxWorks source code  
**Description:** formatting library providing a fast and safe alternative to C stdio and C++ iostreams

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## Ep16

**Version:**  
**Component(s):** Tool/TensorFlow Lite  
**Description:** Header-only library for conversion to/from half-precision floating-point formats

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## FreeBSD Bind9 Dynamic DNS

**Version:** 7.1  
**Component(s):** VxWorks source code  
**Description:** VxWorks source code

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### FreeBSD libkern modules

**Version:** qdivrem.c: 1.10, udivdi3.c: 1.8, umoddi3.c: 1.8, quad.h: 1.18  
**Component(s):** Runtime  
**Description:** These files implement a small subset of GCC intrinsics functions for handling certain 64-bit integer math functions on 32-bit systems

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### FreeBSD SCTP UDP-Like Socket

**Version:** 7.0  
**Component(s):** Runtime  
**Description:** SCTP UDP-like socket implementation based on IPNET Stack, from FreeBSD.

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## FreeBSD UIPC mbuf Routines

**Version:** 1.2.2.2  
**Component(s):** VxWorks source code  
**Description:** uipc\_mbuf2.c – FreeBSD mbuf routines.

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## freeBSD VFS

**Version:** n/a  
**Component(s):** VxWorks source code  
**Description:** VxWorks source code

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Source: \* @(#)i405\_init.c 2.10 92/04/27 UCLA Ficus project

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## Freely Distributable LIBM (FDLIBM)

**Version:** n/a  
**Component(s):** VxWorks source code  
**Description:** C math library for machines that support IEEE 754 floating-point arithmetic.

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## Freescale AXE

**Version:** n/a  
**Component(s):** Runtime  
**Description:** VxWorks source code

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AXE codec (-- Linux app interface

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AXE Relocating loader:

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elf.h:

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ppctypes.h:

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## Freescale DPAA2 driver

**Version:** n/a  
**Component(s):** Runtime  
**Description:** DPAA2 driver for chip LX2160

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## Freescale E500v2 Math Libraries

**Version:** n/a  
**Component(s):** Runtime  
**Description:** libcfsl\_e500 and libcfml\_e500, to optimize the Math Libraries for Freescale E500v2.

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## Freescale P4080 Soft Parser Assembler

**Version:** 0.1.12-2  
**Component(s):** Host and Runtime  
**Description:** Subset of the Freescale FMC tool, which is used in the P4080 SDK to configure advanced networking acceleration hardware in the P4080 platform.

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## FreeType2

**Version:** 2.13.0  
**Component(s):** Runtime  
**Description:** Small, portable font engine capable of producing high-quality glyph images.

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## FXdiv

**Version:**

**Component(s):** Tool/TensorFlow Lite

**Description:** Header-only library for division via fixed-point multiplication by inverse

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## Gemmlowp

**Version:** n/a

**Component(s):** VxWorks source code

**Description:** VxWorks source code

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## gethostbyaddr.c

**Version:** n/a

**Component(s):** file

**Description:** VxWorks source code

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## getopt

**Version:** n/a  
**Component(s):** Runtime  
**Description:** Used in shell commands to parse arguments.

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## gettemp/mkstemp

**Version:** 1.2  
**Component(s):** Target/Runtime  
**Description:** gettemp provides a function to generate a random filename.

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## gflags

**Version:** 2.2.2  
**Component(s):** VxWorks source code  
**Description:** C++ library that implements command line flags processing

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## glob

**Version:** 1.0  
**Component(s):** VxWorks source code  
**Description:** glob module pathname pattern expansion

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## glob

**Version:** 0.6.0  
**Component(s):** Target/Runtime  
**Description:** C++14 library that implements application-level logging

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## GNU-EFI

**Version:** 3.0.14  
**Component(s):** Target/Runtime  
**Description:** GNU EFI library provides some utility functions for interfacing with the UEFI firmware services

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## googletest

**Version:** 1.14.0  
**Component(s):** Target/Runtime  
**Description:** Google Testing and Mocking Framework, needed to build TensorFlow

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## gPTP

**Version:** 1.0.0.0  
**Component(s):** Runtime  
**Description:** Generalized Precision Time Protocol

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## GPU library

**Version:** n/a  
**Component(s):** Runtime  
**Description:** VxWorks source code

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drm\_crtc.c

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DRM core CRTC related functions

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♦ ♦ ♦

i915\_gem.c  
 intel\_color.c  
 intel\_uncore.c

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SDL\_test\_common.c  
 SDL\_test\_harness.c

Simple DirectMedia Layer

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## gSOAP

**Version:** 2.8.127  
**Component(s):** Host and Runtime  
**Description:** Provides a SOAP/XML-to-C/C++ binding to ease the development of SOAP/XML Web services and client application in C and C++.

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- src/symbol2.c
- src/soapcpp2 (the executable)
- wsdl/dime.h
- wsdl/gwsdl.h
- wsdl/http.h
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## Hacker's Delight mathematical functions

**Version:** n/a  
**Component(s):** Target/Runtime  
**Description:** Library functions for math calculations

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mulmnu.c  
divmnu.c

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## Heimdal

**Version:** 7.8  
**Component(s):** Host/Tool  
**Description:** implementation of ASN.1/DER, PKIX, and Kerberos

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## HID

**Version:** n/a  
**Component(s):** Vx-Connectivity  
**Description:** VxWorks source code

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## IA-Atom-PowerVR

**Version:** Not given  
**Component(s):** Runtime  
**Description:** Provides an accelerated OpenXX graphics driver for the SGX530 chip on Intel Atom class board.

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## IBM AMCC 440EP EVB

**Version:** n/a  
**Component(s):** IBM software  
**Description:** I/O addresses and related constants for the AMCC amcc440ep BSP. amcc440ep has the PowerPC 440EP embedded controller on it.

