



SPEC® CINT2006 Result

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Fujitsu Siemens Computers

PRIMERGY RX600 S3, Intel Xeon processor 7120M, 3.0 GHz

SPECint®_rate2006 = 60.6

SPECint_rate_base2006 = 56.9

CPU2006 license: 22

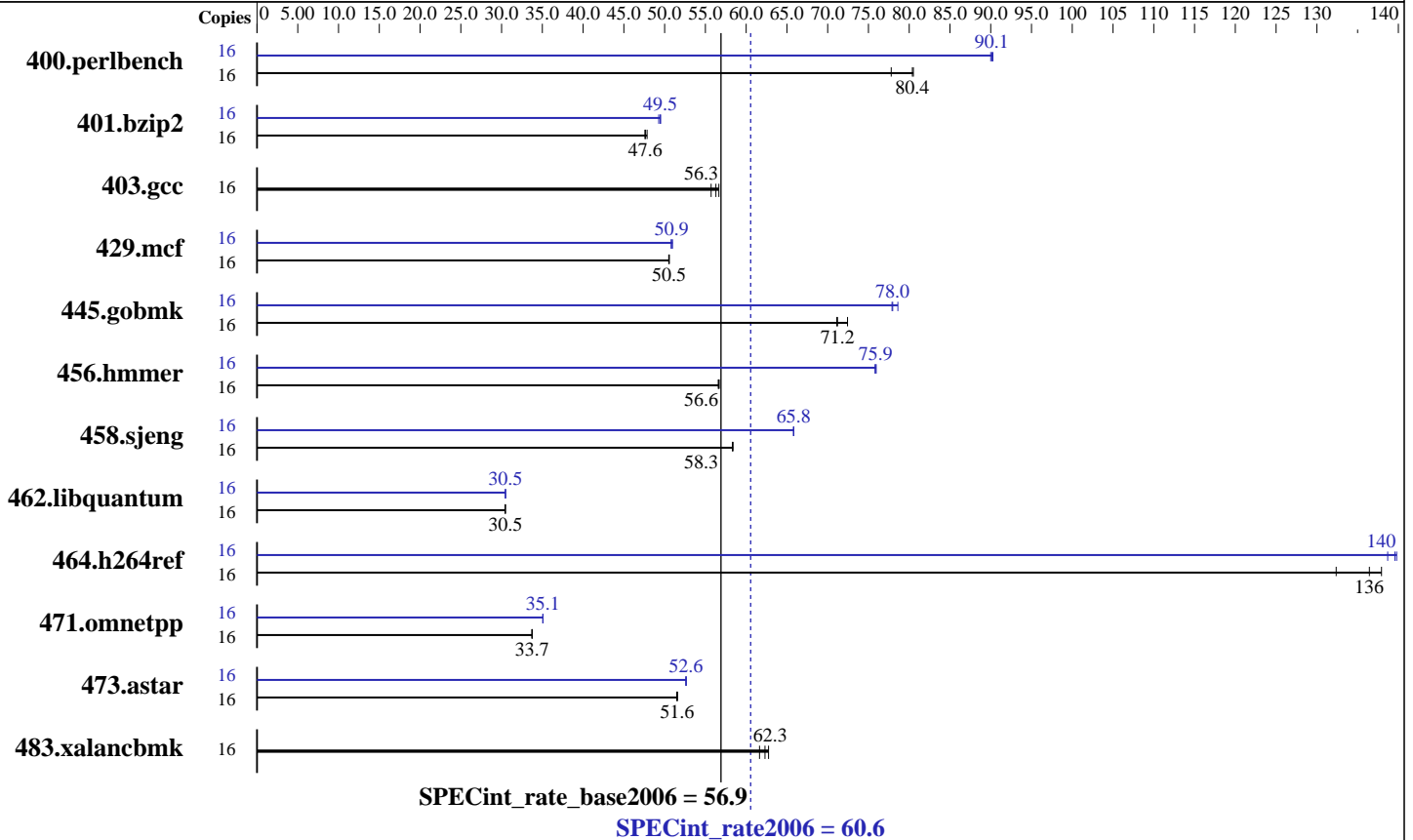
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: May-2007

