



SPEC® CINT2006 Result

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Fujitsu

SPECint®_rate2006 = 49.1

Fujitsu SPARC Enterprise M3000

SPECint_rate_base2006 = 45.4

CPU2006 license: 19

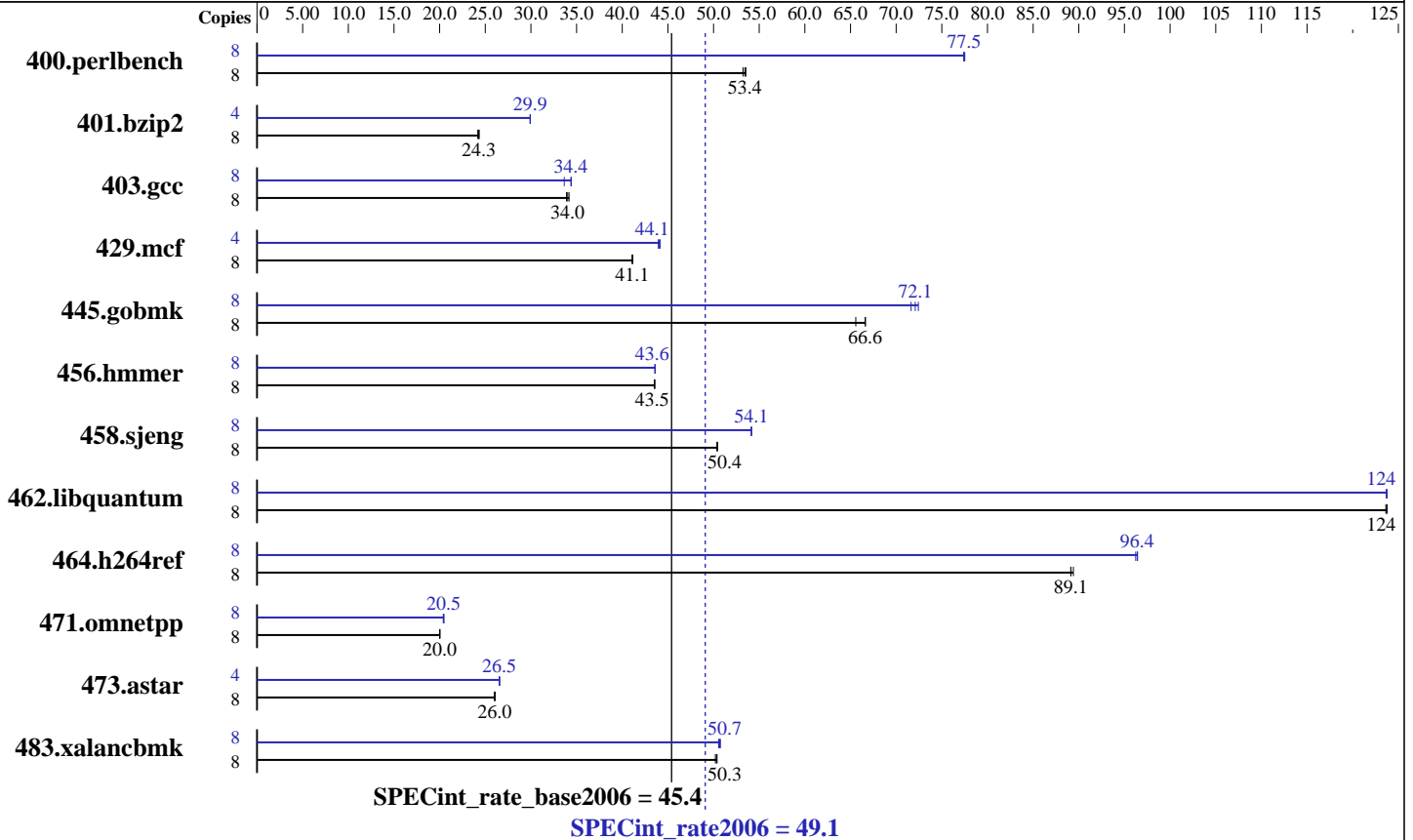
Test sponsor: Fujitsu

Tested by: Fujitsu

Test date: Oct-2009

Hardware Availability: Jan-2010

Software Availability: Oct-2009



Hardware

CPU Name: SPARC64 VII
 CPU Characteristics:
 CPU MHz: 2750
 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 (8 x 2 GB), 2-way interleaved
 Disk Subsystem: 1 x Seagate Savvio 10K.2 (146 GB 10,000 RPM SAS)
 Other Hardware: None