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## IBM Device Control Register (DCR) Library

**Version:**

**Component(s):**

**Description:** Device Control Register (DCR) access functions.

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## IBM EMAC Ethernet Driver

**Version:** n/a

**Component(s):** IBM software

**Description:** END-style IBM EMAC Ethernet driver.

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## IBM Memory Access Layer Library

**Version:** n/a

**Component(s):** IBM software

**Description:** VxWorks source code

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## IBM PowerPC Book E Timer

**Version:** n/a

**Component(s):** IBM software

**Description:** VxWorks source code

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**Version:** n/a  
**Component(s):** IBM software  
**Description:** VxWorks source code

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## **IBM Walnut/Sycamore 405GP/405GPr EVB**

**Version:** n/a  
**Component(s):** IBM software  
**Description:** I/O addresses and related constants for the IBM Walnut/Sycamore BSP. Walnut and Sycamore are the evaluation boards for the PowerPC 405GP and 405GPr embedded controllers, respectively.

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## icmp6.h

**Version:** n/a  
**Component(s):** File  
**Description:** VxWorks source code

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## IEEE1394

**Version:** n/a  
**Component(s):** IEEE library  
**Description:** library for ieee1394 config rom

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## if\_vlan\_var.h

**Version:** n/a  
**Component(s):** File  
**Description:** VxWorks source code

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## ifaddrs.h

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**Component(s):** File  
**Description:** VxWorks source code

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## ImageAuthentication.h

**Version:** n/a  
**Component(s):** Target/Runtime  
**Description:** UEFI firmware for Intel PC systems supports secure boot

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## InfoZip

**Version:** 60  
**Component(s):** Host Tool  
**Description:** set of open-source software to handle ZIP archives

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## Intel Altera Arria 10 graphics driver

**Version:** n/a  
**Component(s):** Driver  
**Description:** VxWorks source code

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## Intel C/C++ Compiler (ICC)

**Version:** 16.0  
**Component(s):** ICC compiler

**Description:** Intel Compiler, ICC, include advanced optimization features, multithreading capabilities, and support for Intel processors and compatible processors.

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Version May 2012

## Intel Digital Random Number Generator

<b>Version:</b>	Revision 2.1
<b>Component(s):</b>	Target/Runtime
<b>Description:</b>	VxWorks source code

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## Intel i915 Driver

**Version:** 3.18  
**Component(s):** Intel software  
**Description:** driver for Intel HD Graphics

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## Intel i915 Driver and DRM Linux Enhancements

**Version:** drm-intel-next-2015-09-28-merged  
**Component(s):** Target/runtime; Host  
**Description:** helper libraries that assist the i915 and DRM modules in performing a variety of functions

### NOTICES:

vgaarb.c: Implements the VGA arbitration. For details refer to Documentation/vgaarbiter.txt

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## Intel i915 Driver and DRM Module

**Version:** drm-intel-next-2016-07-11  
**Component(s):** Target/runtime; Host  
**Description:** enables Intel graphics support for VxWorks across a broad range of hardware

### NOTICES:

i915\_irq.c -- IRQ support for the I915 - - linux-c

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## Intel Graphics Driver HDMI Routines

**Version:** 3.18  
**Component(s):** Target/Runtime  
**Description:** provides critical HDMI related functionality

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**Version:** 9.0.4  
**Component(s):** IPP  
**Description:** library of multicore-ready, highly optimized software functions for multimedia, data processing, and communications applications. Intel IPP offers thousands of optimized functions covering frequently used fundamental algorithms.

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Version May 2012

## Intel PSG

<b>Version:</b>	n/a
<b>Component(s):</b>	Intel software
<b>Description:</b>	provide BSP and PSL for Intel PSG's boards.

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## Intel SafeString Functions in EDKII

<b>Version:</b>	n/a
<b>Component(s):</b>	Target/Runtime
<b>Description:</b>	safe string functions for EDK II, cross-platform firmware development environment for the UEFI and PI specifications

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## International Components for Unicode (ICU)

**Version:** 73.1  
**Component(s):** Runtime  
**Description:** set of C/C++ and Java libraries providing Unicode and Globalization support for software applications.

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## Internet Group Management Protocol (IGMP)

**Version:** n/a  
**Component(s):** Communications Protocol  
**Description:** used to manage the membership of internet protocol multicast groups.

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## Internet Protocol Routines

**Version:** 3  
**Component(s):** Internet protocol  
**Description:** Internet protocol routines from FreeBSD.

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Implementation of Internet Group Management Protocol, Version 3. Developed by Hitoshi Asaeda, INRIA, February 2002.

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## Internet Society Attributes

**Version:** n/a  
**Component(s):** Attributes  
**Description:** VxWorks source code

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Notification payload (RFC 2408, chapter 3.14)

IKE attributes from Appendix A, RFC 2409

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## IPCF

**Version:** 4.8.0  
**Component(s):** Target/Runtime  
**Description:** IPC Shared Memory Driver

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IPC Shared Memory Driver - RTD configuration

## ip.h

**Version:** n/a  
**Component(s):** File  
**Description:** Definitions for internet protocol version 4.

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## iperf

**Version:** 3.14  
**Component(s):**  
**Description:** tool for active measurements of the maximum achievable bandwidth on IP networks.

