



SPEC[®] CINT2006 Result

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Sun Microsystems

SPECint[®]_rate2006 = Not Run

Sun Blade 6048 Chassis (48 x X6440 Blades)

SPECint_rate_base2006 = 8840

CPU2006 license: 6

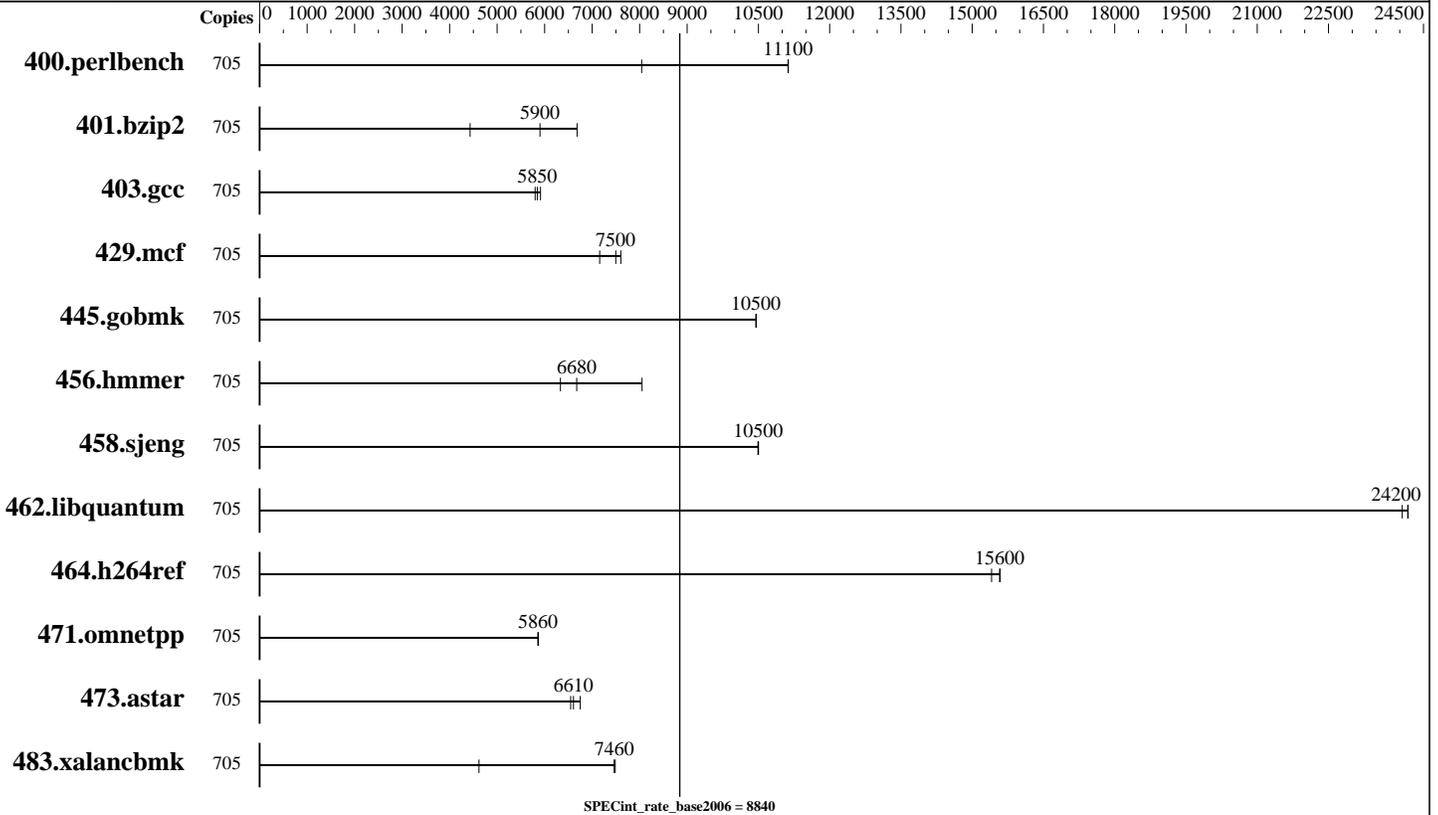
Test sponsor: Sun Microsystems

Tested by: Sun Microsystems

Test date: Jun-2009

Hardware Availability: Jan-2009

Software Availability: Jun-2009



Hardware

CPU Name: AMD Opteron 8384
 CPU Characteristics:
 CPU MHz: 2700
 FPU: Integrated
 CPU(s) enabled: 768 cores, 192 chips, 4 cores/chip
 CPU(s) orderable: 4 to 192 chips
 Primary Cache: 64 KB I + 64 KB D on chip per core
 Secondary Cache: 512 KB I+D on chip per core
 L3 Cache: 6 MB I+D on chip per chip
 Other Cache: None
 Memory: 1536 GB (16*2GB DDR2-667 CL5 ECC Reg per blade)
 Disk Subsystem: 48 x 250GB 7200RPM SATA via NFS
 Other Hardware: See additional details below

Software

Operating System: OpenSolaris 2008.11
 Compiler: Sun Studio 12 Update 1
 Auto Parallel: No
 File System: NFSv3
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: Not Applicable
 Other Software: MicroQuill SmartHeap Library 9.01 for x64



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Results Table

Benchmark	Base						Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	705	856	8040	619	11100	619	11100							
401.bzip2	705	1535	4430	1153	5900	1018	6680							
403.gcc	705	971	5850	960	5910	979	5800							
429.mcf	705	858	7500	846	7600	898	7160							
445.gobmk	705	707	10500	708	10400	708	10500							
456.hammer	705	985	6680	1039	6330	817	8050							
458.sjeng	705	813	10500	813	10500	812	10500							
462.libquantum	705	607	24100	604	24200	604	24200							
464.h264ref	705	1013	15400	1002	15600	1001	15600							
471.omnetpp	705	752	5860	751	5870	752	5860							
473.astar	705	756	6550	749	6610	733	6750							
483.xalancbmk	705	1053	4620	652	7460	650	7490							

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Submit Notes

