



SPEC® CINT2006 Result

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Fujitsu Siemens Computers

PRIMERGY RX330 S1, AMD Opteron 2222, 3.0 GHz

SPECint_rate2006 = 28.2

SPECint_rate_base2006 = 25.3

CPU2006 license: 22

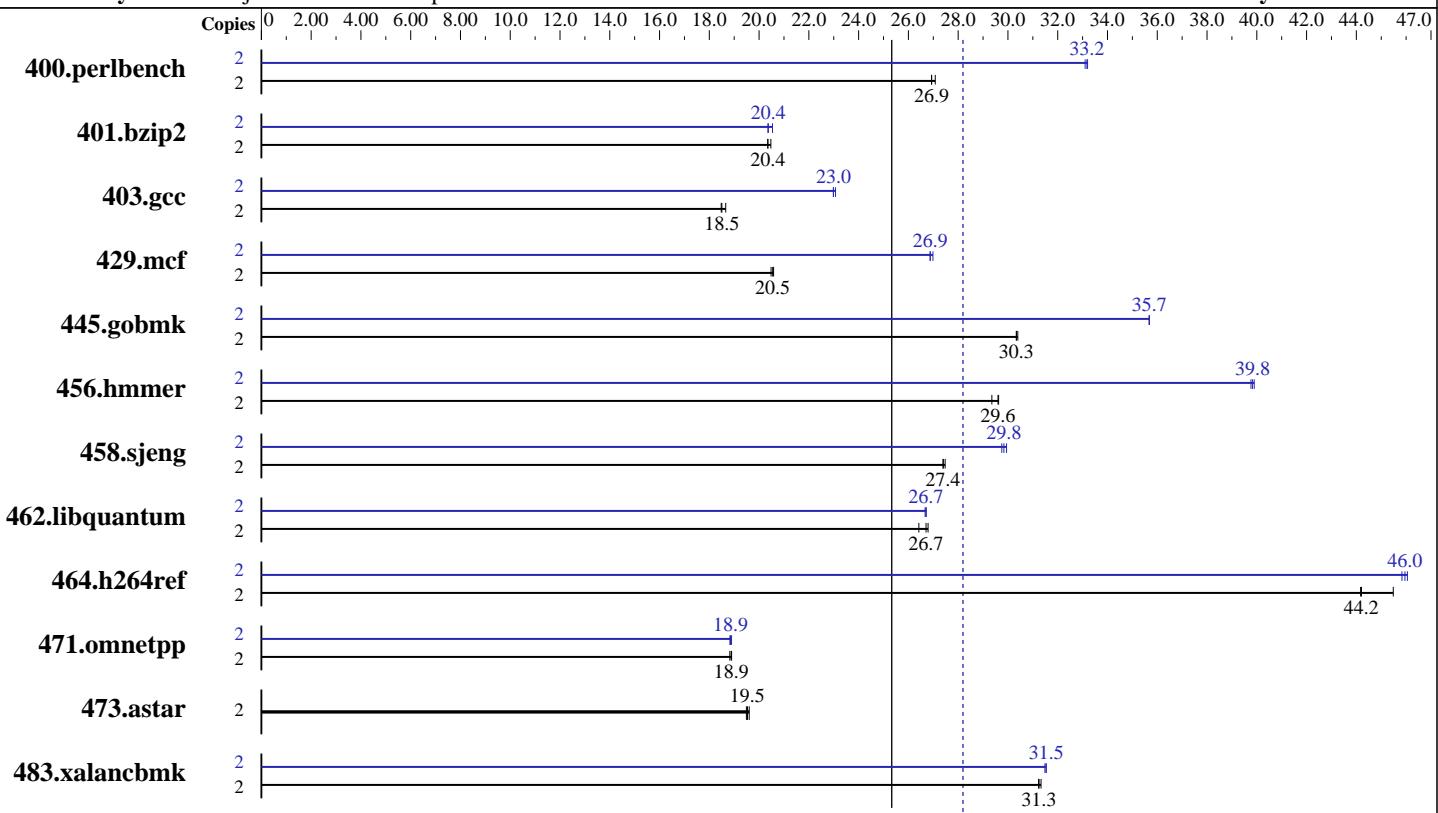
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Jun-2007

Hardware Availability: Aug-2007

Software Availability: Mar-2007



Hardware

CPU Name:	AMD Opteron 2222
CPU Characteristics:	2222
CPU MHz:	3000
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:	16 GB (8x2 GB DDR2 PC2-5300P, 2 rank, CAS 5-5-5, with ECC)
Disk Subsystem:	Seagate ST336754SS (SAS, 36GB, 15000rpm)
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	726	26.9	722	27.1	726	26.9	2	589	33.2	590	33.1	589	33.2
401.bzip2	2	948	20.4	943	20.5	949	20.3	2	940	20.5	948	20.4	947	20.4
403.gcc	2	863	18.7	871	18.5	870	18.5	2	700	23.0	701	23.0	698	23.1
429.mcf	2	886	20.6	888	20.5	891	20.5	2	676	27.0	679	26.9	679	26.9
445.gobmk	2	690	30.4	691	30.3	692	30.3	2	588	35.7	588	35.7	588	35.7
456.hammer	2	630	29.6	630	29.6	636	29.4	2	469	39.8	469	39.8	468	39.9
458.sjeng	2	883	27.4	883	27.4	881	27.5	2	813	29.8	808	29.9	811	29.8
462.libquantum	2	1569	26.4	1547	26.8	1552	26.7	2	1552	26.7	1551	26.7	1554	26.7
464.h264ref	2	1001	44.2	973	45.5	1002	44.2	2	966	45.8	963	46.0	961	46.1
471.omnetpp	2	662	18.9	662	18.9	664	18.8	2	662	18.9	664	18.8	663	18.9
473.astar	2	716	19.6	720	19.5	719	19.5	2	716	19.6	720	19.5	719	19.5
483.xalancbmk	2	440	31.3	442	31.2	442	31.3	2	438	31.5	438	31.5	438	31.5

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
'numactl' and 'taskset' have 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.hammer: -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.hammer: -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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Tested with SPEC CPU2006 v1.0.

Report generated on Tue Jul 22 13:20:29 2014 by SPEC CPU2006 PS/PDF formatter v6932.

Originally published on 24 July 2007.