

ChibiOS/RT: free embedded RTOS - new release

https://www.mikrozone.sk/news.php?item.1237

ChibiOS/RT is a free and efficient RTOS designed for deeply embedded applications. It offers a comprehensive set of kernel primitives and supports many architectures: ARM7, Cortex-M0, Cortex-M3, Cortex-M4, PowerPC e200z, STM8, AVR, MSP430, ColdFire, H8S, x86.

Download here.

Features

- Tiny memory footprint, high performance, easily portable, clean and readable.
- Preemptive kernel, 128 priority levels, reliable static architecture.
- Kernel support for Semaphores, Mutexes, CondVars, Messages, Event Flags, Mailboxes, Virtual Timers.
- IRQ abstraction, support for non-OS fast IRQ sources (zero latency buzzword).
- Support for ARM, ARM-CM0, ARM-CM3, ARM-CM4, PowerPC, STM8, MSP430, AVR, ColdFire, H8S, Linux/Win32/MacOS simulators.
- HAL component makes applications portable across the supported platforms.
- HAL support for Port, Serial, ADC, CAN, DAC, EXT, GPT, I2C, I2S, ICU, MAC, MMC, PWM, RTC, SDC, SPI, UART, USB, WDG device driver models.
- Support for the uIP and IwIP TCP/IP stacks (demo included).
- Support for the FatFS file system library (demo included).

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