



SPEC® CINT2006 Result

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Fujitsu Siemens Computers

SPECint®_rate2006 = 36.8

PRIMERGY BX620 S3, Intel Xeon processor 5110, 1.60 GHz

SPECint_rate_base2006 = 35.0

CPU2006 license: 22

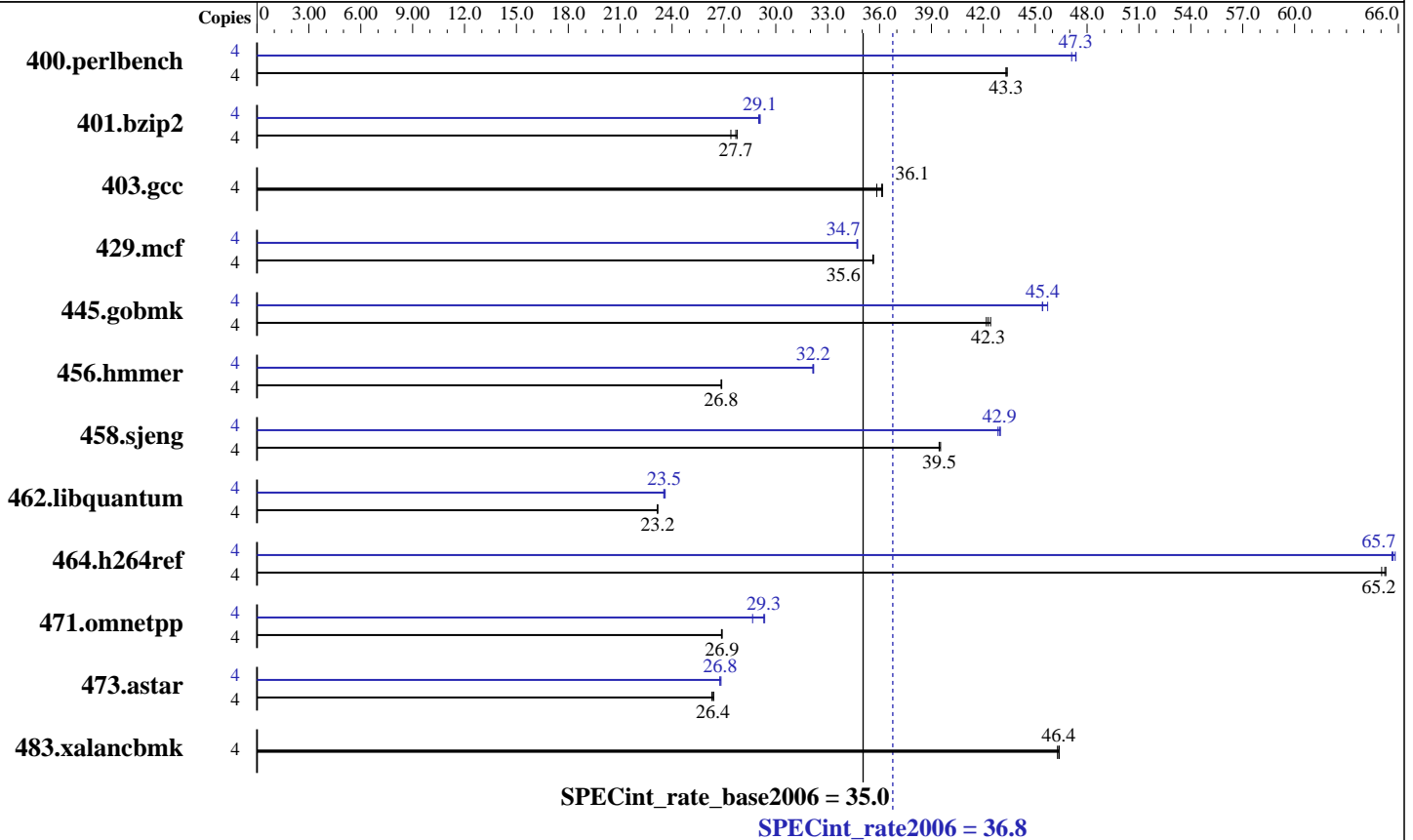
Test date: Apr-2007

Test sponsor: Fujitsu Siemens Computers

Hardware Availability: Jul-2006

Tested by: Fujitsu Siemens Computers

Software Availability: Feb-2007



Hardware

CPU Name: Intel Xeon 5110
 CPU Characteristics: 1067 MHz system bus
 CPU MHz: 1600
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1,2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 4 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 8 GB (8x1 GB DDR2 PC2-5300F, 2 rank, CAS 5-5-5, with ECC)
 Disk Subsystem: SAS (36GB 10000 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	4	902	43.3	902	43.3	901	43.4	4	825	47.4	830	47.1	826	47.3
401.bzip2	4	1390	27.8	1394	27.7	1409	27.4	4	1331	29.0	1327	29.1	1328	29.1
403.gcc	4	890	36.2	898	35.8	891	36.1	4	890	36.2	898	35.8	891	36.1
429.mcf	4	1023	35.7	1024	35.6	1024	35.6	4	1050	34.7	1052	34.7	1051	34.7
445.gobmk	4	995	42.2	992	42.3	989	42.4	4	924	45.4	924	45.4	918	45.7
456.hmmer	4	1389	26.9	1390	26.8	1390	26.8	4	1159	32.2	1160	32.2	1161	32.1
458.sjeng	4	1224	39.5	1226	39.5	1227	39.4	4	1127	42.9	1126	43.0	1130	42.8
462.libquantum	4	3577	23.2	3581	23.1	3577	23.2	4	3523	23.5	3520	23.5	3511	23.6
464.h264ref	4	1357	65.2	1356	65.3	1361	65.0	4	1348	65.7	1349	65.6	1345	65.8
471.omnetpp	4	930	26.9	930	26.9	931	26.9	4	852	29.4	872	28.7	853	29.3
473.astar	4	1065	26.4	1068	26.3	1063	26.4	4	1047	26.8	1049	26.8	1049	26.8
483.xalancbmk	4	595	46.4	596	46.3	595	46.4	4	595	46.4	596	46.3	595	46.4

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:
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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