



SPEC[®] CINT2006 Result

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Fujitsu Siemens Computers

SPECint[®]_rate2006 = 22.6

PRIMERGY RX330 S1, AMD Opteron 2214, 2.20 GHz

SPECint_rate_base2006 = 20.4

CPU2006 license: 22

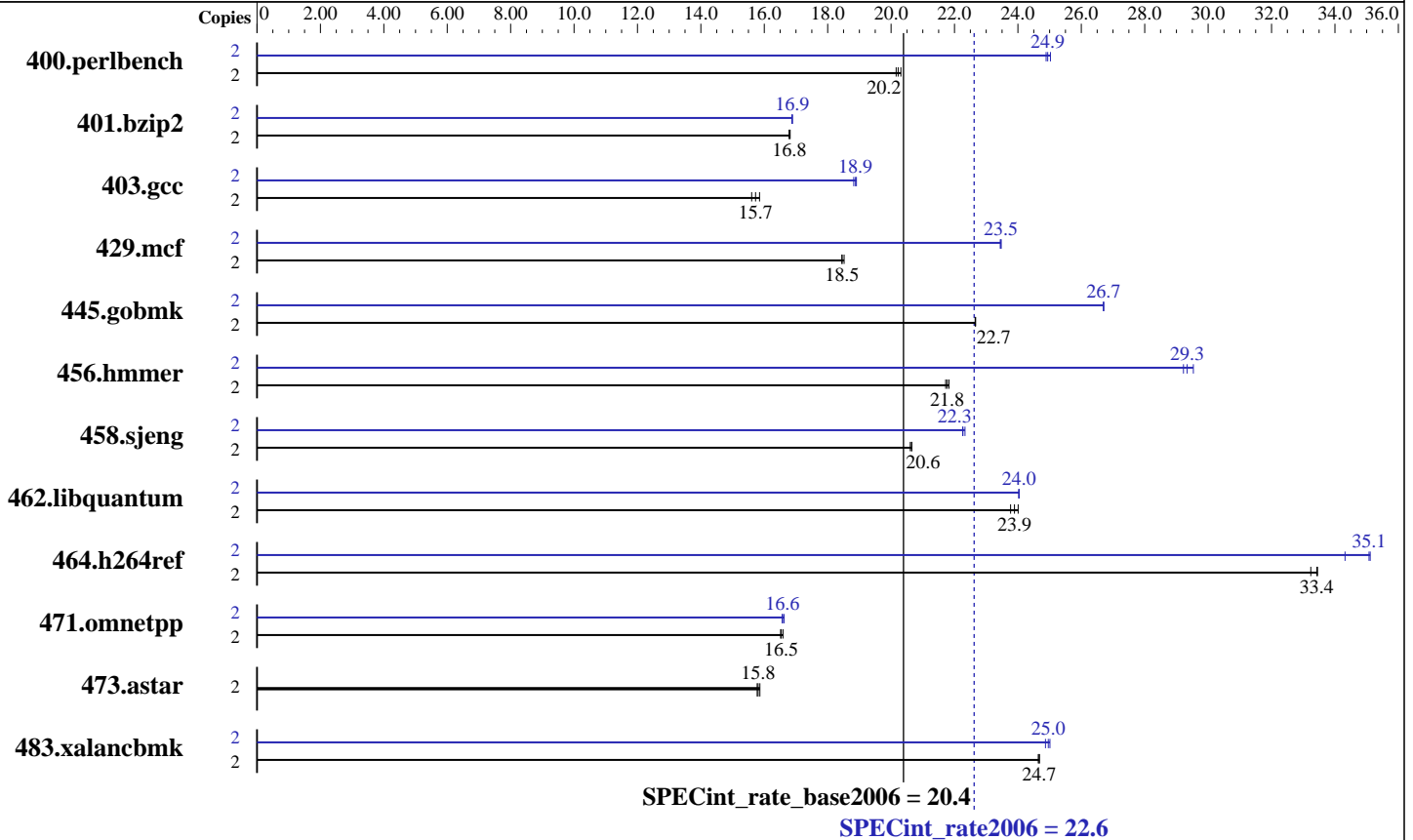
Test date: Jun-2007

Test sponsor: Fujitsu Siemens Computers

Hardware Availability: May-2007

Tested by: Fujitsu Siemens Computers

Software Availability: Mar-2007



Hardware

CPU Name: AMD Opteron 2214
 CPU Characteristics: 2214
 CPU MHz: 2200
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 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: 32 GB (8x4 GB DDR2 PC2-5300P, 2 rank, CAS 5-5-5, with ECC)
 Disk Subsystem: SAS (36GB 15.4 krpm)
 Other Hardware: None

