

# OAR Service

## 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
- 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, Lua, 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		SPARC64	

### 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

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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 blocks of 24, 40, 80, or 160 hours. Please contact OAR at [sales@OARcorp.com](mailto:sales@OARcorp.com) for current rates.