Software

Operating System: Solaris 10 10/09 with patch 119963-18
 Compiler: Sun Studio 12 Update 1
 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	1468	53.2	1460	53.5	1463	53.4	8	1009	77.5	1008	77.5	1010	77.4
401.bzip2	8	3179	24.3	3173	24.3	3193	24.2	4	1290	29.9	1290	29.9	1290	29.9
403.gcc	8	1900	33.9	1885	34.2	1893	34.0	8	1914	33.6	1873	34.4	1870	34.4
429.mcf	8	1776	41.1	1773	41.1	1775	41.1	4	828	44.1	826	44.1	830	43.9
445.gobmk	8	1260	66.6	1280	65.6	1259	66.6	8	1171	71.6	1159	72.4	1164	72.1
456.hammer	8	1714	43.5	1715	43.5	1713	43.6	8	1712	43.6	1712	43.6	1712	43.6
458.sjeng	8	1919	50.4	1921	50.4	1920	50.4	8	1787	54.2	1788	54.1	1788	54.1
462.libquantum	8	1341	124	1340	124	1339	124	8	1340	124	1340	124	1339	124
464.h264ref	8	1986	89.1	1980	89.4	1986	89.1	8	1836	96.4	1840	96.2	1837	96.4
471.omnetpp	8	2500	20.0	2497	20.0	2496	20.0	8	2451	20.4	2444	20.5	2443	20.5
473.astar	8	2158	26.0	2160	26.0	2153	26.1	4	1058	26.5	1056	26.6	1058	26.5
483.xalancbmk	8	1096	50.4	1100	50.2	1097	50.3	8	1089	50.7	1088	50.8	1092	50.6

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/ss12u1_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:

ulimit -s 131072 was used to limit the space consumed by the stack.(making more space available for the heap)

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.

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Operating System Notes (Continued)

bufhwm=3000

Memory byte limit for caching I/O buffers.

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 -xarch=sparcfmaf
-xalias_level=std -l12amm

C++ benchmarks:

-library=stlport4 -fast -fma=fused -xipo=2 -xpagesize=4M
-xarch=sparcfmaf -xdepend -xalias_level=compatible -lfast



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Base Other Flags

C benchmarks:
-xjobs=2 -V -#
C++ benchmarks:
-xjobs=2 -verbose=diags,version

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 -xpagesize=4M
-M /usr/lib/ld/map.bssalign -fma=fused -xipo=2
-xalias_level=std -xrestrict -xprefetch=no%auto -Xc
-lfast
401.bzip2: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xpagesize=4M
-fma=fused -xalias_level=strong
403.gcc: -fast -xpagesize=4M -M /usr/lib/ld/map.bssalign -fma=fused
-xipo=2 -xalias_level=std -ll2amm
429.mcf: -fast -xpagesize=4M -fma=fused -xipo=2 -xalias_level=std
-ll2amm
445.gobmk: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xpagesize=4M
-fma=fused -xalias_level=std -xrestrict

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Peak Optimization Flags (Continued)

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

458.sjeng: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xpagesize=4M
-fma=fused -xipo=2 -xprefetch=latx:0.5 -ll2amm

462.libquantum: Same as 429.mcf

464.h264ref: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xpagesize=4M
-fma=fused -xipo=2 -xalias_level=std -xprefetch=no
-ll2amm

C++ benchmarks:

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

473.astar: -library=stlport4 -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xpagesize=4M
-xalias_level=compatible -M /usr/lib/ld/map.bssalign
-fma=fused -xipo=2 -xprefetch=no%auto -xdepend -lfast
-lbsdmalloc

483.xalancbmk: -library=stlport4 -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xpagesize=4M
-xalias_level=compatible -fma=fused -xipo=2 -xprefetch=no
-xdepend -lfast

Peak Other Flags

C benchmarks:
-xjobs=2 -V -#

C++ benchmarks:
-xjobs=2 -verbose=diags,version

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

<http://www.spec.org/cpu2006/flags/Sun-Solaris-Studio12-12u1-and-gccfss4.2.r4.html>

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

<http://www.spec.org/cpu2006/flags/Sun-Solaris-Studio12-12u1-and-gccfss4.2.r4.xml>



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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.1.
Report generated on Wed Jul 23 06:11:19 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 12 January 2010.