



# SPEC® CINT2006 Result

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## Hewlett-Packard Company

SPECint®\_rate2006 = 45.9

ProLiant DL380 G5  
(2.66 GHz, Intel Xeon processor X5355)

SPECint\_rate\_base2006 = 44.4

CPU2006 license: 3

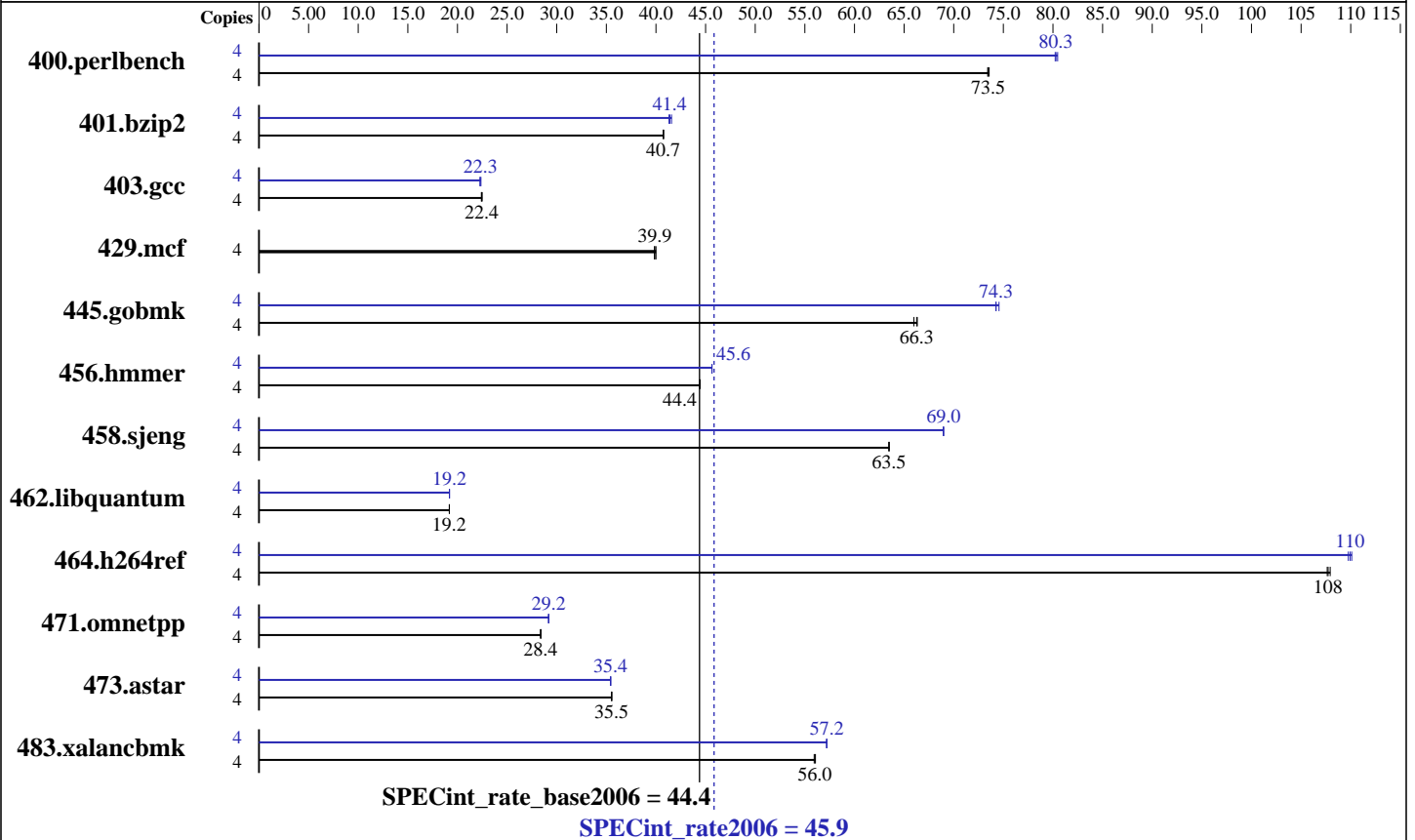
Test date: Feb-2007

Test sponsor: Hewlett-Packard Company

Hardware Availability: Jan-2007

Tested by: Hewlett-Packard Company

Software Availability: Nov-2006



### Hardware

CPU Name: Intel Xeon X5355  
 CPU Characteristics: 2.66 GHz, 2x4 MB L2 shared, 1333 MHz system bus  
 CPU MHz: 2666  
 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: 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   |             |             |             |             |            |             |
|----------------|--------|-------------|-------------|------------|-------------|-------------|-------------|--------|-------------|-------------|-------------|-------------|------------|-------------|
|                | Copies | Seconds     | Ratio       | Seconds    | Ratio       | Seconds     | Ratio       | Copies | Seconds     | Ratio       | Seconds     | Ratio       | Seconds    | Ratio       |
| 400.perlbench  | 4      | <u>532</u>  | <u>73.5</u> | 532        | 73.4        | 531         | 73.6        | 4      | <u>487</u>  | <u>80.3</u> | 487         | 80.2        | 486        | 80.5        |
| 401.bzip2      | 4      | <u>947</u>  | <u>40.7</u> | 947        | 40.8        | 947         | 40.7        | 4      | 929         | 41.6        | 934         | 41.3        | <u>932</u> | <u>41.4</u> |
| 403.gcc        | 4      | 1437        | 22.4        | 1432       | 22.5        | <u>1435</u> | <u>22.4</u> | 4      | <u>1444</u> | <u>22.3</u> | 1446        | 22.3        | 1440       | 22.4        |
| 429.mcf        | 4      | <u>915</u>  | <u>39.9</u> | 916        | 39.8        | 912         | 40.0        | 4      | <u>915</u>  | <u>39.9</u> | 916         | 39.8        | 912        | 40.0        |
