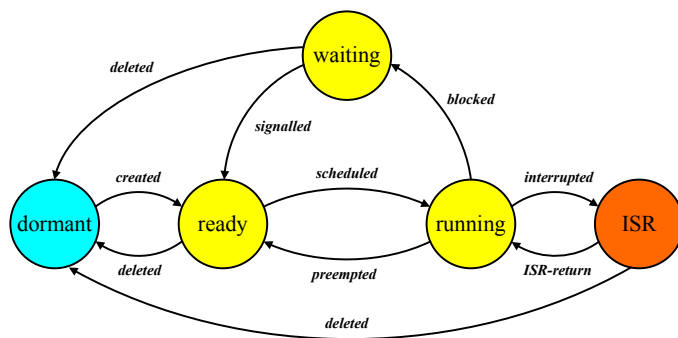# Department of Embedded Systems

MicroC/OS-II

Realtime / Multitasking Operating System for Microprocessors and Microcontrollers
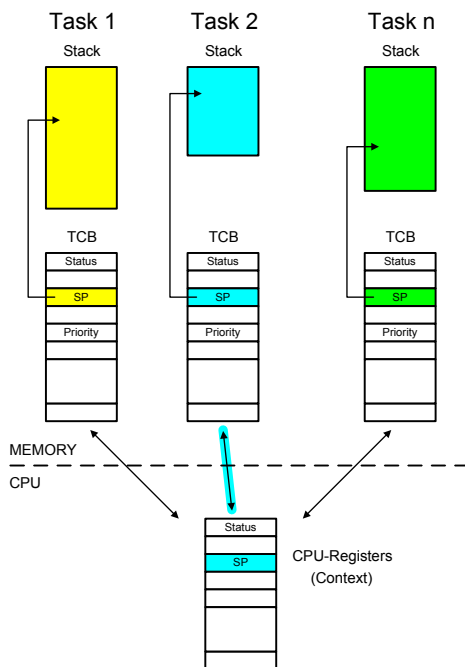
General Features

- Priority based Task-Scheduling
- Preemptive Task-Scheduling
- Efficient Memory Management
- Highly Scaleable
- Deterministic Execution Times
- ROMable Applications
- Large Number of Ports
- FAA Certification
- MISRA C Compliance

Task State Diagram

Intertask Communication & Synchronization

- General Semaphores
- Mutual Exclusion Semaphores
- Mailboxes
- Message Queues
- Event Flags

Task Management

Interrupt Processing