



SPEC® CINT2006 Result

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Supermicro
Motherboard H8DM3-2

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.ast | |
| 483.xalancbmk | |

Not Available

Hardware

CPU Name: AMD Opteron 2350
CPU Characteristic: 2000
CPU MHz: Integrated
FPU: Integrated
CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
CPU(s) orderable: 1 to 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

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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 3
Base Pointers: 32/64-bit
Peak Pointers: 32/64-bit

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Memory: 16 GB (8x 2GB, PC2-5300 CL5 DDR2)
Disk Subsystem: 1x SATA, 500 GB, 7200 RPM
Other Hardware: None

Other Software: glibc (Heap 8.0 32-bit Library for Linux)

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

'sysctl' was used to set environment locked pages in memory quantity
'numactl' was used to bind copies to the cores
Set 'num/nr_hugepages=1200' in /etc/sysctl.conf
mount -t hugetlbfs nodev /mnt/hugepages

General Notes

Product description located as of
<http://www.supermicro.com/Aplus/motherboard/Opteron2000/MCP55/H8DM3-2.cfm>



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Base Compiler Invocation

C benchmarks:

pgcc

C++ benchmarks:

pgcpp

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.hmmmer: -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:

-fast -Mipa=fast -Mipa=inline -Mipa=noarg -Mfprelaxed
-Mhuge:840 -tp barcelona-64 -Bstatic_pgi

C++ benchmarks:

-fastsse -Mipa=fast -Mipa=inline -Mfprelaxed -Msmartalloc=huge:448
--zsh -tp barcelona -Bstatic_pgi

Base Other Flags

C benchmarks:

-w

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Base Other Flags (Continued)

C++ benchmarks:
-w

Peak Compiler Invocation

C benchmarks (except as noted below):

pgcc
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

SPEC_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



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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
-Msmartalloc=huge:448 -tp barcelona-64 -Bstatic_pgi

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

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:simd=0 -LNO:minvariant=off
-WOPT:ctype_expr=on

456.hmmr: -fast -Msmartalloc=huge:448 -Mfprelaxed -Msafeptr
-Mipconservative -Mipa=ptr -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

459.gcc: -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
-IPA:plimit=20000 -OPT:alias=disjoint -LNO:prefetch=0

C++ benchmarks:

471.omnetpp: basepeak = yes

473.astar: basepeak = yes

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Peak Optimization Flags (Continued)

483.xalancbmk: -Ofast -m32 -OPT:unroll_times_max=8
-L/cpu2006/work/cpu2006/SmartHeap -lsmatcheap

Peak Other Flags

C benchmarks (except as noted below):

-w

400.perlbench: No flags used

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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Not Available

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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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