SPEC® CINT2006 Result

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Hewlett-Packard Company

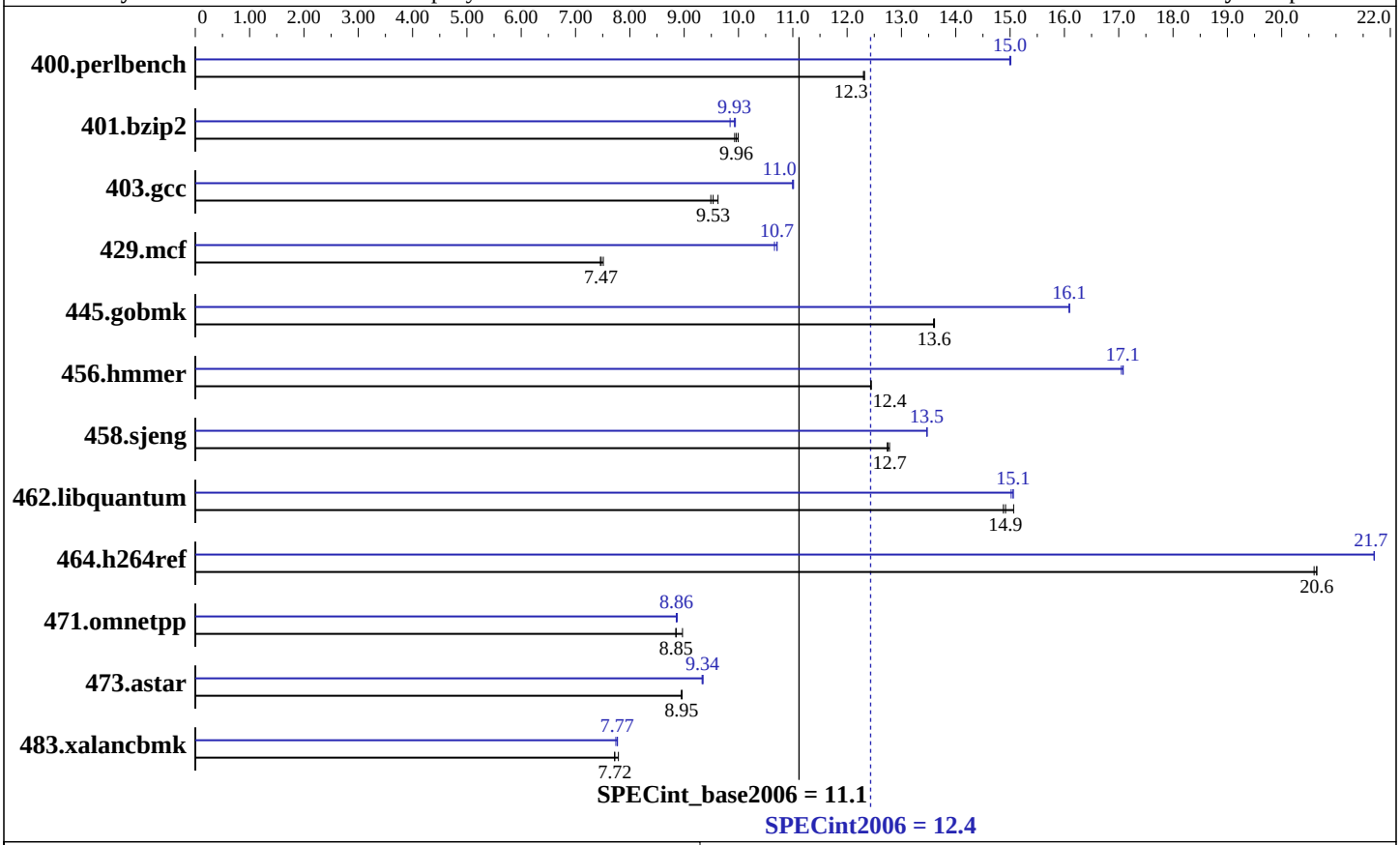
ProLiant DL385 (AMD Opteron 254)

SPECint®2006 = 12.4

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	**793**	**12.3**	652	15.0	**651**	**15.0**	651	15.0
401.bzip2	**969**	**9.96**	965	9.99	972	9.93	**972**	**9.93**	970	9.94	980	9.85
403.gcc	837	9.62	**844**	**9.53**	848	9.49	**732**	**11.0**	731	11.0	732	11.0
429.mcf	1214	7.51	**1220**	**7.47**	1223	7.46	855	10.7	852	10.7	**852**	**10.7**
445.gobmk	772	13.6	**771**	**13.6**	771	13.6	652	16.1	652	16.1	**652**	**16.1**
456.hmmer	750	12.4	**750**	**12.4**	750	12.4	547	17.0	546	17.1	**546**	**17.1**
458.sjeng	947	12.8	**949**	**12.7**	950	12.7	899	13.5	**898**	**13.5**	898	13.5
462.libquantum	1375	15.1	1393	14.9	**1389**	**14.9**	1376	15.1	**1376**	**15.1**	1380	15.0
464.h264ref	1074	20.6	1072	20.6	**1072**	**20.6**	1020	21.7	1020	21.7	**1020**	**21.7**
471.omnetpp	697	8.97	**706**	**8.85**	707	8.85	**706**	**8.86**	704	8.87	706	8.85
473.astar	783	8.96	784	8.95	**784**	**8.95**	751	9.35	**752**	**9.34**	752	9.33
483.xalancbmk	886	7.79	894	7.72	**893**	**7.72**	891	7.74	**888**	**7.77**	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.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: `-O3 -LNO:ou_prod_max=10`

403.gcc: `-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`

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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