

Oracle Solaris 11 Performance Management

Introducing Performance Management

- Introduction to Performance Management
- Performance Analysis Concepts
- Monitoring tools in Oracle Solaris 11
- System Configuration Assessment

kstat Monitoring Tools

- The kstat Monitoring Tools

procfs Monitoring Tools

- Introduction to procfs-based tools

DTrace

- Introduction to DTrace
- DTrace Architecture
- DTrace Toolkit
- DTrace Virtualization Tool

Other Significant Tools

- The swap Utility
- The cpustat Utility
- The mdb Utility
- The Solaris Studio dbx Utility

Processes and Threads

- Operating System Theory
- Process Concepts
- Threads and Locking
- Process-Related Tunable Parameters
- CPU Scheduling Classes
- Managing Scheduling Classes

System Caches and Buses

- Cache Concepts
- CMT architecture
- System Buses
- Assessing System Buses

System Memory

- System Memory Concepts
- Virtual Memory 2
- Monitoring Memory utilization

ZFS File System

- The ZFS File System
- Tuning the ZFS file system

Network Performance Management

- Network Performance Concepts
- Oracle Solaris 11 Networking
- Configuring networks for best performance
- Network Resource management
- TCP
- Network Monitoring

Resource Management

- Resource Management
- Projects and Tasks
- Resource Controls
- Resource Pools
- Resource Capping

Oracle Solaris Virtualization Performance Management

- Oracle Solaris Zones
- Oracle Solaris Zones Resource Management
- Network Virtualization
- Oracle VM Server for SPARC

Applying the Performance Analysis Approach

- Performance Testing and Benchmarks
- Performance Testing Tools