



**NotesBench R6iNotes Disclosure Report  
for Sun SPARC Enterprise T5220, Ultra  
SPARC T2, 1.4GHz  
on Solaris 10 with Lotus® Domino 7.0.1  
October 2007**

© 2007 Sun Microsystems, Inc. All rights reserved.  
1 Network Drive, Burlington, MA 01803-0903, USA.

# Executive Summary

Sun Microsystems has completed a Notesbench benchmark using the R6iNotes workload on the Sun SPARC Enterprise T5220 Server, 1 chip, 8 core 1.4GHz UltraSPARC T2 processor. The test was executed at the Sun's Engineering Performance Lab - Burlington, MA in September 2007.

The Server Under Test (SUT) was configured with one eight core, 1.4 GHz UltraSPARC T2 processor, 64 Gigabytes (GB) of memory, Four STK2540 HW RAID storage Arrays and three STK2501 JBOD Extension storage Arrays, each with twelve 73 GB, 15Krpm drivess configured as a single RAID1+0 volume using Symantec's VxVM Software Volume manager and two 10/100/1000 Mbps Ethernet onboard ports.

The Sun SPARC Enterprise UltraSPARC T2 is also available from Fujitsu as Fujitsu SPARC Enterprise T5220 UltraSPARC T2 server.

The UltraSPARC T2 processor with CoolThreads technology offers up to eight processing cores with eight threads per core with SPARC V9 implementation.

The Operating System on the SUT was Sun Solaris 10 and the Messaging server Domino release 7.0.1 was configured with 6 partitions.

In addition to the T5220 UltraSPARC T2 system under test, the benchmark configuration included 5 child driver systems running 86 notebnch clients and one parent driver for the NotesBench R6iNotes workload. All driver systems were connected to the SUT via the TCP/IP network. The detailed System setup and configurations are provided in Appendix A.

The R6iNotes workload simulated 43000 active users sending, deleting and receiving e-mails (built with the dwa7.ntf template) via standard HTTP browser. The mail sent by each user is delivered to mail database of the other users on the System Under Test. The results below demonstrates an outstanding achievement of SunFire T5220 UltraSPARC T2 in price/performance with 43000 active NotesBench R6iNotes users at 584 ms Average Response time.

The NotesBench R6iNotes describes the Web Access mail workload as: Every 15 minutes each user reads five messages, deletes two messages, and every ninety minutes it sends 1 new mail message (average message and attachment size is 100KB) and calendar invitation to 3 recipients.

R6iNotes Web Access combines the simplicity and universality of a Web browser with the power of an enterprise-class, full-featured application giving Web browser users access to e-mail, calendar, group scheduling, to-do list, invitation and appointments. NotesBench offers an objective way to evaluate the performance of different Mail Servers Under Test using different platforms running Lotus Domino.

The benchmark results are summarized below:

NotesBench Workload	Users Supported	NotesMark	Average Response Time	Price per User	Price per NotesMark
R6iNotes	43,000	36240 Transactions per minute	584 ms	\$2.89	\$3.43