

RTEMS Application Assistance

RTEMS (<http://www.rtems.com>) is an Open Source RTOS providing a powerful development and run-time environment that promotes the production of efficient real-time embedded applications.

Features:

Scalable Architecture
Modified GPL License
Multiple APIs - Classic, POSIX, ITRON
Event-driven multitasking
Priority-based, preemptive scheduling
Responsive Interrupt Management
Optional Rate Monotonic Scheduling
Priority Inheritance and Ceiling Protocols
Intertask communication and synchronization
Homogeneous and heterogeneous multiprocessor systems
Reentrant ANSI C Library
Add-on libraries including Python and Tcl
High performance BSD TCP/IP Stack
Protocols: TCP, UDP, BOOTP, ARP, ICMP
Servers: FTPD, HTTPD, TELNETD
Clients: DHCP, NTP, DNS, TFTP

Processors Supported:

M680x0 ix86 Coldfire ARM
M683xx Pentium MIPS Blackfin
PowerPC SuperH SPARC H8
NIOS2

Available Services:

Training
Standard Support
Legacy Support
RTEMS Application Assistance
Board Support Package Development
Application Design and Development
Ports to New Architectures
System Architecture Design

OAR developed RTEMS and continues to maintain and enhance it. Most of the original design and development team for RTEMS are still with OAR. Consequently, OAR personnel have a unique level of experience and insight into both RTEMS as well as real-time embedded applications.

Since its inception in 1978, OAR has developed applications on a variety of real-time operating systems in addition to RTEMS. We have experience in the design, development, deployment and long-term support in hard-core embedded applications that must work right every time or they just do not work.

RTEMS Application Assistance is intended to provide your project with the maximum flexibility in leveraging OAR expertise. We can assist you with design and implementation as well as add our unique insight to help you debug those really hard problems. OAR personnel can fulfill a variety of roles on your project including but certainly not limited to the following:

- Custom application, BSP, and device driver development
- Application framework design and development
- Porting of third-party software to RTEMS
- RTEMS Improvements
- Design and code review
- Application debugging assistance
- Application tuning including CPU and memory usage
- Specify, install, and maintain a variety of software development environments
- RTEMS Development Environment Installation

RTEMS Application Assistance is quite flexible and done on a time and materials basis. The minimum is 24 hours of engineering assistance. Assistance may be purchased in 40 or 80 hours blocks. Please contact *OAR at sales at OARcorp dot com* for current rates.

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