



SPEC® CINT2006 Result

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Fujitsu Siemens Computers

PRIMERGY RX100 S4, Intel Xeon processor 3040,
1.86 GHz

SPECint®_rate2006 = 22.6

SPECint_rate_base2006 = 21.6

CPU2006 license: 22

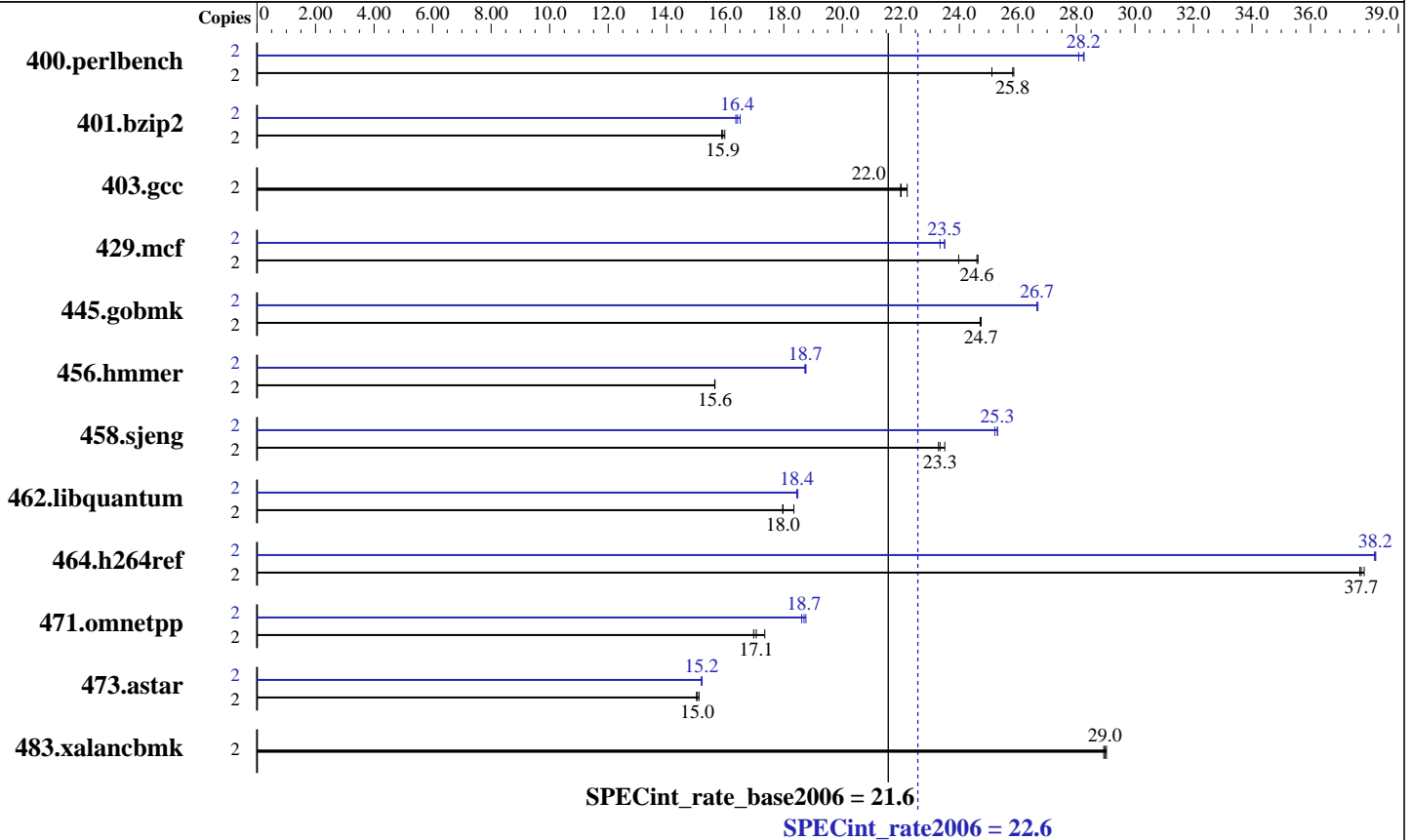
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: May-2007

Hardware Availability: Sep-2006

Software Availability: Feb-2007



Hardware

CPU Name: Intel Xeon 3040
 CPU Characteristics: 1067 MHz system bus
 CPU MHz: 1867
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 2 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 8 GB (4x2 GB DDR2 PC2-4200E, 2 rank, CAS 4-4-4, with ECC)
 Disk Subsystem: SATA (160 GB, 7200 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: 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	2	778	25.1	<u>757</u>	<u>25.8</u>	756	25.9	2	696	28.1	<u>692</u>	<u>28.2</u>	691	28.3
401.bzip2	2	1207	16.0	<u>1212</u>	<u>15.9</u>	1216	15.9	2	1180	16.4	<u>1176</u>	<u>16.4</u>	1169	16.5
403.gcc	2	732	22.0	725	22.2	<u>732</u>	<u>22.0</u>	2	732	22.0	725	22.2	<u>732</u>	<u>22.0</u>
429.mcf	2	761	24.0	<u>741</u>	<u>24.6</u>	740	24.6	2	782	23.3	<u>776</u>	<u>23.5</u>	776	23.5
445.gobmk	2	<u>848</u>	<u>24.7</u>	849	24.7	848	24.7	2	786	26.7	<u>787</u>	<u>26.7</u>	787	26.6
456.hmmer	2	<u>1193</u>	<u>15.6</u>	1193	15.6	1192	15.6	2	<u>996</u>	<u>18.7</u>	997	18.7	995	18.8
458.sjeng	2	1039	23.3	1030	23.5	<u>1037</u>	<u>23.3</u>	2	956	25.3	<u>956</u>	<u>25.3</u>	960	25.2
462.libquantum	2	<u>2306</u>	<u>18.0</u>	2259	18.3	2307	18.0	2	2247	18.4	<u>2247</u>	<u>18.4</u>	2242	18.5
464.h264ref	2	1170	37.8	<u>1173</u>	<u>37.7</u>	1174	37.7	2	<u>1158</u>	<u>38.2</u>	1158	38.2	1159	38.2
471.omnetpp	2	737	17.0	720	17.4	<u>733</u>	<u>17.1</u>	2	672	18.6	<u>669</u>	<u>18.7</u>	666	18.8
473.aster	2	935	15.0	930	15.1	<u>933</u>	<u>15.0</u>	2	923	15.2	<u>924</u>	<u>15.2</u>	925	15.2
483.xalancbmk	2	<u>476</u>	<u>29.0</u>	475	29.0	477	28.9	2	<u>476</u>	<u>29.0</u>	475	29.0	477	28.9

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.

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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 -lsmarheap

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

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 11:39:08 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 29 May 2007.