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@(#)queue.h 8.5 (Berkeley) 8 20 94

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stdio.c  
by Mark Gates [mgates@nlanr.net](mailto:mgates@nlanr.net)  
and Ajay Tirumalla [tirumalla@ncsa.uiuc.edu](mailto:tirumalla@ncsa.uiuc.edu)

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input and output numbers, converting with kilo, mega, giga  
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## ipnet\_lacp.c

**Version:** n/a  
**Component(s):** Runtime and host  
**Description:** Reference to FreeBSD LACP protocol

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## ipcrypto

**Version:** 6.9  
**Component(s):** Runtime  
**Description:** VxWorks source code

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## ipcrypto\_cmd\_cmp.c

**Version:** n/a  
**Component(s):** File  
**Description:** VxWorks source code

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## ipscep\_x509.c

**Version:** n/a  
**Component(s):** Runtime  
**Description:** VxWorks source code

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## Jackson Core

**Version:** 2.9.7  
**Component(s):** Host/Tool  
**Description:** core low-level incremental ("streaming") parser and generator abstractions used by Jackson Data Processor

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## Jackson Dataformat YAML

**Version:** 2.9.7  
**Component(s):** Host/Tool  
**Description:** Jackson extension component for reading and writing YAML encoded data

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## Jackson Databind

**Version:** 2.9.7  
**Component(s):** Host/Tool  
**Description:** general-purpose data-binding functionality and tree-model for Jackson Data Processor

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## jansson

**Version:** 2.7  
**Component(s):** Runtime  
**Description:** encode/parse data packets using JSON.

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## jaxen

**Version:** 1.1.1  
**Component(s):** Host  
**Description:** Universal object model walker that evaluates XPath expressions across multiple models.

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## Jinja2

**Version:** 3.0.1  
**Component(s):** Host Tool  
**Description:** expressive, extensible templating engine

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## Jsoncpp

**Version:** 1.9.5  
**Component(s):** Runtime  
**Description:** C++ library that allows manipulating JSON values including serialization and deserialization

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## jpeg

**Version:** 9d  
**Component(s):** Runtime  
**Description:** Jpeg library

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## Key Bubble-Babble Algorithm

**Version:** n/a  
**Component(s):** Runtime  
**Description:** Used to create a human-readable representation of public keys.

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## Khronos Header Files

**Version:** n/a  
**Component(s):** Runtime  
**Description:** define an industry standard API used by application developers to create 2D and 3D applications

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## Kubernetes Client Library for C

**Version:** 0.6.0  
**Component(s):** Runtime  
**Description:** Kubernetes client library for the C programming language.

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## LegacyRegion2.h

**Version:** n/a  
**Component(s):** Runtime and Host tool  
**Description:** VxWorks UEFI loader

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The Legacy Region Protocol controls the read, write and boot-lock attributes for the region 0xC0000 to 0xFFFFF.

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### less

**Version:** 530  
**Component(s):** Host Tool  
**Description:** VxWorks source code

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### libacl

**Version:** 2.2.52  
**Component(s):** Host Tool  
**Description:** utilities to administer Access Control Lists

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### libarchive

**Version:** 3.7.2  
**Component(s):** Runtime and Host Tool  
**Description:** provides a multi-format archive and compression library

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**libattr**

**Version:** 2.4.47  
**Component(s):** Host Tool  
**Description:** contains utilities to administer the extended attributes on filesystem objects.

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**Libc – strcasestr.c**

**Version:** n/a  
**Component(s):** Target/Runtime  
**Description:** VxWorks source code

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**libcyaml**

**Version:** 1.3.1  
**Component(s):** Runtime  
**Description:** C library for reading and writing structured YAML documents

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**libdl – The dynamic linker**

**Version:** n/a  
**Component(s):** Runtime  
**Description:** Provides the runtime necessary to support shared libraries in VxWorks.

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## libDRM

**Version:** 2.4.74  
**Component(s):** Runtime  
**Description:** API library that acts as the mediator between higher-level user space graphics libraries and hardware-interfacing code.

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## libepoxy

**Version:** 1.5.10  
**Component(s):** library  
**Description:** OpenGL function pointer management

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## libfdt

**Version:** n/a  
**Component(s):** library  
**Description:** Flat Device Tree manipulation

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libfdt - Flat Device Tree manipulation

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## libffi

**Version:** 3.4.4  
**Component(s):** Runtime  
**Description:** foreign function interface library

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## libiconv

**Version:** 1.17  
**Component(s):** Host Tool  
**Description:** converts from one character encoding to another through Unicode conversion

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## libidn2

**Version:** 2.3.4  
**Component(s):** Host Tool  
**Description:** implementation of the IDNA2008 + TR46 specifications (RFC 5890, RFC 5891, RFC 5892, RFC 5893, TR 46)

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## libjpeg

**Version:** 9  
**Component(s):** Runtime library  
**Description:** C library containing an implementation of a JPEG decoder, JPEG encoder and other JPEG utilities.

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## Libjpeg-turbo

**Version:** 2.1.91  
**Component(s):** Runtime library  
**Description:** JPEG image codec that uses SIMD instructions to accelerate baseline JPEG compression

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## libm

**Version:** n/a  
**Component(s):** Runtime  
**Description:** two functions from libm open source implementation

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## libpayload

**Version:** 2012  
**Component(s):** Target/Runtime  
**Description:** software driver used in x86 BIOS application. The driver implements SATA AHCI and ATA protocols used in the Hypervisor VBBIOS application to read/write to/from a Hard Disk

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## libpciaccess

**Version:** n/a  
**Component(s):** Library  
**Description:** VxWorks source code

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## libpng

**Version:** 1.6.37  
**Component(s):** Runtime  
**Description:** C functions library for handling PNG images.

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Glenn Randers-Pehrson  
glennrp at users.sourceforge.net  
March 29, 2012

## libssh

**Version:** 0.10.4  
**Component(s):** Host Tool  
**Description:** multiplatform C library implementing the SSHv2 protocol on client and server side

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## Libssh2

**Version:** 1.10.0  
**Component(s):** Host Tool  
**Description:** multiplatform C library implementing the SSHv2 protocol on client and server side

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## libtirpc

**Version:** 1.3.3  
**Component(s):** VxWorks source code  
**Description:** VxWorks source code



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**libunistring**

**Version:** 1.1  
**Component(s):** Host Tool  
**Description:** library that provides functions for manipulating Unicode strings and for manipulating C strings according to the Unicode standard

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**libuv**

**Version:** 1.42.0  
**Component(s):** Host Tool  
**Description:** multi-platform C library that provides support for asynchronous I/O based on event loops

