



SPEC[®] CINT2006 Result

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Hewlett-Packard Company

SPECint[®]2006 = 11.9

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

SPECint_base2006 = 11.4

CPU2006 license: 3

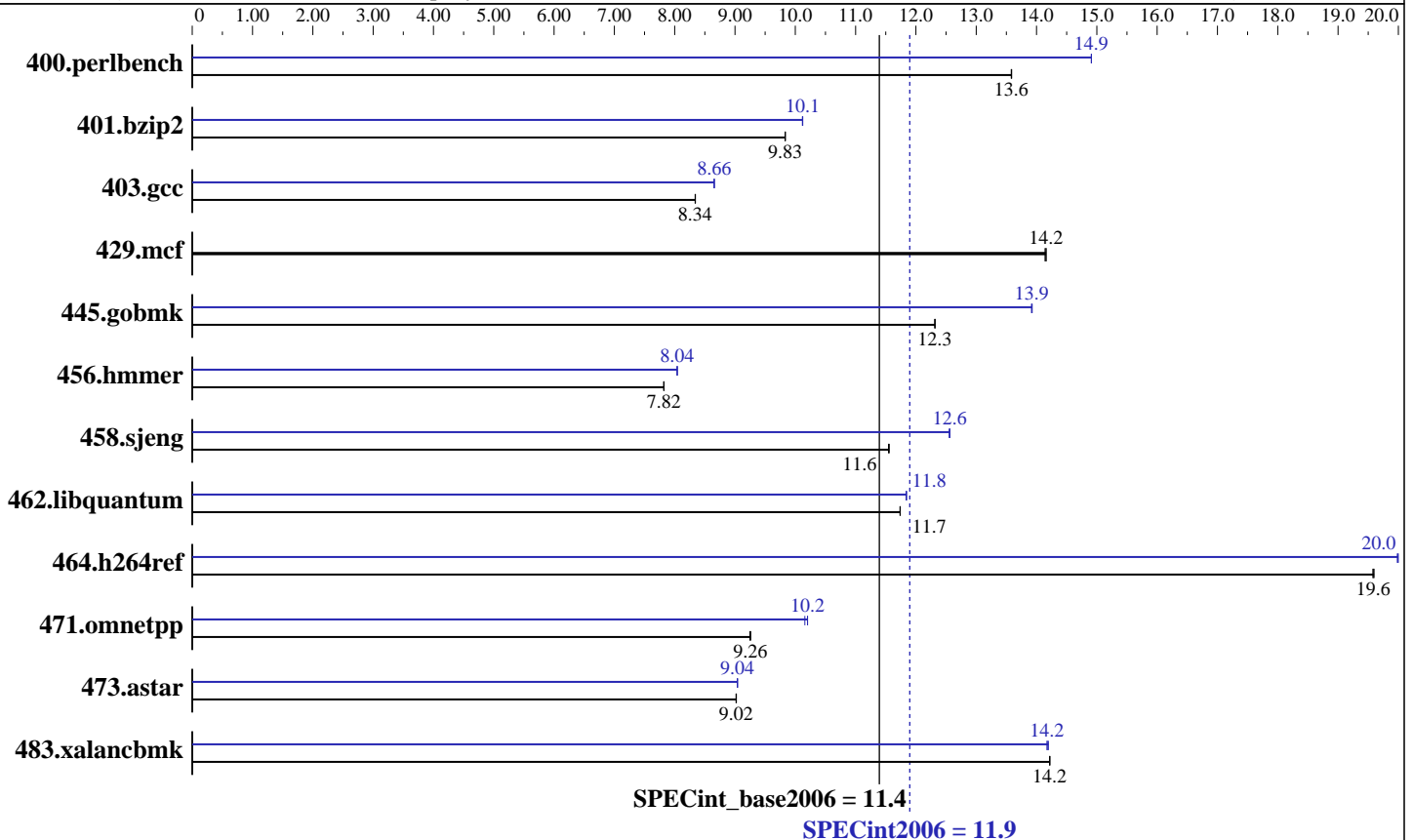
Test date: Feb-2007

Test sponsor: Hewlett-Packard Company

Hardware Availability: Jan-2007

Tested by: Hewlett-Packard Company

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.hmmr	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

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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.hmmmer: Same as 400.perlbench
```

```
458.sjeng: Same as 400.perlbench
```

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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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