FirmWorks



Power Firmware™ System ROM Code

Power Firmware[™] is a complete Open Firmware ROM implementation for the PowerPC[™].

Open Firmware, formally described by IEEE Standard 1275-1994, is the first non-proprietary open-standard boot firmware that is usable on different processors and buses. Open Firmware includes:

- A processor-independent device interface that allows 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.
- A user interface with powerful scripting and debugging capabilities.
- A client program interface that allows 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.

Power Firmware is a *complete* Open Firmware implementation which complies with:

- IEEE Std 1275-1994 Standard for Boot (Initialization Configuration) Firmware: Core Requirements and Practices
- PowerPC Binding Specification
- PCI Binding Specification
- PowerPC Reference Platform Specification
- Common Hardware Reference Platform Specification

Power Firmware supports:

- 601, 603, 603e, 604 and 620 Processors
- PCI, ISA and other buses
- WindowsTM NT, AIX, Solaris, LynxOS, VxWorks. MacOS

The core technology of Power Firmware is a small, fast, efficient Forth micro-kernel enabling powerful, interactive debugging and automated system configuration.

This mature code is based on a field-proven implementation and can be easily ported to your specific system architecture.

Features

- Provides machine-independent configuration and booting support for plug-in devices.
- Provides a framework for plug-in drivers so that user-installed peripherals boot "out-of-the-box".
- Provides a standard set of firmware functions for use by "client programs": operating systems, loaders, diagnostics, etc.
- Provides complete run-time configuration information to client programs.
- Contains a full ANS Forth interpreter for interactive programming, debugging and configuration.
- Off-the-shelf drivers are available for many commonly-used devices. (And, if we don't have what you need, we can create it for you easily.)

Technical Support Available

- Telephone support.
- Consulting services.
- Training
 - At FirmWorks.
 - · At your site.
- Porting to your system.
 - Modifications for your architecture.
 - Creation of custom drivers.
- Bring-up assistance with new systems.

Availability

Available now.

Licensing

Source code licenses and object code distribution licenses are available.

For More Information

FirmWorks Suite 115 480 San Antonio Road Mountain View, CA 94040-1218

Tel: +1 (650) 917-0100 Fax: +1 (650) 917-6990

info@firmworks.com ftp://ftp.firmworks.com/pub http://www.firmworks.com