



# Salvo™

The RTOS that runs in tiny places.™

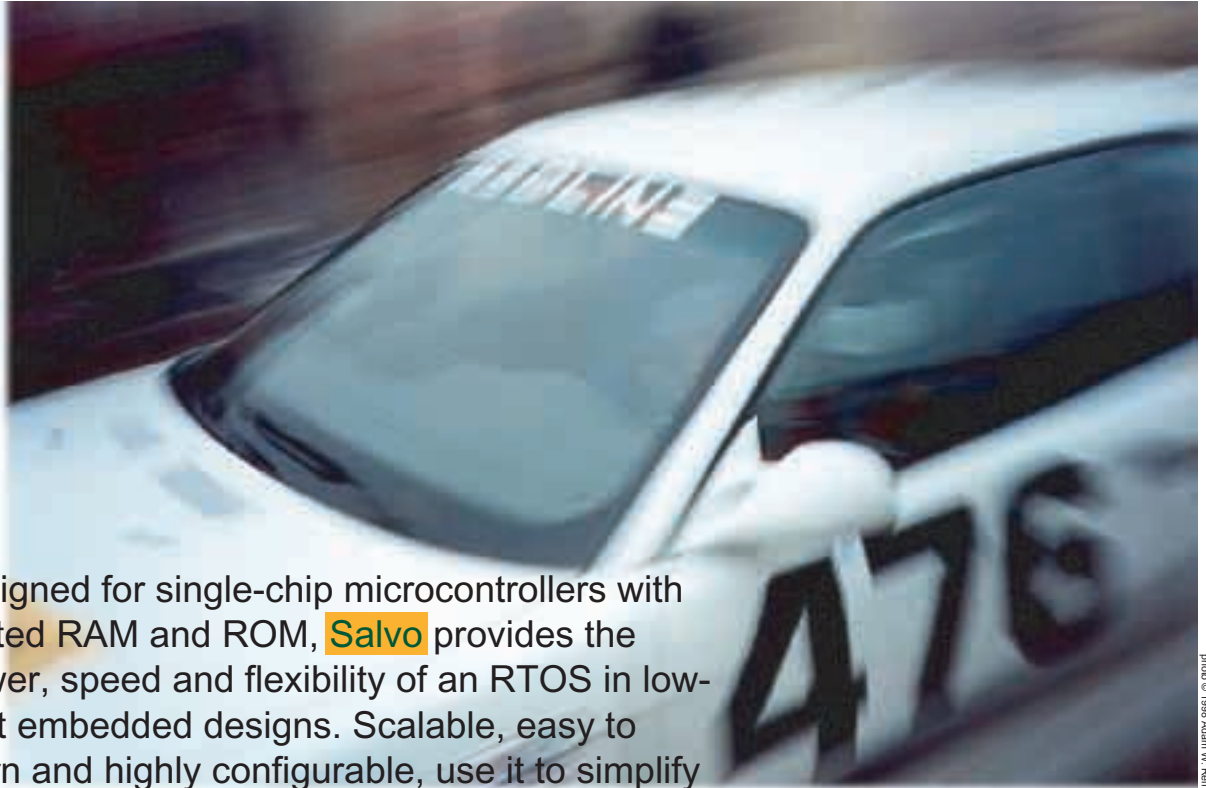


photo © 1998 Adam W. Reil

## Profile

- Designed for single-chip microcontrollers with limited RAM and ROM, **Salvo** provides the power, speed and flexibility of an RTOS in low-cost embedded designs. Scalable, easy to learn and highly configurable, use it to simplify your next embedded application.

## Benefits

- Implement new designs quickly
- Enhance functionality using existing resources
- Improve real-time performance
- Multitask
- Use memory efficiently
- Minimize costs

## You

- Beat your competition to market
- Don't re-invent the wheel
- Manage complexity

## Targets

- 8051 family
- ARClite microRISC
- ARM® ARM7TDMI
- Atmel® AVR® and MegaAVR™
- Motorola/Freescale M68HC11
- Microchip PIC12|14000|16|17|18
- TI's MSP430
- TI's TMS320C2000 DSPs
- and more ...

# Features

- Event-driven priority-based cooperative multitasking RTOS
- Designed expressly for single-chip processors with limited RAM
- Provides intertask communications and synchronization, ISR-to-task communications and resource sharing
- Supports 16 separate dynamic task priority levels - tasks at equal priorities will round-robin
  
- Compatible with all low-power operating modes
- Minimal stack and on-chip resource requirements
- Extremely small data and program memory footprints
- Number of tasks and events limited only by available memory
- Supports device-specific data spaces (internal, external, internal+external), memory maps and addressing schemes
  
- Large API - over 50 user-callable RTOS services
- Highly configurable system timer requires only a single interrupt
- Time-based services include delays, waiting with timeouts and elapsed time
- Event support includes semaphores, messages, message queues and event flags
  
- Low interrupt latency
- Fast context switching
- Flexible, ROMable, scalable and extensible
- Highly configurable via C-language preprocessor to fit your application
- Easy to use - employs standardized RTOS methods and terminology
- Portable - written in ANSI C, with minimal compiler- and target-specific extensions
  
- Affordable and royalty-free
- Comprehensive documentation available on-line
- Worldwide installed base with rock-solid reliability
- Size-optimized libraries and full source code<sup>1</sup> included
- License includes free support and updates for one year<sup>2</sup>
- FAA (DO-178B) and FDA (510(k)) third-party validation suites available
  
- Lite (freeware), tiny, SE, LE, Pro and Developer distributions<sup>3</sup> available

# Contact



750 Naples Street  
San Francisco, CA 94112  
tel: 415-584-6360  
fax: 415-585-7948  
web: [www.pumpkininc.com](http://www.pumpkininc.com)  
email: [sales@pumpkininc.com](mailto:sales@pumpkininc.com)

1: Source code in Salvo Pro distributions only.  
2: LE and higher distributions. Support and updates period is shorter for lesser distributions.  
3: Salvo tiny and Salvo SE distributions are only available for certain targets and compilers.

Specifications subject to change without notice.

© 1998-2004 Pumpkin, Inc. All rights reserved.  
Pumpkin and the Pumpkin logo, Salvo and the Salvo logo, and The RTOS that runs in tiny places are trademarks of Pumpkin, Inc. All other trademarks are the property of their respective owners.

707-00184-K 10/2004