



SPEC® CINT2006 Result

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Fujitsu Siemens Computers

PRIMERGY RX220, AMD Opteron 280 processor,
2.40 GHz

SPECint_rate2006 = 40.0

SPECint_rate_base2006 = 35.7

CPU2006 license: 22

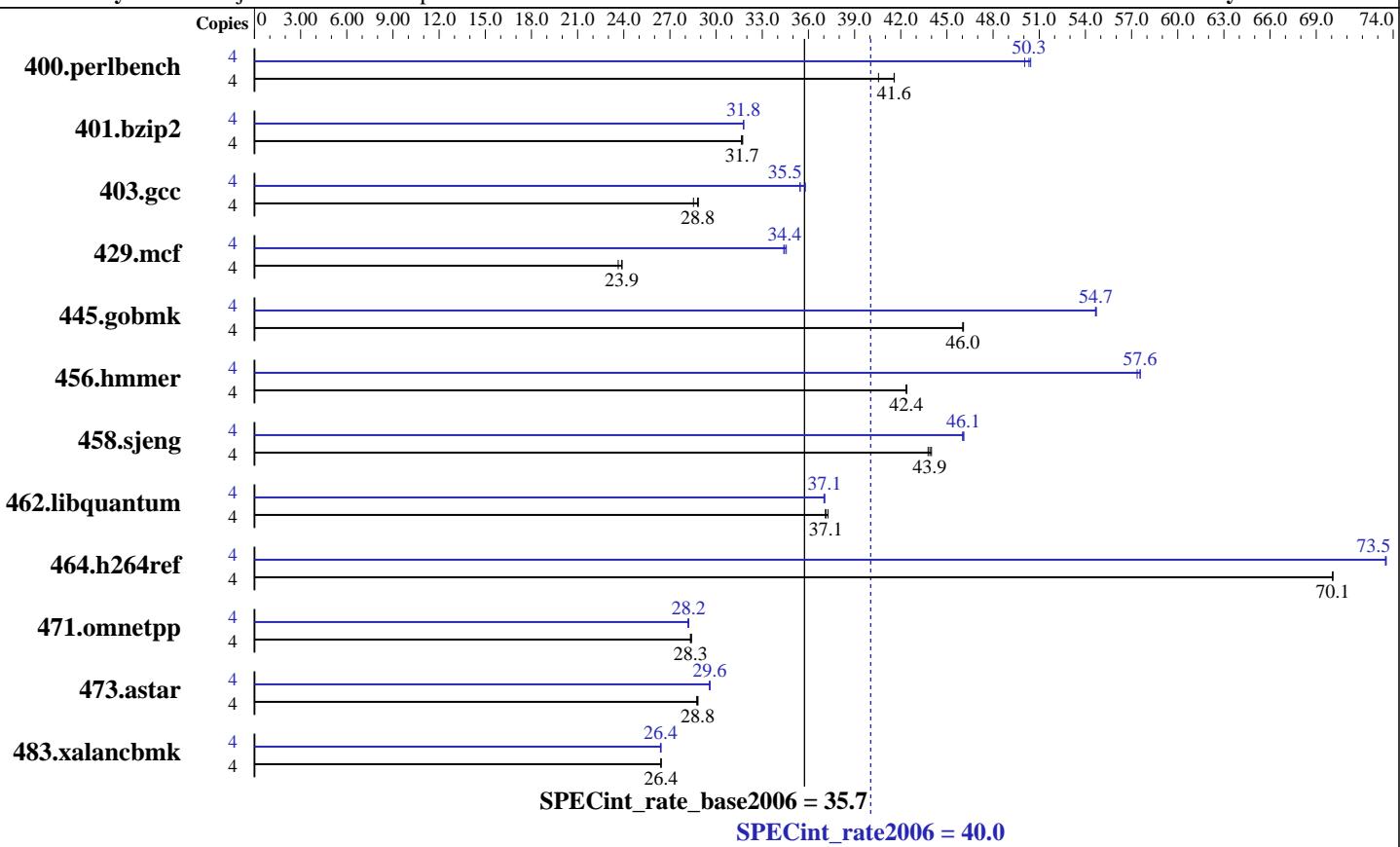
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Apr-2006

