

RTOS-Support with Hitex-Tools

Hitex Supports Real Time Operating Systems (Real-Time Operating Systems For Use In Embedded Control Applications)



Figure:
HiTOP with task list plus information on the configuration of a pSOS/68k application

What functions are available?

Object display

Objects of the operating system (tasks, queues, semaphores, ...) as well as their states (e.g. ready, running, waiting, suspended) and features (e.g. priority, parameters) can be displayed.

Multi-task debugging

Breakpoints can be set for specific tasks. If several tasks execute the same code (shared code), only the task selected is halted at the specified breakpoint. All other tasks including the operating system continue to operate uninterruptedly.

Performance analysis

Using this function, you may display how many times a certain event occurs. Such an event can be the blocking, suppression or resumption of a task; system calls of a task; interrupts; semaphore-, queue- and I/O operations. Moreover, you may display the clock ticks a task has used up so far. In this way, time-consuming tasks can be identified very easily.

Operating system calls

To stimulate the system, operating system calls can be executed manually via parameters. For instance, a message can be appended to a queue, or a task may be suspended.



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