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**Version:** 4.4.26

**Component(s):** Host Tool

**Description:** library for one-way hashing of passwords

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## libXML2

**Version:** 2.9.10  
**Component(s):** Host Tool  
**Description:** XML C parser and toolkit developed for the Gnome project

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## libxslt

**Version:** 1.1.34  
**Component(s):** Host Tool  
**Description:** VxWorks source code

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## libYAML

**Version:** 0.2.5  
**Component(s):** Host Tool  
**Description:** YAML parser and emitter library

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## libYAML-CPP

**Version:** 0.7.0  
**Component(s):** Host Tool  
**Description:** C++ library for parsing and emitting YAML documents.

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## link\_elf.h

**Version:** n/a  
**Component(s):** File  
**Description:** VxWorks source code

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## list\_sort.c, ilog2.h

**Version:** n/a  
**Component(s):** Target/runtime; Host  
**Description:** These libraries provide helper functions commonly used in the Linux kernel and part of the i915/DRM modules

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## LLVM Compiler

**Version:** 17.0.6  
**Component(s):** Host  
**Description:** This provides compiler intrinsics not unlike those provided by libgcc.a, compiler and run-time library components of Diab 7 toolchain and VxWorks LLVM compiler

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## LLVM compiler runtime libraries

**Version:** 16.0.0  
**Component(s):** Runtime  
**Description:** Includes compiler-rt, libcxxabi, libunwind

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## LPlib

**Version:** n/a  
**Component(s):** library  
**Description:** Collection of utilities and portability routines.

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## Lucida Fonts

**Version:** n/a  
**Component(s):** Fonts  
**Description:** Harmonized typeface in a range of styles.

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**Version:** n/a  
**Component(s):** Fonts

**Description:** XFree86 includes the Luxi family of scalable fonts, in both TrueType and Type 1 format.

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## lz4

**Version:** 1.9.4  
**Component(s):** Host/Tool  
**Description:** library for lossless compression algorithm

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## Makedepend

**Version:** 1.0.8  
**Component(s):** Host Tool  
**Description:** create dependencies in makefiles

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## MarkupSafe

**Version:** 2.0.1  
**Component(s):** Host Tool  
**Description:** implements a text object that escapes characters so it is safe to use in HTML and XML

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## Mbed TLS

**Version:** 2.24.0  
**Component(s):** Files  
**Description:** VxWorks source code

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sha256.c, sha512.c, sha256.h, sha512.h

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## MD2-MD4-MD5

**Version:** n/a  
**Component(s):** Runtime  
**Description:** MD2 [Kal92], MD4 [Riv91b] [Riv92b], and MD5 [Riv92c] are message-digest algorithms.

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**MD5 Message-Digest Algorithm**

**Version:** n/a  
**Component(s):** Runtime  
**Description:** Javascript implementation of the MD5 Message-Digest Algorithm, a secure hash algorithm.

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**mdreloc.c**

**Version:** n/a  
**Component(s):** File  
**Description:** Relocation table support.

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**Mesa3D**

**Version:** 13.0.3  
**Component(s):** Runtime  
**Description:** Graphics library

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**Mesa3D Demos**

**Version:** 8.3.0  
**Component(s):** Runtime

**Description:** Graphics library

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Device drivers	src/mesa/drivers/*	MIT, generally
Ext headers	include/GL/gltext.h include/GL/glxtext.h	Khronos
C11 thread	include/c11/threads*.h emulation	Boost (permissive)

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## Mesa3D GLU

**Version:** 9.0.0  
**Component(s):** Runtime  
**Description:** Graphics library

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Device drivers	src/mesa/drivers/*	MIT, generally
Ext headers	include/GL/gltext.h	Khronos

include/GL/glxext.h

C11 thread include/c11/threads\*.h Boost (permissive)  
emulation

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## Microsoft Windows Template Library

**Version:** 7.0  
**Component(s):** Library  
**Description:** VxWorks source code

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## mimalloc

**Version:** 1.6.7  
**Component(s):** Target/Runtime  
**Description:** general purpose memory allocator

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## mips

**Version:** n/a  
**Component(s):** VxWorks source code  
**Description:** VxWorks source code

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## Mosquitto

**Version:** 2.0.15  
**Component(s):** Library  
**Description:** provides the MQTT library and MQTT broker implementation for VxWorks 7

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## Msys2-python

**Version:** 3.9.13  
**Component(s):** Files  
**Description:** VxWorks source code

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## ncurses

**Version:** 6.4  
**Component(s):** Host Tool  
**Description:** emulation of curses in System V Release 4.0

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## neon\_2\_sse.h

**Version:** n/a  
**Component(s):** File  
**Description:** makes the correspondence (or a real porting) of ARM NEON intrinsics as defined in "arm\_neon.h" header and x86 SSE (up to SSE4.2) intrinsic functions as defined in corresponding x86 compilers headers files

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created by Victoria Zhislina, the Senior Application Engineer, Intel Corporation, [victoria.zhislina@intel.com](mailto:victoria.zhislina@intel.com)

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**Version:** n/a  
**Component(s):** Runtime  
**Description:** NetBSD is a multi-platform operating system based on 4.4BSD Lite.

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## NetBSD: DRM list\_sort.c, bitops.h

**Version:** 3.18  
**Component(s):** Runtime  
**Description:** sorting algorithm for graphic elemets

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## NetBSD: tree.h

**Version:** 1.9  
**Component(s):** Runtime  
**Description:** Provides two tree algorithms, rb and splay tree.

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## netdb.h

**Version:** n/a  
**Component(s):** File  
**Description:** Definitions for network database operations.

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## **NetROM**

**Version:** n/a  
**Component(s):** file  
**Description:** Universal debugging platform and target communications gateway for embedded systems.

