# SPEC® CINT2006 Result

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## Dell Inc.

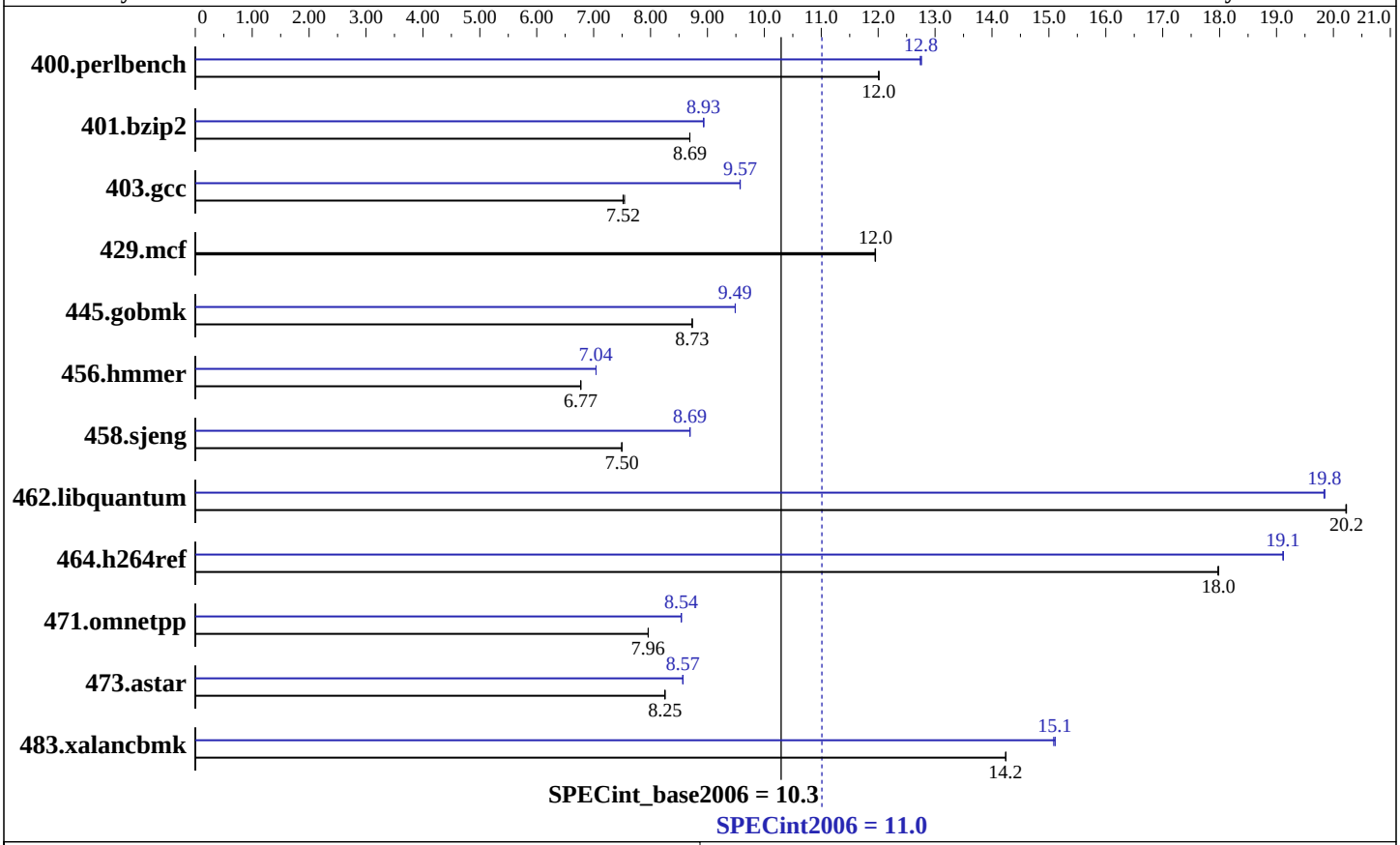
PowerEdge 6850 (Intel Xeon 7130M, 3.20 GHz)

SPECint®2006 = 11.0

SPECint_base2006 = 10.3

**CPU2006 license:** 55
**Test sponsor:** Dell Inc.
**Tested by:** Dell Inc.

**Test date:** Aug-2007
**Hardware Availability:** Aug-2006
**Software Availability:** Jun-2007




## Hardware

| | |
|---|---|
| CPU Name: | Intel Xeon 7130M |
| CPU Characteristics: | 800 MHz Bus Speed |
| CPU MHz: | 3200 |
| FPU: | Integrated |
| CPU(s) enabled: | 4 cores, 2 chips, 2 cores/chip |
| CPU(s) orderable: | 1,2,4 chips |
| Primary Cache: | 12 K micro-ops I + 16 KB D on chip per core |
| Secondary Cache: | 1 MB I+D on chip per core |
| L3 Cache: | 8 MB I+D on chip per chip |
| Other Cache: | None |
| Memory: | 8 GB (8 x 1 GB ECC 400MHz DDR2 SDRAM) |
| Disk Subsystem: | 1 x 18 GB SCSI 15K RPM |
| Other Hardware: | None |

