



SPEC® CINT2006 Result

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Sun Microsystems

SPECint®_rate2006 = 40.8

Sun SPARC Enterprise M3000

SPECint_rate_base2006 = 36.9

CPU2006 license: 6

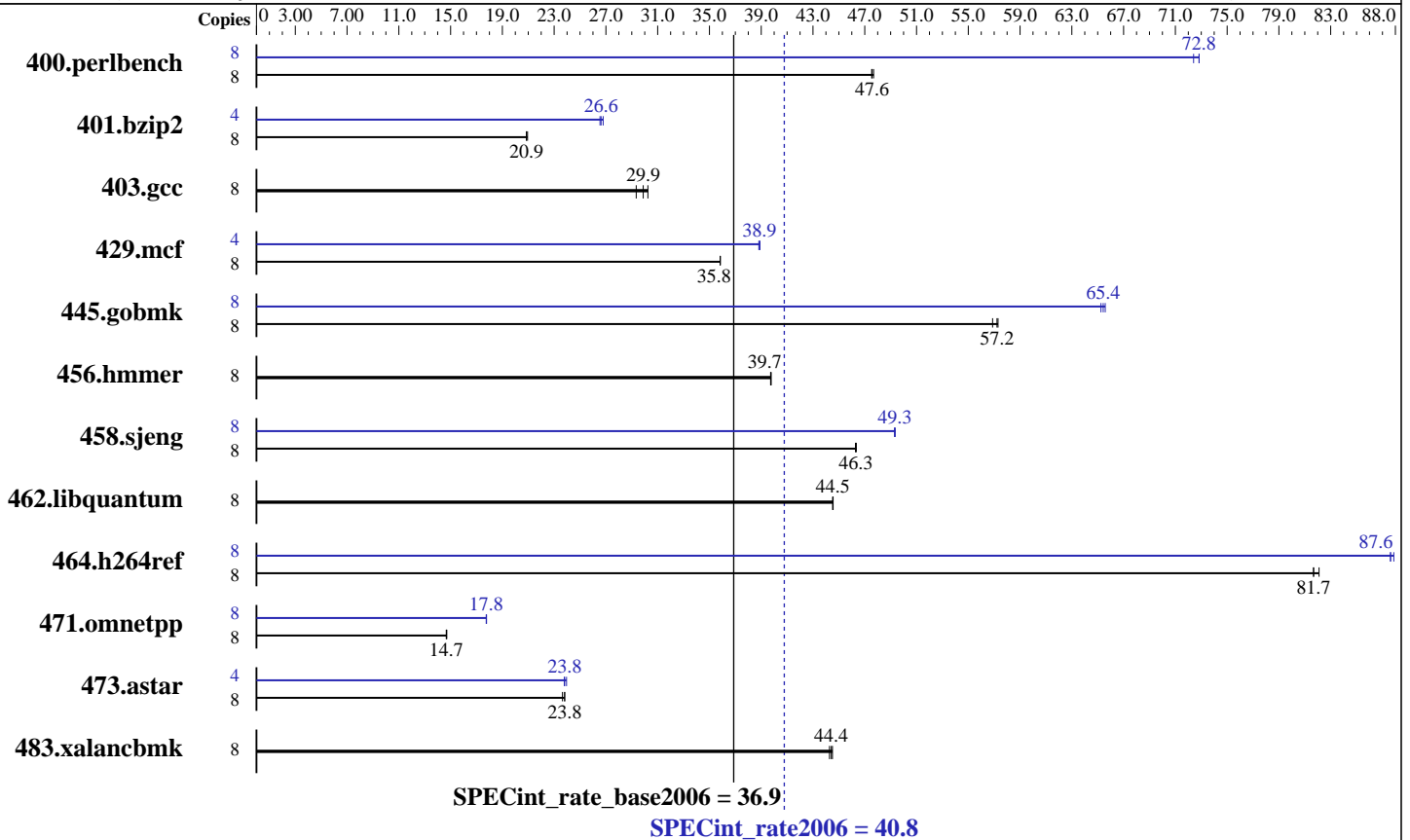
Test date: Sep-2008

Test sponsor: Sun Microsystems

Hardware Availability: Oct-2008

Tested by: Fujitsu Limited

Software Availability: Oct-2008



Hardware

CPU Name: SPARC64 VII
 CPU Characteristics:
 CPU MHz: 2520
 FPU: Integrated
 CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip, 2 threads/core
 CPU(s) orderable: 1 chip
 Primary Cache: 64 KB I + 64 KB D on chip per core
 Secondary Cache: 5 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 16 GB (2 GB x 8), 2-way interleaved
 Disk Subsystem: 73 GB 10,000 RPM Fujitsu MAY2073RC SAS
 Other Hardware: None

Software

Operating System: Solaris 10 10/08
 Compiler: Sun Studio 12 with patches
 124861-08, 124863-06, 124867-07, 127143-03,
 127000-05, 127001-01
 (see patch information below)
 Auto Parallel: No
 File System: ufs
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: None



