



SPEC® CINT2006 Result

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ASUS Computer International

(Test Sponsor: Advanced Micro Devices)

SPECint®_rate2006 - NA

ASUS KFSN4-DRE, AMD Opteron 2350

SPECint_rate_base2006 - NA

CPU2006 license: 49

Test sponsor: Advanced Micro Devices

Tested by: Advanced Micro Devices

Test date: Aug-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 submitter reported that the result 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, 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
 QLogic PathScale Compiler Suite
 PathScale pathcc 3.0 C Compiler
 PathScale pathCC 3.0 C++ Compiler
 Auto Parallel: No
 File System: ReiserFS
 System State: Multi-user, run level 3

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Memory: 16 GB (8x2GB, DDR2-667 CL5 ECC Reg Dual Rank)
Disk Subsystem: SATA, 250 GB, 7200 RPM
Other Hardware: None

Base Processor: 32-bit
Peak Pointers: 32/64-bit
Other Software: SmartHeap 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

'ulimit -l 2457600' was used to set environment stack size
'ulimit -l 2457600' was used to set environment locked pages in memory quantity
'numactl' was used to bind copies to the cores
Set vi/nr_hugepages=1200 in /etc/sysctl.conf
mount -t hugetlbfs nodev /mnt/hugepages
Environment variable PGI_HUGE_PAGES set to 150

General Notes

The tested system can be assembled using a TRUE550 550W ATX12V power supply.



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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
-mchuge:840 -tp barcelona-64 -Bstatic_pgi

C++ benchmarks:

-fastsse -Mipa=fast -Mipa=inline -Mfprelaxed -Msmartialloc=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

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



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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:alias_type_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.gobmk: -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 -lsmarthheap

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.html>

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

<http://www.spec.org/cpu2006/flags/amd814GH-flags.20090714.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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