



SPEC® CINT2006 Result

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Fujitsu Siemens Computers

SPECint®2006 = 14.9

CELSIUS V840, Opteron 2222, 64-bit Linux

SPECint_base2006 = 13.5

CPU2006 license: 22

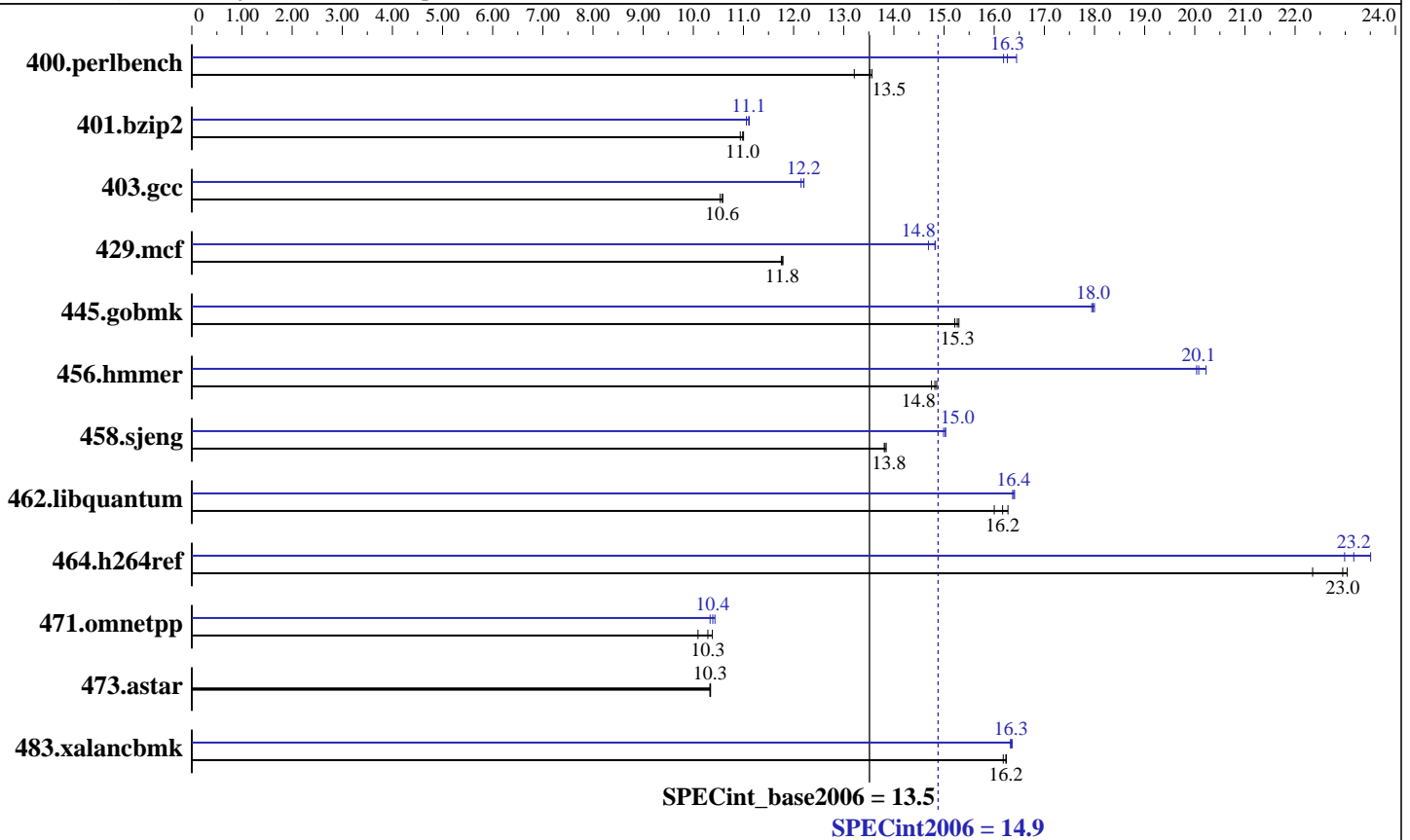
Test date: Jul-2007

Test sponsor: Fujitsu Siemens Computers

Hardware Availability: Jul-2007

Tested by: Fujitsu Siemens Computers

Software Availability: Mar-2007



Hardware

CPU Name: AMD Opteron 2222
 CPU Characteristics: Dual Core, 3.0 GHz, 2 MB L2-cache
 CPU MHz: 3000
 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 (8x2GB DDR2-667 CL5 dual rank ECC DIMMs registered)
 Disk Subsystem: SATA II, 80 GB
 Other Hardware: None

Software

Operating System: SLES 10 for AMD64/EM64T
 Compiler: QLogic PathScale Compiler Suite, - Release 3.0
 Auto Parallel: No
 File System: ext3
 System State: Multi-User SuSE 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	740	13.2	720	13.6	<u>722</u>	<u>13.5</u>	<u>601</u>	<u>16.3</u>	604	16.2	594	16.4
401.bzip2	882	10.9	877	11.0	<u>879</u>	<u>11.0</u>	<u>869</u>	<u>11.1</u>	868	11.1	873	11.1
403.gcc	760	10.6	<u>761</u>	<u>10.6</u>	764	10.5	660	12.2	<u>660</u>	<u>12.2</u>	663	12.1
429.mcf	776	11.8	774	11.8	<u>775</u>	<u>11.8</u>	615	14.8	<u>615</u>	<u>14.8</u>	621	14.7
445.gobmk	686	15.3	<u>687</u>	<u>15.3</u>	689	15.2	585	17.9	583	18.0	<u>584</u>	<u>18.0</u>
456.hammer	628	14.9	633	14.7	<u>630</u>	<u>14.8</u>	461	20.2	466	20.0	<u>465</u>	<u>20.1</u>
458.sjeng	874	13.8	876	13.8	<u>875</u>	<u>13.8</u>	805	15.0	807	15.0	<u>805</u>	<u>15.0</u>
462.libquantum	1295	16.0	<u>1282</u>	<u>16.2</u>	1273	16.3	1263	16.4	1266	16.4	<u>1264</u>	<u>16.4</u>
464.h264ref	990	22.3	961	23.0	<u>964</u>	<u>23.0</u>	963	23.0	<u>955</u>	<u>23.2</u>	941	23.5
471.omnetpp	<u>607</u>	<u>10.3</u>	602	10.4	619	10.1	599	10.4	605	10.3	<u>602</u>	<u>10.4</u>
473.astar	680	10.3	<u>679</u>	<u>10.3</u>	679	10.3	680	10.3	<u>679</u>	<u>10.3</u>	679	10.3
483.xalancbmk	<u>425</u>	<u>16.2</u>	425	16.2	426	16.2	422	16.4	423	16.3	<u>422</u>	<u>16.3</u>

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

Operating System Notes

powersave -f is applied to set CPU to maximum frequency prior to run
stacksize is set to unlimited prior to run

General Notes

BIOS default settings with
Node memory interleave disabled, SRAT enabled

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

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

Continued on next page



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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 -lsmarheap
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 -lsmarheap
473.astar: basepeak = yes
483.xalancbmk: -Ofast -m32 -OPT:unroll_times_max=8
-L/opt/SmartHeap_8.1/lib -lsmarheap



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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.20090714.28.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.28.xml

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

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