

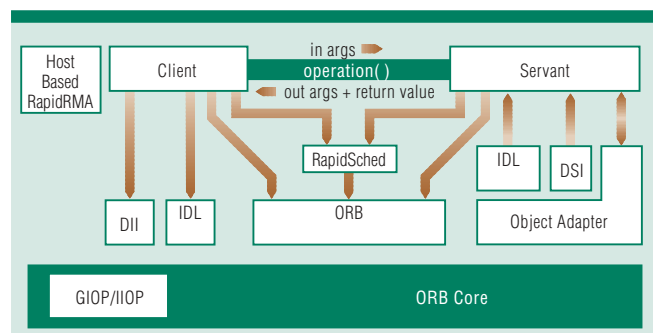
RapidSched works in conjunction with RapidRMA to provide a global scheduling environment for distributed architectures, CORBA Object Request Brokers (ORBs), and Real-Time Operating Systems (RTOSs). RapidRMA selects the priorities used by RapidSched to guarantee system schedulability in fixed priority scheduled CORBA systems.

RapidSched™ is a global scheduling service for Real-Time distributed architectures and CORBA systems that allows design engineers to ensure quality of service (QoS), Real-Time schedulability, and reliability of their applications. RapidSched implements the Distributed Affected Set Priority Ceiling Protocol (DASPCP) to prevent unbounded priority inversion from resource contention.

The developer can use RapidSched with RapidRMA host-based prototyping tool to analyze and validate the schedulability of a distributed architecture. This allows the determination of priorities necessary to guarantee system schedulability. RapidRMA creates a list of priorities off-line to be used by RapidSched to ensure global system schedulability. RapidSched provides the scheduling interface mechanism for ORBs and RTOSs that developers have been asking for in a new real-time middleware product for fixed priority scheduled CORBA systems.

Benefits:

- Empowers CORBA developers by providing a real-time compliant scheduling service
- Ensures the global scheduling and timing requirements necessary for successful implementation of CORBA in a real-time environment
- Develops systems with real-time components for critical real-time applications such as telecommunications, avionics, automotive, satellite systems and others
- Enforces schedules across a distributed network
- Dramatically reduces time to market and the costs associated with re-works



RapidSched Features:

- Implements the Distributed Affected Set Priority Ceiling Protocol (DASPCP)
- Designed to work in conjunction with RapidRMA

Object Request Broker (ORB) and Real-Time Operating System (RTOS) combinations:

- ORBexpress with Solaris, OSE, and VxWorks
- VisiBroker with VxWorks
- eORB with Solaris and VxWorks

Interface Requirements:

- RapidRMA 5.0 or higher



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