Hardware Availability: Dec-2005

Software Availability: Mar-2006



Hardware		Software	
CPU Name:	AMD Opteron 280	Operating System:	SuSE Linux Enterprise Server 9 (x86_64) + SP3
CPU Characteristics:	Opteron 280	Compiler:	QLogic Pathscale Compiler Suite 2.4
CPU MHz:	2400	Auto Parallel:	No
FPU:	Integrated	File System:	ext3
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip	System State:	Multi-user run level 3
CPU(s) orderable:	1,2 chips	Base Pointers:	32/64-bit
Primary Cache:	64 KB I + 64 KB D on chip per core	Peak Pointers:	32/64-bit
Secondary Cache:	1 MB I+D on chip per core	Other Software:	None
L3 Cache:	None		
Other Cache:	None		
Memory:	16 GB (8x2 GB DDR PC-3200R 2-rank CAS 3-3-3)		
Disk Subsystem:	Western Digital WD2500 (SATA, 7.2krpm)		
Other Hardware:	None		



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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	964	40.6	940	41.6	940	41.6	4	781	50.0	776	50.3	775	50.4
401.bzip2	4	1220	31.6	1217	31.7	1218	31.7	4	1214	31.8	1214	31.8	1215	31.8
403.gcc	4	1129	28.5	1118	28.8	1116	28.8	4	899	35.8	908	35.5	908	35.5
429.mcf	4	1543	23.6	1528	23.9	1527	23.9	4	1055	34.6	1059	34.4	1060	34.4
445.gobmk	4	911	46.0	911	46.1	911	46.0	4	768	54.7	767	54.7	767	54.7
456.hmmer	4	880	42.4	881	42.3	881	42.4	4	651	57.4	648	57.6	648	57.6
458.sjeng	4	1103	43.9	1100	44.0	1106	43.8	4	1052	46.0	1050	46.1	1050	46.1
462.libquantum	4	2224	37.3	2234	37.1	2232	37.1	4	2239	37.0	2237	37.1	2237	37.1
464.h264ref	4	1263	70.1	1263	70.1	1263	70.1	4	1204	73.5	1204	73.5	1204	73.5
471.omnetpp	4	880	28.4	882	28.3	882	28.3	4	886	28.2	887	28.2	886	28.2
473.astar	4	977	28.7	974	28.8	975	28.8	4	949	29.6	949	29.6	950	29.6
483.xalancbmk	4	1045	26.4	1044	26.4	1045	26.4	4	1044	26.4	1046	26.4	1046	26.4

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

General Notes

taskset has been used to bind processes to CPUs

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

Base Compiler Invocation

C benchmarks:
pathcc

C++ benchmarks:
pathCC

Base Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64

401.bzip2: -DSPEC_CPU_LP64

403.gcc: -DSPEC_CPU_LP64

429.mcf: -DSPEC_CPU_LP64

445.gobmk: -DSPEC_CPU_LP64

456.hmmer: -DSPEC_CPU_LP64

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Base Portability Flags (Continued)

458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
464.h264ref: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:
-Ofast

C++ benchmarks:
-Ofast -m32

Peak Compiler Invocation

C benchmarks:
pathcc

C++ benchmarks:
pathCC

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
401.bzip2: -DSPEC_CPU_LP64
429.mcf: -DSPEC_CPU_LP64
445.gobmk: -DSPEC_CPU_LP64
456.hammer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
464.h264ref: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

400.perlbench: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -Ofast
-IPA:plimit=525 -IPA:pu_reorder=1

401.bzip2: -O3 -LNO:ou_prod_max=10

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Peak Optimization Flags (Continued)

403.gcc: -m32 -O3 -OPT:Ofast

429.mcf: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -m32 -O2
-ipa

445.gobmk: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
-OPT:alias=disjoint -LNO:simd=0 -LNO:minvariant=off

456.hmmr: -O2 -OPT:alias=disjoint -WOPT:aggstr=0 -CG:cflow=0

458sjeng: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
-IPA:callee_limit=5000 -IPA:linear=on

462.libquantum: -O3 -ipa -CG:local_fwd_sched=on -IPA:space=1000

464.h264ref: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
-IPA:plimit=20000 -OPT:alias=disjoint -LNO:prefetch=0

C++ benchmarks:

471.omnetpp: -Ofast -IPA:pu_reorder=2 -CG:gcm=off -m32

473.astar: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -Ofast

483.xalancbmk: -Ofast -m32

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.02.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.02.xml

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

Tested with SPEC CPU2006 v91.

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