



# SPEC® CINT2006 Result

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Dell Inc.

SPECint®2006 = 21.3

Dell Precision T3400 (Intel E6850, 3.00 GHz)

SPECint\_base2006 = 19.8

CPU2006 license: 55

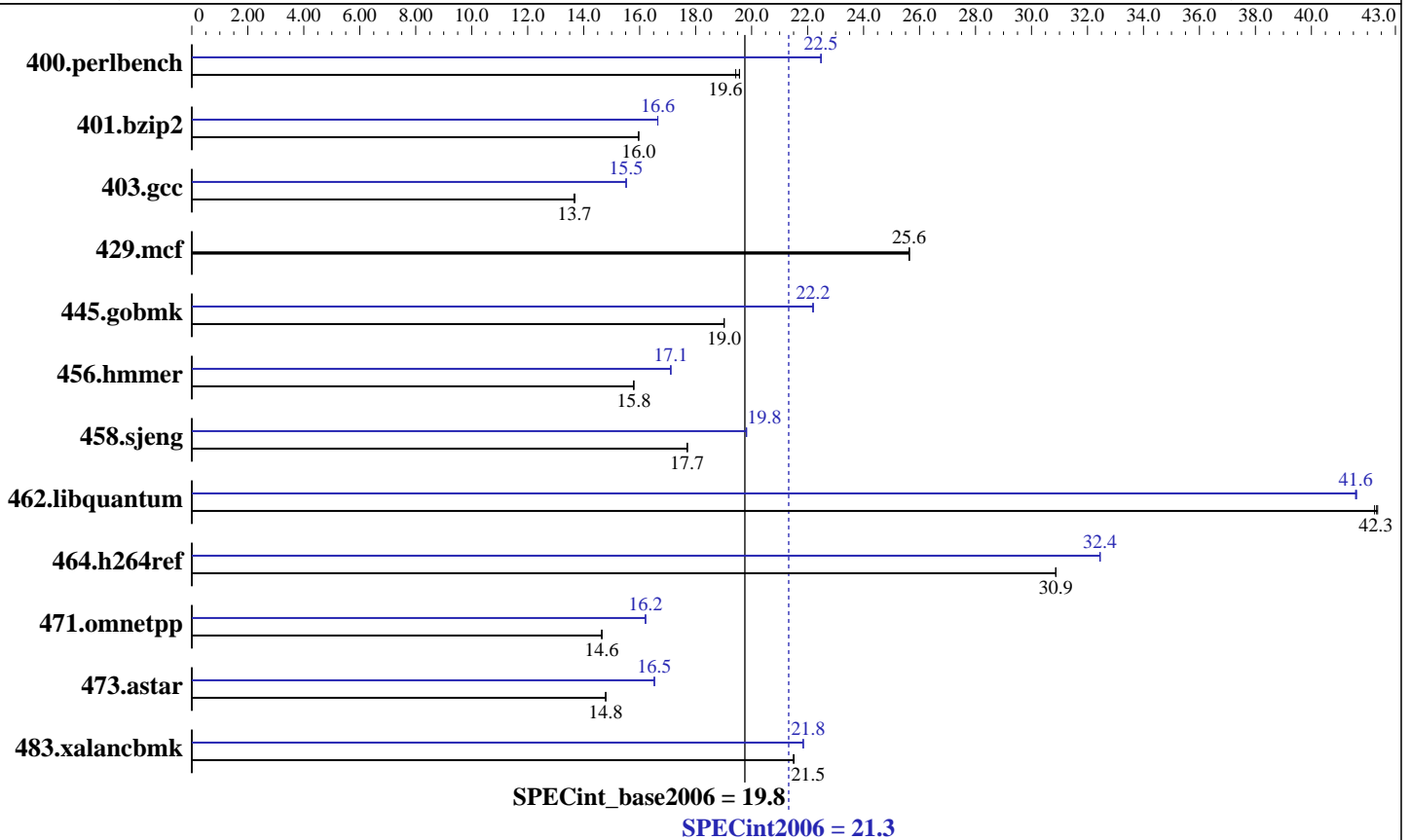
Test date: Nov-2007

Test sponsor: Dell Inc.

Hardware Availability: Oct-2007

Tested by: Dell Inc.

Software Availability: Nov-2007



### Hardware

CPU Name: Intel Core 2 Duo E6850  
 CPU Characteristics: 1333 MHz Bus Speed  
 CPU MHz: 3000  
 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: 4 MB I+D on chip per chip  
 L3 Cache: None  
 Other Cache: None  
 Memory: 4 GB (4x1 GB 800 MHz ECC CL6 DDR2)  
 Disk Subsystem: 1 x 80 GB SATA 7200 RPM  
 Other Hardware: None

