SPEC® CINT2006 Result

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Supermicro
Motherboard H8DMR-82

SPECint®_rate2006 = NA

SPECint_rate_base2006 = NA

CPU2006 license: 001176
Test sponsor: Supermicro
Tested by: Supermicro

Test date: Sep-2007
Hardware Availability: Oct-2007
Software Availability: Oct-2007

SPEC has determined that this result was not in compliance with the SPEC CPU2006 run and reporting rules. Specifically, the processor vendor reported that the processor would not meet the SPEC OSG requirements for continued availability.

	Copies
400.perlbench	
401.bzip2	
403.gcc	
429.mcf	
445.gobmk	
456.hmmer	
458.sjeng	
462.libquantum	
464.h264ref	
471.omnetpp	
473.astar	
483.xalancbmk	

Not Available

Hardware

CPU Name:	AMD Opteron 2350
CPU Characteristics:	
CPU MHz:	2000
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	64 KB I + 64 KB D on chip per core
Secondary Cache:	512 KB I+D on chip per core
L3 Cache:	2 MB I+D on chip per chip
Other Cache:	None

Continued on next page

Software

Operating System:	SuSE Linux Enterprise Server 10 SP1 64-bit kernel
Compiler:	The Portland Group (PGI) PGI pgcc 7.1-0 C Compiler PGI pgCC 7.1-0 C++ Compiler PathScale Compiler Suite, Release 3.0
Auto Parallel:	No
File System:	ReiserFS
System State:	Multi-user, run level 2
Base Pointers:	32/64-bit
Peak Pointers:	32/64-bit

Continued on next page

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Memory:	32 GB (8x 4GB, PC5300 CL5 DDR2)	Other Software:	Smartheap 8.0 32-bit Library for Linux
Disk Subsystem:	1x SATA, 500 GB, 7200 RPM		
Other Hardware:	None		

Errors

Run of 429.mcf (base) was not valid; status is VE
Run of 429.mcf (peak) was not valid; status is VE

NotaAvailable

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Not Available

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
401.bzip2	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
403.gcc	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
429.mcf	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
445.gobmk	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
456.hmmer	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
458.sjeng	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
462.libquantum	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
464.h264ref	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
471.omnetpp	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
473.astar	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
483.xalancbmk	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA

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

Operating System Notes

```
Environment stack size set to 'unlimited'
PGI_HUGE_PAGES set to 896.
Total number of huge pages available is 7168.
```

Base Compiler Invocation

C benchmarks:
pgcc

C++ benchmarks:
pgcpp

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Not Available

Base Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X6
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_LP6 -DSPEC_CPU_LINUX
464.h264ref: -DSPEC_CPU_LP6
483.xalancbmk: -DSPEC_CPU_LINU

Base Optimization Flags

C benchmarks:
-fast -Mipa=fas Mipa=inline Mipa=noarg -Mfprelaxed
-Msmartalloc=hug 40 -tp barcelona-64 -Bstatic_pgi

C++ benchmarks:
-fastsse -M pa=f t -Mipa=inline -Mfprelaxed -Msmartalloc=huge:448
--zc_eh -t barce a -Bstatic_pgi

Base Other Flags

-w

C++ benchmarks:
-w

Peak Compiler Invocation

C benchmarks (except as noted below):
pgcc

Continued on next page

SPEC has determined that this result was not in compliance with the SPEC CPU2006 run and reporting rules. Specifically, the processor vendor reported that the processor would not meet the SPEC OSG requirements for continued availability.

Not Available

Peak Compiler Invocation (Continued)

400.perlbench: pathcc

403.gcc: pathcc

445.gobmk: pathcc

464.h264ref: pathcc

C++ benchmarks (except as noted below):
pgcpp

483.xalancbmk: 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
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: -Mpfi(pass 1) -Mpfo(pass 2) -fast -O4
-Msmartalloc=huge:448 -tp barcelona-64 -Bstatic_pgi

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

Continued on next page

SPEC has determined that this result was not in compliance with the SPEC CPU2006 run and reporting rules. Specifically, the processor vendor reported that the processor would not meet the SPEC OSG requirements for continued availability.

Not Available

Peak Optimization Flags (Continued)

429.mcf: -fastsse -Mipa=fast -Mipa=inline:1 -Msmartalloc=huge:420
-tp barcelona -Bstatic_pgi

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

456.hmmer: -fast -Msmartalloc=huge:448 -Mfprelaxed -Msafeptr
-Mipa=const -Mipa=fast -Mipa=arg -tp barcelona-64
-Bstatic_pgi

458.sjeng: -Mpfi(pass 1) -Mipa=fast(pass 2) -Mipa=inline:1(pass 2)
-Mipa=noarg(pass 2) -Mpfo(pass 2) -fast
-Msmartalloc=huge:448 -Mfprelaxed -tp barcelona-64
-Bstatic_pgi

462.libquantum: -fast -Mfprelaxed -Msmartalloc=huge:448 -Munroll=m:4
-Mipa=fast -Mipa=inline -Mipa=noarg -Bstatic_pgi

464.h264ref: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
-LPA:prefetch=20000 -OPT:alias=disjoint -LNO:prefetch=0

C++ benchmarks:

471.omnetpp: basepeak = yes

473.astar: basepeak = yes

483.xalancbmk: -O3 -fast -m32 -OPT:unroll_times_max=8
-L/cpu2006/work/cpu2006/SmartHeap -lsmartheap

Peak Other Flags

C benchmarks (except as noted below):
-W

400.perlbench: No flags used

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Peak Other Flags (Continued)

403.gcc: `No flags used`

445.gobmk: `No flags used`

464.h264ref: `No flags used`

C++ benchmarks (except as noted below):
`-w`

483.xalancbmk: `No flags used`

The flags file that was used to format this result can be browsed at
`http://www.spec.org/cpu2006/flags/amd814GH-flags.20090714.01.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/amd814GH-flags.20090714.01.xml`

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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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Not Available