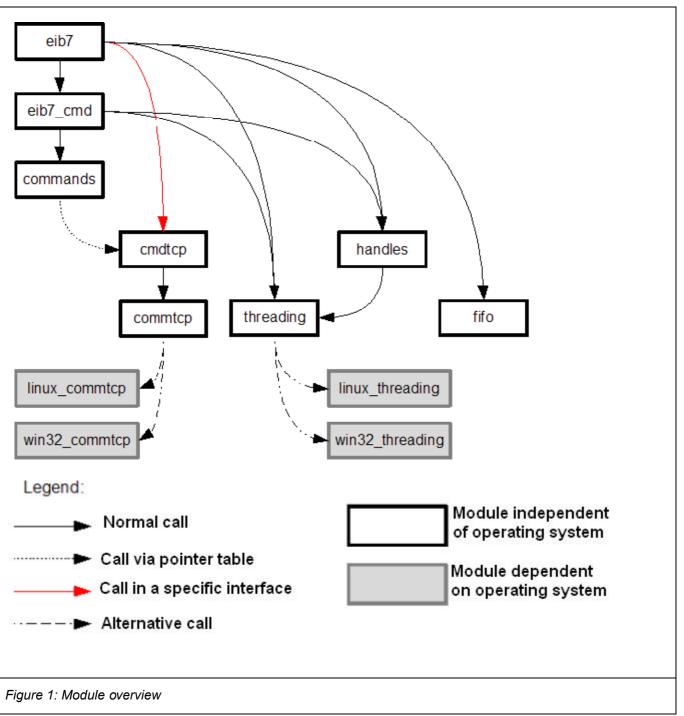
Structure of the EIB7 Driver

1 Structure of the Source Code

The source code for the EIB7 driver is subdivided into several modules, some of which are specific to a certain operating system. The modules are programmed in ANSI-C, and do not use any extensions except the functions depending on the operating system.

1.1 Module Overview



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The modules are interconnected via function calls, and normally consist of the files <module_name>.h and <module_name>.c.

1.2 Abstraction of the Operating-System Specifics

The abstraction is achieved by a specific implementation of the modules <os>_commtcp and <os>_threading for the respective supported operating system. In order to port to a new operating system, the files <os>_commtcp.h and <os>_threading.h must be included (via #ifdef) in the header files commtcp.h and threading.h The code in <os>_commtcp.c and <os>_threading.c must be adapted to the respective operating system, and a platform-specific makefile must be created.

2 Module Description

2.1 eib7

This module implements the API functions of the EIB7 driver. All public functions are defined in eib7.h. Internal functions should not be used in applications. The modules eib7_cmd, commands and cmdtcp implement internal functions for sending and receiving commands.

2.2 commtcp

This is the TCP/IP interface for the driver. The header file declares function calls which are implemented in the respective <os>_commtcp.c and <os>_commtcp.h files.

2.3 <os>_commtcp

This is the operating-system dependent implementation of the TCP/IP functions.

2.4 threading

The header file declares function calls implemented in the respective <os>_threading.c and <os>_threading.h files. This is the thread API for the driver.

2.5 <os>_threading

This is the operating-system dependent implementation of the threading functions.

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