SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Hewlett-Packard Company

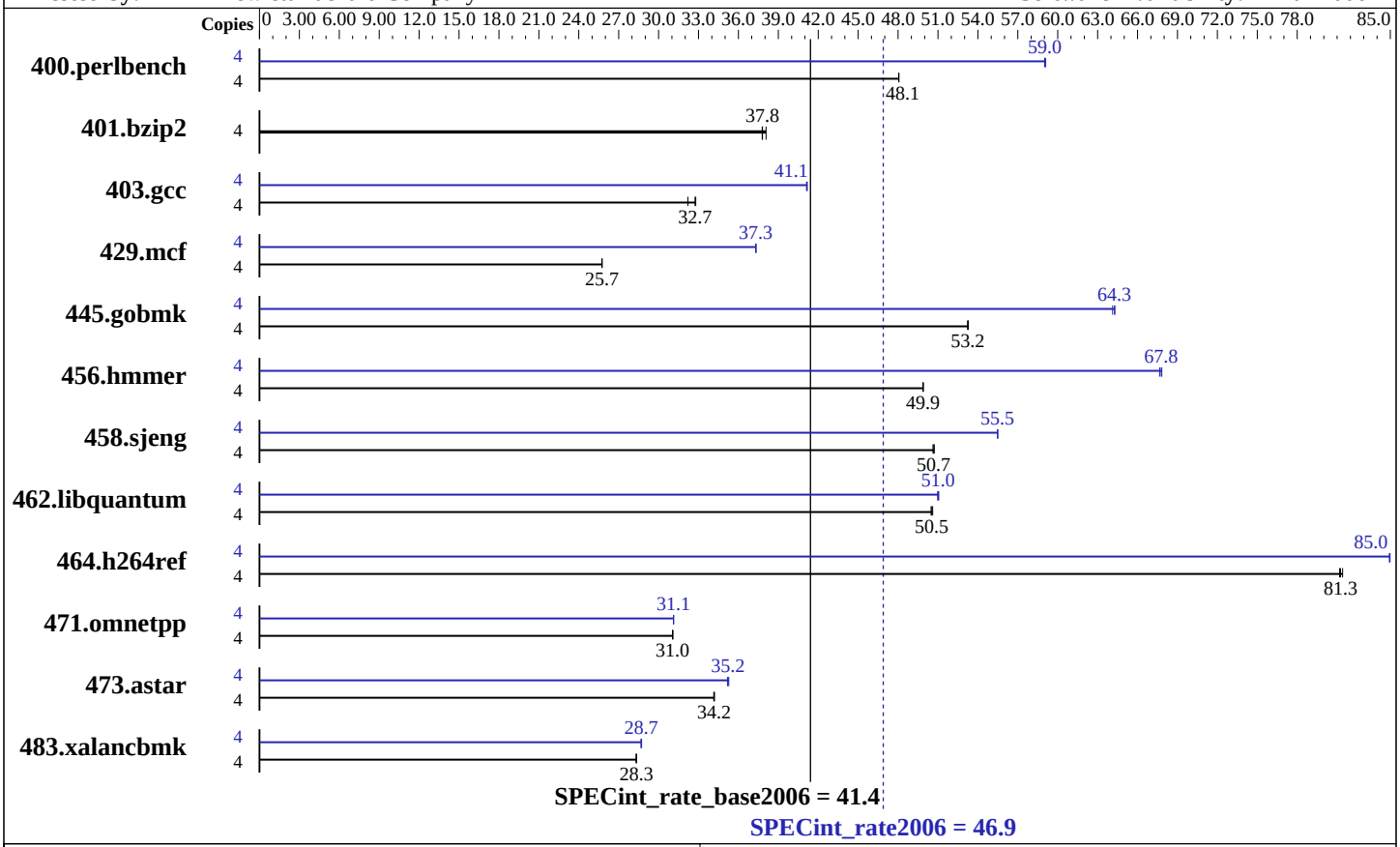
ProLiant DL585 (AMD Opteron 854)

SPECint®_rate2006 = 46.9

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
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

SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Hewlett-Packard Company

ProLiant DL585 (AMD Opteron 854)

SPECint_rate2006 = 46.9

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

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`

Continued on next page

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

Continued on next page

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.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: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`

SPEC and SPECint are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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

Tested with SPEC CPU2006 v91.
Report generated on Tue Jul 22 09:59:13 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 24 August 2006.