

This PDF collection describes the software packages that are provided by the Embedded Development Kit. EDK supplies libraries, board support packages, and complete operating systems, in addition to the drivers for the peripherals, to help the user develop a software platform. The following is the distribution of the software packages available for the user to include in his platform:

- Xilinx[®] Micro-Kernel (XMK) - XMK is the entity representing the collective software system formed by the following components,
 - ◆ Standard C Libraries (*libc*, *libm*)
 - ◆ Xilkernel - An embedded kernel
 - ◆ Standalone Board Support Package (BSP)
 - ◆ LibXil MFS - A Memory File System
 - ◆ LibXil File - A file I/O library
 - ◆ LibXil FATfs - A FAT file system
 - ◆ LibXil Drivers - Device drivers for supported peripherals
- lwIP Library - A third-party network library ported to Xilinx Embedded processors
- VxWorks Operating System - Development of Board Support Package for the VxWorks Operating System

These documents describe the Xilinx Microkernel, its constituent libraries, and the Standalone board-support package. Documentation for the other operating systems can be found in their respective reference guides. Device drivers are documented along with the corresponding peripheral's documentation.

Overview

The following documents are included in this collection. To view a document, click its name in the following table.

Document Name	Summary
Xilinx Microkernel (XMK)	Describes the organization of Xilinx Microkernel, its constituent component libraries, and the interactions between them and your application.
LibXil Standard C Libraries	Describes the software libraries available for the embedded processors.
Standalone Board Support Package	Describes the BSP, the lowest layer of software modules used to access processor-specific functions. The standalone BSP is used when an application accesses board/processor features directly and is below the operating system layer.
Xilkernel	Describes Xilkernel, a kernel for the Xilinx embedded processors.
LibXil File	Describes the LibXil File. Xilinx libraries provide block access to file systems and devices using standard calls such as open, close, read, and write. These routines form the LibXil File module of the libraries.
LibXil FATFile System (FATfs)	Describes the XilFats FATfile system access library. This library provides read/write access to files stored on a Xilinx System ACE™ compact flash or microdrive device.

Document Name	Summary
LibXil Memory File System (MFS)	Describes the Memory File System (MFS). This file system resides in RAM/ROM/Flash memory and can be accessed directly or through the LibXil File module. The MFS is integrated with a system using the Library Generator, Libgen.
lwIP Library (v2.00.a)	Describes the Embedded Development Kit (EDK) port of the third party network library, Light Weight IP (lwIP) version v2.00.a, for embedded processors.
Automatic Generation of Tornado 2.x (VxWorks 5.x) Board Support Packages	Describes the development of Tornado 2.x (VxWorks 5.x) BSPs.
Automatic Generation of Wind River VxWorks 6.1 Board Support Packages	Describes the development of Wind River VxWorks 6.1 BSPs.
Automatic Generation of Wind River VxWorks 6.3 Board Support Packages	Describes the development of Wind River VxWorks 6.3 BSPs.
Automatic Generation of Linux 2.4 (Monta Vista Linux 3.1) Board Support Packages	Describes the development of Linux 2.4 (Monta Vista Linux 3.1) BSPs.
Automatic Generation of Linux 2.6 Board Support Packages	Describes the development of Linux 2.6 BSPs.

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