# SPEC® CINT2006 Result

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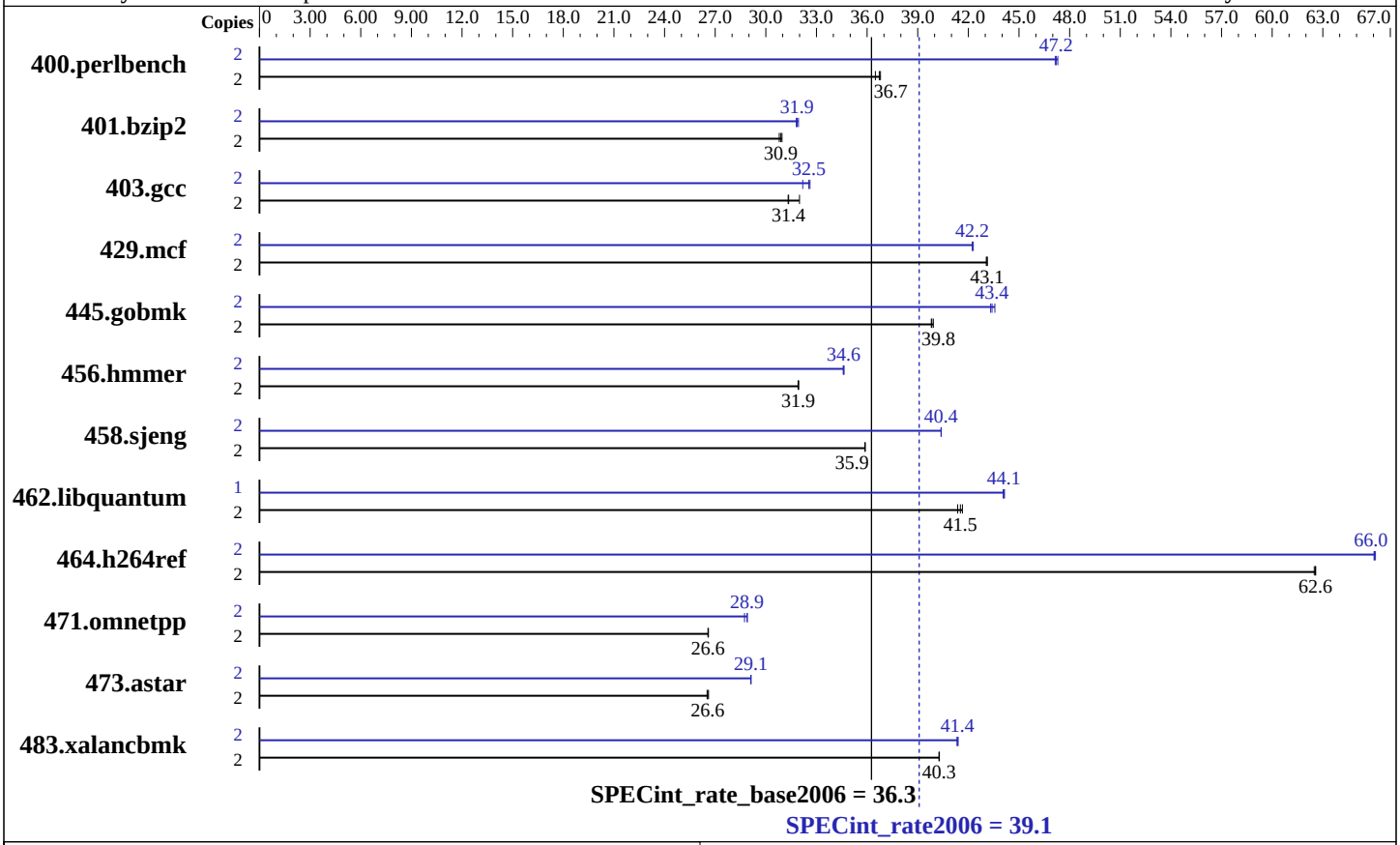
## Intel Corporation
## Flextronics W840DI

**SPECint®_rate2006 = 39.1**

**SPECint_rate_base2006 = 36.3**

**CPU2006 license:** 13
**Test sponsor:** Intel Corporation
**Tested by:** Intel Corporation

**Test date:** Aug-2008
**Hardware Availability:** Sep-2008
**Software Availability:** Nov-2007




### Hardware

| | |
|---|---|
| CPU Name: | Intel Core 2 Extreme Mobile X9100 |
| CPU Characteristics: | |
| CPU MHz: | 3067 |
| FPU: | Integrated |
| CPU(s) enabled: | 4 cores, 1 chip, 4 cores/chip |
| CPU(s) orderable: | 1 chip |
| Primary Cache: | 32 KB I + 32 KB D on chip per core |
| Secondary Cache: | 6 MB I+D on chip per chip |
| L3 Cache: | None |
| Other Cache: | None |
| Memory: | 4 GB (2x4GB Micron PC3-8500 DDR3-1066 CL7) |
| Disk Subsystem: | Seagate ST9120823AS SATA 160GB 7200RPM |
| Other Hardware: | None |

