



SPEC® CINT2006 Result

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Dell Inc.

PowerEdge 1955 (Intel Xeon processor X5355, 2.66 GHz)

SPECint®_rate2006 = 82.5

SPECint_rate_base2006 = 80.4

CPU2006 license: 55

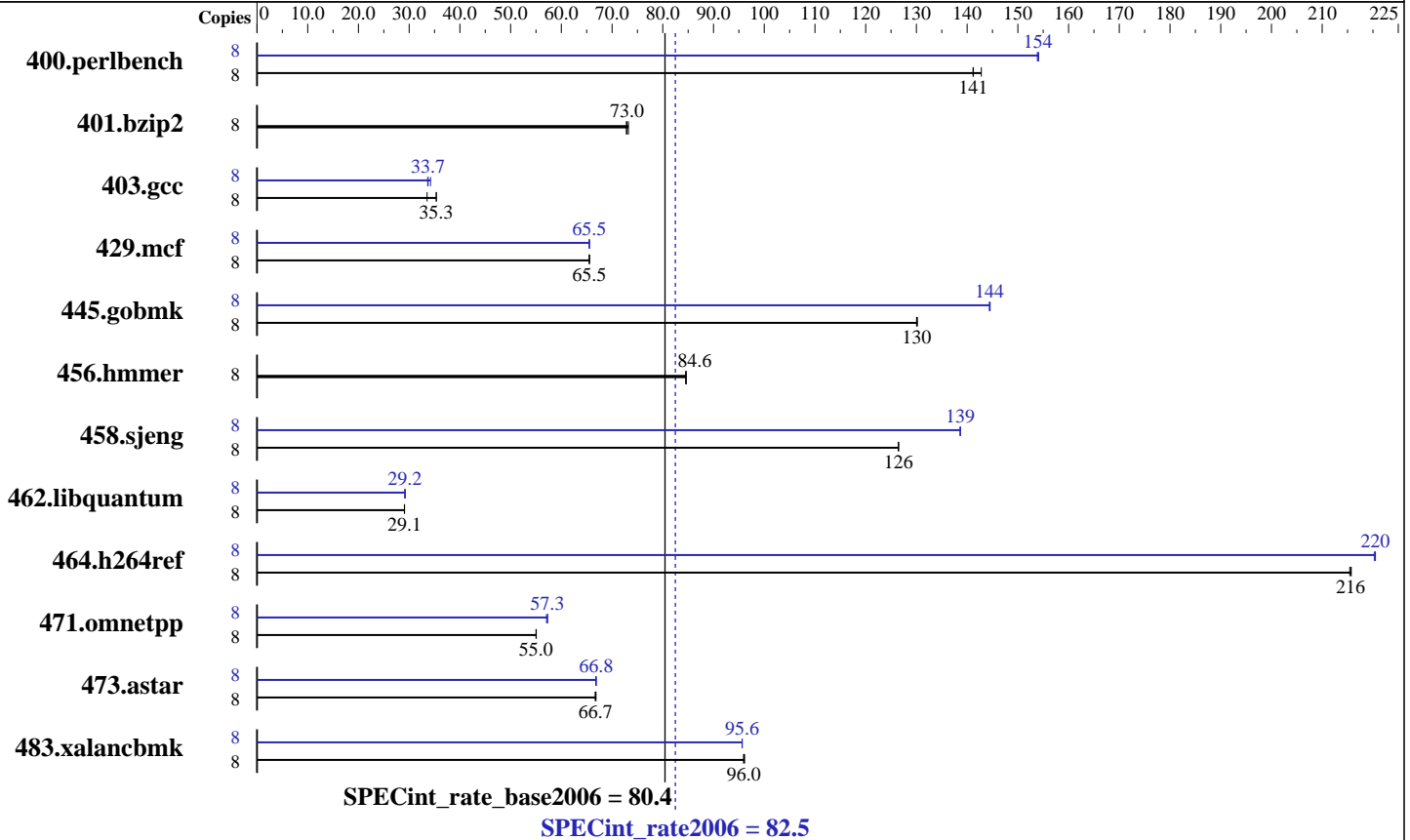
Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Mar-2007