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Description: Contains definitions and data structure defs for NetROM dualport protocols

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## **nettle**

**Version:** 3.8.1  
**Component(s):** Host tool  
**Description:** cryptographic library that is designed to fit easily in more or less any context

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## **Newlib-cygwin**

**Version:** 3.4.6  
**Component(s):** Host tool  
**Description:** provides C standard library implementation intended for use on embedded systems

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## nghttp2

**Version:** 1.50.0  
**Component(s):** Host tool  
**Description:** implementation of HTTP/2 and its header compression algorithm HPACK in C.

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## ninja

**Version:** 1.11.1  
**Component(s):** Host tool  
**Description:** build system used to build VxWorks code for runtime

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## NIST Secure Hash Algorithm

**Version:** n/a  
**Component(s):** Cryptographic algorithm  
**Description:** Cryptographic hash functions designed by the NSA and published by the NIST as a U.S. Federal Information Processing Standard.

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NIST Secure Hash Algorithm

Heavily modified by Uwe Hollerbach <uh@alumni.caltech.edu> from Peter C. Gutmann's implementation as found in Applied Cryptography by Bruce Schneier. Further modifications to include the "UNRAVEL" stuff, below.

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*Wind River's implementation of NIST Secure Hash Algorithm is based solely on public domain code from 1992 and 1996.*

## nlohmann

**Version:** 3.11.2  
**Component(s):** Target/Runtime  
**Description:** JSON for Modern C++

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## NTP

**Version:** 4.2.8p17  
**Component(s):** Target/Runtime  
**Description:** Network Time Protocol

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Author: James da Silva, Systems Design and Analysis Group  
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The initial driver was developed by Daniel Karrenberg <dfk@ripe.net> using the code made available by Trimble. This was for xntpd-3.x.x

Rewrite of the driver for ntpd-4.x.x by Mark Santcroos <marks@ripe.net>

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A full PPSAPI interface to the SCO Unix kernel would be better, but this at least removes the necessity for special coding from the NTP drivers.

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## NXP HSE driver

**Version:**  
**Component(s):** Target/Runtime  
**Description:** NXP HSE crypto driver

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NXP HSE Driver - Core

This file contains the device driver core for the HSE cryptographic engine.

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## NXP S32G PFE SDK for Embedded C

**Version:** RTM 1.4.0 and RTM 1.6.0  
**Component(s):** Target/Runtime and Host Tool  
**Description:** designed to allow the partner embedded (IoT) devices with agreement to communicate with PFE firmware and hardware.

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## Numpy

**Version:** 1.22.3  
**Component(s):** Target/Runtime and Host Tool  
**Description:** fundamental package for scientific computing with Python

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## NVM express driver

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**Component(s):** Driver  
**Description:** FreeBSD NMV express driver

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## Oasis WSSecurity

**Version:** n/a  
**Component(s):** VxWorks source code  
**Description:** WSSecurity schemas.

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## OPC UA

**Version:** 1.04.342  
**Component(s):** Runtime  
**Description:** OPC Unified Architecture ANSI C Stack and Sample Code

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## Open AMP

**Version:** 2020.04  
**Component(s):** Runtime  
**Description:** VxWorks source code

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## OpenCV

**Version:** 4.5.2  
**Component(s):** Runtime  
**Description:** CPP files which are OpenCV samples customized for VxWorks

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## Openldap (LDAPC)

**Version:** 4.5.16  
**Component(s):** Runtime  
**Description:** VxWorks source code

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## OpenMP

**Version:** 5.0.0.0  
**Component(s):** Runtime  
**Description:** LLVM OpenMP support for VxWorks

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## OpenSSL

**Version:** 1.1.1s  
**Component(s):** Runtime  
**Description:** Open source toolkit for SSL/TLS, implements basic cryptographic and various utility functions.

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The implementation was written so as to conform with Netscapes SSL.

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## OpenSSL

**Version:** 3.1.4  
**Component(s):** Runtime  
**Description:** Open source toolkit for SSL/TLS, implements basic cryptographic and various utility functions.

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## openssl-fips

**Version:** 2.0  
**Component(s):** Runtime  
**Description:** VxWorks source code

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## OP-TEE OS

**Version:** 3.21.0  
**Component(s):** Runtime  
**Description:** VxWorks source code

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**pamu.h**

**Version:** n/a  
**Component(s):** Runtime  
**Description:** Device driver header file to enable support for a device on P4080 processor

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**pandas**

**Version:** 1.2.5  
**Component(s):** Target/Runtime  
**Description:** Python package providing fast, flexible, and expressive data structures designed to make working with "relational" or "labeled" data.

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 dateutil - Extensions to the standard Python datetime module.

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## Pcre, pcre2

**Version:** 8.45, 10.42  
**Component(s):** Host tool  
**Description:** set of functions that implement regular expression pattern matching using the same syntax and semantics as Perl 5.

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PCRE 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 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.

### THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
 Email local part: ph10  
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### THE C++ WRAPPER FUNCTIONS

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Author: Sanjay Ghemawat

Support for PCRE\_XXX modifiers added by Giuseppe Maxia, July 2005

## PC/SC LITE API

**Version:** 1.3.2

**Component(s):** Runtime

**Description:** API in IPEAP towards smart card readers, compliant with the pcsc-lite standard.

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## PCMCIA Card Services

**Version:** 2.2.3

**Component(s):** VxWorks source code

**Description:** A complete PCMCIA support package.

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David Hinds  
dhinds@allegro.stanford.edu

## Pixman

**Version:** n/a  
**Component(s):** VxWorks source code  
**Description:** The pixel-manipulation library for X and cairo.

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## pkcs5\_pbkdf2.c

**Version:** v 1.10 20170418  
**Component(s):** Target/Runtime  
**Description:** Password-Based Key Derivation Function 2

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## pkgconf

**Version:** 1.9.4  
**Component(s):** Host tool  
**Description:** program which helps to configure compiler and linker flags for development libraries

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## popen

**Version:** 1.0  
**Component(s):** VxWorks source code  
**Description:** popen library to run a command in a child task

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## popt

**Version:** 1.18  
**Component(s):** Host tool  
**Description:** library for option parsing

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## PMC-Sierra BSP Definitions

**Version:** n/a  
**Component(s):** VxWorks source code  
**Description:** PMC-Sierra Board Support Platform Definitions.

