



SPEC® CINT2006 Result

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Fujitsu Siemens Computers

PRIMERGY RX200 S3, Intel Xeon processor E5320,
1.86 GHz

SPECint®_rate2006 = 68.3

SPECint_rate_base2006 = 64.8

CPU2006 license: 22

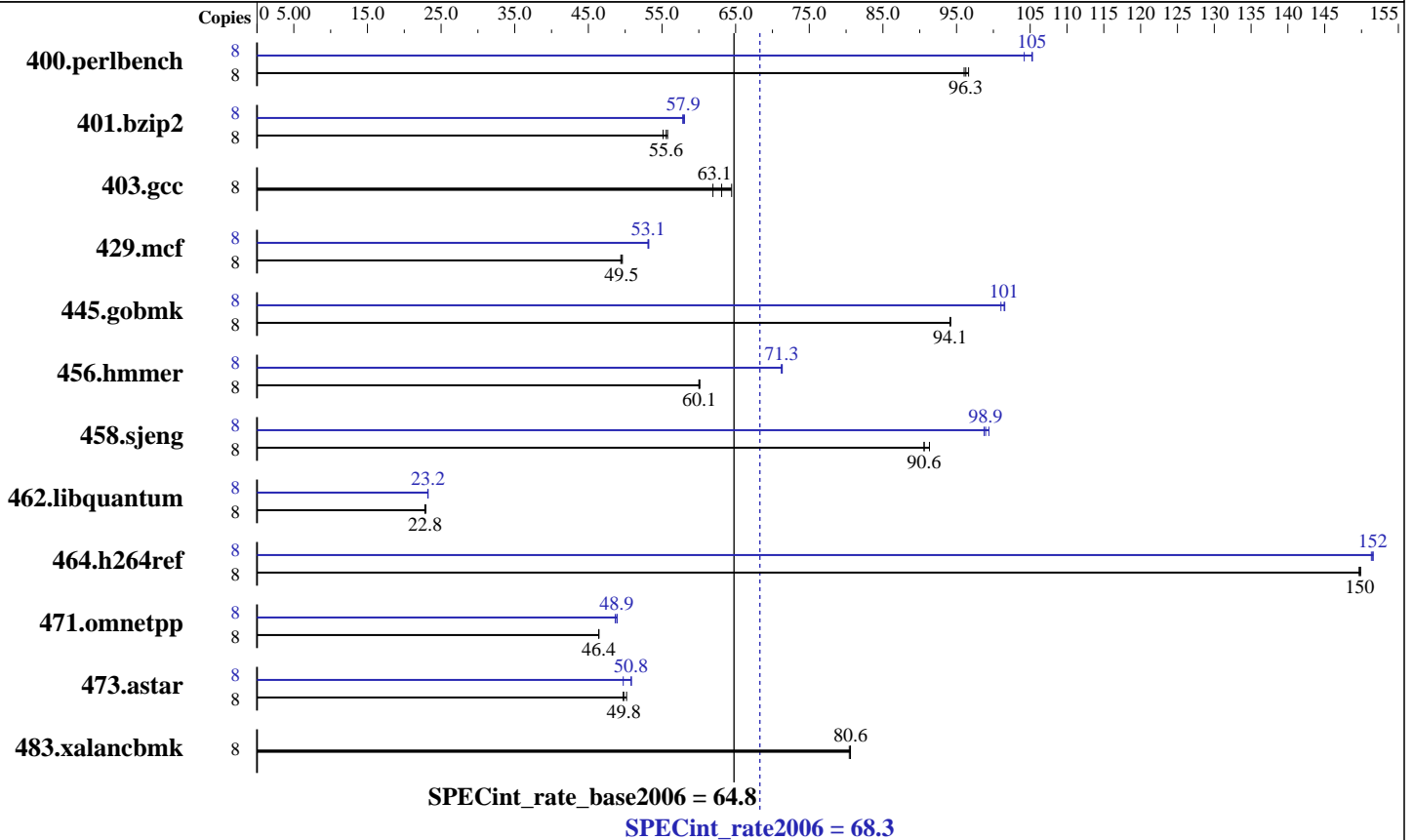
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Jun-2007

Hardware Availability: Nov-2006

Software Availability: Mar-2007



Hardware

CPU Name: Intel Xeon E5320
 CPU Characteristics: 1067 MHz system bus
 CPU MHz: 1867
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
 CPU(s) orderable: 1,2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 8 MB I+D on chip per chip, 4 MB shared / 2 cores
 L3 Cache: None
 Other Cache: None
 Memory: 16 GB (8x2 GB DDR2 PC2-5300F, 2 rank, CAS 5-5-5, with ECC)
 Disk Subsystem: SAS (73GB 15400 rpm)
 Other Hardware: None