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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	8	1639	47.7	1643	47.6	1644	47.5	8	1079	72.4	1073	72.8	1073	72.8
401.bzip2	8	3701	20.9	3685	20.9	3701	20.9	4	1441	26.8	1450	26.6	1454	26.5
403.gcc	8	2155	29.9	2195	29.3	2129	30.2	8	2155	29.9	2195	29.3	2129	30.2
429.mcf	8	2036	35.8	2036	35.8	2036	35.8	4	938	38.9	939	38.9	940	38.8
445.gobmk	8	1467	57.2	1465	57.3	1475	56.9	8	1280	65.6	1286	65.2	1283	65.4
456.hammer	8	1877	39.8	1879	39.7	1878	39.7	8	1877	39.8	1879	39.7	1878	39.7
458.sjeng	8	2092	46.3	2089	46.3	2090	46.3	8	1963	49.3	1963	49.3	1961	49.4
462.libquantum	8	3721	44.5	3723	44.5	3720	44.6	8	3721	44.5	3723	44.5	3720	44.6
464.h264ref	8	2168	81.7	2167	81.7	2156	82.1	8	2020	87.6	2015	87.9	2020	87.6
471.omnetpp	8	3409	14.7	3400	14.7	3406	14.7	8	2815	17.8	2816	17.8	2813	17.8
473.astar	8	2358	23.8	2359	23.8	2375	23.6	4	1181	23.8	1179	23.8	1172	24.0
483.xalancbmk	8	1240	44.5	1247	44.3	1243	44.4	8	1240	44.5	1247	44.3	1243	44.4

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

Compiler Invocation Notes

Sun Studio compiler patches are available at http://developers.sun.com/sunstudio/downloads/patches/ss12_patches.jsp

Submit Notes

The config file option 'submit' was used. Processes were assigned to specific processors using 'pbind' commands. The list of processors to use was provided in the 'BIND' variable, to generate the pbind commands. (For details, please see the config file.)

Operating System Notes

Shell Environments:
Default setting.

System Tunables:
(/etc/system parameters)

```

tune_t_fsflushr=10
  Controls how many seconds elapse between runs of the
  page flush daemon, fsflush.
autoup=600
  Causes pages older than the listed number of seconds to
  be written by fsflush.
bufhwm=3000
  Memory byte limit for caching I/O buffers.

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Operating System Notes (Continued)

segmap_percent=1

Set maximum percent memory for file system cache.

Other System Settings:

The webconsole service was turned off using svcadm disable webconsole.

Platform Notes

Memory is 2-way interleaved by filling all slots with the same capacity DIMMs.

This result is measured on a Fujitsu SPARC Enterprise M3000 Server. Note that the Fujitsu SPARC Enterprise M3000 and Sun SPARC Enterprise M3000 are electrically equivalent.

Base Compiler Invocation

C benchmarks:

cc

C++ benchmarks:

CC

Base Portability Flags

400.perlbench: -DSPEC_CPU_SOLARIS_SPARC

403.gcc: -DSPEC_CPU_SOLARIS

462.libquantum: -DSPEC_CPU_SOLARIS

483.xalancbmk: -DSPEC_CPU_SOLARIS

Base Optimization Flags

C benchmarks:

-fast -fma=fused -xipo=2 -xpagesize=4M -xprefetch_level=1

-xalias_level=std -ll2amm

C++ benchmarks:

-library=stlport4 -fast -fma=fused -xipo=2 -xpagesize=4M

-xprefetch_level=2 -xalias_level=compatible -lfast



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Base Other Flags

C benchmarks:
-xjobs=4

C++ benchmarks:
-xjobs=4

Peak Compiler Invocation

C benchmarks:
cc

C++ benchmarks:
CC

Peak Portability Flags

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

Peak Optimization Flags

C benchmarks:

400.perlbench: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -fma=fused
-xpagesize=4M -xipo=2 -xalias_level=std -Xc -xrestrict
-lfast

401.bzip2: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -fma=fused
-xpagesize=4M -xalias_level=strong

403.gcc: basepeak = yes

429.mcf: -fast -fma=fused -xpagesize=4M -xipo=2 -xalias_level=std
-l12amm

445.gobmk: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -fma=fused
-xpagesize=4M -xalias_level=std -xrestrict

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Peak Optimization Flags (Continued)

456.hmmr: basepeak = yes

458.sjeng: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -fma=fused
-xpagesize=4M -xipo=2

462.libquantum: basepeak = yes

464.h264ref: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -fma=fused
-xpagesize=4M -xipo=2 -xalias_level=std -m32
-xarch=sparcvis2 -xprefetch=no -l12amm

C++ benchmarks:

471.omnetpp: -library=stlport4 -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -fma=fused
-xpagesize=4M -xalias_level=compatible -xipo=2
-xprefetch_level=2 -Qoption cg -Qlp-av=0 -lfast

473.astar: -library=stlport4 -fast -fma=fused -xpagesize=4M
-xalias_level=compatible -xipo=2 -xprefetch_level=2 -lfast

483.xalancbmk: basepeak = yes

Peak Other Flags

C benchmarks:

-xjobs=4

C++ benchmarks:

-xjobs=4

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Sun-Solaris-Studio12-and-gccfss4.2.r3.20090713.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Sun-Solaris-Studio12-and-gccfss4.2.r3.20090713.xml>



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For other inquiries, please contact webmaster@spec.org.

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