



SPEC® CINT2006 Result

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Hewlett-Packard Company

SPECint®_rate2006 = 34.5

ProLiant DL360 G5
(1.86 GHz, Intel Xeon processor E5320)

SPECint_rate_base2006 = 33.3

CPU2006 license: 3

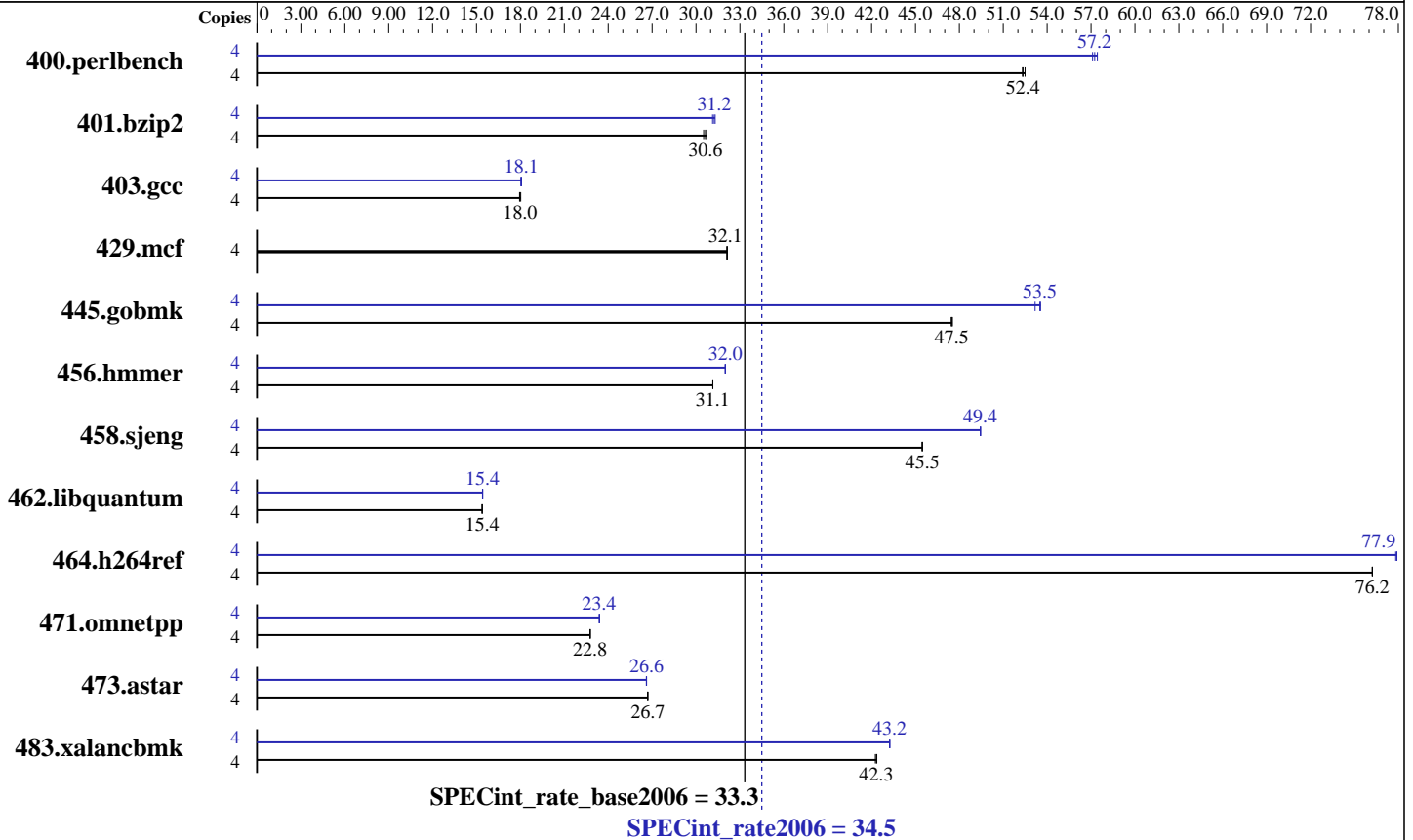
Test date: Feb-2007

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							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio		
400.perlbench	4	745	52.5	747	52.3	746	52.4	4	680	57.4	683	57.2	684	57.1		
401.bzip2	4	1260	30.6	1257	30.7	1265	30.5	4	1233	31.3	1240	31.1	1236	31.2		
403.gcc	4	1787	18.0	1795	17.9	1791	18.0	4	1781	18.1	1783	18.1	1786	18.0		
429.mcf	4	1135	32.1	1135	32.1	1136	32.1	4	1135	32.1	1135	32.1	1136	32.1		
445.gobmk	4	884	47.5	884	47.4	883	47.5	4	789	53.2	784	53.5	784	53.6		
456.hammer	4	1198	31.2	1198	31.1	1198	31.1	4	1166	32.0	1166	32.0	1166	32.0		
458.sjeng	4	1064	45.5	1064	45.5	1065	45.5	4	979	49.4	979	49.4	979	49.4		
462.libquantum	4	5390	15.4	5383	15.4	5385	15.4	4	5378	15.4	5375	15.4	5374	15.4		
464.h264ref	4	1161	76.2	1162	76.2	1161	76.2	4	1138	77.8	1136	77.9	1136	77.9		
471.omnetpp	4	1098	22.8	1097	22.8	1098	22.8	4	1069	23.4	1068	23.4	1069	23.4		
473.astar	4	1051	26.7	1052	26.7	1051	26.7	4	1055	26.6	1055	26.6	1055	26.6		
483.xalancbmk	4	652	42.4	653	42.3	652	42.3	4	638	43.2	638	43.2	638	43.2		

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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