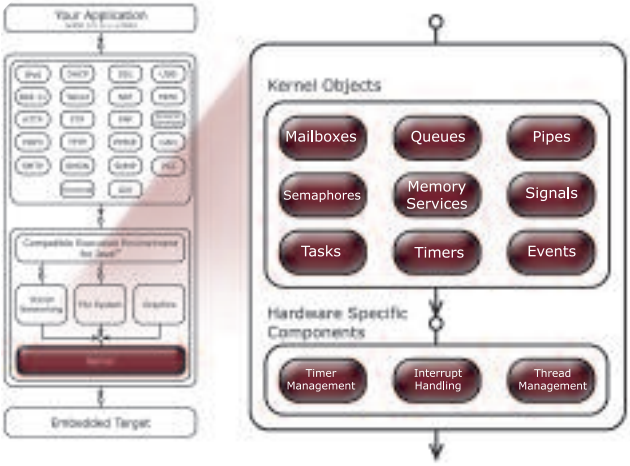
Nucleus PLUS
Real-Time Operating System

Description:

Real-time services that are available in the basic Nucleus PLUS product are more full-featured and capable than virtually anyreal-time kernel on the market today. Accelerated Technology performed an evaluation of the most prominent real-time kernels currently on the market. From this analysis, Nucleus PLUS was developed. Nucleus PLUS has been developed with a "micro-kernel" structure in mind. That is, the essential services of the real-time, embedded environment are provided in such a way that additional operating-system-oriented features can be easily added. Nucleus PLUS is a real-time, pre-emptive, multitasking kernel designed for time-critical embedded applications. Approximately 95% of Nucleus PLUS is extremely portable and is currently available for use with most microprocessor families.



Features:

- No royalties
- C source code provided
- Scaleable: 4KB - 45KB, depending on necessary functionality
- 95% written in ANSI C
- Deterministic, low interrupt latencies
- Extensible: make new services by combining existing services
- Configurable: easily exclude services not used
- Dynamic creation of all Nucleus PLUS tasks
- Intertask communication: mailboxes, variable queues, pipes
- Task synchronization: counting semaphores, events UNIX-like signals
- One-shot and multiple-shot task timers
- Memory management: fixed partitions, variable length (malloc)
- Place any Nucleus PLUS component in any area of memory
- Advanced Interrupt Management Mechanism (AIMM)

Contact

Sales Department
Accelerated Technology,
Embedded Systems Division of
Mentor Graphics

739 North University Blvd
Mobile, Alabama 36608

Phone: 251.208.3400
Fax: 251.343.7074
Toll free: 800.468.6853
Email: info@acceleratedtechnology.com
Web: AcceleratedTechnology.com

Accelerated Technology®
A Mentor Graphics Division

©Copyright 1997-2004 Mentor Graphics. All Rights Reserved. Mentor Graphics, Accelerated Technology and Nucleus are registered trademarks of Mentor Graphics Corporation. All other company or product names are the registered trademarks or trademarks of their respective owners.