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## PowerVR GPU driver package for Renesas R-Car H3

**Version:** n/a  
**Component(s):** Target/Runtime  
**Description:** To provide VxWorks driver for Renesas R-Car H3 PowerVR graphic card

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## procps-ng

**Version:** 3.3.17  
**Component(s):** Host/Tool  
**Description:** provides command line and full screen utilities for browsing procsfs

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global.c - generic ps symbols and functions

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procio.c -- Replace stdio for read and write on files below proc to be able to read and write large buffers as well.

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## Protoc (protobuf)

**Version:** 3.16.0  
**Component(s):** VxWorks source code  
**Description:** Protocol Buffers Compiler

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## ps\_prolog

**Version:** n/a  
**Component(s):** VxWorks source code  
**Description:** VxWorks source code

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## pthreadpool

**Version:**  
**Component(s):** Tool/TensorFlow Lite  
**Description:** portable and efficient thread pool implementation.

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## ptpd

**Version:** 2.3.1  
**Component(s):** Target/Runtime  
**Description:** VxWorks source code

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## Pxe.h

**Version:** n/a  
**Component(s):** Target/Runtime  
**Description:** contains the structure and function definitions for the PXE programming interface. In FreeBSD it's used when building the pxeboot bootstrap loader

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## Python

**Version:** 3.9.18  
**Component(s):** Host tool  
**Description:** interpreted, high-level, general-purpose programming language, used to build the VxWorks python code

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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 (now Zope Corporation; see <http://www.zope.com/>). In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit

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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	no
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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## pytz

**Version:** 2019.3  
**Component(s):** Host  
**Description:** pytz brings the Olson tz database into Python. This library allows accurate and cross platform timezone calculations using Python 2.4 or higher

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## PyYAML

**Version:** 5.4.1  
**Component(s):** Host Tool  
**Description:** YAML parser and emitter for Python

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## Quark EDKII

**Version:** 1.0.0  
**Component(s):** Target/Runtime  
**Description:** VxWorks source code

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## RBTree Implementation

**Version:** 1.5.10  
**Component(s):** Target/Runtime  
**Description:** provides an implementation of the rbtree algorithm

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## Regex

**Version:** n/a  
**Component(s):** VxWorks source code  
**Description:** Regular expression parser.

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## Regular Expression Library

**Version:** n/a  
**Component(s):** VxWorks source code  
**Description:** Regular expression parser modified specifically for use with the STEVIE editor.

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regcomp and regexec -- regsub and regerror are elsewhere

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Beware that some of this code is subtly aware of the way operator precedence is structured in regular expressions. Serious changes in regular-expression syntax might require a total rethink.

## remoteproc.h

**Version:** n/a  
**Component(s):** File  
**Description:** Remote processor header file

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#### Remote Processor Framework

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## rhash

**Version:** 1.4.2  
**Component(s):** Host/Tool  
**Description:** console utility for calculation and verification of magnet links and various message digests, including CRC32, CRC32C, MD4, MD5, SHA1, SHA256, SHA512, SHA3, AICH, ED2K, DC++ TTH, BitTorrent BTIH, Tiger, GOST R 34.11-94, GOST R 34.11-2012, RIPEMD-160, HAS-160, EDON-R, and Whirlpool.

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## RLE

**Version:** n/a  
**Component(s):** Target/Runtime  
**Description:** compression algorithm

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Marcus Geelnard [marcus.geelnard@home.se](mailto:marcus.geelnard@home.se)

## route6d.c

**Version:** n/a  
**Component(s):** File  
**Description:** Routing constants, macros and methods.

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## rpcbind

**Version:** 1.2.6  
**Component(s):**  
**Description:** RPMMsg library interface header file

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## RPMMSG

**Version:** 4.0.2  
**Component(s):** Header file  
**Description:** RPMMsg library interface header file

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## rtld\_start.S

**Version:** n/a  
**Component(s):** file  
**Description:** Library loading routines.

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## Rust

**Version:** 1.70.0  
**Component(s):** Target/Runtime  
**Description:** System controller firmware code

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## ruy

**Version:** n/a  
**Component(s):** Target/Runtime  
 matrix multiplication library, needed to build TensorFlow  
**Description:**

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## SCFW (System Controller Firmware)

**Version:** n/a  
**Component(s):** Target/Runtime  
**Description:** System controller firmware code

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## Schema for XML Signatures

**Version:** n/a  
**Component(s):** VxWorks source code  
**Description:** VxWorks source code

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## Simple Directmedia Layer and SDL2 KMSDRM

**Version:** 2, 2.0.5  
**Component(s):** Runtime  
**Description:** interface library that aims to standardize calls to graphics and other multimedia functionality

### **NOTICES:**

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**Sam Lantinga ([slouken@libsdl.org](mailto:slouken@libsdl.org))**

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## SEC2.x Security Core Device Driver

**Version:** 1.2  
**Component(s):** Runtime  
**Description:** VxWorks source code

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## setuptools

**Version:** 47.1.1  
**Component(s):** VxWorks source code  
**Description:** VxWorks source code

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## setuptools\_scm

**Version:** 6.0.1  
**Component(s):** VxWorks source code  
**Description:** handles managing Python package versions in SCM metadata instead of declaring them as the version argument or in a SCM managed file

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## signal.h

**Version:** n/a  
**Component(s):** file  
**Description:** C Standard Library header file that specifies how a program handles signals while it executes.

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## SIX

**Version:** 1.16.0  
**Component(s):** Host  
**Description:** provides simple utilities for wrapping over differences between Python 2 and Python 3

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## SLIRP

**Version:** 1.0.17  
**Component(s):** Runtime  
**Description:** Controls network address translation in order to use the host network stack to provide a virtual network stack in VxSim.

