

HIGH-SPEED APPLICATION PLATFORM WITH ORACLE COHERENCE

Fujitsu M10 server is a flexible and scalable system that delivers high performance and high availability for mission-critical enterprise applications. It is the ideal platform to grow with expanding business requirements.

UNMATCHED SCALABILITY,
MAINFRAME RELIABILITY, AND
INDUSTRY-LEADING VIRTUALIZATION

KEY FEATURES

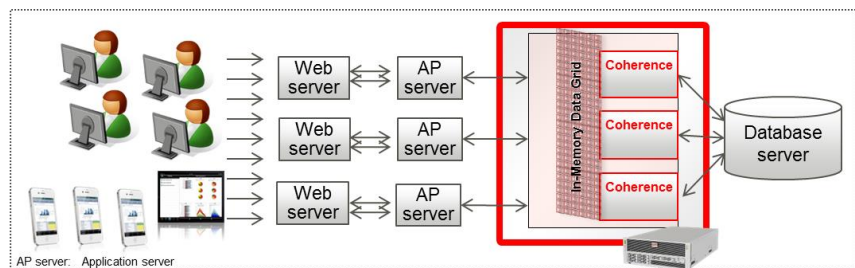
- This enterprise server has up to 64 processors (up to 1,024 cores) and huge memory capacity (up to 64 TB) for superior enterprise application performance.
- The new SPARC64 X+ processor up to 3.7 GHz and 3.0 GHz SPARC64 X processor, with supercomputer technology, provides the highest level of performance for resource intensive enterprise workloads such as OLTP, ERP, BIDW, SCM, and CRM.
- The CPU core activation feature economically and rapidly delivers on capacity requirements along with increases in throughput, making it possible to have gradual increases in performance.
- With Fujitsu M10-4S, performance can be further enhanced by connecting multiple units together like building blocks. Furthermore, Fujitsu M10-4S supports mixed SPARC64 X unit and X+ unit in a single system.
- Software-on-chip instructions on the SPARC64 X and X+ processor accelerate key database functions.
- Flexible resource configuration using, physical partitioning, Oracle VM Server for SPARC and Solaris Zones virtualization technologies.

Accelerate decision-making

With the pace of business continuing to accelerate, enterprises are finding it difficult to deliver the right information at the right time to the right people. These dynamic business priorities place increasing pressure on underlying IT infrastructure that already struggles to meet user demands. For applications and services to deliver near-real-times access to information and results, systems must be fast and accurate. More specifically they must be capable of storing accessing and processing massive amounts of data quickly and reliably to facilitate accelerated decision-making.

High-speed Platform between Database and Application Servers

Ever increasing amounts of data can cause Database bottlenecks and simply adding application servers (AP servers) will not improve performance. By integrating the Oracle Coherence in-memory data grid platform with Fujitsu M10, between the database and AP servers, performance can be improved by scaling out Coherence servers as transactions increase. Even if problems exist with the database, or routine maintenance is being performed, a continuous service is provided using the data cached on Coherence.



Performance, Reliability and scalability

■ Improved throughput and faster response times

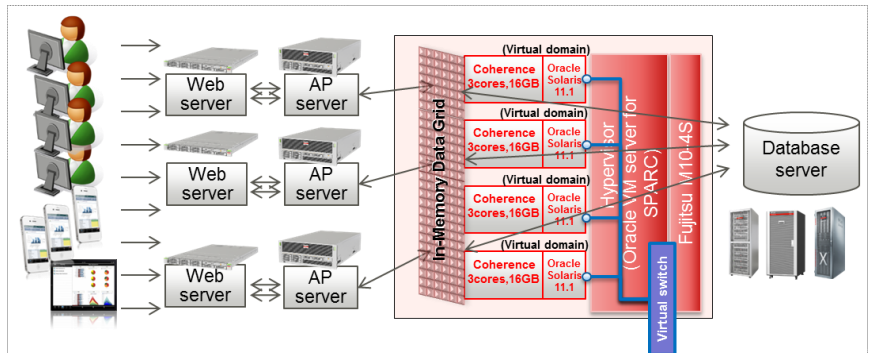
In addition to improved throughput through scaling out, response times can also be sped up by utilizing memory that is considerably faster than HDD. As Fujitsu M10 is capable of high level memory configurations, operation is fast even in high volume installations, maximizing the benefits of Coherence. Additionally, building Coherence on a virtual domain using the virtualization technology of Oracle VM Server for SPARC, allows communication between Coherence instances to be performed within a single unit, achieving even better performance than in a physical environment. The advantages of flexible resource management and high performance via virtualization can be achieved.

■ Improved system reliability/availability

Processing data with Coherence ensures applications can continue to operate even if there is trouble with the database, this leads to improvements in up time for the entire system. With a large amount of memory in Fujitsu M10, high volumes of data can be cached from the target database. Additionally, thanks to a wide range of RAS functions, such as support for CPU/memory degeneracy, problem areas can be isolated and operations can continue without impact.

■ Ensuring application server scalability

Using Coherence there is no complicated coding required to achieve parallel application processing or improvements in fault-tolerance. Furthermore it is simple to expand by adding virtual domains. With Fujitsu M10's unique core activation and building block features, expansion of up to 1,024 CPU cores and 64TBs of memory is possible, the most currently available on the market.



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