



SPEC® CINT2006 Result

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IWILL Corporation

SPECint®2006 = 12.5

IWILL DK8-HTX motherboard, AMD Opteron 254

SPECint_base2006 = 11.1

CPU2006 license: 2323

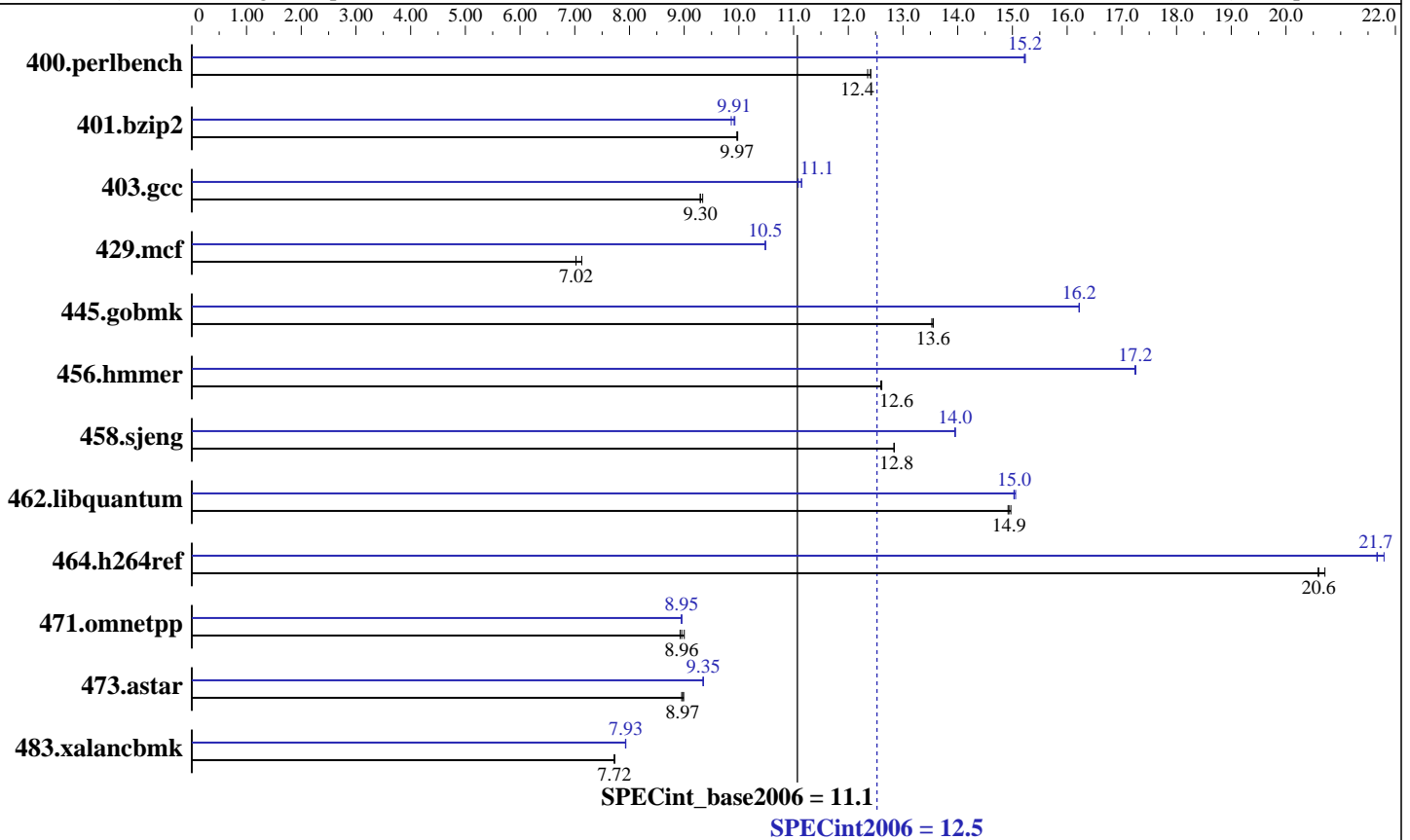
Test sponsor: QLogic [formerly PathScale]