Hardware Availability: Aug-2006

Software Availability: Mar-2007



Hardware

CPU Name: Intel Xeon 7120M
 CPU Characteristics: 800 MHz system bus
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 8 cores, 4 chips, 2 cores/chip, 2 threads/core
 CPU(s) orderable: 1,2,4 chips
 Primary Cache: 12 K micro-ops I + 16 KB D on chip per core
 Secondary Cache: 1 MB I+D on chip per core
 L3 Cache: 4 MB I+D on chip per chip
 Other Cache: None
 Memory: 32 GB (16x2 GB DDR2 PC2-3200R, 2 rank, CAS 3-3-3, with ECC)
 Disk Subsystem: Seagate ST973401SS (SAS 73GB 10 krpm)
 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: ReiserFS
 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	16	2009	77.8	1942	80.5	<u>1945</u>	<u>80.4</u>	16	1737	90.0	1732	90.3	<u>1734</u>	<u>90.1</u>
401.bzip2	16	3245	47.6	<u>3241</u>	<u>47.6</u>	3227	47.8	16	<u>3122</u>	<u>49.5</u>	3134	49.3	3119	49.5
403.gcc	16	<u>2288</u>	<u>56.3</u>	2273	56.7	2312	55.7	16	<u>2288</u>	<u>56.3</u>	2273	56.7	2312	55.7
429.mcf	16	2886	50.6	2889	50.5	<u>2887</u>	<u>50.5</u>	16	2863	51.0	<u>2870</u>	<u>50.9</u>	2873	50.8
445.gobmk	16	2317	72.4	2360	71.1	<u>2357</u>	<u>71.2</u>	16	2135	78.6	<u>2152</u>	<u>78.0</u>	2155	77.9
456.hmmer	16	<u>2637</u>	<u>56.6</u>	2638	56.6	2633	56.7	16	<u>1968</u>	<u>75.9</u>	1969	75.8	1965	76.0
458.sjeng	16	3319	58.3	3316	58.4	<u>3319</u>	<u>58.3</u>	16	2942	65.8	<u>2941</u>	<u>65.8</u>	2940	65.8
462.libquantum	16	10882	30.5	10891	30.4	<u>10884</u>	<u>30.5</u>	16	10879	30.5	10878	30.5	<u>10878</u>	<u>30.5</u>
464.h264ref	16	2567	138	2675	132	<u>2595</u>	<u>136</u>	16	<u>2537</u>	<u>140</u>	2553	139	2533	140
471.omnetpp	16	2966	33.7	<u>2963</u>	<u>33.7</u>	2961	33.8	16	<u>2852</u>	<u>35.1</u>	2850	35.1	2852	35.1
473.astar	16	2182	51.5	<u>2179</u>	<u>51.6</u>	2178	51.6	16	2133	52.7	<u>2135</u>	<u>52.6</u>	2135	52.6
483.xalancbmk	16	1791	61.6	1759	62.7	<u>1772</u>	<u>62.3</u>	16	1791	61.6	1759	62.7	<u>1772</u>	<u>62.3</u>

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 800 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 = Enable

The PRIMERGY RX600 S3 and the PRIMERGY TX600 S3 are electronically equivalent.

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<http://www.fujitsu-siemens.com/countries>

Base Compiler Invocation

C benchmarks:
icc

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Base Compiler Invocation (Continued)

C++ benchmarks:
icpc

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 -lsmarheap

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

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Peak Portability Flags (Continued)

456.hmmmer: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX

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 -lsmarheap

445.gobmk: Same as 429.mcf

456.hmmmer: 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 -lsmarheap

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

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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