Software

Operating System: SLES 10 for AMD64/EM64T
 Compiler: QLogic PathScale Compiler Suite, - Release 3.0
 Auto Parallel: No
 File System: ReiserFS
 System State: Multi-user run level 3
 Base Pointers: 32/64-bit
 Peak Pointers: 32/64-bit
 Other Software: SmartHeap 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	966	20.2	969	20.2	962	20.3	2	785	24.9	784	24.9	781	25.0
401.bzip2	2	1148	16.8	1150	16.8	1149	16.8	2	1144	16.9	1143	16.9	1143	16.9
403.gcc	2	1016	15.9	1024	15.7	1032	15.6	2	852	18.9	855	18.8	853	18.9
429.mcf	2	985	18.5	989	18.5	988	18.5	2	778	23.4	777	23.5	777	23.5
445.gobmk	2	926	22.7	926	22.7	926	22.7	2	786	26.7	786	26.7	786	26.7
456.hammer	2	855	21.8	859	21.7	857	21.8	2	639	29.2	632	29.5	636	29.3
458.sjeng	2	1172	20.7	1174	20.6	1172	20.6	2	1087	22.3	1084	22.3	1087	22.3
462.libquantum	2	1743	23.8	1735	23.9	1726	24.0	2	1725	24.0	1724	24.0	1724	24.0
464.h264ref	2	1323	33.5	1332	33.2	1324	33.4	2	1290	34.3	1262	35.1	1261	35.1
471.omnetpp	2	753	16.6	756	16.5	757	16.5	2	752	16.6	754	16.6	755	16.6
473.astar	2	885	15.9	890	15.8	888	15.8	2	885	15.9	890	15.8	888	15.8
483.xalancbmk	2	559	24.7	559	24.7	560	24.6	2	553	25.0	552	25.0	555	24.9

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' has been used to bind processes to CPUs

General Notes

BIOS settings:
Node Interleave = disabled

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Base Compiler Invocation

C benchmarks:
pathcc

C++ benchmarks:
pathCC



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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
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 -OPT:malloc_alg=1

C++ benchmarks:
  -Ofast -m32 -L/opt/SmartHeap_8.1/lib -lsmarheap

```

Base Other Flags

```

C benchmarks:
  -IPA:max_jobs=4

C++ benchmarks:
  -IPA:max_jobs=4

```

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
445.gobmk: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64

```

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Peak 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

Peak Optimization Flags

C benchmarks:

400.perlbench: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -Ofast
 -LNO:opt=0

401.bzip2: -O3 -LNO:ou_prod_max=10 -OPT:Ofast -OPT:alias=disjoint

403.gcc: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -m32 -O3
 -OPT:Ofast

429.mcf: -m32 -O3 -ipa -L/opt/SmartHeap_8.1/lib -lsmartheap

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

456.hmmr: -O2 -OPT:alias=disjoint -OPT:malloc_alg=1 -CG:cflow=0

458.sjeng: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
 -IPA:plimit=50000 -IPA:pu_reorder=2

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 -CG:gcm=off -m32
 -L/opt/SmartHeap_8.1/lib -lsmartheap

473.astar: basepeak = yes

483.xalancbmk: -Ofast -m32 -OPT:unroll_times_max=8
 -L/opt/SmartHeap_8.1/lib -lsmartheap



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Peak Other Flags

C benchmarks:
-IPA:max_jobs=4

C++ benchmarks:
-IPA:max_jobs=4

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.10.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.10.xml

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