

Nucleus PLUS Real-Time Multitasking Operating System

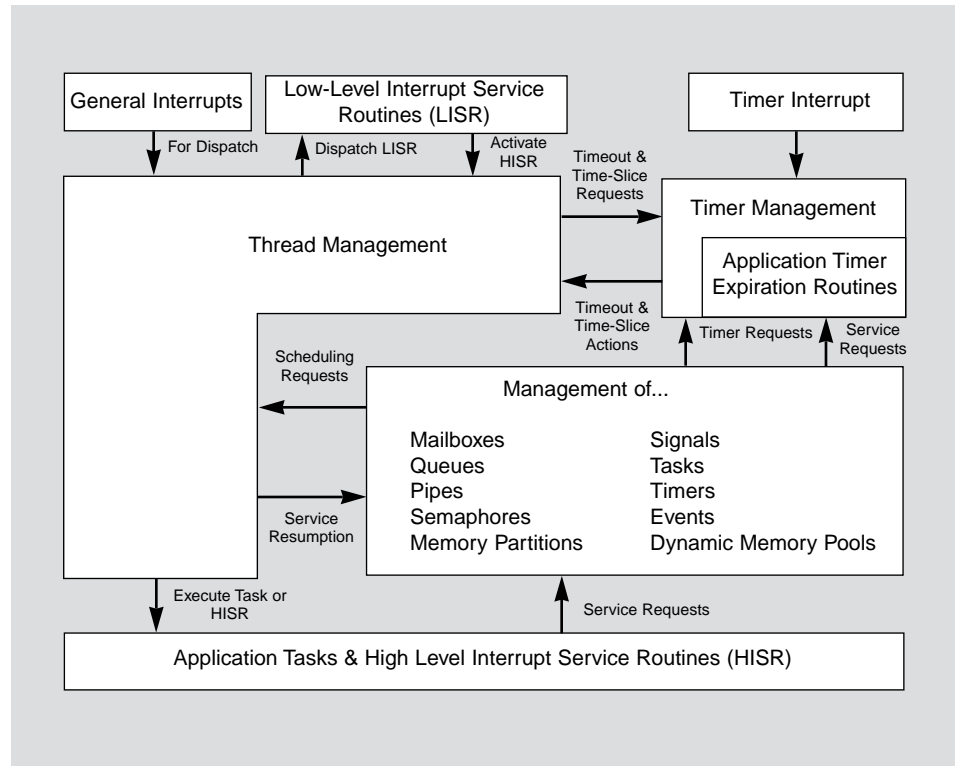


- Complete Source Code
- No Royalties
- ROMable
- Prioritized Scheduling of User Defined Tasks
- Dynamic Allocation of All Nucleus PLUS Objects
- Queue Item Size Defined by User
- Fixed and Variable Sized Queues
- Resource Management Using Semaphores
- Predictable Fixed-Length Memory Management
- Flexible Variable-Length Memory Management

Nucleus PLUS for the Intel i960[®] family of microprocessors is an advanced real-time multitasking executive based on Accelerated Technology's Nucleus RTX product. Nucleus PLUS extends the already full featured Nucleus RTX environment to include dynamic creation of all Nucleus PLUS objects, variable length queues, mailboxes, timers, pipes, priority or FIFO driven waiting lists for all Nucleus PLUS objects, and the Advanced Interrupt Management Mechanism (AIMM) which virtually eliminates interrupt latencies.

Nucleus PLUS incorporates a micro-kernel philosophy which facilitates additions to the real-time operating environment by providing standard I/O device interfaces and extensible service call interfaces. With the micro-kernel philosophy, Nucleus PLUS users can create new service call interfaces by combining existing interfaces.

Nucleus PLUS facilities have been designed to be highly deterministic. Accelerated Technology provides worst case times for interrupt latencies and service call overhead on a processor by processor basis. Task switches are fixed in time and are not dependent on the system configuration.



Each task executing under Nucleus has a priority. Tasks of equal priority execute in a First In First Out (FIFO) manner.

Nucleus PLUS is primarily written in C and is optimized for performance on the Intel i960 architecture. As well as being delivered with complete source code and without royalties, Nucleus is provided with six months free technical support. This includes: phone, fax, BBS, e-mail and new releases. For more information, contact Accelerated Technology today.

HOST SYSTEMS SUPPORTED:
No Restrictions

PROCESSORS SUPPORTED:
i960 Kx, Sx, Cx, Jx Processors

AVAILABILITY:
Now

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For international contacts see Appendix B.

