



# SPEC® CINT2006 Result

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## Hewlett-Packard Company

**SPECint®2006 = 11.9**

ProLiant ML350 G5  
(1.86 GHz, Intel Xeon E5320)

**SPECint\_base2006 = 11.4**

CPU2006 license: 3

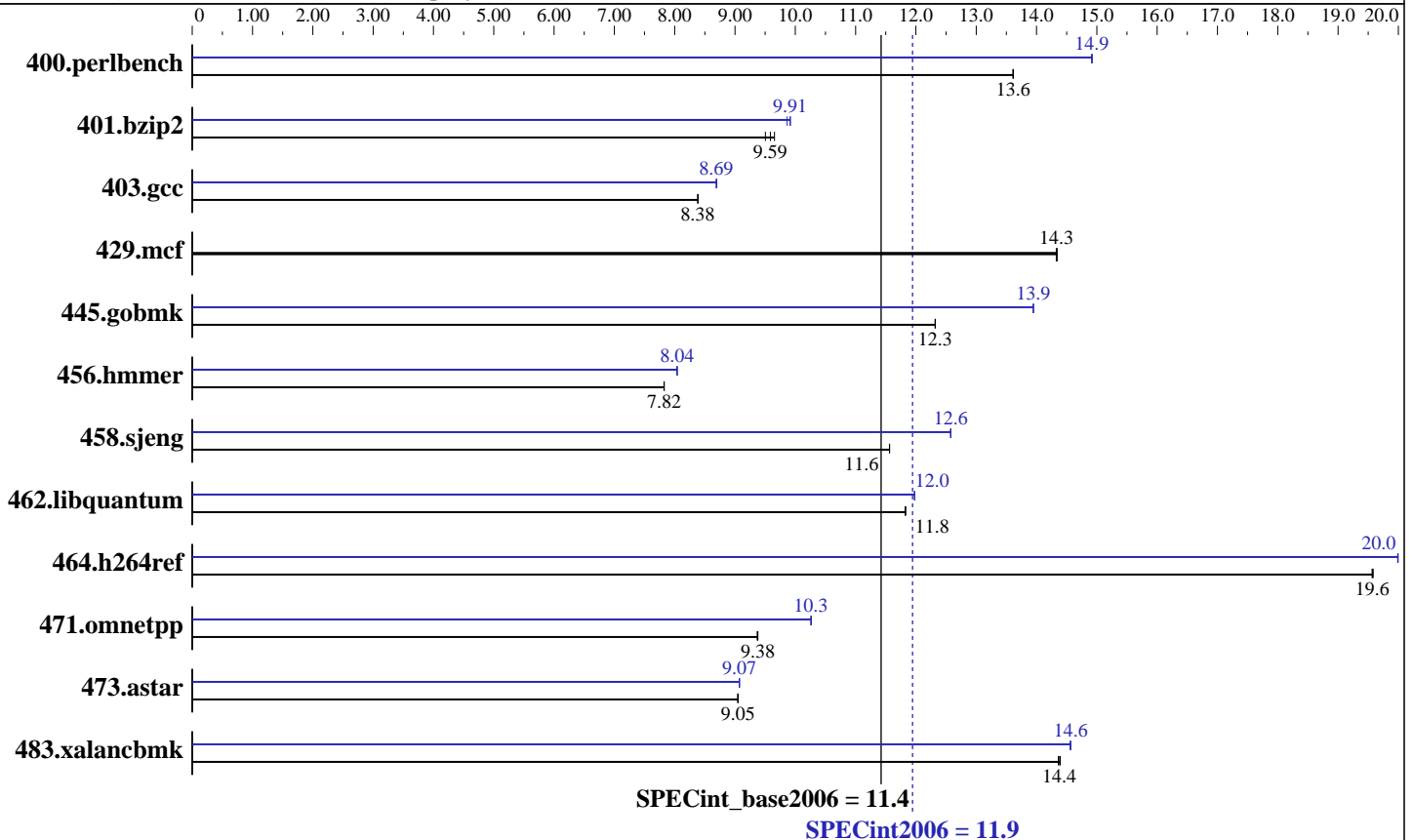
Test date: Feb-2007

Test sponsor: Hewlett-Packard Company

Hardware Availability: Nov-2006

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: 8 GB (4x2 GB PC2-5300F 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	<b>718</b>	<b>13.6</b>	718	13.6	718	13.6	655	14.9	655	14.9	<b>655</b>	<b>14.9</b>
401.bzip2	<b>1007</b>	<b>9.59</b>	999	9.66	1015	9.50	<b>973</b>	<b>9.91</b>	973	9.92	978	9.86
403.gcc	960	8.39	960	8.38	<b>960</b>	<b>8.38</b>	<b>926</b>	<b>8.69</b>	926	8.69	925	8.70
429.mcf	636	14.3	<b>636</b>	<b>14.3</b>	637	14.3	636	14.3	<b>636</b>	<b>14.3</b>	637	14.3
445.gobmk	852	12.3	851	12.3	<b>851</b>	<b>12.3</b>	752	13.9	<b>752</b>	<b>13.9</b>	752	13.9
456.hmmer	<b>1193</b>	<b>7.82</b>	1193	7.82	1192	7.83	1160	8.04	1161	8.04	<b>1160</b>	<b>8.04</b>
458.sjeng	1046	11.6	<b>1046</b>	<b>11.6</b>	1047	11.6	<b>962</b>	<b>12.6</b>	962	12.6	962	12.6
462.libquantum	<b>1752</b>	<b>11.8</b>	1752	11.8	1752	11.8	1730	12.0	<b>1730</b>	<b>12.0</b>	1730	12.0
464.h264ref	1131	19.6	<b>1131</b>	<b>19.6</b>	1130	19.6	1107	20.0	<b>1107</b>	<b>20.0</b>	1107	20.0
471.omnetpp	666	9.38	<b>666</b>	<b>9.38</b>	667	9.37	609	10.3	609	10.3	<b>609</b>	<b>10.3</b>
473.astar	<b>776</b>	<b>9.05</b>	776	9.05	776	9.05	<b>774</b>	<b>9.07</b>	774	9.07	773	9.08
483.xalancbmk	480	14.4	<b>480</b>	<b>14.4</b>	479	14.4	474	14.6	<b>474</b>	<b>14.6</b>	474	14.6

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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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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