Tested by: QLogic Corporation

Test date: Apr-2006

Hardware Availability: Oct-2005

Software Availability: Apr-2006



Hardware

CPU Name: AMD Opteron 254
 CPU Characteristics:
 CPU MHz: 2800
 FPU: Integrated
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip
 CPU(s) orderable: 1,2 chips
 Primary Cache: 64 KB I + 64 KB D on chip per chip
 Secondary Cache: 1 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 8 GB (8x1024 MB, DDR400, CL3)
 Disk Subsystem: IDE, 80 GB
 Other Hardware: None

Software

Operating System: SuSE Linux 9.3, 64-bit kernel 2.6.11.4-20a-smp
 Compiler: QLogic PathScale
 Compiler Suite, Release 2.4
 Auto Parallel: No
 File System: ext3
 System State: Multi-user, run level 3
 Base Pointers: 32/64-bit
 Peak Pointers: 32/64-bit
 Other Software: None



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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	787	12.4	787	12.4	791	12.4	641	15.2	641	15.2	642	15.2
401.bzip2	967	9.98	968	9.97	968	9.97	979	9.86	972	9.93	974	9.91
403.gcc	862	9.34	866	9.29	866	9.30	726	11.1	722	11.1	722	11.1
429.mcf	1280	7.13	1299	7.02	1299	7.02	870	10.5	870	10.5	870	10.5
445.gobmk	774	13.6	774	13.6	775	13.5	647	16.2	647	16.2	647	16.2
456.hmmr	740	12.6	741	12.6	740	12.6	541	17.2	541	17.2	541	17.3
458.sjeng	943	12.8	942	12.8	943	12.8	867	14.0	867	14.0	867	13.9
462.libquantum	1384	15.0	1387	14.9	1389	14.9	1376	15.1	1379	15.0	1378	15.0
464.h264ref	1074	20.6	1075	20.6	1068	20.7	1021	21.7	1022	21.7	1015	21.8
471.omnetpp	694	9.00	698	8.96	700	8.93	698	8.95	698	8.95	698	8.95
473.astar	781	8.99	782	8.97	784	8.95	751	9.35	751	9.34	751	9.35
483.xalancbmk	893	7.73	893	7.72	893	7.72	870	7.93	870	7.93	870	7.93

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

General Notes

Tested by QLogic Corporation

submit = taskset -c 1 \$command

taskset utility used to bind CPU(s) to processes

The tested system can be assembled using a standard ATX case and a Silverstone Zeus 650 watt ST65ZF ATX 12V Power Supply.

The particular system tested was custom-built by Verari Systems.

AMI BIOS: DK8S-HT/78105 BIOS Version:PATHV180 Date:07/19/2005

Base Compiler Invocation

C benchmarks:

pathcc

C++ benchmarks:

pathCC

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

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Base Portability Flags (Continued)

456.hmmr: -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

C++ benchmarks:
-Ofast -m32

Peak Compiler Invocation

Same as Base Compiler Invocation

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
401.bzip2: -DSPEC_CPU_LP64
429.mcf: -DSPEC_CPU_LP64
445.gobmk: -DSPEC_CPU_LP64
456.hmmr: -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
-IPA:plimit=525 -IPA:pu_reorder=1

401.bzip2: -O3 -LNO:ou_prod_max=10

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

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Peak Optimization Flags (Continued)

429.mcf: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -m32 -O2
-ipa

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 -WOPT:aggstr=0 -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 -IPA:pu_reorder=2 -CG:gcm=off -m32

473.astar: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -Ofast

483.xalancbmk: -Ofast -m32 -OPT:unroll_times_max=8

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.05.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.05.xml

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For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v91.
Report generated on Wed Jul 15 11:23:38 2009 by SPEC CPU2006 PS/PDF formatter v6323.