### Software

Operating System: Windows XP Professional x64 Edition SP2  
 Compiler: Intel C++ Compiler for IA-32, Version 10.1  
 Build 20070913 Package ID: w\_cc\_p\_10.1.011  
 Microsoft Visual Studio 2005 SP1  
 Auto Parallel: Yes  
 File System: NTFS  
 System State: Default  
 Base Pointers: 32-bit  
 Peak Pointers: 32-bit  
 Other Software: MicroQuill SmartHeap Library 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  | 503        | 19.4        | 499        | 19.6        | <u>499</u> | <u>19.6</u> | <u>435</u> | <u>22.5</u> | 435        | 22.5        | 435        | 22.5        |
| 401.bzip2      | 605        | 16.0        | 604        | 16.0        | <u>604</u> | <u>16.0</u> | 580        | 16.6        | 580        | 16.6        | <u>580</u> | <u>16.6</u> |
| 403.gcc        | 588        | 13.7        | <u>589</u> | <u>13.7</u> | 590        | 13.7        | <u>519</u> | <u>15.5</u> | 519        | 15.5        | 519        | 15.5        |
| 429.mcf        | 356        | 25.6        | 356        | 25.6        | <u>356</u> | <u>25.6</u> | 356        | 25.6        | 356        | 25.6        | <u>356</u> | <u>25.6</u> |
| 445.gobmk      | <u>552</u> | <u>19.0</u> | 552        | 19.0        | 552        | 19.0        | 473        | 22.2        | 472        | 22.2        | <u>473</u> | <u>22.2</u> |
| 456.hammer     | <u>591</u> | <u>15.8</u> | 591        | 15.8        | 591        | 15.8        | <u>545</u> | <u>17.1</u> | 545        | 17.1        | 545        | 17.1        |
| 458.sjeng      | 684        | 17.7        | <u>684</u> | <u>17.7</u> | 684        | 17.7        | 610        | 19.8        | <u>611</u> | <u>19.8</u> | 611        | 19.8        |
| 462.libquantum | 489        | 42.4        | <u>490</u> | <u>42.3</u> | 490        | 42.3        | <u>498</u> | <u>41.6</u> | 498        | 41.6        | 498        | 41.6        |
| 464.h264ref    | <u>717</u> | <u>30.9</u> | 717        | 30.9        | 717        | 30.9        | 682        | 32.4        | <u>682</u> | <u>32.4</u> | 682        | 32.5        |
| 471.omnetpp    | 427        | 14.6        | 427        | 14.6        | <u>427</u> | <u>14.6</u> | <u>386</u> | <u>16.2</u> | 386        | 16.2        | 386        | 16.2        |
| 473.astar      | <u>475</u> | <u>14.8</u> | 475        | 14.8        | 475        | 14.8        | <u>425</u> | <u>16.5</u> | 425        | 16.5        | 425        | 16.5        |
| 483.xalancbmk  | 321        | 21.5        | <u>321</u> | <u>21.5</u> | 321        | 21.5        | 316        | 21.8        | 316        | 21.8        | <u>316</u> | <u>21.8</u> |

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

## General Notes

Binaries were built on Windows Vista Ultimate (64-bit)

## Compiler Invocation

C benchmarks:  
icl -Qstd=c99

C++ benchmarks:  
icl

## 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 -Qparallel -Qpar-runtime-control -Qvec-guard-write /F512000000  
shlw32mt.lib libguide40.lib -link /FORCE:MULTIPLE

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## Base Optimization Flags (Continued)

C++ benchmarks:

```
-fast -Qcxx_features /F512000000 shlw32mt.lib libguide40.lib
-link /FORCE:MULTIPLE
```

## Peak Optimization Flags

C benchmarks:

```
400.perlbench: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qprefetch -Qparallel -Qpar-runtime-control /F512000000
shlw32mt.lib libguide40.lib
-link /FORCE:MULTIPLE
```

```
401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch
/F512000000 shlw32mt.lib libguide40.lib
-link /FORCE:MULTIPLE
```

```
403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
shlw32mt.lib libguide40.lib
-link /FORCE:MULTIPLE
```

```
429.mcf: basepeak = yes
```

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

```
456.hmmer: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
-Qansi-alias -Qopt-multi-version-aggressive /F512000000
shlw32mt.lib libguide40.lib
-link /FORCE:MULTIPLE
```

```
458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll14
/F512000000 shlw32mt.lib libguide40.lib
-link /FORCE:MULTIPLE
```

```
462.libquantum: -fast -Qunroll14 -Ob0 -Qprefetch
-Qopt-streaming-stores:always -Qparallel
-Qpar-runtime-control /F512000000 shlw32mt.lib
libguide40.lib -link /FORCE:MULTIPLE
```

```
464.h264ref: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll12
-Qansi-alias /F512000000 shlw32mt.lib libguide40.lib
-link /FORCE:MULTIPLE
```

C++ benchmarks:

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## Peak Optimization Flags (Continued)

```
471.omnetpp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
             -Qopt-ra-region-strategy=block -Qcxx_features /F512000000
             shlw32mt.lib libguide40.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
           shlw32mt.lib libguide40.lib
           -link /FORCE:MULTIPLE
```

```
483.xalancbmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
              -Qcxx_features /F512000000 shlw32mt.lib libguide40.lib
              -link /FORCE:MULTIPLE
```

## 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.ic10.1.windows.flags.20090714.01.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/dell.ic10.1.windows.flags.20090714.01.xml>

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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

Tested with SPEC CPU2006 v1.0.  
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