



SPEC® CINT2006 Result

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Hewlett-Packard Company

SPECint®2006 = 12.7

ProLiant DL585 (AMD Opteron 854)

SPECint_base2006 = 11.2

CPU2006 license: 3

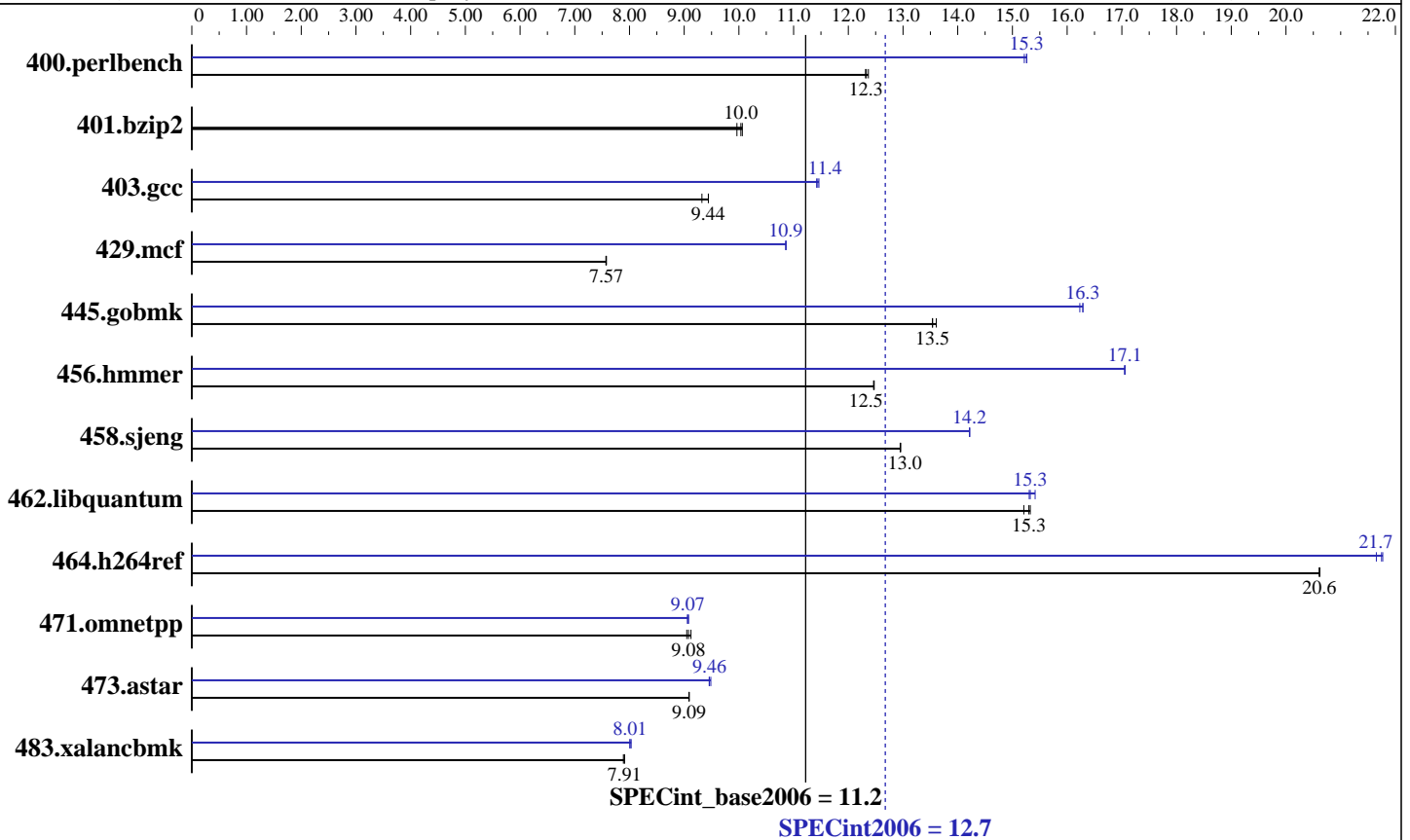
Test sponsor: Hewlett-Packard Company

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: 2 cores, 2 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: 16 GB (8x2048 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	790	12.4	<u>792</u>	<u>12.3</u>	793	12.3	642	15.2	640	15.3	<u>640</u>	<u>15.3</u>
401.bzip2	959	10.1	<u>962</u>	<u>10.0</u>	968	9.96	959	10.1	<u>962</u>	<u>10.0</u>	968	9.96
403.gcc	853	9.44	<u>853</u>	<u>9.44</u>	863	9.32	705	11.4	702	11.5	<u>704</u>	<u>11.4</u>
429.mcf	1203	7.58	1205	7.57	<u>1204</u>	<u>7.57</u>	<u>840</u>	<u>10.9</u>	840	10.9	840	10.9
445.gobmk	771	13.6	<u>775</u>	<u>13.5</u>	775	13.5	646	16.2	644	16.3	<u>644</u>	<u>16.3</u>
456.hmmer	748	12.5	749	12.5	<u>748</u>	<u>12.5</u>	547	17.1	547	17.0	<u>547</u>	<u>17.1</u>
458.sjeng	934	13.0	<u>934</u>	<u>13.0</u>	935	12.9	851	14.2	851	14.2	<u>851</u>	<u>14.2</u>
462.libquantum	1352	15.3	<u>1354</u>	<u>15.3</u>	1362	15.2	1354	15.3	1344	15.4	<u>1352</u>	<u>15.3</u>
464.h264ref	<u>1074</u>	<u>20.6</u>	1073	20.6	1074	20.6	1022	21.7	1017	21.8	<u>1018</u>	<u>21.7</u>
471.omnetpp	685	9.12	<u>688</u>	<u>9.08</u>	691	9.05	690	9.06	688	9.08	<u>689</u>	<u>9.07</u>
473.astar	772	9.09	773	9.09	<u>772</u>	<u>9.09</u>	740	9.49	<u>742</u>	<u>9.46</u>	742	9.46
483.xalancbmk	872	7.91	<u>873</u>	<u>7.91</u>	875	7.89	862	8.01	859	8.03	<u>861</u>	<u>8.01</u>

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
 462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX

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Base Portability Flags (Continued)

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

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.20090715.04.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.

Tested with SPEC CPU2006 v91.
Report generated on Tue Jul 22 10:01:43 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 24 August 2006.