

Salvo™, The RTOS that runs in tiny places™, now supports the 8051 family.

After establishing its Salvo RTOS as the RTOS of choice for the Microchip PICmicro® family, Pumpkin is pleased to announce the availability of Salvo for the 8051 family. "With the new v3.0 release, we've extended Salvo's range of supported microcontrollers to the most prolific 8-bit microcontroller family on earth," says Pumpkin president Dr. Andrew E. Kalman. "Combined with [Keil's](#) C51 compiler, Salvo users can now enjoy the benefits of Salvo's rich feature set, portability, scalability and minimal memory requirements in their 8051-based designs."

Dan Henry, an independent firmware engineering consultant and contractor in Boulder, Colorado explained: "Having used Salvo on several non-8051 projects, I had accumulated a fairly substantial inventory of code modules that use Salvo services. When my next 8051 project came up, Salvo's cross-platform portability made reusing many of those 'foreign' modules as simple as just dropping them into the project and recompiling."

"After adopting Salvo as their in-house standard for embedded product designs, many of our users are realizing substantially accelerated development times and therefore lower costs," notes Kalman. "Salvo being royalty-free is an added bonus to your bottom line."

On Salvo's scalability, Henry added "In one of my distributed system designs, I was able to take the event- and message-driven communications layering model developed for a 32-bit RISC 'host' running a larger RTOS and reuse this architecture on a large-model 8051 control 'hub' design running Salvo. I then scaled Salvo down further to run on multiple single-chip microcontroller peripheral devices."

"What's appropriate for one family of microcontrollers may not be for another. Therefore we've made Salvo highly configurable to accommodate the widest range of possible applications," comments Kalman.

"Salvo's user manual says 'Configurability is King'. This is Salvo's strength for packing a lot of functionality into small single-chip designs," explained Henry. "For the large-model 'hub', having Salvo source code – in addition to its configurability – allowed me to extend the task control block structure so I could thread the tasks for six communication channels through common code, thus saving memory."

Salvo for the 8051 family is available in Lite, LE and Pro versions. For downloads, application notes, additional information and to order Salvo, please visit Pumpkin online at <http://www.pumpkininc.com/>, or request information at info@pumpkininc.com.