



SPEC® CINT2006 Result

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Hewlett-Packard Company

SPECint®_rate2006 = 46.9

ProLiant DL585 (AMD Opteron 854)

SPECint_rate_base2006 = 41.4

CPU2006 license: 3

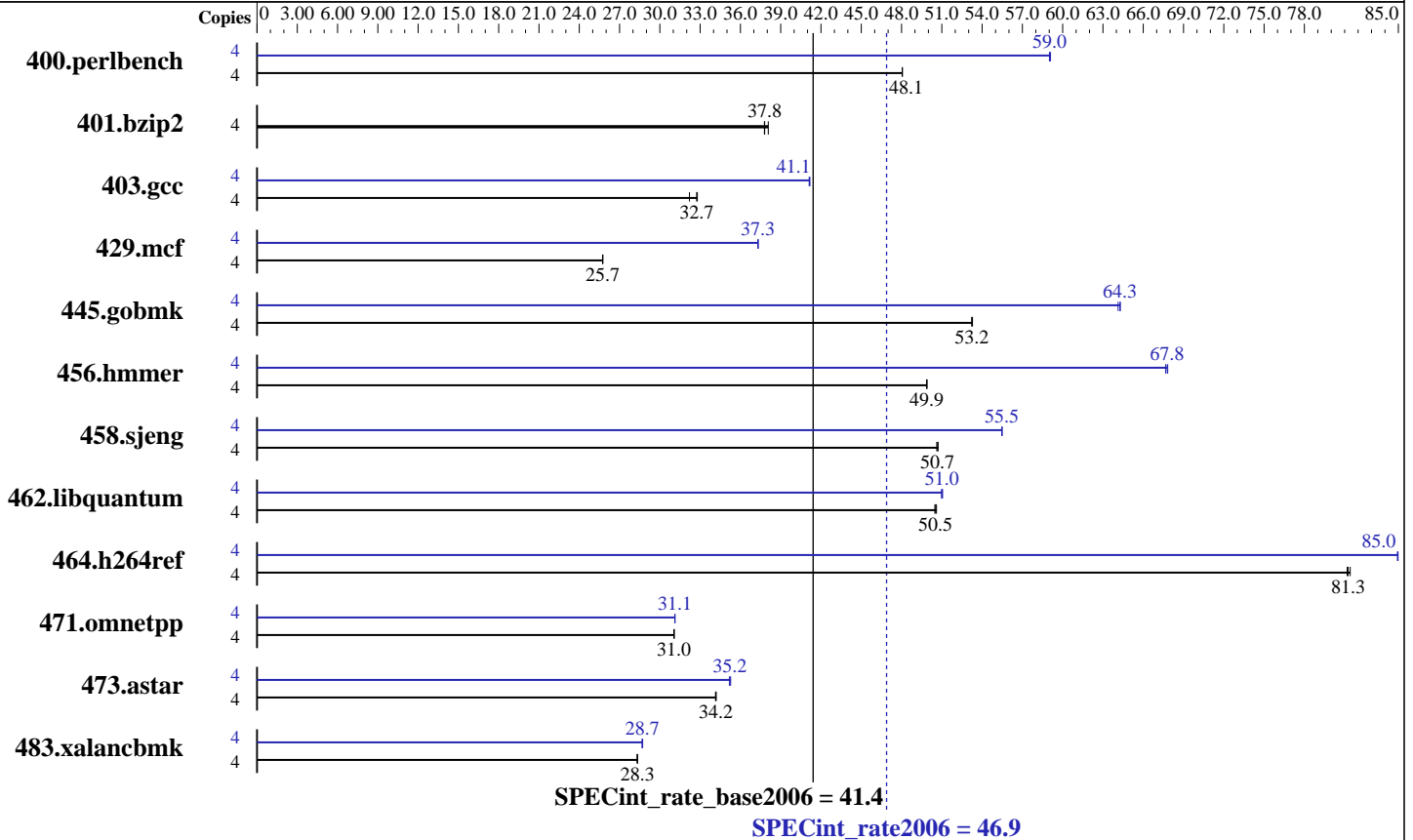
Test sponsor: Hewlett-Packard Company

Tested by: Hewlett-Packard Company

Test date: Apr-2006

Hardware Availability: Oct-2005

Software Availability: Mar-2006



Hardware

CPU Name: AMD Opteron 854
 CPU Characteristics: 2.8GHz, 1MB L2 cache
 CPU MHz: 2800
 FPU: Integrated
 CPU(s) enabled: 4 cores, 4 chips, 1 core/chip
 CPU(s) orderable: 2,4 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: 32 GB (16x2048 MB PC3200 CL3.0)
 Disk Subsystem: 1x146GB 10K Ultra320 SCSI
 Other Hardware: None

Software

Operating System: SuSE Linux Enterprise Server 9 (x86_64) SP 3
 SuSE kernel 2.6.5-7.244-smp
 PathScale EKO Compiler Suite, Release 2.4
 Compiler: PathScale EKO Compiler Suite, Release 2.4
 Auto Parallel: No
 File System: ext2
 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							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	4	813	48.1	813	48.1	813	48.1	4	662	59.0	661	59.1	662	59.0
401.bzip2	4	1021	37.8	1014	38.1	1021	37.8	4	1021	37.8	1014	38.1	1021	37.8
403.gcc	4	982	32.8	984	32.7	1000	32.2	4	783	41.1	782	41.2	783	41.1
429.mcf	4	1417	25.8	1417	25.7	1417	25.7	4	978	37.3	977	37.3	978	37.3
445.gobmk	4	787	53.3	788	53.2	788	53.2	4	653	64.3	653	64.3	654	64.1
456.hmmer	4	748	49.9	748	49.9	748	49.9	4	552	67.7	551	67.8	550	67.8
458.sjeng	4	954	50.7	955	50.7	956	50.6	4	872	55.5	872	55.5	872	55.5
462.libquantum	4	1642	50.5	1638	50.6	1640	50.5	4	1626	51.0	1624	51.0	1623	51.1
464.h264ref	4	1087	81.4	1090	81.2	1089	81.3	4	1042	85.0	1042	85.0	1042	84.9
471.omnetpp	4	805	31.0	805	31.0	804	31.1	4	803	31.1	803	31.1	803	31.1
473.astar	4	822	34.1	821	34.2	821	34.2	4	798	35.2	796	35.3	797	35.2
483.xalancbmk	4	974	28.3	974	28.3	975	28.3	4	962	28.7	961	28.7	962	28.7

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

General Notes

BIOS Configuration Notes
 Node Interleaving Disabled
 Other Configuration Notes
 Taskset utility used to bind process to CPU(s)

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
 456.hmmer: -DSPEC_CPU_LP64
 458.sjeng: -DSPEC_CPU_LP64

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Base Portability Flags (Continued)

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

C benchmarks:
pathcc

C++ benchmarks:
pathCC

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.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
-IPA:plimit=525 -IPA:pu_reorder=1

401.bzip2: basepeak = yes

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Peak Optimization Flags (Continued)

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

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.20090715.04.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.04.xml

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

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