## Software

| | |
|---|---|
| Operating System: | Microsoft Windows Server 2003 Enterprise x64 Edition |
| Compiler: | Intel C++ Compiler for IA32 version 10.0 Build 20070426 Package ID: W_CC_P_10.0.025 Microsoft Visual Studio .Net 2003 (for libraries) |
| Auto Parallel: | No |
| File System: | NTFS |
| System State: | Default |
| Base Pointers: | 32-bit |
| Peak Pointers: | 32-bit |
| Other Software: | MicroQuill SmartHeap Library Version 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 | **813** | **12.0** | 814 | 12.0 | 813 | 12.0 | 766 | 12.8 | **766** | **12.8** | 767 | 12.7 |
| 401.bzip2 | 1111 | 8.69 | 1110 | 8.69 | **1110** | **8.69** | 1080 | 8.93 | **1080** | **8.93** | 1080 | 8.94 |
| 403.gcc | 1067 | 7.54 | **1070** | **7.52** | 1071 | 7.52 | 841 | 9.57 | **841** | **9.57** | 841 | 9.58 |
| 429.mcf | 763 | 12.0 | 764 | 11.9 | **763** | **12.0** | 763 | 12.0 | 764 | 11.9 | **763** | **12.0** |
| 445.gobmk | **1201** | **8.73** | 1201 | 8.73 | 1201 | 8.73 | 1105 | 9.49 | **1106** | **9.49** | 1106 | 9.49 |
| 456.hmmer | 1377 | 6.78 | **1377** | **6.77** | 1378 | 6.77 | 1325 | 7.04 | 1325 | 7.04 | **1325** | **7.04** |
| 458.sjeng | 1614 | 7.50 | **1614** | **7.50** | 1615 | 7.49 | 1392 | 8.69 | 1392 | 8.69 | **1392** | **8.69** |
| 462.libquantum | 1024 | 20.2 | **1024** | **20.2** | 1025 | 20.2 | 1045 | 19.8 | 1044 | 19.8 | **1044** | **19.8** |
| 464.h264ref | 1232 | 18.0 | 1231 | 18.0 | **1231** | **18.0** | **1158** | **19.1** | 1157 | 19.1 | 1158 | 19.1 |
| 471.omnetpp | 785 | 7.96 | 785 | 7.96 | **785** | **7.96** | **732** | **8.54** | 732 | 8.54 | 732 | 8.54 |
| 473.astar | 851 | 8.25 | 850 | 8.25 | **850** | **8.25** | 819 | 8.57 | 819 | 8.57 | **819** | **8.57** |
| 483.xalancbmk | 484 | 14.2 | 485 | 14.2 | **485** | **14.2** | 457 | 15.1 | 457 | 15.1 | **457** | **15.1** |

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:

```
-QxP -Qipo -O3 -Qprec-div- /F512000000 shlw32m.lib
             -link /FORCE:MULTIPLE
```

C++ benchmarks:

```
-QxP -Qipo -O3 -Qprec-div- -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) `-QxP -Qipo -O3 -Qprec-div- -Qansi-alias -Qprefetch /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

401.bzip2: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-QxP -Qipo -O3 -Qprec-div- /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

403.gcc: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-QxP -Qipo -O3 -Qprec-div- /F512000000 -link /FORCE:MULTIPLE`

429.mcf: `basepeak = yes`

445.gobmk: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-QxP -O2 -Qipo -Qprec_div- -Qansi-alias /F512000000 -link /FORCE:MULTIPLE`

456.hmmer: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-QxP -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

458.sjeng: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-QxP -Qipo -O3 -Qprec-div- -Qunroll4 /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

Continued on next page

## Peak Optimization Flags (Continued)

462.libquantum: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-QxP -Qipo -O3 -Qprec-div- -Qunroll4 -Ob0 -Qprefetch -Qopt-streaming-stores:always /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

464.h264ref: `Same as 456.hmmer`

C++ benchmarks:
`-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-QxP -Qipo -O3 -Qprec-div- -Qansi-alias -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/Dell-Intel-ic10-ia32-intel64-win.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Dell-Intel-ic10-ia32-intel64-win.xml


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