SPEC® CINT2006 Result
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Dell Inc.

PowerEdge 6950 (AMD Opteron 8220 SE, 2.8 GHz)

SPECint®2006 =   11.4

SPECint_base2006 =   10.6

CPU2006 license: 55

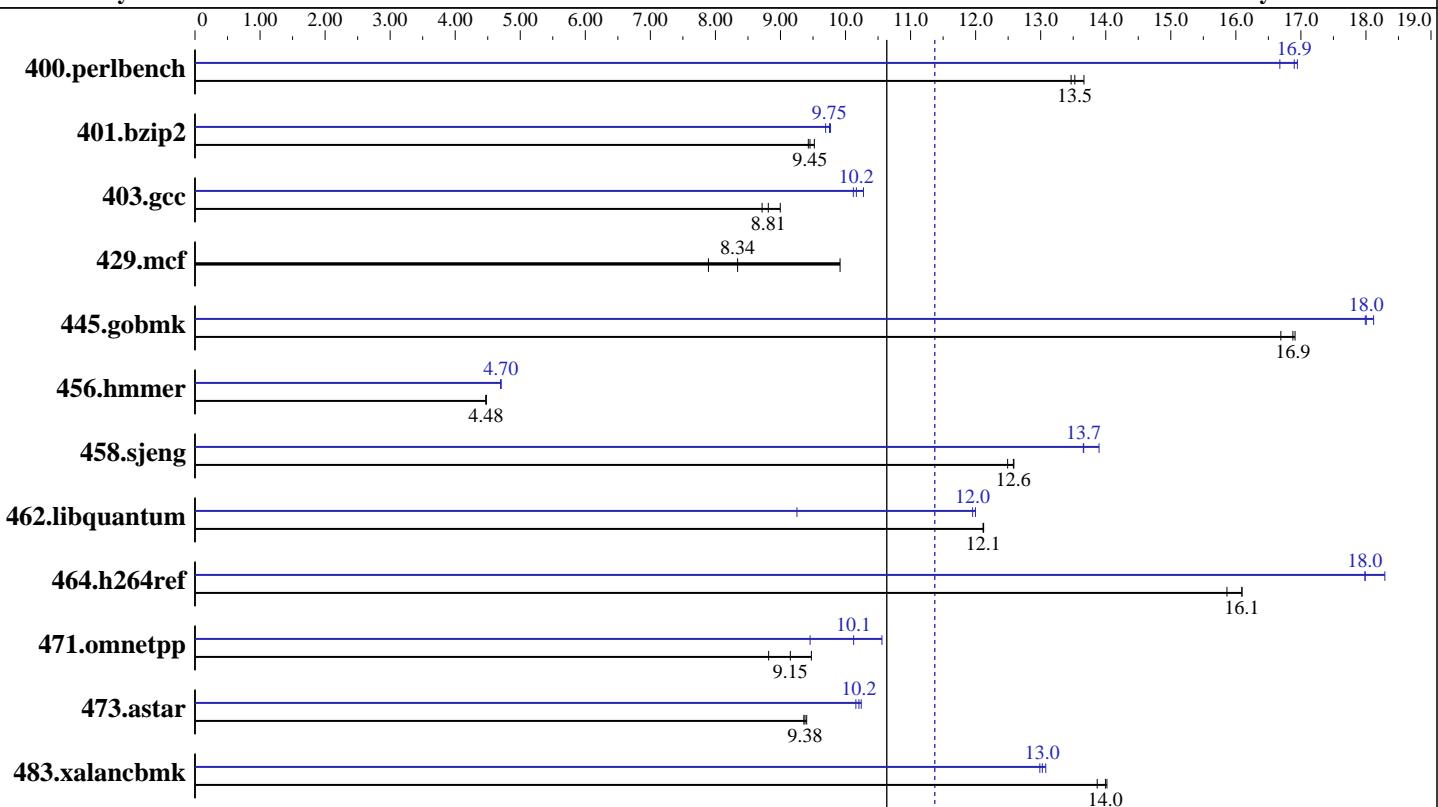**Test sponsor:** Dell Inc.

Tested by: Dell Inc.

Test date: Aug-2007

Hardware Availability: Apr-2007

Software Availability: Jun-2007

Benchmark	Peak	Base
400.perlbench	16.9	13.5
401.bzip2	9.75	9.45
403.gcc	10.2	8.81
429.mcf		8.34
445.gobmk	18.0	16.9
456.hmmer	4.70	4.48
458.sjeng	13.7	12.6
462.libquantum	12.0	12.1
464.h264ref	18.0	16.1
471.omnetpp	10.1	9.15
473.astar	10.2	9.38
483.xalancbmk	13.0	14.0