Hardware Availability: Dec-2006

Software Availability: Nov-2006



Hardware

CPU Name: Intel Xeon X5355
 CPU Characteristics: 1333 MHz Bus Speed
 CPU MHz: 2666
 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: 8 MB I+D on chip per chip, 4 MB shared / 2 cores
 L3 Cache: None
 Other Cache: None
 Memory: 8 GB (8 x 1 GB 667 MHz CL5 FB-DIMM DDR2 SDRAM)
 Disk Subsystem: 1 x 36GB SAS 10000 RPM
 Other Hardware: None

Software

Operating System: Windows Server 2003 Enterprise x64 Edition + SP1 (64-bit)
 Compiler: Intel C++ Compiler 9.1 for IA32 (20061103Z)
 Microsoft Visual Studio 2005
 Auto Parallel: No
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: None
 MicroQuill SmartHeap Library 8.0



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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	547	143	<u>553</u>	<u>141</u>	554	141	8	508	154	<u>508</u>	<u>154</u>	507	154
401.bzip2	8	1054	73.2	1060	72.8	<u>1058</u>	<u>73.0</u>	8	1054	73.2	1060	72.8	<u>1058</u>	<u>73.0</u>
403.gcc	8	<u>1823</u>	<u>35.3</u>	1821	35.4	1921	33.5	8	<u>1909</u>	<u>33.7</u>	1914	33.6	1882	34.2
429.mcf	8	1113	65.6	1114	65.5	<u>1113</u>	<u>65.5</u>	8	1114	65.5	1113	65.5	<u>1113</u>	<u>65.5</u>
445.gobmk	8	<u>645</u>	<u>130</u>	645	130	645	130	8	<u>581</u>	<u>144</u>	581	144	581	145
456.hammer	8	<u>882</u>	<u>84.6</u>	883	84.5	882	84.6	8	<u>882</u>	<u>84.6</u>	883	84.5	882	84.6
458.sjeng	8	766	126	<u>766</u>	<u>126</u>	765	126	8	698	139	698	139	<u>698</u>	<u>139</u>
462.libquantum	8	5704	29.1	5699	29.1	<u>5701</u>	<u>29.1</u>	8	<u>5685</u>	<u>29.2</u>	5690	29.1	5672	29.2
464.h264ref	8	<u>821</u>	<u>216</u>	821	216	822	215	8	803	220	804	220	<u>803</u>	<u>220</u>
471.omnetpp	8	909	55.0	<u>909</u>	<u>55.0</u>	908	55.1	8	876	57.1	<u>873</u>	<u>57.3</u>	873	57.3
473.astar	8	<u>842</u>	<u>66.7</u>	842	66.7	840	66.8	8	<u>840</u>	<u>66.8</u>	841	66.8	840	66.9
483.xalanbmk	8	<u>575</u>	<u>96.0</u>	574	96.1	576	95.9	8	<u>577</u>	<u>95.6</u>	577	95.6	577	95.7

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

Platform Notes

Hardware Prefetcher disabled in BIOS
Adjacent Cache Line Prefetch disabled in BIOS

Base Compiler Invocation

C benchmarks:
icl -Qc99
C++ benchmarks:
icl

Base Portability Flags

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

Base Optimization Flags

C benchmarks:
-fast /F512000000 shlw32M.lib -link /FORCE:MULTIPLE

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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 -Qc99
```

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: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
/F512000000 shlW32M.lib -link /FORCE:MULTIPLE
```

```
401.bzip2: basepeak = yes
```

```
403.gcc: Same as 400.perlbench
```

```
429.mcf: ONESTEP -fast /F512000000 shlW32M.lib
-link /FORCE:MULTIPLE
```

```
445.gobmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
shlW32M.lib -link /FORCE:MULTIPLE
```

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Peak Optimization Flags (Continued)

456.hmmr: basepeak = yes

458.sjeng: Same as 400.perlbench

462.libquantum: Same as 400.perlbench

464.h264ref: Same as 400.perlbench

C++ benchmarks:

471.omnetpp: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
-Qcxx_features /F512000000 shlW32M.lib
-link /FORCE:MULTIPLE

473.astar: Same as 471.omnetpp

483.xalancbmk: ONESTEP -fast -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.cpu2006.ic91.flags.html>

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

<http://www.spec.org/cpu2006/flags/dell.cpu2006.ic91.flags.xml>

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