| 445.gobmk      | 4      | 633         | 66.3        | 636        | 66.0        | <u>633</u>  | <u>66.3</u> | 4      | 563         | 74.6        | <u>565</u>  | <u>74.3</u> | 565        | 74.3        |
| 456.hammer     | 4      | <u>840</u>  | <u>44.4</u> | 840        | 44.4        | 840         | 44.4        | 4      | <u>818</u>  | <u>45.6</u> | 818         | 45.6        | 818        | 45.6        |
| 458.sjeng      | 4      | 763         | 63.5        | <u>763</u> | <u>63.5</u> | 762         | 63.5        | 4      | 702         | 68.9        | 702         | 69.0        | <u>702</u> | <u>69.0</u> |
| 462.libquantum | 4      | <u>4321</u> | <u>19.2</u> | 4322       | 19.2        | 4320        | 19.2        | 4      | 4318        | 19.2        | <u>4318</u> | <u>19.2</u> | 4320       | 19.2        |
| 464.h264ref    | 4      | <u>822</u>  | <u>108</u>  | 822        | 108         | 820         | 108         | 4      | 804         | 110         | <u>805</u>  | <u>110</u>  | 807        | 110         |
| 471.omnetpp    | 4      | <u>881</u>  | <u>28.4</u> | 881        | 28.4        | 880         | 28.4        | 4      | <u>856</u>  | <u>29.2</u> | 857         | 29.2        | 856        | 29.2        |
| 473.astar      | 4      | 790         | 35.5        | 790        | 35.5        | <u>790</u>  | <u>35.5</u> | 4      | 793         | 35.4        | <u>792</u>  | <u>35.4</u> | 792        | 35.4        |
| 483.xalancbmk  | 4      | 493         | 55.9        | 492        | 56.1        | <u>493</u>  | <u>56.0</u> | 4      | <u>482</u>  | <u>57.2</u> | 482         | 57.2        | 483        | 57.2        |

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.hmmer: 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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For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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