



SPEC® CINT2006 Result

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Hewlett-Packard Company

SPECint®_rate2006 = 61.1

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

SPECint_rate_base2006 = 59.2

CPU2006 license: 3

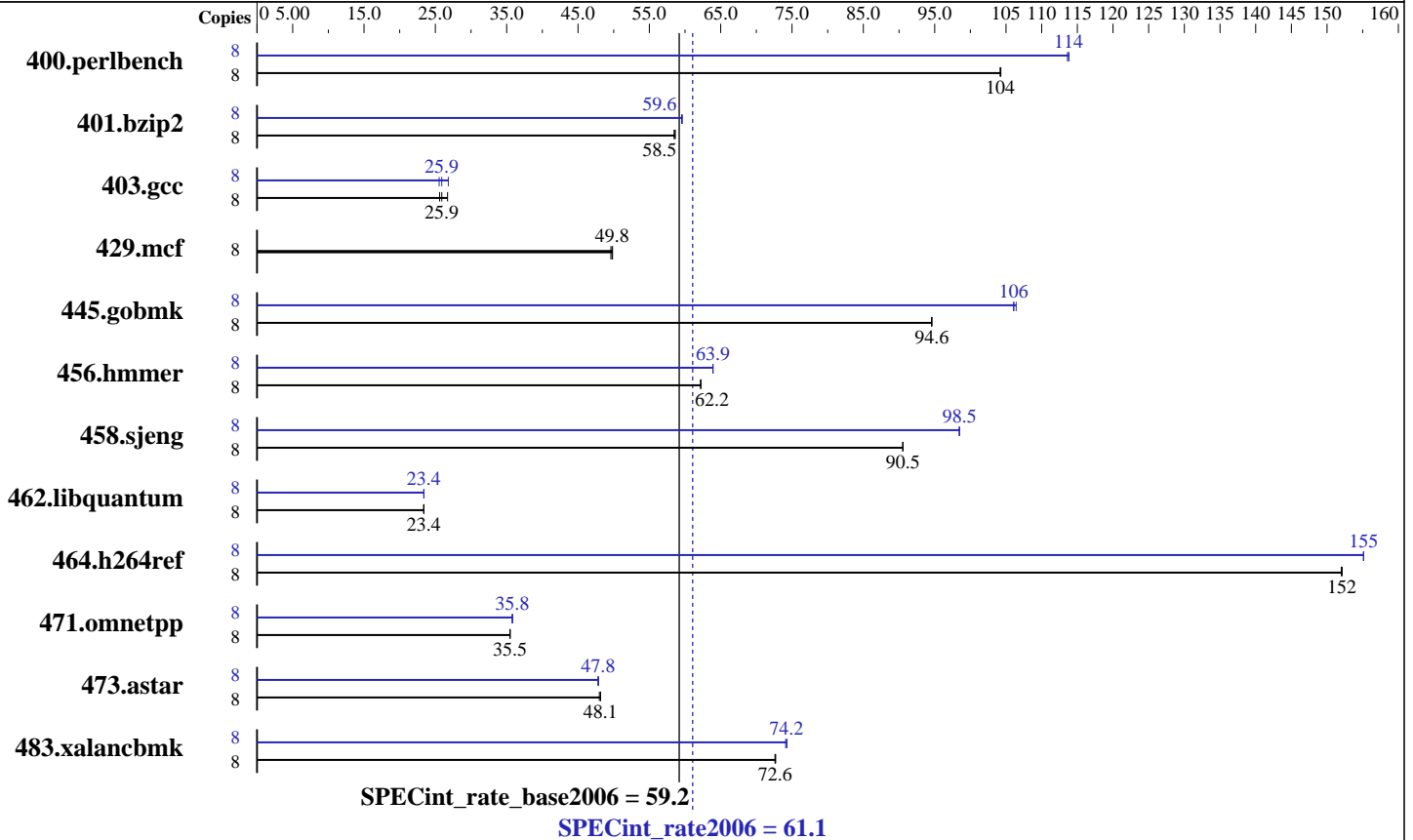
Test date: Feb-2007

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: 8 cores, 2 chips, 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							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	750	104	750	104	750	104	8	688	114	687	114	687	114
401.bzip2	8	1320	58.5	1317	58.6	1319	58.5	8	1296	59.6	1295	59.6	1297	59.5
403.gcc	8	2516	25.6	2486	25.9	2411	26.7	8	2522	25.5	2487	25.9	2401	26.8
429.mcf	8	1464	49.8	1466	49.8	1471	49.6	8	1464	49.8	1466	49.8	1471	49.6
445.gobmk	8	888	94.6	887	94.6	887	94.6	8	791	106	791	106	789	106
456.hammer	8	1200	62.2	1200	62.2	1200	62.2	8	1168	63.9	1168	63.9	1168	63.9
458.sjeng	8	1069	90.5	1069	90.6	1069	90.5	8	983	98.5	983	98.5	983	98.4
462.libquantum	8	7089	23.4	7089	23.4	7089	23.4	8	7086	23.4	7085	23.4	7087	23.4
464.h264ref	8	1164	152	1164	152	1165	152	8	1141	155	1141	155	1141	155
471.omnetpp	8	1409	35.5	1410	35.5	1410	35.5	8	1395	35.8	1397	35.8	1398	35.8
473.astar	8	1166	48.1	1170	48.0	1166	48.2	8	1173	47.9	1175	47.8	1174	47.8
483.xalancbmk	8	760	72.6	760	72.6	759	72.7	8	743	74.3	745	74.1	743	74.2

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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