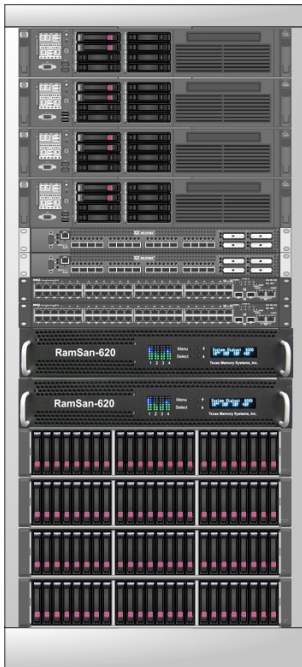


OPERA

Oracle Performance Enhancing RamSan Architecture

A high-performing, highly reliable, and cost-effective solution comes together to make beautiful music.



OPERA

Oracle Performance Enhancing RamSan Architecture (OPERA) tightly integrates RamSan-620 Flash solid state disks (SSD) with Oracle 11g, Oracle ASM (Automatic Storage Management), and Oracle RAC (Real Application Clusters). OPERA serves all Input/Output (I/O) requests from the RamSan-620 SSD - the industry's highest-performance Flash SSD - providing unmatched Oracle performance. This new architecture leverages Texas Memory Systems' Flash SSD and its experience in accelerating Oracle Databases to provide organizations with a turnkey storage system that can be integrated with existing Oracle 11g databases. The solution is tailor-made to meet the specific needs of all I/O bound Oracle databases.

Why do I need this?

In today's 24x7 fast paced world your Oracle database system is a lynch pin that holds the fabric of your company together. The Oracle system must perform well, ensure reliability, and be cost-effective. OPERA is designed to leverage the availability features of Oracle, and the high performance solid state disk products from Texas Memory Systems to create a high-performance, highly reliable, and cost-effective system. If your company relies on consistently high performance for Oracle, OPERA is the only solution for you.

How it works

OPERA leverages the strengths of server memory, RamSan-620s, Oracle ASM, and hard disks to solve performance, redundancy, and price concerns. In an OPERA architecture a minimum of two RamSan-620 SSDs are used to provide all read and write I/O. All read operations are from the RamSan-620. All blocking write operations - such as transaction log writes - are mirrored between the RamSan-620 units. All non-blocking write operations - background or lazy writes - are preferred read mirrored using Oracle ASM between RamSan-620 units and SAS hard disks.

About Texas Memory Systems

Texas Memory Systems designs and builds solid state storage systems for accelerating essential enterprise applications. The award-winning RamSan product line, known as The World's Fastest Storage®, delivers fast, reliable, and economical solutions to a broad base of enterprise and government clients worldwide. Founded in 1978, Texas Memory Systems continues to architect and engineer the future of solid state storage.



Features

- Up to 20-TB SLC Flash SSD and 56-TB SAS disk drives for redundancy
- Optimized around Oracle 11g feature set
- 1,000,000 IOPS
- 80 µs write/250 µs read
- Access to Texas Memory Systems' Oracle and systems experts

Benefits

- Ability to put entire database on the industry's fastest Flash SSD*
- Cost optimized solution
- Consistent and fast response time
- No single point of failure
- Reduce hardware and software costs dedicated to Oracle
- Decrease energy costs and physical space

Value

- Increase performance and achieve industry leading uptime while reducing space, energy usage, and Oracle licenses.
- Handling more transactions faster than ever leads to happy end-users, greater efficiency, and profits.
- Increase the predictability of your storage performance to better utilize resources.
- Maximize your datacenter investment.

* 0.72 millisecond sustained response time, Storage Performance Council SPC-1 Results #A00085, www.storageperformance.org