SPEC® CINT2006 Result

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Fujitsu Siemens Computers

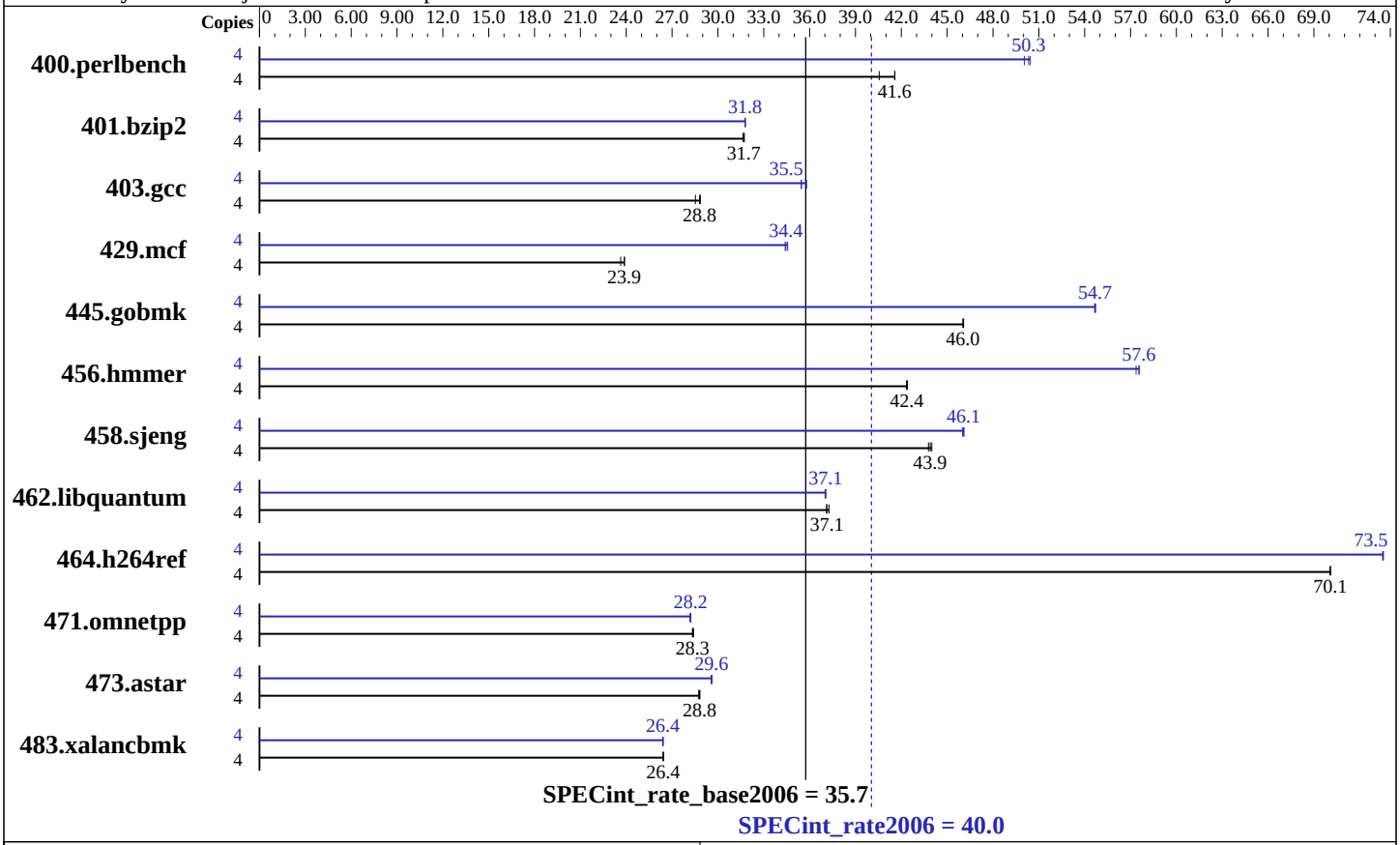
PRIMERGY RX220, AMD Opteron 280 processor, 2.40 GHz

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

CPU Name:	AMD Opteron 280
CPU Characteristics:	Opteron 280
CPU MHz:	2400
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	64 KB I + 64 KB D on chip per core
Secondary Cache:	1 MB I+D on chip per core
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

Software

Operating System:	SuSE Linux Enterprise Server 9 (x86_64) + SP3
Compiler:	QLogic Pathscale Compiler Suite 2.4
Auto Parallel:	No
File System:	ext3
System State:	Multi-user run level 3
Base Pointers:	32/64-bit
Peak Pointers:	32/64-bit
Other Software:	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.hmmer: -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.hmmer: `-O2 -OPT:alias=disjoint -WOPT:aggstr=0 -CG:cflow=0`

458.sjeng: `-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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