SPEC® CINT2006 Result

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Hewlett-Packard Company

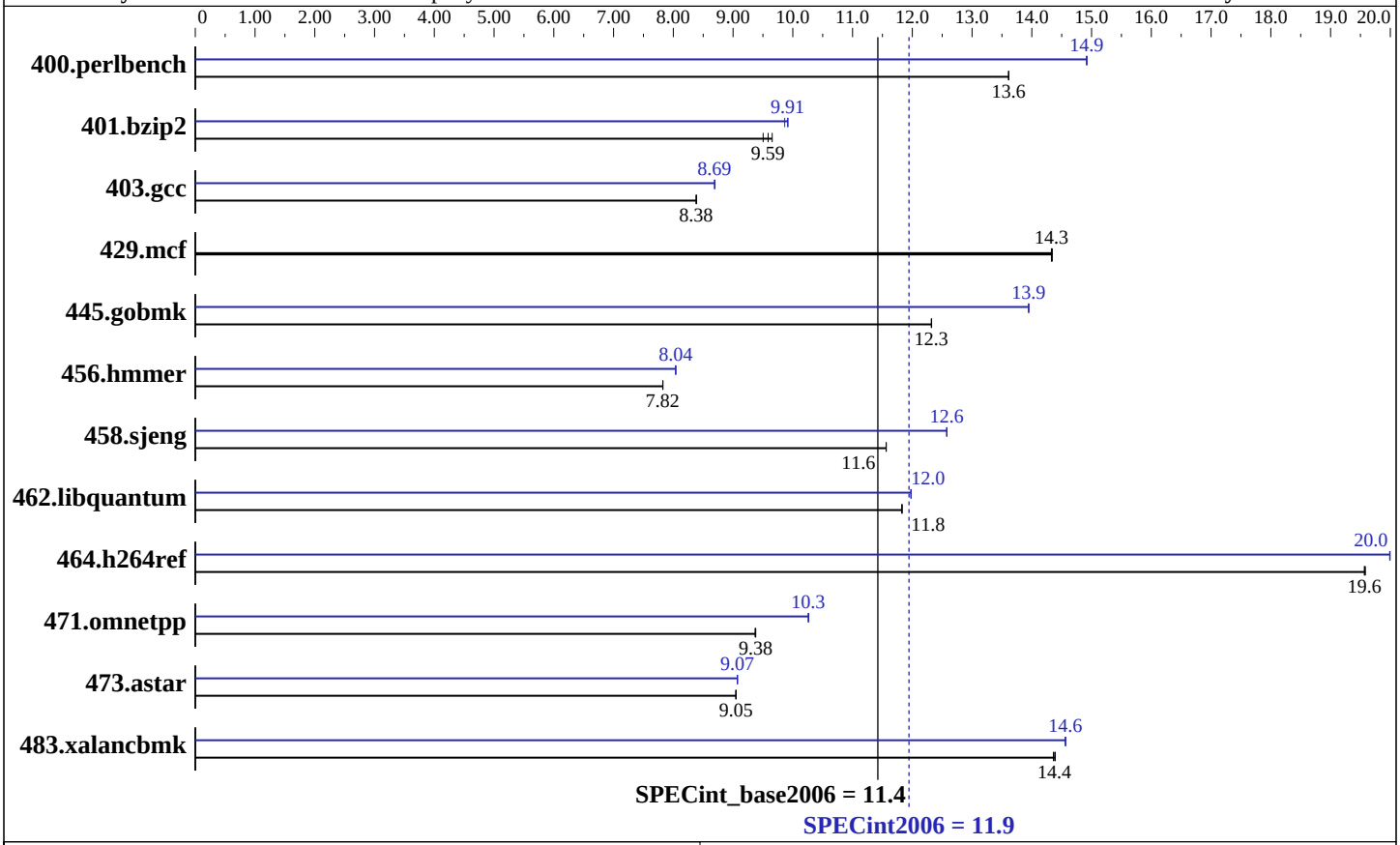
ProLiant ML350 G5
(1.86 GHz, Intel Xeon E5320)

SPECint®2006 = 11.9

SPECint_base2006 = 11.4

CPU2006 license: 3
Test sponsor: Hewlett-Packard Company
Tested by: Hewlett-Packard Company

Test date: Feb-2007
Hardware Availability: Nov-2006
Software Availability: Nov-2006