### Software

| | |
|---|---|
| Operating System: | Windows Vista Ultimate SP1 (64-bit) |
| Compiler: | Intel C++ Compiler for IA32 version 10.1<br>Build 20070913 Package ID: w_cc_p_10.1.011<br>Microsoft Visual Studio 2005 SP1 (for libraries) |
| Auto Parallel: | Yes |
| File System: | NTFS |
| System State: | Default |
| Base Pointers: | 32-bit |
| Peak Pointers: | 32-bit |
| Other Software: | None<br>SmartHeap Library Version 8.1 from http://www.microquill.com/ |

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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 | 2 | 531 | 36.8 | **532** | **36.7** | 535 | 36.5 | 2 | 413 | 47.3 | **414** | **47.2** | 414 | 47.1 |
| 401.bzip2 | 2 | 623 | 31.0 | 627 | 30.8 | **625** | **30.9** | 2 | **606** | **31.9** | 607 | 31.8 | 604 | 31.9 |
| 403.gcc | 2 | **514** | **31.4** | 503 | 32.0 | 514 | 31.3 | 2 | 494 | 32.6 | 500 | 32.2 | **495** | **32.5** |
| 429.mcf | 2 | 423 | 43.1 | **423** | **43.1** | 424 | 43.1 | 2 | 432 | 42.2 | **432** | **42.2** | 431 | 42.3 |
| 445.gobmk | 2 | 527 | 39.8 | 526 | 39.9 | **527** | **39.8** | 2 | **483** | **43.4** | 482 | 43.6 | 484 | 43.3 |
| 456.hmmer | 2 | 584 | 31.9 | **584** | **31.9** | 585 | 31.9 | 2 | 539 | 34.6 | **539** | **34.6** | 540 | 34.6 |
| 458.sjeng | 2 | 675 | 35.9 | **675** | **35.9** | 674 | 35.9 | 2 | **599** | **40.4** | 599 | 40.4 | 599 | 40.4 |
| 462.libquantum | 2 | 995 | 41.6 | **998** | **41.5** | 1002 | 41.4 | 1 | 470 | 44.1 | **470** | **44.1** | 469 | 44.1 |
| 464.h264ref | 2 | 708 | 62.5 | 707 | 62.6 | **707** | **62.6** | 2 | 669 | 66.1 | **670** | **66.0** | 670 | 66.0 |
| 471.omnetpp | 2 | **470** | **26.6** | 470 | 26.6 | 470 | 26.6 | 2 | 433 | 28.9 | **433** | **28.9** | 435 | 28.7 |
| 473.astar | 2 | 529 | 26.5 | 528 | 26.6 | **529** | **26.6** | 2 | **482** | **29.1** | 482 | 29.1 | 482 | 29.1 |
| 483.xalancbmk | 2 | **343** | **40.3** | 343 | 40.3 | 343 | 40.3 | 2 | 334 | 41.3 | 333 | 41.4 | **334** | **41.4** |

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

## General Notes

```
Binaries were built on Windows Vista32
The following VS 2005 SP1 updates were applied: KB926601 and KB932232
```

## Base Compiler Invocation

C benchmarks:
```
icl -Qvc8 -Qc99
```

C++ benchmarks:
```
icl -Qvc8
```

## Base Portability Flags

403.gcc: `-DSPEC_CPU_WIN32`
464.h264ref: `-DSPEC_CPU_NO_INTTYPES -DWIN32`
483.xalancbmk: `-Qoption,cpp,--no_wchar_t_keyword`

## Base Optimization Flags

C benchmarks:
```
-fast -Qvec-guard-write /F512000000
```

Continued on next page

## 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 -Qvc8 -Qc99

C++ benchmarks:
icl -Qvc8

## Peak Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword

## Peak Optimization Flags

C benchmarks:

400.perlbench: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qprefetch /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch
/F512000000

403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000

429.mcf: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

445.gobmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxT -O2 -Qipo
-Qprec-div- -Qansi-alias /F512000000

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## Peak Optimization Flags (Continued)

456.hmmer: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2 -Qansi-alias -Qopt-multi-version-aggressive /F512000000

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4 /F512000000

462.libquantum: -fast -Qunroll4 -Ob0 -Qprefetch -Qopt-streaming-stores:always -Qparallel -Qpar-runtime-control /F512000000

464.h264ref: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2 -Qansi-alias /F512000000

C++ benchmarks:

471.omnetpp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias -Qopt-ra-region-strategy=block -Qcxx_features /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

473.astar: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias -Qopt-ra-region-strategy=routine -Qcxx_features /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

483.xalancbmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -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/Intel-ic10.1-win32-revC.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic10.1-win32-revC.xml

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