

# Real-Time Application Monitoring with OpenView Operations

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# Hardware Environment

- Sun Enterprise and Sun Fire servers
- HP servers
- EMC Symmetrix
- HDS 9200
- VA 7100
- Sun and HP disks for OS

# Application Environment

- Real-time high data rate transaction processing systems
- OLTP databases
- Data Warehouse databases

# Drivers

- Migrating systems from legacy fault-tolerant environment to UNIX
- High-availability requirement on UNIX
- Home grown solutions not effective at handling all failure scenarios

# Solution

- Build versus Buy decision point
- Use clustering software at application layer
- Use OpenView operation to collect and correlate metrics

# OpenView Operations

- Operations or Operations for Windows (OVOW)?
  - J2EE
  - Microsoft technologies

# OpenView Operations

- GlancePlus for real-time monitoring
- MeasureWare for low-overhead periodic monitoring of global and process data
  - Global – 5 minutes
  - Process – 1 minute
- PerfView for graphical display of MeasureWare data repositories

# Glance Advisory Mode

- Glance “advisery” mode
- Applications are real-time, high transaction rate trading systems
- Averaging of metrics masks “micro-bursts”
- Identify metrics of interest and use glance advisery mode to feed to MWA



# Data Source Integration

- Technology to incorporate metrics from external sources
  - Application log files
  - More frequent metrics from Glance advisory mode
- Use PerfView to display summary graphs
- Use extract to export detail data for external program analysis

# OpenView Operations Agent

- Smart Plug-ins (SPIs) for OS, OVSAM integration
- Commercial SPIs available (database, J2EE application server, scheduler)
- Use customizable corrective actions to enhance HA functionality of Cluster Server

# Lessons Learned

- Data Source Integration crucial to success
- Need to use external programs to display and analyze detail data
- Leverage the expertise of your OpenView support team