



# SPEC® CINT2006 Result

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Dell Inc.

SPECint®\_rate2006 = 125

Dell Precision R5400 (Intel Xeon E5450, 3.00 GHz)

SPECint\_rate\_base2006 = 107

CPU2006 license: 55

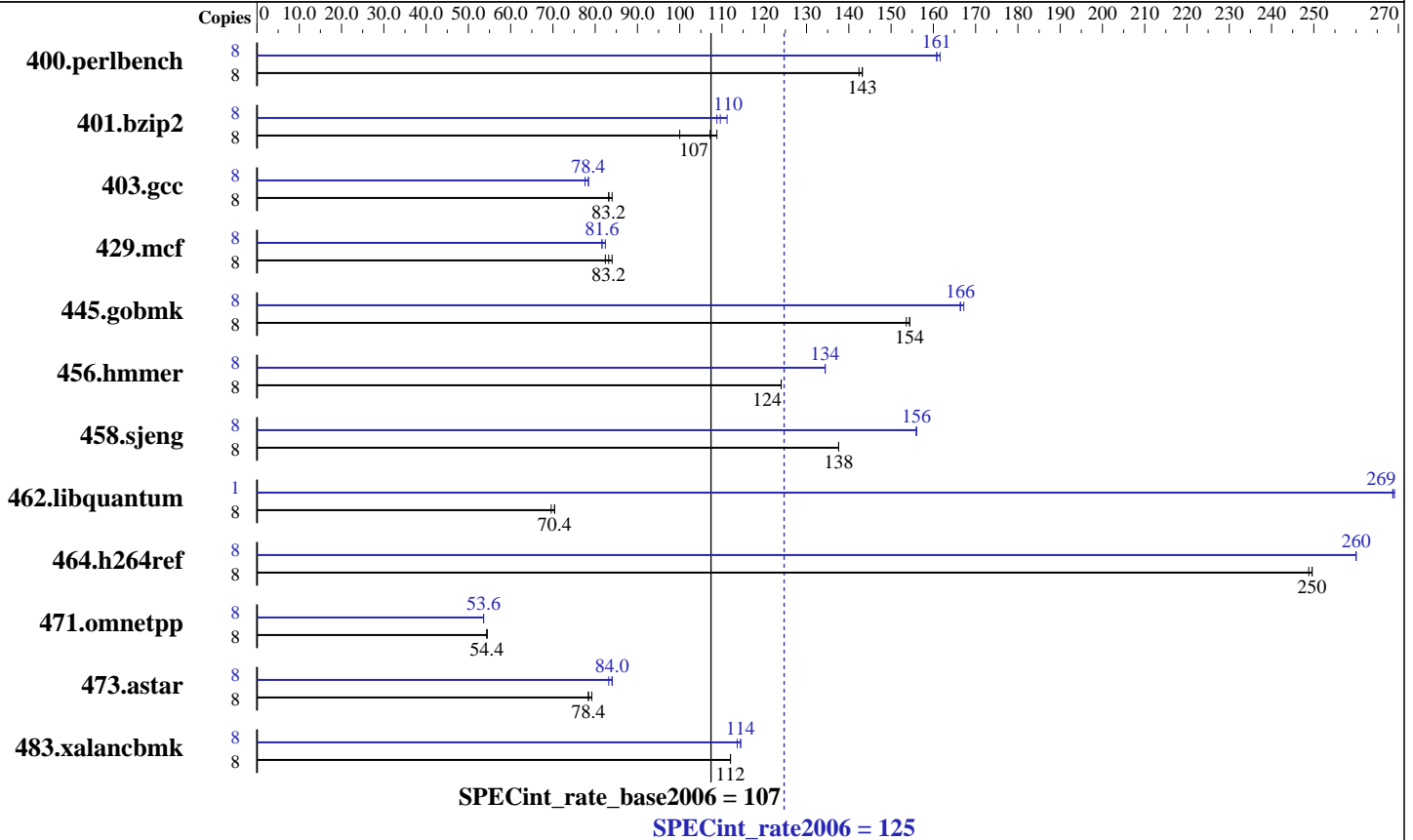
Test date: Jun-2008

Test sponsor: Dell Inc.

Hardware Availability: Jul-2008

Tested by: Dell Inc.

Software Availability: Mar-2008



### Hardware

CPU Name: Intel Xeon E5450  
 CPU Characteristics: 1333 MHz Bus Speed  
 CPU MHz: 3000  
 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: 12 MB I+D on chip per chip, 6 MB shared / 2 cores  
 L3 Cache: None  
 Other Cache: None  
 Memory: 16 GB (4x4 GB 667 MHz CL5 FB-DIMM)  
 Disk Subsystem: 2 x 320 GB SATA 7200 RPM, RAID0  
 Other Hardware: None

### Software

Operating System: Windows Vista Ultimate (64-bit)  
 Compiler: Intel C++ Compiler for IA-32, Version 10.1  
 Build 20080312 Package ID: w\_cc\_p\_10.1.021  
 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 8.1



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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	8	549	142	<u>547</u>	<u>143</u>	546	143	8	483	162	486	161	<u>485</u>	<u>161</u>
401.bzip2	8	770	100	<u>718</u>	<u>107</u>	710	109	8	695	111	<u>706</u>	<u>110</u>	708	109
403.gcc	8	777	83.2	770	84.0	<u>776</u>	<u>83.2</u>	8	<u>824</u>	<u>78.4</u>	818	78.4	831	77.6
429.mcf	8	882	82.4	872	84.0	<u>878</u>	<u>83.2</u>	8	889	82.4	896	81.6	<u>892</u>	<u>81.6</u>
445.gobmk	8	545	154	<u>544</u>	<u>154</u>	544	154	8	503	167	<u>504</u>	<u>166</u>	504	166
456.hammer	8	601	124	<u>601</u>	<u>124</u>	602	124	8	<u>554</u>	<u>134</u>	555	134	554	134
458.sjeng	8	702	138	703	138	<u>702</u>	<u>138</u>	8	<u>620</u>	<u>156</u>	621	156	620	156
462.libquantum	8	2367	70.4	<u>2368</u>	<u>70.4</u>	2373	69.6	1	<u>77.1</u>	<u>269</u>	77.0	269	77.1	269
464.h264ref	8	708	250	<u>709</u>	<u>250</u>	712	249	8	680	260	681	260	<u>681</u>	<u>260</u>
471.omnetpp	8	921	54.4	<u>918</u>	<u>54.4</u>	918	54.4	8	927	53.6	<u>927</u>	<u>53.6</u>	926	53.6
473.astar	8	<u>714</u>	<u>78.4</u>	708	79.2	716	78.4	8	673	83.2	666	84.0	<u>669</u>	<u>84.0</u>
483.xalancbmk	8	493	112	<u>492</u>	<u>112</u>	492	112	8	484	114	481	114	<u>483</u>	<u>114</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)

## Base Compiler Invocation

C benchmarks:  
icl -Qstd=c99  
C++ benchmarks:  
icl

## 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

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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 -Qstd=c99
```

C++ benchmarks:

```
icl
```

## 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
```

```
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: Same as 401.bzip2
```

```
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.hmmcr: -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 shlw32mt.lib

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/dell.ic10.1.windows.flags.20090713.00.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.20090713.00.xml>



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

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