Pyrrhus Software

Enduring Solutions

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Real-Time Programming in Ada 83

Course Syllabus

Concepts of Real-Time Systems Hardware Devices & Interfaces Concurrency Processes Communications Synchronization	Coupling & Cohesion Coupling Subprograms Tasks Packages Cohesion Tasks Packages
The Ada Compilation System Targeted to an Executive/OS Targeted to a Bare Machine	Common Paradigms Channels & Pools Producer/Consumer Asymmetric Rendezvous Polling
Ada Run-Time Taxonomy Runtime Execution Model Dynamic Memory Management Processor Management Interrupt Management Time Management Exception Management Rendezvous Management Task Activation Task Termination I/O Management	Exceptions Taxonomy of Ada Exceptions Overhead
Process Identification Process Selection Rules Process Interaction	Low-Level Interfacing Representation Clauses Machine Code Insertions Interfacing to Other Languages
Packages and Generics Encapsulation Data Abstraction Taxonomy of Ada Packages Generics Exception Handling	A Case Study F-111 Digital Flight Control System

This 3-day course is designed for software engineers who are familiar with the Ada 83 programming language as defined in the Ada Language Reference Manual ANSI/MIL-STD-1815A-1983.

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