



SPEC® CINT2006 Result

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Fujitsu Siemens Computers

SPECint®_rate2006 = 21.2

PRIMERGY RX330 S1, AMD Opteron 2212, 2.0 GHz

SPECint_rate_base2006 = 19.2

CPU2006 license: 22

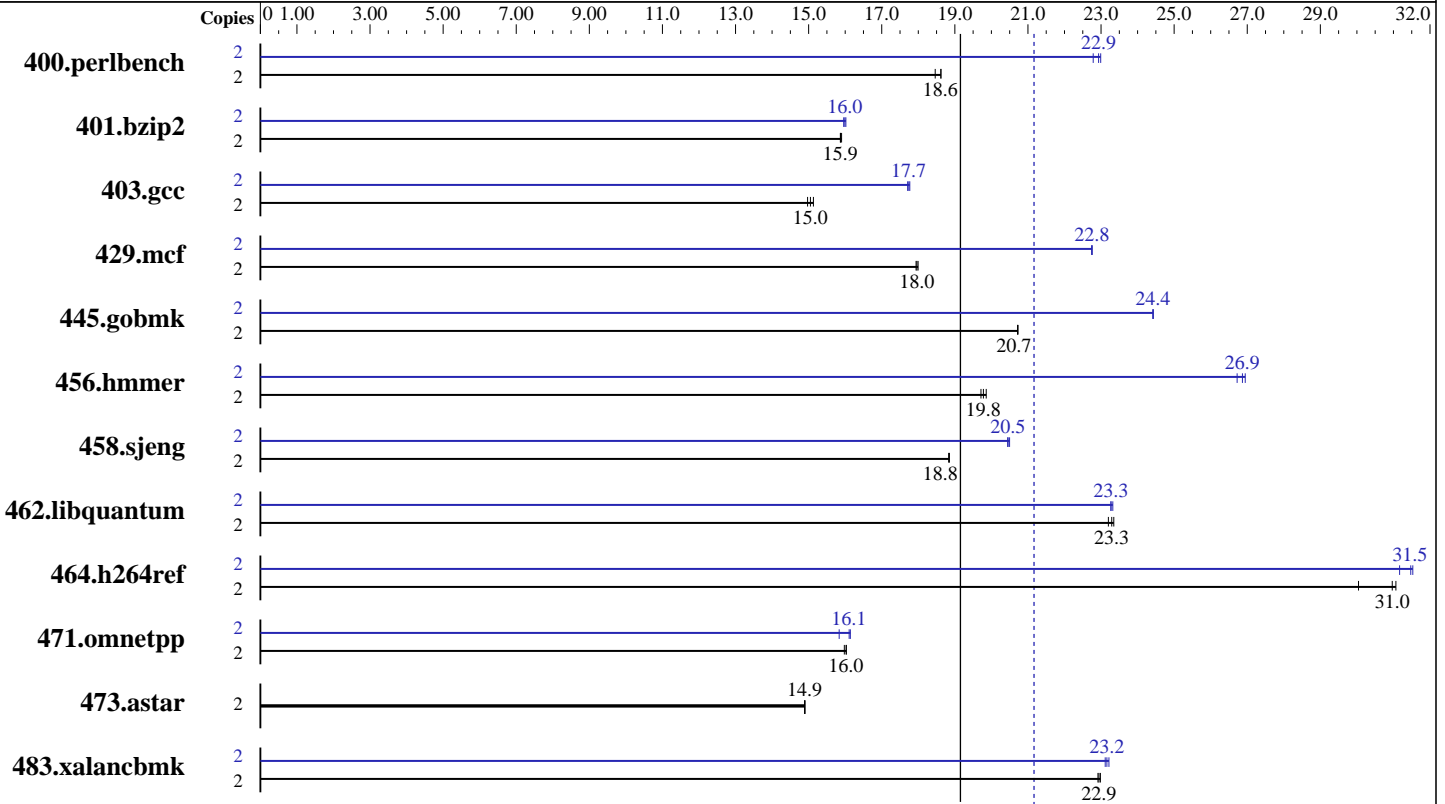
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: May-2007

Hardware Availability: May-2007

Software Availability: Mar-2007



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Hardware

CPU Name: AMD Opteron 2212
 CPU Characteristics: 2212
 CPU MHz: 2000
 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	1058	18.5	1050	18.6	1049	18.6	2	850	23.0	852	22.9	858	22.8
401.bzip2	2	1214	15.9	1216	15.9	1216	15.9	2	1209	16.0	1207	16.0	1205	16.0
403.gcc	2	1070	15.0	1064	15.1	1075	15.0	2	908	17.7	906	17.8	909	17.7
429.mcf	2	1014	18.0	1017	17.9	1015	18.0	2	802	22.7	802	22.8	802	22.8
445.gobmk	2	1013	20.7	1012	20.7	1012	20.7	2	859	24.4	859	24.4	859	24.4
456.hammer	2	943	19.8	947	19.7	940	19.9	2	693	26.9	698	26.7	695	26.9
458.sjeng	2	1284	18.8	1285	18.8	1285	18.8	2	1184	20.4	1181	20.5	1183	20.5
462.libquantum	2	1786	23.2	1779	23.3	1775	23.3	2	1781	23.3	1781	23.3	1777	23.3
464.h264ref	2	1425	31.1	1473	30.0	1429	31.0	2	1420	31.2	1404	31.5	1406	31.5
471.omnetpp	2	782	16.0	780	16.0	780	16.0	2	776	16.1	774	16.1	789	15.8
473.astar	2	943	14.9	942	14.9	943	14.9	2	943	14.9	942	14.9	943	14.9
483.xalancbmk	2	600	23.0	602	22.9	601	22.9	2	597	23.1	594	23.2	596	23.2

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.hmmer: -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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