SPEC® CINT2006 Result

Hewlett-Packard Company

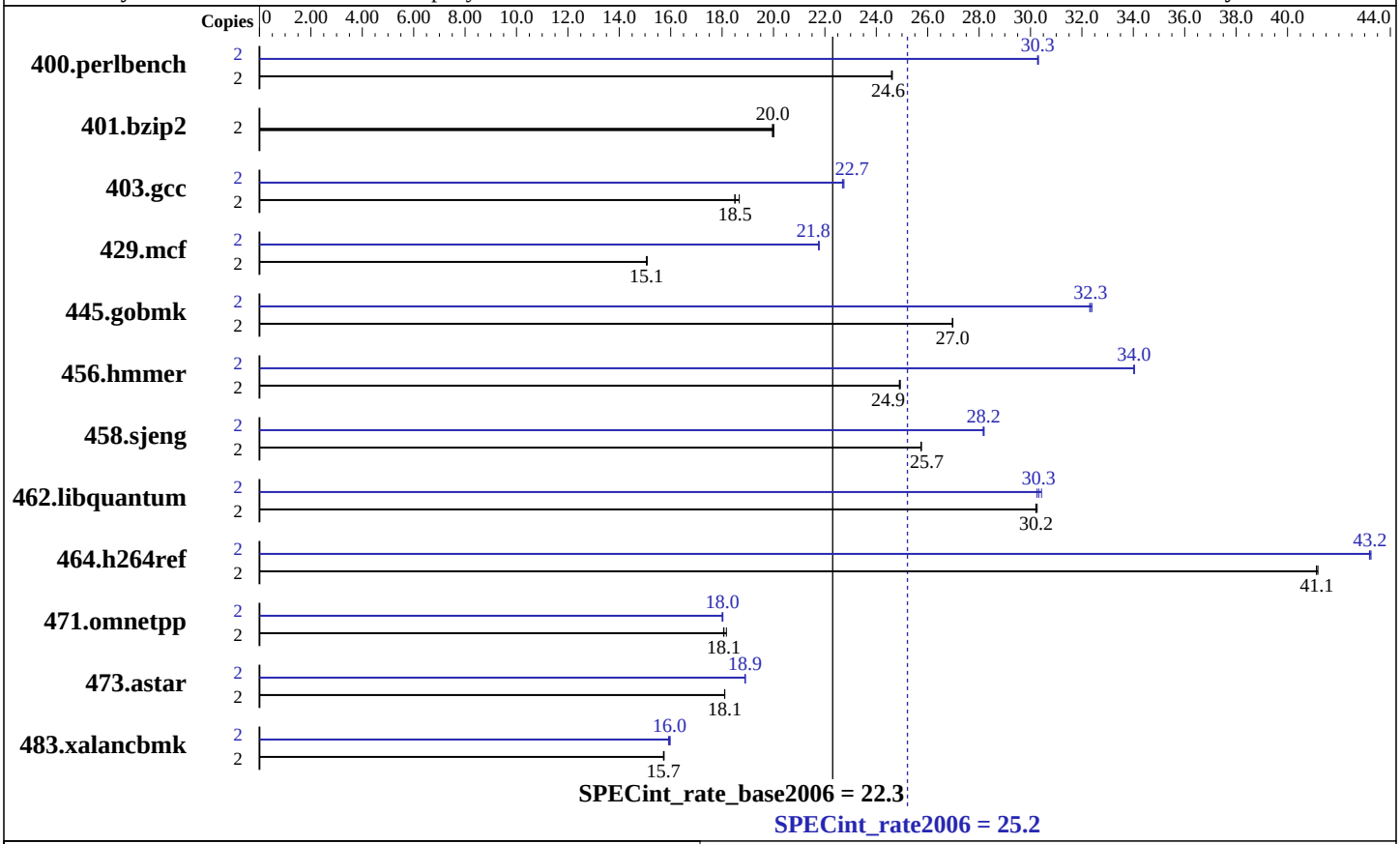
ProLiant DL585 (AMD Opteron 854)

SPECint®_rate2006 = 25.2

SPECint_rate_base2006 = 22.3

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
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	2	794	24.6	**794**	**24.6**	795	24.6	2	**645**	**30.3**	645	30.3	645	30.3
401.bzip2	2	**966**	**20.0**	964	20.0	967	20.0	2	**966**	**20.0**	964	20.0	967	20.0
403.gcc	2	**870**	**18.5**	862	18.7	871	18.5	2	710	22.7	708	22.7	**709**	**22.7**
429.mcf	2	1209	15.1	1211	15.1	**1211**	**15.1**	2	838	21.8	838	21.8	**838**	**21.8**
445.gobmk	2	778	27.0	**778**	**27.0**	778	27.0	2	649	32.3	648	32.4	**649**	**32.3**
456.hmmer	2	748	24.9	750	24.9	**749**	**24.9**	2	**548**	**34.0**	548	34.0	548	34.0
458.sjeng	2	940	25.8	940	25.7	**940**	**25.7**	2	859	28.2	858	28.2	**859**	**28.2**
462.libquantum	2	1372	30.2	**1371**	**30.2**	1370	30.3	2	**1367**	**30.3**	1362	30.4	1370	30.3
464.h264ref	2	1075	41.2	1076	41.1	**1076**	**41.1**	2	1023	43.2	1025	43.2	**1024**	**43.2**
471.omnetpp	2	688	18.2	**692**	**18.1**	692	18.1	2	**694**	**18.0**	693	18.0	694	18.0
473.astar	2	775	18.1	**776**	**18.1**	776	18.1	2	743	18.9	**743**	**18.9**	743	18.9
483.xalancbmk	2	**878**	**15.7**	878	15.7	877	15.7	2	864	16.0	867	15.9	**865**	**16.0**

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.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`

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

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