

iBOOTLDR Remote Update Utility (IBOOTLDR.EXE)

- Remote code update to Intel Flash memory
- Uses serial link from host to target
- Many functions supported, such as download, delete, directory
- Designed for i386™ EX MB1 Evaluation Board and Intel 28F400xx Boot Block Flash memory
- Adaptable to other environments and applications
- Source code in portable 'C' and x86 assembly code
- License provides royalty-free and derivative rights when used with Intel Flash memory

iBOOTLDR is a flash utility with source code which is used to prepare Intel Boot Block Flash memories for code download and the capability to perform the code downloads. It was developed to support Intel's i386 EX 32-bit embedded micro-processor evaluation board. It directly supports Intel's 28F400xx Boot Block Flash memories. However, this code may be easily modified to support additional applications and Intel Flash memories.

It consists of three functions:

1. Flash Target Program (386BOOT.HEX, 386MAIN.HEX, and source code):

Resides in the boot block section of the flash and executes on the target machine

(i.e. the 28F400 on the i386EX Evaluation platform MB1). Performs the serial initialization, receives the serial communication of the code to program into the flash (among other serial communication functions), performs the flash programming, and starts the user application in flash when not performing the download and programming function.

2. Flash Host Program (IBOOTLDR.EXE and source code):

Runs on the host platform. Its primary function is to send the target code to be programmed into the flash on the target machine. It communicates with the receiving code residing in the boot block section of the flash on the target machine.

3. Flash Hello Program (386HELLO.HEX and source code):

An example of a target code which can be downloaded to the flash on a target machine (i.e. the 28F400XX on the i386EX Evaluation platform MB1). It tests the download and programming functions of the utility and provides an overall confidence test of the i386 EX Evaluation Board. Please see EXAMPLE.DOC in the DOC directory of the iBOOTLDR source for more information.

INTEL FLASH MEMORY SUPPORTED:

28F010, 28F001BX, 28F020, 28F002BC, 28F002BL, 28F002BV, 28F002BX, 28F200BL, 28F200BV, 28F200BX, 28F200CV, 28F004BE, 28F004BL, 28F004BV, 28F004BX, 28F004SC, 28F400BL, 28F400BV, 28F400BX, 28F400CE, 28F400CV, 28F008BE, 28F008BV, 28F008SA, 28F008SC, 28F800BV, 28F800CE, 28F800CV, 28F016SA, 28F016SC, 28F016SV, 28F016XD, 28F016XS, 28F032SA, Series 2 Cards, Series 2+ Cards, Value Series 100 Cards, Series 100 Miniature Cards

AVAILABILITY:

Now

CONTACT:

See Appendix C