

Nucleus C++ PLUS

Description:

Nucleus C++ PLUS is an object-oriented embedded RTOS component that provides classes and collaborations to help programmers deal with inherent complexities associated with developing real-time embedded multitasking systems.

The Nucleus C++ PLUS component includes a C++ class interface into the efficient Nucleus PLUS "C" kernel. Nucleus C++ PLUS models traditional RTOS services as objects. This allows the various real-time elements in an embedded system to be easily managed in cohesive units and the association between them is natural.

Working real-time embedded design patterns that include threads, interrupts, messaging, events, signals, timers, semaphores, and mutexes are easily captured.

As a member of the Nucleus C++ Components family, Nucleus C++ PLUS plugs into the base framework. Specification, startup, and initialization are natural, easy, and efficient.

Nucleus C++ PLUS exhibits real-time performance in a very small memory footprint. This promotes effective reuse of working solutions in an embedded environment to deliver efficient, quality real-time embedded designs on time.

All features are portable across many embedded processor platforms and a desktop prototype environment is available to allow development to progress prior to the availability of your embedded hardware.

Features:

- Object-oriented and real-time, specifically designed for use in embedded designs to enhance development productivity
- Portable across many embedded processors
- Real-time performance with small memory footprints and natural scalability
- Reentrant C++ class interface into the efficient Nucleus PLUS "C" kernel including classes for:
 - Threads
 - Interrupts
 - Messaging
 - Events
 - Signals
 - Timers
 - Semaphores and Mutexes
- Provides, supports, and enhances embedded software design patterns to promote better association between the software elements in your device
- Desktop prototype of Nucleus C++ PLUS allows your embedded design to progress prior to the availability of your embedded target hardware
- Source code included
- No royalties

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