Hewlett-Packard Company

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

SPECint\_rate2006 = 82.3
SPECint\_rate_base2006 = 79.6

CPU2006 license: 3
Test sponsor: Hewlett-Packard Company
Tested by: Hewlett-Packard Company

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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: 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 core, 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

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

Hardware
Software
### SPEC CINT2006 Result

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#### Results Table

| Benchmark | Copies | Base | |  | Peak | |  | |  |
|-----------|--------|------|------|------|------|------|------|------|
|           | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 400.perlbench | 8 | 558 | 140 | 535 | 146 | 536 | 146 | 8 | 491 | 159 | 491 | 159 | 491 | 159 |
| 401.bzip2 | 8 | 1001 | 77.1 | 999 | 77.3 | 996 | 77.5 | 8 | 983 | 78.5 | 984 | 78.5 | 984 | 78.5 |
| 403.gcc | 8 | 1956 | 32.9 | 1988 | 32.4 | 1981 | 32.5 | 8 | 1954 | 33.0 | 1921 | 33.5 | 1982 | 32.5 |
| 429.mcf | 8 | 1139 | 64.1 | 1141 | 63.9 | 1141 | 63.9 | 8 | 1139 | 64.1 | 1141 | 63.9 | 1141 | 63.9 |
| 445.gobmk | 8 | 635 | 132 | 633 | 133 | 634 | 132 | 8 | 567 | 148 | 567 | 148 | 567 | 148 |
| 456.hmmer | 8 | 843 | 88.5 | 843 | 88.5 | 843 | 88.5 | 8 | 821 | 90.9 | 821 | 90.9 | 821 | 90.9 |
| 458.sjeng | 8 | 766 | 126 | 767 | 126 | 766 | 126 | 8 | 706 | 137 | 706 | 137 | 706 | 137 |
| 462.libquantum | 8 | 5410 | 30.6 | 5410 | 30.6 | 5411 | 30.6 | 8 | 5411 | 30.6 | 5411 | 30.6 | 5411 | 30.6 |
| 464.h264ref | 8 | 825 | 214 | 823 | 215 | 824 | 215 | 8 | 807 | 219 | 807 | 219 | 807 | 219 |
| 471.omnetpp | 8 | 1097 | 45.6 | 1097 | 45.6 | 1097 | 45.6 | 8 | 1077 | 46.4 | 1077 | 46.4 | 1078 | 46.4 |
| 473.astar | 8 | 870 | 64.6 | 872 | 64.4 | 871 | 64.5 | 8 | 875 | 64.2 | 875 | 64.2 | 873 | 64.3 |
| 483.xalancbmk | 8 | 567 | 97.3 | 568 | 97.1 | 568 | 97.1 | 8 | 557 | 99.1 | 557 | 99.0 | 557 | 99.1 |

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:

```bash
icl -Qvc7.1 -Qc99
```

C++ benchmarks:

```bash
icl -Qvc7.1
```

### Base Portability Flags

- 403.gcc: -DSPEC_CPU_WIN32  
- 464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32

### Base Optimization Flags

C benchmarks:

```bash
-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 -Qv7.1 -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