

ASERT OS

A Simple Embedded Real-Time Operating System

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About:

ASERT OS is a simple real-time operating system for the Zilog Z8 Encore Development Board. The operating system is strongly based off tradition UNIX systems however stripped down and streamlined for the ez8 CPU and the Zilog Z8 Encore Development Board features. ASERT OS can provide a reliable multi-tasking computing environment while attending to the strict time requirements coupled with real-time applications.

Key Features:

- Multitasking
- Preemptive Task Scheduler
- Time and Priority Based Scheduling Algorithms
- Intertask Communication
- Mutex Locking Scheme for Critical Sections
- Semaphores
- Low Context Switch Times
- Timers
- Reliability
- Stability