# SPEC® CINT2006 Result
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## Intel Corporation

Asus P5E3 Pro motherboard (Intel Core 2 Duo E8600)

$SPECint®\_rate2006 =$ 49.1

$SPECint\_rate\_base2006 =$ 47.1
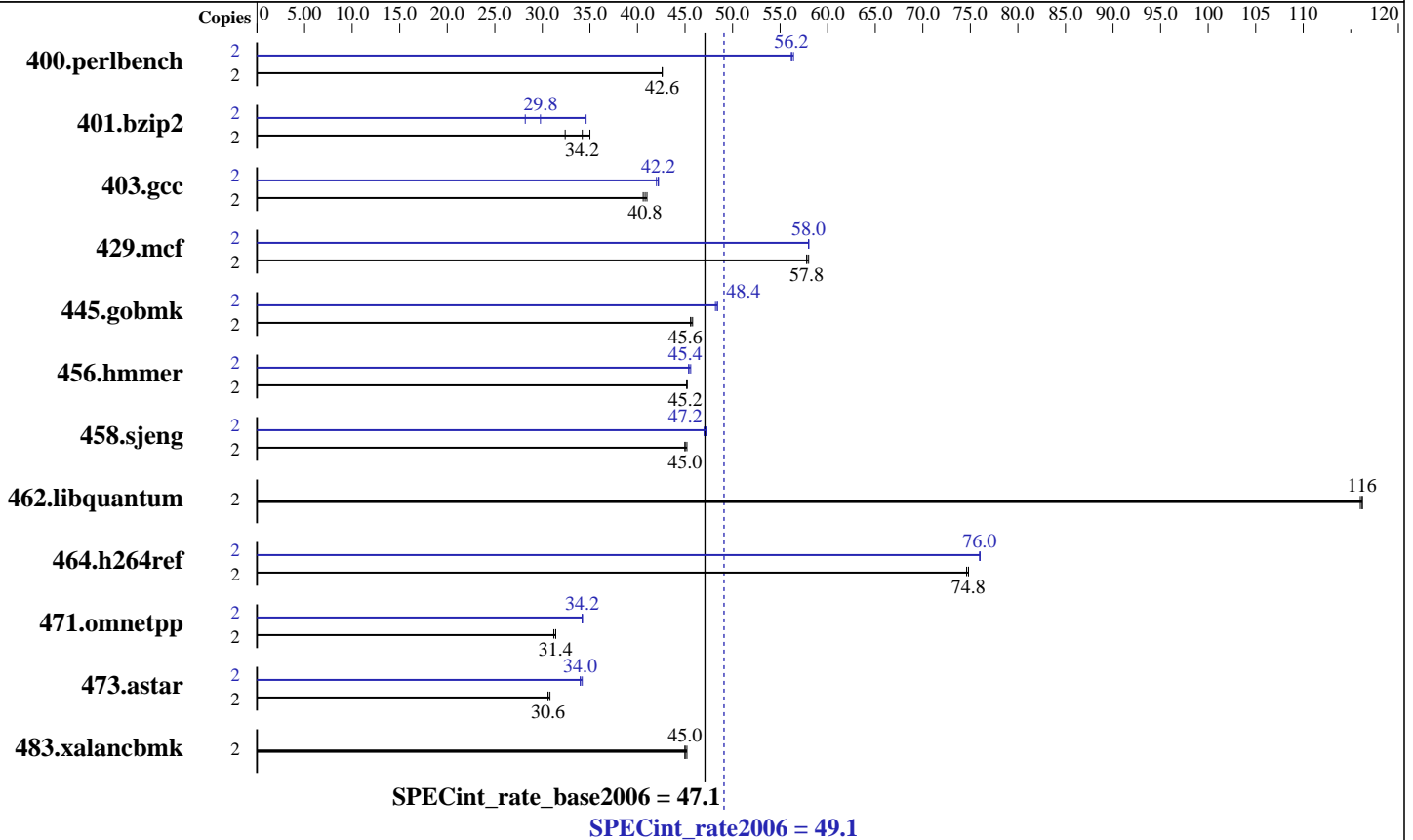
**CPU2006 license:** 13
**Test sponsor:** Intel Corporation
**Tested by:** Intel Corporation

**Test date:** Feb-2010
**Hardware Availability:** Jun-2009
**Software Availability:** Oct-2009



| | Copies | |
|---|---|---|
| 400.perlbench | 2 | 56.2 |
| | 2 | 42.6 |
| 401.bzip2 | 2 | 29.8 |
| | 2 | 34.2 |
| 403.gcc | 2 | 42.2 |
| | 2 | 40.8 |
| 429.mcf | 2 | 58.0 |
| | 2 | 57.8 |
| 445.gobmk | 2 | 48.4 |
| | 2 | 45.6 |
| 456.hmmer | 2 | 45.4 |
| | 2 | 45.2 |
| 458.sjeng | 2 | 47.2 |
| | 2 | 45.0 |
| 462.libquantum | 2 | 116 |
| 464.h264ref | 2 | 76.0 |
| | 2 | 74.8 |
| 471.omnetpp | 2 | 34.2 |
| | 2 | 31.4 |
| 473.astar | 2 | 34.0 |
| | 2 | 30.6 |
| 483.xalancbmk | 2 | 45.0 |

SPECint_rate_base2006 = 47.1

SPECint_rate2006 = 49.1

## Hardware

CPU Name: Intel Core 2 Duo E8600
CPU Characteristics:
CPU MHz: 3333
FPU: Integrated
CPU(s) enabled: 2 cores, 1 chip, 2 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 (2x2GB Micron MT16JTF25664AZ-1G4 DDR3-1333 CL9)
Disk Subsystem: Intel X25-M 80GB SSD
Other Hardware: None

