



SPEC® CINT2006 Result

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Fujitsu Siemens Computers

SPECint®_rate2006 = 22.5

PRIMERGY RX100 S5, Intel Pentium Dual Core E2160, 1.80 GHz

SPECint_rate_base2006 = 20.0

CPU2006 license: 22

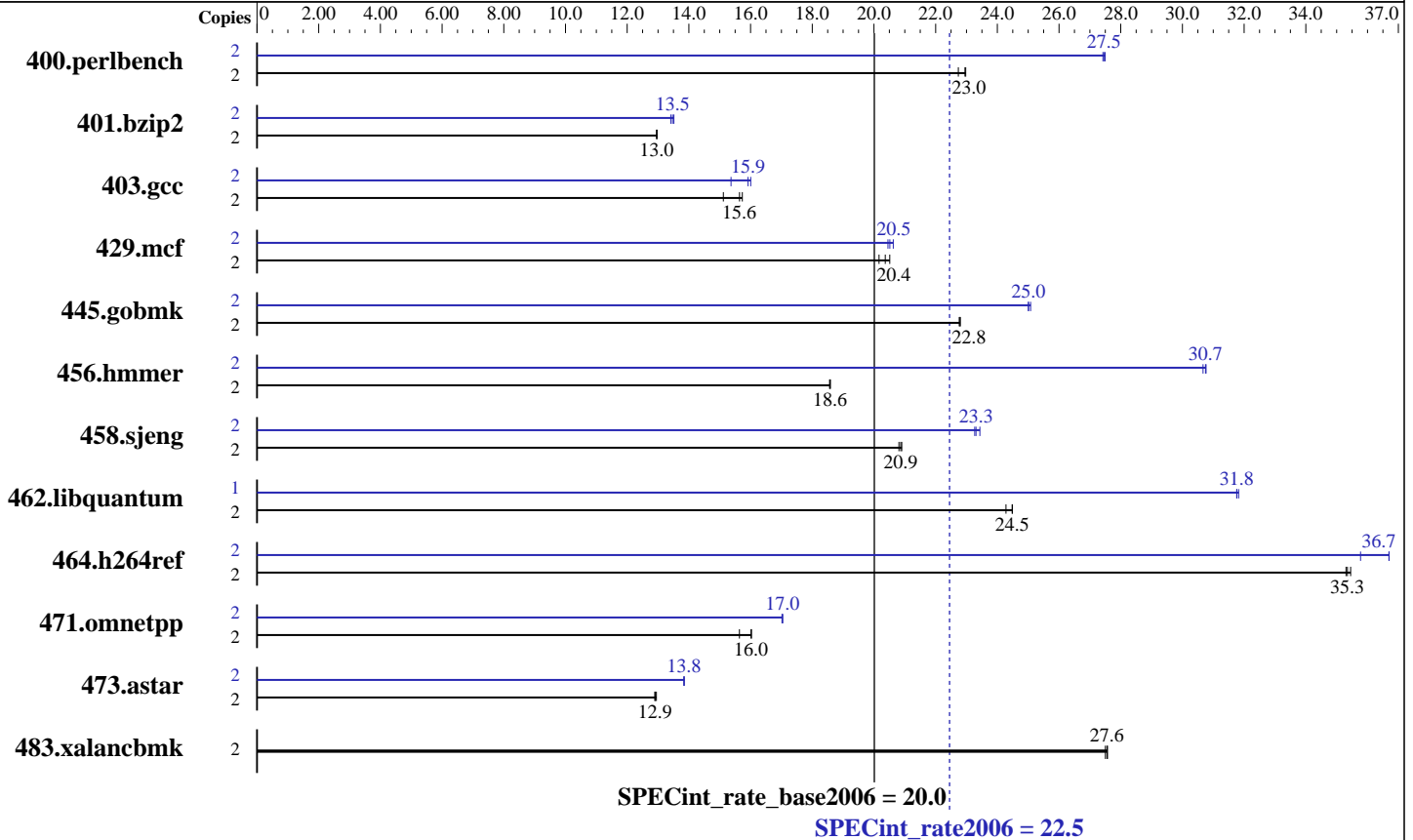
Test date: Apr-2008

Test sponsor: Fujitsu Siemens Computers

Hardware Availability: Apr-2008

Tested by: Fujitsu Siemens Computers

Software Availability: Nov-2007



Hardware

CPU Name: Intel Pentium Dual Core E2160
 CPU Characteristics: 800 MHz system bus
 CPU MHz: 1800
 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: 1 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 8 GB (4x2 GB PC2-6400E, 2 rank, CL 6-6-6, ECC)
 Disk Subsystem: 1x SATA, 500 GB, 7200 rpm
 Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smp
 Compiler: Intel C++ Compiler for Linux32 and Linux64, Version 10.1, Build 20070913
 Auto Parallel: Yes
 File System: ext2
 System State: Multi-User Run Level 3
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: MicroQuill SmartHeap Library, Version 8.1
 binutils-2.17.50.0.5-0.1.x86_64



