



SPEC® CINT2006 Result

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Fujitsu Siemens Computers

SPECint®_rate2006 = 51.5

PRIMERGY RX330 S1, AMD Opteron 2218, 2.60 GHz

SPECint_rate_base2006 = 46.3

CPU2006 license: 22

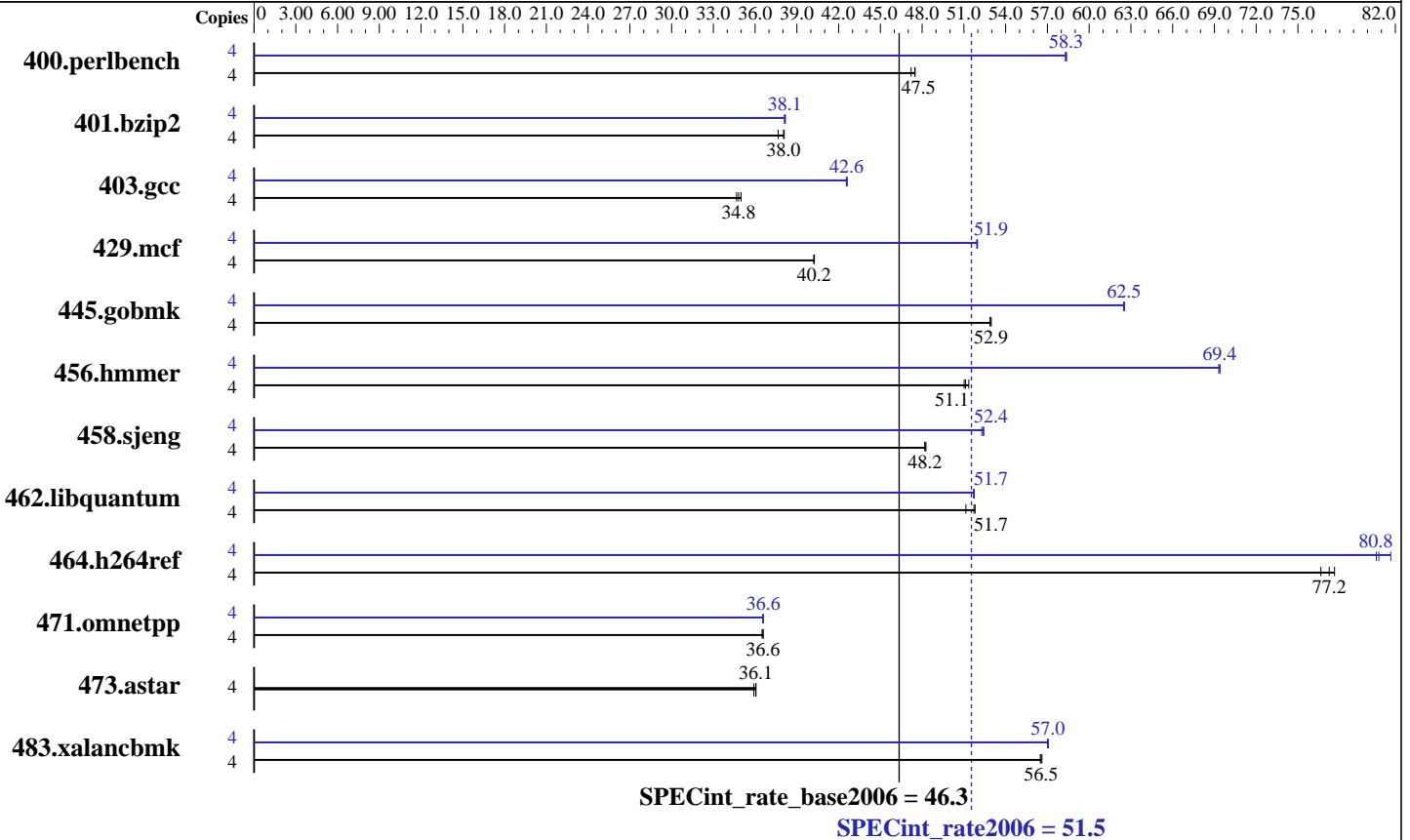
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Apr-2007

Hardware Availability: May-2007

Software Availability: Mar-2007



Hardware

CPU Name: AMD Opteron 2218
 CPU Characteristics: 2218
 CPU MHz: 2600
 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: 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 | 4 | 828 | 47.2 | 823 | 47.5 | 823 | 47.5 | 4 | 671 | 58.3 | 670 | 58.3 | 669 | 58.4 |
| 401.bzip2 | 4 | 1015 | 38.0 | 1013 | 38.1 | 1025 | 37.7 | 4 | 1013 | 38.1 | 1012 | 38.1 | 1011 | 38.2 |
| 403.gcc | 4 | 925 | 34.8 | 920 | 35.0 | 929 | 34.7 | 4 | 755 | 42.6 | 756 | 42.6 | 757 | 42.6 |
| 429.mcf | 4 | 906 | 40.3 | 907 | 40.2 | 907 | 40.2 | 4 | 702 | 52.0 | 703 | 51.9 | 702 | 51.9 |
| 445.gobmk | 4 | 792 | 53.0 | 793 | 52.9 | 793 | 52.9 | 4 | 671 | 62.5 | 671 | 62.5 | 672 | 62.5 |
| 456.hammer | 4 | 730 | 51.1 | 727 | 51.4 | 732 | 51.0 | 4 | 538 | 69.3 | 538 | 69.4 | 538 | 69.4 |
| 458.sjeng | 4 | 1003 | 48.3 | 1004 | 48.2 | 1004 | 48.2 | 4 | 924 | 52.4 | 926 | 52.3 | 923 | 52.4 |
| 462.libquantum | 4 | 1621 | 51.1 | 1600 | 51.8 | 1602 | 51.7 | 4 | 1603 | 51.7 | 1603 | 51.7 | 1602 | 51.7 |
| 464.h264ref | 4 | 1146 | 77.2 | 1155 | 76.6 | 1140 | 77.6 | 4 | 1098 | 80.6 | 1095 | 80.8 | 1084 | 81.7 |
| 471.omnetpp | 4 | 683 | 36.6 | 684 | 36.6 | 685 | 36.5 | 4 | 683 | 36.6 | 684 | 36.5 | 683 | 36.6 |
| 473.astar | 4 | 779 | 36.1 | 779 | 36.1 | 782 | 35.9 | 4 | 779 | 36.1 | 779 | 36.1 | 782 | 35.9 |
| 483.xalancbmk | 4 | 488 | 56.6 | 488 | 56.5 | 489 | 56.5 | 4 | 484 | 57.0 | 484 | 57.1 | 484 | 57.0 |

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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<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 -lsmartheap

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 -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.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 -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.20090714.10.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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For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 12:12:54 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 15 May 2007.