## Software

Operating System: Windows Vista Ultimate w/ SP1 (64-bit)
Compiler: Intel C++ Compiler Professional 11.1 for IA32 Build 20090903 Package ID: w_cproc_p_11.1.045 Microsoft Visual Studio 2008 Professional SP1 (for libraries)
Auto Parallel: No
File System: NTFS
System State: Default
Base Pointers: 32-bit
Peak Pointers: 32-bit
Other Software: None
SmartHeap Library Version 8.1 from http://www.microquill.com/

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## Results Table

| Benchmark | Base Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Peak Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 400.perlbench | 2 | 460 | 42.6 | **459** | **42.6** | 459 | 42.6 | 2 | 347 | 56.4 | **347** | **56.2** | 348 | 56.2 |
| 401.bzip2 | 2 | 595 | 32.4 | **563** | **34.2** | 551 | 35.0 | 2 | 559 | 34.6 | **650** | **29.8** | 685 | 28.2 |
| 403.gcc | 2 | 393 | 41.0 | 396 | 40.6 | **394** | **40.8** | 2 | **381** | **42.2** | 381 | 42.2 | 383 | 42.0 |
| 429.mcf | 2 | 314 | 58.0 | **315** | **57.8** | 316 | 57.8 | 2 | 315 | 58.0 | 314 | 58.0 | **315** | **58.0** |
| 445.gobmk | 2 | 460 | 45.6 | 459 | 45.8 | **460** | **45.6** | 2 | **433** | **48.4** | 435 | 48.2 | 433 | 48.4 |
| 456.hmmer | 2 | 413 | 45.2 | 414 | 45.2 | **413** | **45.2** | 2 | 410 | 45.6 | **411** | **45.4** | 411 | 45.4 |
| 458.sjeng | 2 | 537 | 45.0 | 536 | 45.2 | **537** | **45.0** | 2 | 513 | 47.2 | 515 | 47.0 | **514** | **47.2** |
| 462.libquantum | 2 | **357** | **116** | 357 | 116 | 357 | 116 | 2 | **357** | **116** | 357 | 116 | 357 | 116 |
| 464.h264ref | 2 | 592 | 74.8 | 593 | 74.6 | **592** | **74.8** | 2 | 583 | 76.0 | 583 | 76.0 | **583** | **76.0** |
| 471.omnetpp | 2 | 400 | 31.2 | 399 | 31.4 | **399** | **31.4** | 2 | **366** | **34.2** | 365 | 34.2 | 366 | 34.2 |
| 473.astar | 2 | **458** | **30.6** | 457 | 30.8 | 458 | 30.6 | 2 | 413 | 34.0 | 412 | 34.2 | **412** | **34.0** |
| 483.xalancbmk | 2 | 306 | 45.2 | 307 | 45.0 | **306** | **45.0** | 2 | 306 | 45.2 | 307 | 45.0 | **306** | **45.0** |

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

## Submit Notes

```
    The config file option 'submit' was used.
    Windows start command was used to bind copies to processors
```

## General Notes

```
     Tested systems can be used with Shin-G ATX case,
    PC Power and Cooling 1200W power supply
    System was configured with an ATI 5970 discrete graphics card
```

## Base Compiler Invocation

C benchmarks:
```
     icl -Qvc9 -Qstd=c99
```

C++ benchmarks:
```
     icl -Qvc9
```

## Base Portability Flags

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

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## Base Optimization Flags

C benchmarks:
```
-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F512000000
```

C++ benchmarks:
```
-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx-features
/F512000000 shlW32M.lib          -link /FORCE:MULTIPLE
```

## Base Other Flags

C benchmarks:

```
403.gcc: -Dalloca=_alloca
```

## Peak Compiler Invocation

C benchmarks:
```
icl -Qvc9 -Qstd=c99
```

C++ benchmarks:
```
icl -Qvc9
```

## Peak Portability Flags

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

## Peak Optimization Flags

C benchmarks:

```
  400.perlbench: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
                 -Qipo -O3 -Qprec-div- -Qansi-alias -Qopt-prefetch
                 /F512000000 shlW32M.lib          -link /FORCE:MULTIPLE

      401.bzip2: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
                 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qansi-alias
                 /F512000000

        403.gcc: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
                 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F512000000
```

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# Peak Optimization Flags (Continued)

```
  429.mcf: -QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch
           /F512000000

445.gobmk: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
           -Qipo -O2 -Qprec-div- -Qansi-alias /F512000000

456.hmmer: -QxSSE4.1 -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias
           /F512000000

 458.sjeng: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
           -Qipo -O3 -Qprec-div- -Qunroll4 /F512000000

462.libquantum: basepeak = yes

464.h264ref: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
           -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias /F512000000
```

C++ benchmarks:

```
471.omnetpp: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
           -Qipo -O3 -Qprec-div- -Qansi-alias
           -Qopt-ra-region-strategy=block /F512000000 shlW32M.lib
                   -link /FORCE:MULTIPLE

  473.astar: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
           -Qipo -O3 -Qprec-div- -Qansi-alias
           -Qopt-ra-region-strategy=routine /F512000000 shlW32M.lib
                   -link /FORCE:MULTIPLE

483.xalancbmk: basepeak = yes
```

# 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-ic11.0-winx64-revA.20100302.02.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic11.0-winx64-revA.20100302.02.xml

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Tested with SPEC CPU2006 v1.1.
Report generated on Wed Jul 23 06:44:38 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on  2 March 2010.