HPEC 2002 Abstract

Status and Activity in the OMG Relevant to HPEC

James E. Kulp, Consulting Software Architect
Co-chair, OMG High Performance Working Group
Mercury Computer Systems, Inc.
199 Riverneck Road, Chelmsford, MA 10824
Phone (978) 967-1251, Fax (978) 256-3599, jek@mc.com

Format: Oral presentation

Topic Area: Software Standards

The development of OMG and CORBA standards relevant to the HPEC community has expanded during the last year, and implementation work on the Data Parallel CORBA standard has begun. The software radio community has also made a major effort to bring its standards activities into the OMG.

CORBA as an infrastructure for HPEC applications is become viable for more applications. The presentation will provide an update on the standards activity as well as the state-of-the-art in applying these technologies to HPEC systems. Impediments and risks of against such progress will also be discussed.

The following standards activities will be reviewed:
- Data Parallel CORBA
- CORBA Components
- High Performance Enablers (zero copy from application to wire)
- Deployment and Configuration
- Lightweight Services
- Extensible Transport Interfaces
- SDR OMG standards