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## snakeyaml

**Version:** 1.23  
**Component(s):** Host/Tool  
**Description:** VxWorks source code

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## snprintf.c

**Version:** n/a  
**Component(s):** file  
**Description:** Portable implementation of snprintf() and vsnprintf().

### **NOTICES:**

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## Socket Routines

**Version:** n/a  
**Component(s):** VxWorks source code  
**Description:** VxWorks source code

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## socket.h

**Version:** n/a  
**Component(s):** file  
**Description:** Socket header file.

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## soundcard.h

**Version:** n/a  
**Component(s):** file  
**Description:** Standard soundcard.h file that is present from the Open Sound System (OSS).

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## sphlib (md5 algorithm)

**Version:** 3.0  
**Component(s):** Host Tool  
**Description:** Cryptographic checksum library

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## stdio.h

**Version:** n/a  
**Component(s):** File  
**Description:** VxWorks source code

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## STEVIE Editor

**Version:** n/a  
**Component(s):** VxWorks source code  
**Description:** VI Clone in the sample directory.

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## STL C++

**Version:** n/a

**Component(s):** VxWorks source code  
**Description:** C++ STL files originating from Hewlett-Packard (circa 1994) and subsequently modified by SGI.

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#### strlcpy.c

**Version:** n/a  
**Component(s):** VxWorks source code  
**Description:** String utilities.

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#### strtoll.c, strtoull.c (libc Enhancements for MESA 3D)

**Version:** n/a  
**Component(s):** VxWorks source code  
**Description:** Converts a string to a long integer.

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#### subr\_prf.c

**Version:** n/a  
**Component(s):** Target/Runtime  
**Description:** module from the BSD kernel implements a stripped down printf() function for use within the kernel itself

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**Version:** n/a  
**Component(s):** VxWorks source code  
**Description:** Remote procedure call.

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The data structures are completely opaque to the client. The client is required to pass a AUTH \* to routines that create rpc "sessions".

## sysctl.h

**Version:** n/a  
**Component(s):** Runtime  
**Description:** Utility to retrieve and set kernel state, provide industry standard sysctl() API.

### NOTICES:

kern\_sysctl.c, kern\_mib.c

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## TCF

**Version:** 1.7  
**Component(s):** Runtime/Workbench components  
**Description:** implementation of TCF (Target Communication Framework) protocol that supports basic debugging and other TCF services

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## Tcl/tck

**Version:** 8.6.12  
**Component(s):** Host tool  
**Description:** Tcl language and Tk graphical package.

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## tcp.h

**Version:** n/a  
**Component(s):** File  
**Description:** tcp header file.

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## tcplay

**Version:** Not given  
**Component(s):** fs\_bdm\_container  
**Description:** TrueCrypt implementation

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## **TensorFlow Lite**

**Version:** 2.12.0  
**Component(s):** Target/Runtime  
**Description:** set of tools that enables on-device machine learning by helping developers run their models on mobile, embedded, and IoT devices

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## **Texas Instruments System Control Interface (TISCI) Protocol header file (ti\_sci.h)**

**Version:** 2  
**Component(s):** Target/Runtime  
**Description:** provides data structure definition / macros used for developing code for TISCI protocol

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 Texas Instruments System Control Interface (TISCI) Protocol Communication protocol with TI SCI hardware  
 The system works in a message response protocol  
 See: <http://processors.wiki.ti.com/index.php/TISCI> for details

## **telnet.h**

**Version:** n/a  
**Component(s):** File  
**Description:** Definitions for the TELNET protocol.

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## **Texas Instruments AM38xx, C6A81xx, DM81xx, HDVPSS Peripheral Header Files**

**Version:** Not given  
**Component(s):** Runtime  
**Description:** Peripheral Header Files

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 h/vps\_cfgVipParser.h; h/vps\_displayCtrl.h; h/vps\_display.h;  
 h/vps\_graphics.h; h/vps.h; h/vps\_m2mComp.h; h/vps\_m2mDei.h;  
 h/vps\_m2m.h; h/vps\_m2mNsf.h; h/vps\_m2mSc.h; h/vps\_proxyserver.h

## TFFS

**Version:**  
**Component(s):** Runtime  
**Description:** True Flash File System, provides support for NOR Flash chip.

### **NOTICES:**

FAT-FTL Lite Software Development Kit

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includes (target/src/tffs/\*):

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## Tinyxml2

**Version:** 9.0.0  
**Component(s):** VxWorks source code  
**Description:** Test file directory deposit approach

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## time.h

**Version:** n/a  
**Component(s):** File

**Description:** Header file in the C Standard Library to declare time and date functions that provide standardized access to time/date manipulation and formatting.

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## TI-Omap3530 PowerVR

**Version:** n/a  
**Component(s):** Runtime  
**Description:** The IMGT PowerVR code provides an accelerated OpenXX graphics driver for the SGX530 chip on the Mistral Omap 3530 Reference EVM board.

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*From: eglentryptoints.c*

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## TIPC

**Version:** 1.7.7  
**Component(s):** Runtime  
**Description:** The Transparent Inter-Process Communication protocol. Facilitates communication between processes, processors, and applications.

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## TM4E

**Version:** 4.4.0  
**Component(s):** Runtime  
**Description:** VxWorks 7 layer recipe for TPM (Trusted Platform Module) 2 tools

### **NOTICES:**

## TPM2-tools

**Version:** 3.1.4  
**Component(s):** Runtime  
**Description:** VxWorks 7 layer recipe for TPM (Trusted Platform Module) 2 tools

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## TPM2.0-TSS

**Version:** 1.0.0  
**Component(s):** Runtime  
**Description:** VxWorks 7 layer recipe for TPM (Trusted Platform Module) 2.0 Software Stack (TSS)

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## Transport Security Model for SNMP

**Version:** 1.0.0.0  
**Component(s):** Runtime  
**Description:** SNMP framework

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#### trousers

**Version:** 0.3.13

**Component(s):** Runtime

**Description:** Interface with TPM hardware up to version 1.3 TPM TCG spec.

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#### UEFI header file

**Version:** 2.3.1

**Component(s):** File

**Description:** header file that defines Platform Key, Key Exchange Key, and Image signature database for the signed image validation

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## umoddi3.c

**Version:** n/a  
**Component(s):** Target/Runtime  
**Description:** VxWorks source code

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## Unicode C Library

**Version:** n/a  
**Component(s):** Target/Runtime  
**Description:** Unicode library in the programming language C which deals with conversions to and from the UTF-8 format.

