# SPEC® CINT2006 Result

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## Hewlett-Packard Company

ProLiant DL380 G4 (3.8GHz, Intel Xeon Processor)

SPECint®2006 =    --

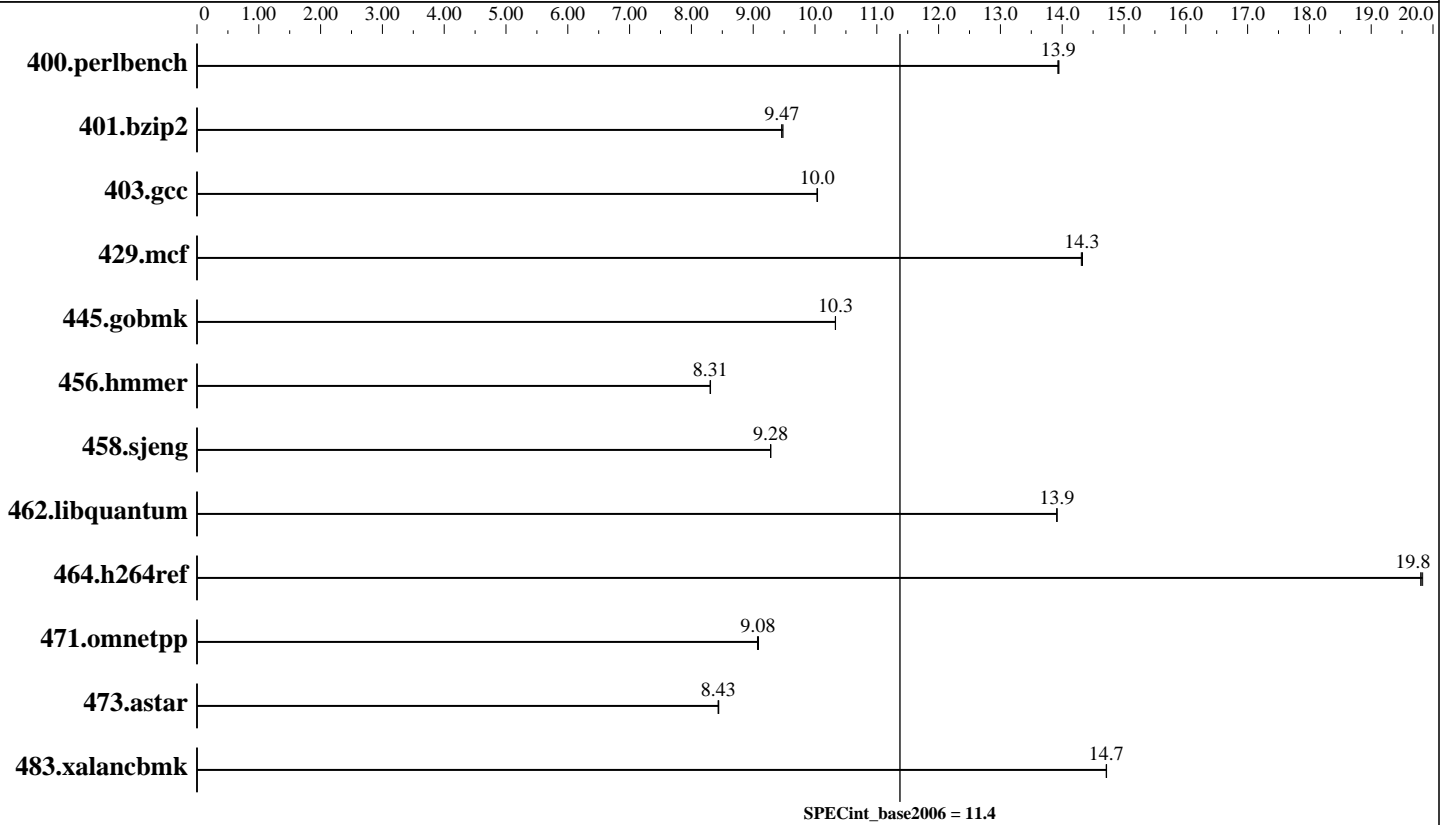SPECint_base2006 =    11.4

**CPU2006 license:** 3

**Test sponsor:** Hewlett-Packard Company

**Tested by:** Hewlett-Packard Company

**Test date:** Apr-2006

**Hardware Availability:** Sep-2005

**Software Availability:** May-2006

| Benchmark | Score |
|---|---|
| 400.perlbench | 13.9 |
| 401.bzip2 | 9.47 |
| 403.gcc | 10.0 |
| 429.mcf | 14.3 |
| 445.gobmk | 10.3 |
| 456.hmmer | 8.31 |
| 458.sjeng | 9.28 |
| 462.libquantum | 13.9 |
| 464.h264ref | 19.8 |
| 471.omnetpp | 9.08 |
| 473.astar | 8.43 |
| 483.xalancbmk | 14.7 |

SPECint_base2006 = 11.4

## Hardware

CPU Name: Intel Xeon
CPU Characteristics: 3.8GHz, 2MB L2, 800MHz bus
CPU MHz: 3800
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip, 2 threads/core
CPU(s) orderable: 1,2 chips
Primary Cache: 12 K micro-ops I + 16 KB D on chip per chip
Secondary Cache: 2 MB I+D on chip per chip
L3 Cache: None
Other Cache: None
Memory: 8 GB (4x2 GB PC2-3200)
Disk Subsystem: 146GB 10k U320 SCSI
Other Hardware: None

## Software

Operating System: Windows Server 2003 Ent, SP1
Compiler: Intel C++ Compiler 9.1 for 32-bit apps,
Build 20060323Z Package ID: W_CC_P_9.1.020
Microsoft Visual Studio .NET 2003 (for libraries)
MicroQuill SmartHeap Library 7.4
Auto Parallel: No
File System: NTFS
System State: Default
Base Pointers: 32-bit
Peak Pointers: Not Applicable
Other Software: None

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## Results Table

| Benchmark | Base | | | | | | Peak | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 400.perlbench | 701 | 13.9 | **701** | **13.9** | 701 | 13.9 | | | | | | |
| 401.bzip2 | 1018 | 9.48 | 1020 | 9.46 | **1019** | **9.47** | | | | | | |
| 403.gcc | 802 | 10.0 | **802** | **10.0** | 802 | 10.0 | | | | | | |
| 429.mcf | 637 | 14.3 | **637** | **14.3** | 637 | 14.3 | | | | | | |
| 445.gobmk | 1015 | 10.3 | **1015** | **10.3** | 1016 | 10.3 | | | | | | |
| 456.hmmer | 1123 | 8.31 | **1123** | **8.31** | 1123 | 8.30 | | | | | | |
| 458.sjeng | 1303 | 9.29 | 1304 | 9.28 | **1304** | **9.28** | | | | | | |
| 462.libquantum | 1489 | 13.9 | **1489** | **13.9** | 1489 | 13.9 | | | | | | |
| 464.h264ref | 1116 | 19.8 | 1118 | 19.8 | **1117** | **19.8** | | | | | | |
| 471.omnetpp | 688 | 9.09 | **689** | **9.08** | 689 | 9.07 | | | | | | |
| 473.astar | 831 | 8.44 | 832 | 8.43 | **832** | **8.43** | | | | | | |
| 483.xalancbmk | 469 | 14.7 | 469 | 14.7 | **469** | **14.7** | | | | | | |

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

## 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
```

C++ benchmarks:
```
-fast -Qcxx_features /F512000000 shlw32m.lib
          -link /FORCE:MULTIPLE
```

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## Base 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.20090715.01.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/hp-ic91-flags.20090715.01.xml

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