SPEC® CINT2006 Result

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Hewlett-Packard Company

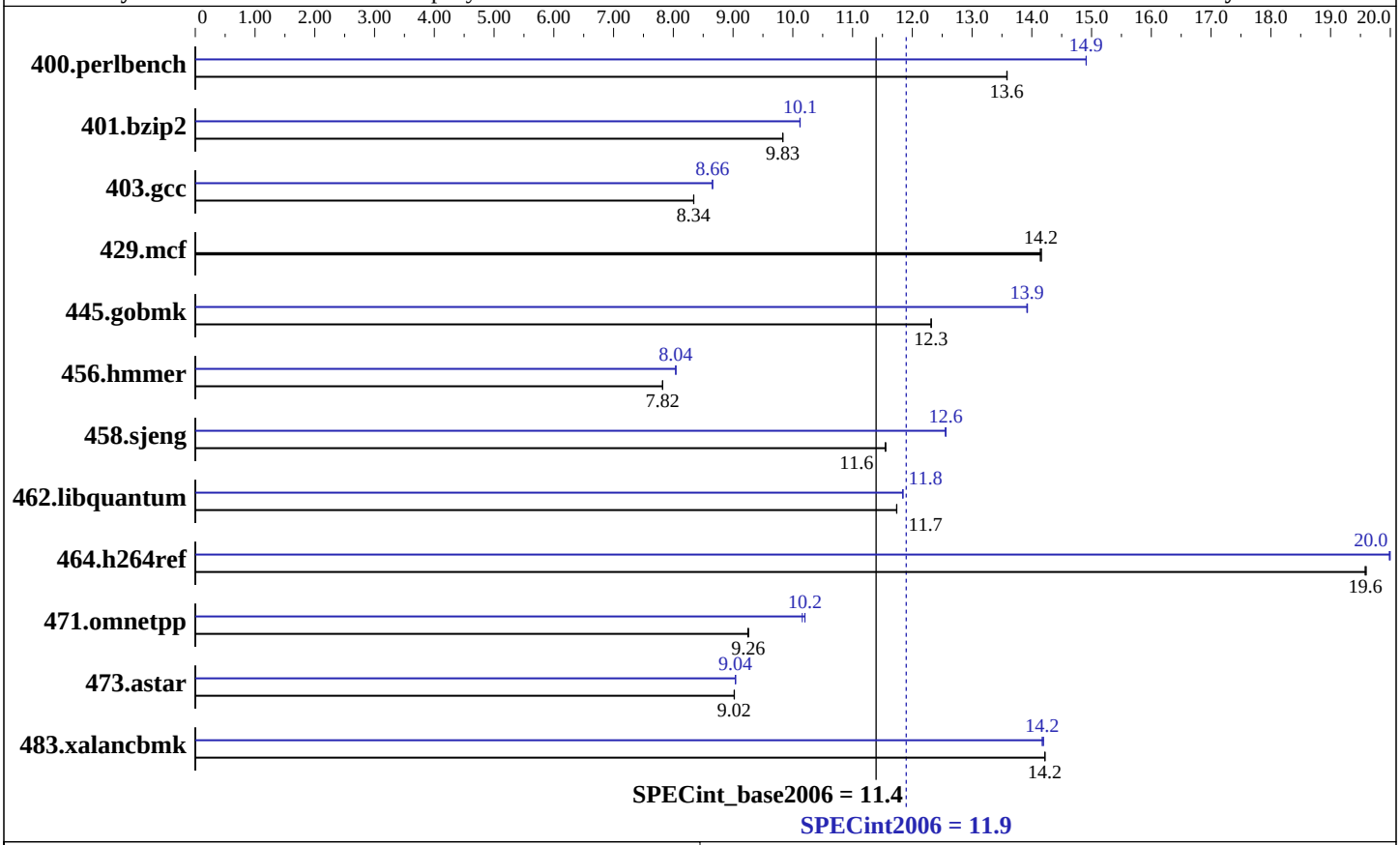
ProLiant BL20p G4
(1.86 GHz, Intel Xeon processor E5320)

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: Jan-2007
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:	16 GB (8x2 GB PC2-5300 CL5)
Disk Subsystem:	2x72 GB 10k 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	**719**	**13.6**	719	13.6	719	13.6	655	14.9	**655**	**14.9**	655	14.9
401.bzip2	**982**	**9.83**	981	9.84	982	9.83	953	10.1	**953**	**10.1**	954	10.1
403.gcc	965	8.34	965	8.34	**965**	**8.34**	**930**	**8.66**	930	8.66	930	8.65
429.mcf	**644**	**14.2**	644	14.2	645	14.1	**644**	**14.2**	644	14.2	645	14.1
445.gobmk	852	12.3	**852**	**12.3**	852	12.3	**754**	**13.9**	753	13.9	754	13.9
456.hmmer	1193	7.82	**1193**	**7.82**	1193	7.82	1160	8.04	**1160**	**8.04**	1160	8.04
458.sjeng	1047	11.6	**1047**	**11.6**	1048	11.5	**963**	**12.6**	963	12.6	964	12.6
462.libquantum	**1765**	**11.7**	1765	11.7	1765	11.7	1749	11.8	**1750**	**11.8**	1750	11.8
464.h264ref	**1130**	**19.6**	1130	19.6	1129	19.6	**1107**	**20.0**	1107	20.0	1107	20.0
471.omnetpp	**675**	**9.26**	676	9.25	675	9.26	**613**	**10.2**	613	10.2	615	10.2
473.astar	778	9.02	**778**	**9.02**	778	9.02	**776**	**9.04**	776	9.04	777	9.04
483.xalancbmk	**485**	**14.2**	485	14.2	485	14.2	487	14.2	486	14.2	**487**	**14.2**

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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