_Firm_WORKS

Open Firmware System ROM and Device Driver Consultants

Open Firmware, formally known as IEEE Standard 1275-1994, is the first non-proprietary open standard for boot firmware that is usable on different processors and buses. Open Firmware includes a processor-independent _device interface_ that enables an add-in peripheral card to identify itself and to supply a single boot driver that can be used, unchanged, on any CPU using Open Firmware. Open Firmware also includes a _user interface_ with powerful scripting and debugging capabilities, and a _client program interface_ that enables operating systems and their loaders to make use of Open Firmware services to assist in the configuration and initialization process.

Open Firmware is required by the PowerPC Reference Platform Specification and by the Common Hardware Reference Platform Specification.

FirmWorks, specialists in providing Open Firmware solutions, provides the following products and services to decrease your time to market:

- Power Firmware™

  Open Firmware system ROM for PowerPC™ systems supporting:

    - 601, 603, 603e, 604 and 620
    - PCI, ISA and other buses.
    - Windows™ NT, AIX, Solaris, LynxOS, VxWorks. MacOS support is under development.

- Open Firmware implementations for:
    - SPARC™
    - Intel 80x86
    - MIPS®
    - PA-RISC
    - ARM
    - 680x0

  Open Firmware is extremely portable. If your CPU type is not listed, please call for current availability information.

- Off-the-shelf and custom FCode drivers for PCI/ISA peripheral cards.

- Architectural advice for your new designs.

- Bring-up assistance with new systems.

- IEEE Standard 1275-1994 compliance testing.

- FCode Developer's Kit for PCI

- Training
    - IEEE Standard 1275-1994
    - Forth
    - Open Firmware porting
    - Writing Open Firmware drivers
    - Writing and Debugging Open Firmware Client Interface Programs
    - Manufacturing diagnostic use
    - Field service diagnostic use

- Open Firmware Documentation
    - _Writing FCode Programs for PCI_
    - _Open Firmware Command Reference_
    - _Open Firmware Client Interface Developer's Guide_
    - _Open Firmware Quick Reference Guide_

Founded by Mitch Bradley, the principal architect of Open Firmware, FirmWorks can provide everything from a turn-key solution for your Open Firmware needs to assistance in the creation of your own implementation.

Technical Support

- Consulting services.

- Telephone support.

- Training
    - At FirmWorks.
    - At your site.

Availability

Standard products available now. For custom products/support, please call us to discuss how we might meet your requirements.

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