Hardware

CPU Name:	Intel Xeon E5320
CPU Characteristics:	1.86 GHz, 2x4 MB L2 shared, 1066 MHz system bus
CPU MHz:	1860
FPU:	Integrated
CPU(s) enabled:	4 cores, 1 chip, 4 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	8 MB I+D on chip per chip, 4 MB shared / 2 cores
L3 Cache:	None
Other Cache:	None
Memory:	8 GB (4x2 GB PC2-5300F CL5)
Disk Subsystem:	4x36 GB 10 K SAS
Other Hardware:	None

Software

Operating System:	Windows Server 2003 Enterprise x64 Edition, SP1
Compiler:	Intel C++ Compiler for 32-bit applications, Version 9.1, Build 20061103Z Package ID: W_CC_C_9.1.033 Microsoft Visual Studio .NET 2003 (v7.1.3088, for libraries)
Auto Parallel:	No
File System:	NTFS
System State:	Default
Base Pointers:	32-bit
Peak Pointers:	32-bit
Other Software:	MicroQuill SmartHeap Library 8.0

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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	**718**	**13.6**	718	13.6	718	13.6	655	14.9	655	14.9	**655**	**14.9**
401.bzip2	**1007**	**9.59**	999	9.66	1015	9.50	**973**	**9.91**	973	9.92	978	9.86
403.gcc	960	8.39	960	8.38	**960**	**8.38**	**926**	**8.69**	926	8.69	925	8.70
429.mcf	636	14.3	**636**	**14.3**	637	14.3	636	14.3	**636**	**14.3**	637	14.3
445.gobmk	852	12.3	851	12.3	**851**	**12.3**	752	13.9	**752**	**13.9**	752	13.9
456.hmmer	**1193**	**7.82**	1193	7.82	1192	7.83	1160	8.04	1161	8.04	**1160**	**8.04**
458.sjeng	1046	11.6	**1046**	**11.6**	1047	11.6	**962**	**12.6**	962	12.6	962	12.6
462.libquantum	**1752**	**11.8**	1752	11.8	1752	11.8	1730	12.0	**1730**	**12.0**	1730	12.0
464.h264ref	1131	19.6	**1131**	**19.6**	1130	19.6	1107	20.0	**1107**	**20.0**	1107	20.0
471.omnetpp	666	9.38	**666**	**9.38**	667	9.37	609	10.3	609	10.3	**609**	**10.3**
473.astar	**776**	**9.05**	776	9.05	776	9.05	**774**	**9.07**	774	9.07	773	9.08
483.xalancbmk	480	14.4	**480**	**14.4**	479	14.4	474	14.6	**474**	**14.6**	474	14.6

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Platform Notes

```
Power Regulator set to Static High Performance Mode in BIOS.
Adjacent Sector Prefetch disabled in BIOS.
```

Base Compiler Invocation

C benchmarks:

```
icl -Qvc7.1 -Qc99
```

C++ benchmarks:

```
icl -Qvc7.1
```

Base Portability Flags

403.gcc: `-DSPEC_CPU_WIN32`
464.h264ref: `-DSPEC_CPU_NO_INTTYPES -DWIN32`

Base Optimization Flags

C benchmarks:

```
-fast /F512000000 shlw32m.lib            -link /FORCE:MULTIPLE
```

Continued on next page

Base Optimization Flags (Continued)

C++ benchmarks:
```
-fast -Qcxx_features /F512000000 shlw32m.lib
                -link /FORCE:MULTIPLE
```

Base Other Flags

C benchmarks:

403.gcc: `-Dalloca=_alloca`

Peak Compiler Invocation

C benchmarks:
```
icl -Qvc7.1 -Qc99
```

C++ benchmarks:
```
icl -Qvc7.1
```

Peak Portability Flags

403.gcc: `-DSPEC_CPU_WIN32`
464.h264ref: `-DSPEC_CPU_NO_INTTYPES -DWIN32`

Peak Optimization Flags

C benchmarks:

400.perlbench: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

401.bzip2: `Same as 400.perlbench`

403.gcc: `Same as 400.perlbench`

429.mcf: `basepeak = yes`

445.gobmk: `Same as 400.perlbench`

456.hmmer: `Same as 400.perlbench`

458.sjeng: `Same as 400.perlbench`

Continued on next page

Peak Optimization Flags (Continued)

462.libquantum: `Same as 400.perlbench`

464.h264ref: `Same as 400.perlbench`

C++ benchmarks:
`-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qcxx_features`
`/F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

Peak Other Flags

C benchmarks:

403.gcc: `-Dalloca=_alloca`

The flags file that was used to format this result can be browsed at
`http://www.spec.org/cpu2006/flags/hp-ic91-flags.20090715.02.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/hp-ic91-flags.20090715.02.xml`

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Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 10:34:42 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 6 March 2007.