SPECint_base2006 = 10.6

SPECint2006 = 11.4

Hardware

CPU Name:	AMD Opteron 8220 SE
CPU Characteristics:	
CPU MHz:	2800
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	2,4 chips
Primary Cache:	64 KB I + 64 KB D on chip per core
Secondary Cache:	1 MB I+D on chip per core
L3 Cache:	None
Other Cache:	None
Memory:	16 GB (8 x 2 GB DDR2-667 CL5 ECC)
Disk Subsystem:	1 x 146 GB SAS 15K RPM
Other Hardware:	None

Software

Operating System:	Microsoft Windows Server 2003 Enterprise x64 Edition
Compiler:	Intel C++ Compiler for IA32 version 10.0 Build 20070426 Package ID: W_CC_P_10.0.025 Microsoft Visual Studio .Net 2003 (for libraries)
Auto Parallel:	No
File System:	NTFS
System State:	Default
Base Pointers:	32-bit
Peak Pointers:	32-bit
Other Software:	MicroQuill SmartHeap Library Version 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	**722**	**13.5**	715	13.7	725	13.5	**578**	**16.9**	586	16.7	577	16.9
401.bzip2	1014	9.52	**1021**	**9.45**	1024	9.43	**989**	**9.75**	995	9.69	988	9.77
403.gcc	895	9.00	**913**	**8.81**	923	8.72	795	10.1	**792**	**10.2**	783	10.3
429.mcf	1156	7.89	920	9.92	**1093**	**8.34**	1156	7.89	920	9.92	**1093**	**8.34**
445.gobmk	**622**	**16.9**	628	16.7	620	16.9	**583**	**18.0**	579	18.1	583	18.0
456.hmmer	2087	4.47	2084	4.48	**2085**	**4.48**	**1984**	**4.70**	1986	4.70	1984	4.70
458.sjeng	**962**	**12.6**	969	12.5	961	12.6	886	13.7	871	13.9	**886**	**13.7**
462.libquantum	1709	12.1	1710	12.1	**1710**	**12.1**	2239	9.25	1727	12.0	**1733**	**12.0**
464.h264ref	**1375**	**16.1**	1395	15.9	1375	16.1	**1230**	**18.0**	1210	18.3	1230	18.0
471.omnetpp	709	8.82	**683**	**9.15**	660	9.47	592	10.6	661	9.46	**617**	**10.1**
473.astar	747	9.40	**749**	**9.38**	750	9.36	**688**	**10.2**	685	10.2	691	10.2
483.xalancbmk	**493**	**14.0**	498	13.9	492	14.0	531	13.0	528	13.1	**530**	**13.0**

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

Base Compiler Invocation

C benchmarks:
```
icl -Qvc7.1 -Qc99
```

C++ benchmarks:
```
icl -Qvc7.1
```

Base Portability Flags

```
    403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
```

Base Optimization Flags

C benchmarks:
```
-QxW -Qipo -O3 -Qprec-div- /F512000000 shlw32m.lib
        -link /FORCE:MULTIPLE
```

C++ benchmarks:
```
-QxW -Qipo -O3 -Qprec-div- -Qcxx_features /F512000000 shlw32m.lib
        -link /FORCE:MULTIPLE
```

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Base Other Flags

C benchmarks:

> 403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks:
> icl -Qvc7.1 -Qc99

C++ benchmarks:
> icl -Qvc7.1

Peak Portability Flags

> 403.gcc: -DSPEC_CPU_WIN32
> 464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32

Peak Optimization Flags

C benchmarks:

> 400.perlbench: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxW -Qipo -O3
> -Qprec-div- -Qansi-alias -Qprefetch /F512000000
> shlw32m.lib   -link /FORCE:MULTIPLE

> 401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxW -Qipo -O3
> -Qprec-div- /F512000000 shlw32m.lib
>   -link /FORCE:MULTIPLE

> 403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxW -Qipo -O3
> -Qprec-div- /F512000000   -link /FORCE:MULTIPLE

> 429.mcf: basepeak = yes

> 445.gobmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxW -O2 -Qipo
> -Qprec_div- -Qansi-alias /F512000000
>   -link /FORCE:MULTIPLE

> 456.hmmer: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxW -Qipo -O3
> -Qprec-div- -Qunroll2 -Qansi-alias /F512000000
> shlw32m.lib   -link /FORCE:MULTIPLE

> 458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxW -Qipo -O3
> -Qprec-div- -Qunroll4 /F512000000 shlw32m.lib
>   -link /FORCE:MULTIPLE

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Peak Optimization Flags (Continued)

```
    462.libquantum: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxW -Qipo -O3
                    -Qprec-div- -Qunroll4 -Ob0 -Qprefetch
                    -Qopt-streaming-stores:always /F512000000 shlw32m.lib
                            -link /FORCE:MULTIPLE

       464.h264ref: Same as 456.hmmer

    C++ benchmarks:
        -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxW -Qipo -O3 -Qprec-div-
        -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-Intel-ic10-ia32.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Dell-Intel-ic10-ia32.xml

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