## NOTICES

**Author:** Ben Bullock [benkasminbullock@gmail.com](mailto:benkasminbullock@gmail.com) , [bkb@cpan.org](mailto:bkb@cpan.org)

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## UNIX layer update for ROS

**Version:** n/a  
**Component(s):** Target/Runtime  
**Description:** adaptation library for ROS2

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asprintf.c  
 fnmatch.c

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From FreeBSD fnmatch.c 1.11 \$Id: fnmatch.c,v 1.3 1997/08/19 02:34:30 jdp Exp \$

## unix2dos

**Version:** 7.3.4  
**Component(s):** Host/Tool  
**Description:** includes utilities (including unix2dos) to convert text files with DOS or MAC line breaks to Unix line breaks and vice versa. It also includes conversion of UTF-16 to UTF-8.

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## urwid

**Version:** 2.1.2  
**Component(s):** Host  
**Description:** console user interface library for Python

### NOTICES:

str\_util.c

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Urwid web site: <http://excess.org/urwid/>

## USB stack from coreboot libpayload project

**Version:** 696ebc2  
**Component(s):** Runtime  
**Description:** provide users the ability to interface with USB keyboards when guests, like Windows, drop into real-mode and use deprecated methods to access keyboard peripheral devices.

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## usbXhcdRcarR8a779xV3.h

**Version:** n/a  
**Component(s):** Runtime  
**Description:** Header file including firmware data read by C-wrapper

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## uzlib

**Version:** n/a  
**Component(s):** Runtime  
**Description:** VxWorks source code

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## Van Jacobson Compression

**Version:** n/a  
**Component(s):** Runtime  
**Description:** Data compression protocol described in RFC 1144, designed by Van Jacobson to improve TCP/IP performance over slow serial links.

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## virglrenderer

**Version:** 0.10.4  
**Component(s):**  
**Description:** VirGL virtual OpenGL renderer

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**Version:** n/a  
**Component(s):** Driver  
**Description:** drivers for a software technology referred to as Virt I/O

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## vnodeAff.c

**Version:** n/a  
**Component(s):** File  
**Description:** VxWorks source code

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## VSP2 driver

**Version:** n/a  
**Component(s):** Target/Runtime  
**Description:** VxWorks driver for VSP2 IP that is a part of display controller for Renesas R-Car H3

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## Vxgfx Plugin Icon

**Version:** n/a  
**Component(s):** VxWorks Graphics  
**Description:** VxWorks source code

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## Waveshare ILI9486 Driver

**Version:** n/a  
**Component(s):** Target/Runtime  
**Description:** Code for manipulating the ILI9486 LCD display

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## W3C XML Schema

**Version:** n/a  
**Component(s):** VxWorks source code  
**Description:** XML schema language.

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W3C XML Schema defined in the Web Services Addressing 1.0 specification <http://www.w3.org/TR/ws-addr-core>

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## Wide Project

**Version:** n/a  
**Component(s):** VxWorks source code  
**Description:** Networking related routines.

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## Winpthreads

**Version:** 10.0.0.r130.g13f9449c1  
**Component(s):** Host Tool  
**Description:** Mingw-w64 is an advancement of the original mingw.org project, created to support the GCC compiler on Windows systems

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## WR\_GdbRsp.c, WR\_GdbRsp.h

**Version:** n/a  
**Component(s):** File  
**Description:** VxWorks source code

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## WS-Addressing Specification

**Version:** n/a  
**Component(s):** VxWorks source code  
**Description:** Web Services Addressing is a specification of transport-neutral mechanisms that allow web services to communicate addressing information.

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## WS-Discovery

**Version:** n/a  
**Component(s):** VxWorks source code  
**Description:** Web Services Dynamic Discovery is a technical specification that defines a multicast discovery protocol to locate services on a local network.

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## WS-Enumeration

**Version:** n/a  
**Component(s):** VxWorks source code  
**Description:** General SOAP-based protocol for enumerating a sequence of XML elements.

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## WS-Policy

**Version:** n/a  
**Component(s):** VxWorks source code  
**Description:** Web Services Policy framework is a specification that allows web services to use XML to advertise their policies.

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## xen BSP and PSL (platform) code

**Version:** n/a  
**Component(s):** Runtime  
**Description:** update code for code clean, re-struct etc

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## Xilinx versal R5 dts header files

**Version:** n/a  
**Component(s):** Runtime  
**Description:** Dts header files

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## Xilinx runtime

**Version:** n/a  
**Component(s):** Runtime  
**Description:** Xilinx Run Time library (XRT) support

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## X.org Server

**Version:** X11R7.4  
**Component(s):** Runtime  
**Description:** X server in the official open-source reference implementation of the X Window System.

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## XFree86

**Version:** 4.6.0  
**Component(s):** Runtime  
**Description:** Freely redistributable open source implementation of the X Window System.

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## zlib

**Version:** 1.2.13  
**Component(s):** Runtime

**Description:** Software library used for data compression.

### NOTICES:

zlib.h -- interface of the `zlib` general purpose compression library version 1.2.8, April 28th, 2013

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## zlib (inflateLib.c, uncompress.c)

**Version:** 1995-1996  
**Component(s):** Runtime  
**Description:** Inflation and deflation algorithm.

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## zstd

**Version:** 1.5.2  
**Component(s):** Host/Tool  
**Description:** library for fast lossless compression algorithm

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