High Performance Networking for Complex, Distributed and Safety-Critical Systems

A Technology Seminar hosted by Real-Time Innovations (RTI) and Dedicated Systems Australia

Adelaide: 8th May 2009, Technology Park Conference Centre, Mawson Lakes
Sydney VENUE CHANGED: 13th May 2009, QUEST APPARTMENT HOTEL, Atlantis Restaurant; 58-62 Dehli Road, North Ryde

Since the OMG's (Object Management Group) 2004 introduction of the "Data Distribution Service for Real-Time Systems (DDS)" standard, DDS has become the fundamental component of most high-performance infrastructure systems designed for military systems.

DDS's high-performance messaging and data distribution software enables the development and integration of distributed applications that require low-latency, high-throughput, high-scalability, deterministic responses and minimal consumption of network, processor and memory resources. DDS meets the unique and demanding requirements of mission-critical real-time systems, including the ability to run in dynamic and autonomous environments and over unreliable or low-bandwidth networks such as wireless and satellite links.

DDS is used in defence systems around the world. The types of systems using DDS include combat management systems, ship navigation and control systems, ship self-defence systems, UAV on-board and ground control systems, armored vehicle systems, simulation and training systems, radar processing, and air traffic management systems.

DDS has also been adopted by commercial and civilian systems such as transportation (train and automotive), industrial automation, medical devices, and others.

9.30am   *Registration*

10.00am   *- The DDS open standard for real-time data distribution supporting publish/subscribe architecture*

- Insights into advanced architectural concepts and applications using DDS

- Building high availability systems through fault tolerant networking

- The first commercial safety-critical solution for developing distributed high assurance applications

- A JMS infrastructure that performs at over 10x any existing JMS solutions available today

12.30pm   *Q&A Session and Light Lunch*

About the speaker:

Dr. Howard Wang is a Principal Applications Engineer at Real-Time Innovations, Inc.

He is an expert in embedded real-time systems and the practical application of DDS technology to end user systems.

Howard joined RTI in 1996. He has consulted with the NASA Kennedy Space Center in helping to rewrite the launch and processing software for the Space Shuttle, with Alstom Schilling Robotics in developing control software for robotic manipulators and remotely-operated vehicles, and with a variety of companies working on distributed, networked applications.

Howard holds a PhD and an MS in Aeronautics and Astronautics from Stanford University, as well as BSEs in Aerospace and Computer Engineering from the University of Michigan.

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This seminar is open to all but places are strictly limited.