Software

Operating System: 64-Bit SUSE LINUX Enterprise Server 10, Kernel 2.6.16.21-0.8-smp on an x86_64
 Compiler: Intel C++ Compiler for IA32/EM64T application, Version 9.1 - Build 20070215, Package-ID: l_cc_p_9.1.047
 Auto Parallel: No
 File System: ext2
 System State: Multiuser, Runlevel 3
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: Smart Heap Library, Version 8.1



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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	814	96.0	<u>812</u>	<u>96.3</u>	809	96.6	8	750	104	742	105	<u>743</u>	<u>105</u>
401.bzip2	8	1400	55.1	<u>1389</u>	<u>55.6</u>	1385	55.8	8	1330	58.1	<u>1333</u>	<u>57.9</u>	1335	57.8
403.gcc	8	999	64.5	1040	61.9	<u>1021</u>	<u>63.1</u>	8	999	64.5	1040	61.9	<u>1021</u>	<u>63.1</u>
429.mcf	8	1477	49.4	<u>1474</u>	<u>49.5</u>	1470	49.6	8	<u>1373</u>	<u>53.1</u>	1374	53.1	1371	53.2
445.gobmk	8	892	94.1	<u>891</u>	<u>94.1</u>	891	94.2	8	<u>827</u>	<u>101</u>	831	101	826	102
456.hmmer	8	<u>1243</u>	<u>60.1</u>	1244	60.0	1241	60.1	8	1046	71.3	1048	71.2	<u>1047</u>	<u>71.3</u>
458.sjeng	8	<u>1068</u>	<u>90.6</u>	1069	90.6	1060	91.3	8	974	99.4	<u>978</u>	<u>98.9</u>	980	98.7
462.libquantum	8	<u>7255</u>	<u>22.8</u>	7272	22.8	7232	22.9	8	<u>7139</u>	<u>23.2</u>	7135	23.2	7148	23.2
464.h264ref	8	1183	150	<u>1182</u>	<u>150</u>	1181	150	8	1170	151	1168	152	<u>1168</u>	<u>152</u>
471.omnetpp	8	1078	46.4	1077	46.4	<u>1077</u>	<u>46.4</u>	8	1022	48.9	<u>1023</u>	<u>48.9</u>	1028	48.6
473.astar	8	<u>1128</u>	<u>49.8</u>	1129	49.7	1119	50.2	8	1129	49.7	1104	50.8	<u>1106</u>	<u>50.8</u>
483.xalancbmk	8	686	80.4	<u>685</u>	<u>80.6</u>	685	80.6	8	686	80.4	<u>685</u>	<u>80.6</u>	685	80.6

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

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run
'/usr/bin/taskset' used to bind processes to CPUs

General Notes

The system bus runs at 1067 MHz

All binaries were built with 32-bit Intel compiler except:
401.bzip2, 456.hmmer and 462.libquantum in peak were built with
64-bit Intel compiler by changing the path for include and library files.

BIOS configuration:
Hardware Prefetch = Disable, Adjacent Sector Prefetch = Disable

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Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc



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Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_X64
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:

-fast

C++ benchmarks:

-xP -O3 -ipo -no-prec-div -L/opt/SmartHeap_8_1/lib -lsmartheap

Peak Compiler Invocation

C benchmarks (except as noted below):

icc

401.bzip2: /opt/intel/cce/9.1.047/bin/icc
-I/opt/intel/cce/9.1.047/include
-L/opt/intel/cce/9.1.047/lib

456.hmmer: /opt/intel/cce/9.1.047/bin/icc
-I/opt/intel/cce/9.1.047/include
-L/opt/intel/cce/9.1.047/lib

462.libquantum: /opt/intel/cce/9.1.047/bin/icc
-I/opt/intel/cce/9.1.047/include
-L/opt/intel/cce/9.1.047/lib

C++ benchmarks:

icpc

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_X64
401.bzip2: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX



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Peak Optimization Flags

C benchmarks:

400.perlbench: -prof_gen(pass 1) -prof_use(pass 2) -fast

401.bzip2: -fast

403.gcc: basepeak = yes

429.mcf: -prof_gen(pass 1) -prof_use(pass 2) -fast
-L/opt/SmartHeap_8_1/lib -lsmartheap

445.gobmk: Same as 429.mcf

456.hmmer: Same as 400.perlbench

458.sjeng: Same as 429.mcf

462.libquantum: Same as 400.perlbench

464.h264ref: Same as 429.mcf

C++ benchmarks:

471.omnetpp: -prof_gen(pass 1) -prof_use(pass 2) -xP -O3 -ipo
-no-prec-div -L/opt/SmartHeap_8_1/lib -lsmartheap

473.astar: -prof_gen(pass 1) -prof_use(pass 2) -fast
-L/opt/SmartHeap_8_1/lib -lsmartheap

483.xalancbmk: basepeak = yes

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.09.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.09.xml

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

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