



SPEC® CINT2006 Result

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Hewlett-Packard Company

SPECint®2006 = 12.4

ProLiant DL385 (AMD Opteron 254)

SPECint_base2006 = 11.1

CPU2006 license: 3

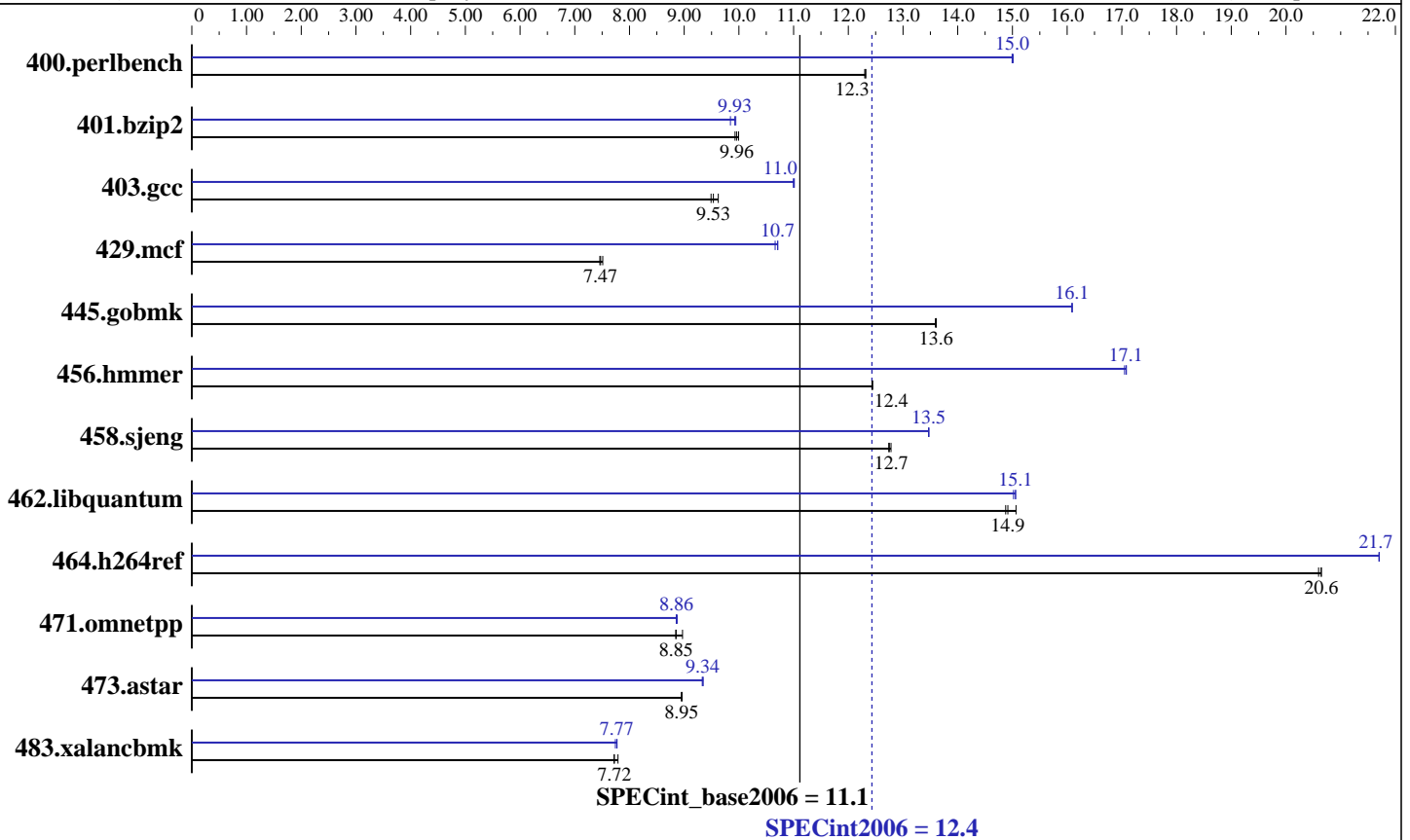
Test sponsor: Hewlett-Packard Company

Tested by: Hewlett-Packard Company

Test date: Apr-2006

Hardware Availability: Oct-2005

Software Availability: Apr-2006



Hardware

CPU Name: AMD Opteron 254
 CPU Characteristics: 2.8GHz, 1MB L2 cache
 CPU MHz: 2800
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 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 (4x2048 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
 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	793	12.3	794	12.3	<u>793</u>	<u>12.3</u>	652	15.0	<u>651</u>	<u>15.0</u>	651	15.0
401.bzip2	<u>969</u>	<u>9.96</u>	965	9.99	972	9.93	<u>972</u>	<u>9.93</u>	970	9.94	980	9.85
403.gcc	837	9.62	<u>844</u>	<u>9.53</u>	848	9.49	<u>732</u>	<u>11.0</u>	731	11.0	732	11.0
429.mcf	1214	7.51	<u>1220</u>	<u>7.47</u>	1223	7.46	855	10.7	852	10.7	<u>852</u>	<u>10.7</u>
445.gobmk	772	13.6	<u>771</u>	<u>13.6</u>	771	13.6	652	16.1	652	16.1	<u>652</u>	<u>16.1</u>
456.hmmer	750	12.4	<u>750</u>	<u>12.4</u>	750	12.4	547	17.0	546	17.1	<u>546</u>	<u>17.1</u>
458.sjeng	947	12.8	<u>949</u>	<u>12.7</u>	950	12.7	899	13.5	<u>898</u>	<u>13.5</u>	898	13.5
462.libquantum	1375	15.1	1393	14.9	<u>1389</u>	<u>14.9</u>	1376	15.1	<u>1376</u>	<u>15.1</u>	1380	15.0
464.h264ref	1074	20.6	1072	20.6	<u>1072</u>	<u>20.6</u>	1020	21.7	1020	21.7	<u>1020</u>	<u>21.7</u>
471.omnetpp	697	8.97	<u>706</u>	<u>8.85</u>	707	8.85	<u>706</u>	<u>8.86</u>	704	8.87	706	8.85
473.astar	783	8.96	784	8.95	<u>784</u>	<u>8.95</u>	751	9.35	<u>752</u>	<u>9.34</u>	752	9.33
483.xalancbmk	886	7.79	894	7.72	<u>893</u>	<u>7.72</u>	891	7.74	<u>888</u>	<u>7.77</u>	888	7.77

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.xalanbmk: -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.hmmer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
464.h264ref: -DSPEC_CPU_LP64
483.xalanbmk: -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: -m32 -O3 -OPT:Ofast

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

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Peak Optimization Flags (Continued)

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

456.hmmer: -O2 -OPT:alias=disjoint -WOPT:aggstr=0 -CG:cflow=0

458.sjeng: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
-IPA:callee_limit=5000 -IPA:linear=on

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

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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Tested with SPEC CPU2006 v91.

Report generated on Wed Jul 15 11:22:55 2009 by SPEC CPU2006 PS/PDF formatter v6323.