The config file option 'submit' was used, along with submit.pl to distribute jobs to all Sun Blade X6440 server modules. It also uses 'pbind' to bind processes to cores.

Operating System Notes

```
ulimit -s 131072 (shell): increases stack
/etc/system parameters on all nodes
  tune_t_fsflushr=10
  autoup=900
  set lpg_alloc_prefer=1
The following /etc/system settings were changed on the node that was running runspec:
  set maxusers=2048
  set rlim_fd_cur=1000
```

Platform Notes

Sun Blade 6048 Chassis may be ordered with up to 48 Sun Blade server modules. Test configuration contains 48 Sun Blade X6440 server modules. Each Sun Blade X6440 server module has 4 chips. Default BIOS settings used.



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General Notes

The NFS server used was a Sun Fire X4540 containing 48 x 250GB 7200RPM SATA disks. Connections to the clients were via gigabit ethernet.

Base Compiler Invocation

C benchmarks:

cc

C++ benchmarks:

CC

Base Portability Flags

400.perlbench: -DSPEC_CPU_SOLARIS_IA32
403.gcc: -DSPEC_CPU_SOLARIS
462.libquantum: -DSPEC_CPU_SOLARIS
483.xalancbmk: -DSPEC_CPU_SOLARIS

Base Optimization Flags

C benchmarks:

-fast -xipo=2 -xpagesize=2M -M /usr/lib/ld/map.bssalign

C++ benchmarks:

-fast -xipo=2 -xpagesize=2M -xvector=simd -xalias_level=compatible
-L/datal/SmartHeap_9/lib -R/datal/SmartHeap_9/lib -lsmarheap
-library=stlport4

Base Other Flags

C benchmarks:

-V -# -xjobs=16

C++ benchmarks:

-verbose=diags,version -xjobs=16

The flags files that were used to format this result can be browsed at

http://www.spec.org/cpu2006/flags/Sun-OpenSolaris-Studio-x86_64.html

<http://www.spec.org/cpu2006/flags/Sun-Blade-6048.html>

You can also download the XML flags sources by saving the following links:

http://www.spec.org/cpu2006/flags/Sun-OpenSolaris-Studio-x86_64.xml

<http://www.spec.org/cpu2006/flags/Sun-Blade-6048.xml>



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