



# RTEMS Application Assistance

**RTEMS is an Open Source RTOS providing a powerful development and run-time environment that promotes the production of efficient real-time embedded applications.**

## Features:

- Permissive License
- Scalable Architecture
- Multiple APIs - Classic, POSIX
- Event-driven multitasking
- Priority-based, preemptive scheduling
- Responsive Interrupt Management
- Optional Rate Monotonic Scheduling
- Priority Inheritance & Ceiling Protocols
- Intertask communication and synchronization
- Symetric Multiprocessing (SMP)
- Reentrant ANSI C Library
- Add-on libraries including Python, Lua
- High performance BSD TCP/IP Stack
- Protocols: TCP, UDP, BOOTP, ARP, ICMP
- Servers: FTPD, HTTPD, TELNETD
- Clients: DHCP, DNS, TFTP, NFS

## Processors Supported:

AArch64	MicroBlaze	PowerPC*
ARM	MIPS	RISC-V*
Blackfin	Moxie	SPARC*
Coldfire	Nios-II	SuperH
LM32	OpenRISC	v850
M68K		x86*

\*32bit and 64bit support

## Available Services:

- Training
- Board Support Package Development
- RTEMS Application Assistance
- Standard and Legacy Support
- Custom Application Development

### OAR Corporation

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RTEMS Application Assistance (RAA) is a simple contract option to engage the team of RTEMS specialists at OAR Corporation. The RAA provides blocks of software engineering time for OAR personnel to use in support of the customer's application development efforts. This enables OAR to supply expert RTEMS assistance in various forms, such as software consulting and design, RTEMS environment configuration, or even light development, testing, and debugging. As the original RTEMS developers, OAR has a unique level of experience and insight into not only RTEMS but also most real-time embedded applications in general. As such, the RAA offering can significantly bolster a project with RTEMS expertise.

The RAA contract is intended to be very flexible and executed on a time and materials basis. While the smallest block of hours available for purchase is 40 hours, multiple blocks can be obtained to meet the level of effort anticipated. The RAA hours are intended to be used within a 12-month period. Non-disclosure agreements can be shared if needed.

Options for RTEMS Application Assistance could include:

- Custom application development assistance
- Application debugging and testing
- Application tuning including CPU and memory usage
- Application framework design and development
- RTEMS development environment installation and configuration
- Porting of third-party software to RTEMS
- RTEMS improvements
- Board support package (BSP) or device driver development
- Design and code review

**Quotes for RTEMS Application Assistance (RAA) are available upon request. Please contact OAR at sales@OARcorp.com for more information.**

