



SPEC® CINT2006 Result

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ASUS Computer International
(Test Sponsor: Advanced Micro Devices)

ASUS KFSN4-DRE, AMD Opteron 2360 SE

~~SPECint_rate2006 = 10~~

~~SPECint_rate_base2006 = NC~~

CPU2006 license: 49

Test sponsor: Advanced Micro Devices

Tested by: Advanced Micro Devices

Test date: Sep-2007

Hardware Availability: Dec-2007

Software Availability: Nov-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 3 month availability requirement in the SPEC CPU2006 run rules due to a change in the availability date of the processor.

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

	Hardware	Software
CPU Name:	AMD Opteron 2360 SE	Red Hat Enterprise Linux AS Release 5 Update 1 64-bit kernel
CPU Characteristics:		The Portland Group (PGI) PGI pgcc 7.1-0 C Compiler
CPU MHz:	2500	PGI pgCC 7.1-0 C++ Compiler
FPU:	Integrated	The PathScale Compiler v3.0
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip	PathScale pathcc 3.0 C Compiler
CPU(s) orderable:	2 chips	PathScale pathCC 3.0 C++ Compiler
Primary Cache:	64 KB I + 64 KB D on chip per core	

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Secondary Cache:	512 KB I+D on chip per core	Auto Parallel:	No
L3 Cache:	2 MB I+D on chip per chip	File System:	ext3
Other Cache:	None	System State:	Multi-user, run level 3
Memory:	16 GB (8x2GB, DDR2-667 CL5 Reg Dual Rank)	Base Timers:	32/64-bit
Disk Subsystem:	1x250GB SATA, 7200 RPM	Peak Powers:	32/64-bit
Other Hardware:	None	Other Software:	SmartHeap 8.0 32-bit Library for Linux

Result Table

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

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

Operating System Notes

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



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General Notes

The test system can be assembled using an Antec TRUE550 550W 12V power supply.

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
56.hmmem: -DSPEC_CPU_LP64
58.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
464.h264ref: -DSPEC_CPU_LP64
492.wrf: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:
 -fast -Mipa=fast -Mipa=inline -Mipa=noarg -Mfprelaxed
 -Msmartralloc=huge:840 -tp barcelona-64 -Bstatic_pgi

C++ benchmarks:
 -fastsse -Mipa=fast -Mipa=inline -Mfprelaxed -Msmartralloc=huge:448
 --zc_eh -tp barcelona -Bstatic_pgi



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Base Other Flags

C benchmarks:
-w

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):
pgc++

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

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Peak Portability Flags (Continued)

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

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

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

45.gobmk: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
-OPT:alias=disjoint -LNO:simd=0 -LNO:minvariant=off
-Wc1:retype_expr=on

-fast -Msmartralloc=huge:448 -Mfprelaxed -Msafeptr
-Mipa=const -Mipa=ptr -Mipa=arg -tp barcelona-64
-Bstatic_pgi

470.jeng: -Mpfi(pass 1) -Mipa=fast(pass 2) -Mipa=inline:1(pass 2)
-Mipa=noarg(pass 2) -Mpfo(pass 2) -fast
-Msmartralloc=huge:448 -Mfprelaxed -tp barcelona-64
-Bstatic_pgi

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

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Peak Optimization Flags (Continued)

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

483.xalancbmk: -Ofast -m32 -O3 -funroll-loops_max=8
-L/cpu2006/work/ -Lcpu2006/SmartHeap -lsmartheap

Peak Other Flags

C benchmarks (except as noted below):
-w

400.perlbench: No flags used

403.gcc: No flags used

445.gdbmk: No flags used

450.sjeng: 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>



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

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