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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	<u>851</u>	<u>23.0</u>	851	23.0	859	22.7	2	<u>712</u>	<u>27.5</u>	713	27.4	711	27.5
401.bzip2	2	<u>1489</u>	<u>13.0</u>	1488	13.0	1490	13.0	2	1439	13.4	1428	13.5	<u>1433</u>	<u>13.5</u>
403.gcc	2	1023	15.7	<u>1029</u>	<u>15.6</u>	1065	15.1	2	<u>1011</u>	<u>15.9</u>	1048	15.4	1006	16.0
429.mcf	2	<u>896</u>	<u>20.4</u>	905	20.2	889	20.5	2	892	20.5	884	20.6	<u>889</u>	<u>20.5</u>
445.gobmk	2	920	22.8	922	22.8	<u>921</u>	<u>22.8</u>	2	837	25.1	839	25.0	<u>839</u>	<u>25.0</u>
456.hmmmer	2	<u>1004</u>	<u>18.6</u>	1004	18.6	1005	18.6	2	607	30.8	<u>607</u>	<u>30.7</u>	608	30.7
458.sjeng	2	<u>1160</u>	<u>20.9</u>	1163	20.8	1158	20.9	2	1040	23.3	1033	23.4	<u>1038</u>	<u>23.3</u>
462.libquantum	2	1707	24.3	<u>1693</u>	<u>24.5</u>	1692	24.5	1	651	31.8	<u>652</u>	<u>31.8</u>	652	31.8
464.h264ref	2	1248	35.5	<u>1252</u>	<u>35.3</u>	1254	35.3	2	<u>1206</u>	<u>36.7</u>	1237	35.8	1206	36.7
471.omnetpp	2	799	15.6	780	16.0	<u>781</u>	<u>16.0</u>	2	734	17.0	734	17.0	<u>734</u>	<u>17.0</u>
473.astar	2	1084	12.9	1089	12.9	<u>1088</u>	<u>12.9</u>	2	1014	13.8	<u>1014</u>	<u>13.8</u>	1015	13.8
483.xalancbmk	2	501	27.6	<u>501</u>	<u>27.6</u>	502	27.5	2	501	27.6	<u>501</u>	<u>27.6</u>	502	27.5

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
OMP_NUM_THREADS set to number of cores (default)

Platform Notes

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

General Notes

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

For information about Fujitsu Siemens Computers please see:
<http://www.fujitsu-siemens.com>

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc



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Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:
-fast -inline-calloc -opt-malloc-options=3

C++ benchmarks:
-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs
-L/opt/SmartHeap_8.1/lib -lsmartheap

Base Other Flags

C benchmarks:
403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):
icc

401.bzip2: /opt/intel/cce/10.1.008/bin/icc
-L/opt/intel/cce/10.1.008/lib
-I/opt/intel/cce/10.1.008/include

456.hmmr: /opt/intel/cce/10.1.008/bin/icc
-L/opt/intel/cce/10.1.008/lib
-I/opt/intel/cce/10.1.008/include

C++ benchmarks:
icpc

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
401.bzip2: -DSPEC_CPU_LP64
456.hmmr: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LINUX

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Peak Portability Flags (Continued)

483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -fast -ansi-alias
-prefetch

401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch

403.gcc: -fast -inline-calloc -opt-malloc-options=3

429.mcf: -fast -prefetch

445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xT -O2 -ipo
-no-prec-div -ansi-alias

456.hmmer: -fast -unroll2 -ansi-alias -opt-multi-version-aggressive

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4

462.libquantum: -fast -unroll4 -Ob0 -prefetch
-opt-streaming-stores always -vec-guard-write
-opt-malloc-options=3 -parallel -par-runtime-control

464.h264ref: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-ansi-alias

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
-no-prec-div -ansi-alias -opt-ra-region-strategy=block
-Wl,-z,muldefs -L/opt/SmartHeap_8.1/lib -lsmarheap

473.astar: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
-no-prec-div -ansi-alias -opt-ra-region-strategy=routine
-Wl,-z,muldefs -L/opt/SmartHeap_8.1/lib -lsmarheap

483.xalancbmk: basepeak = yes

Peak Other Flags

C benchmarks:

Continued on next page



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Peak Other Flags (Continued)

403.gcc: -Dalloca=_alloca

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

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090713.01.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090713.01.xml>

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

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