SPEC® CINT2006 Result

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Dell Inc.

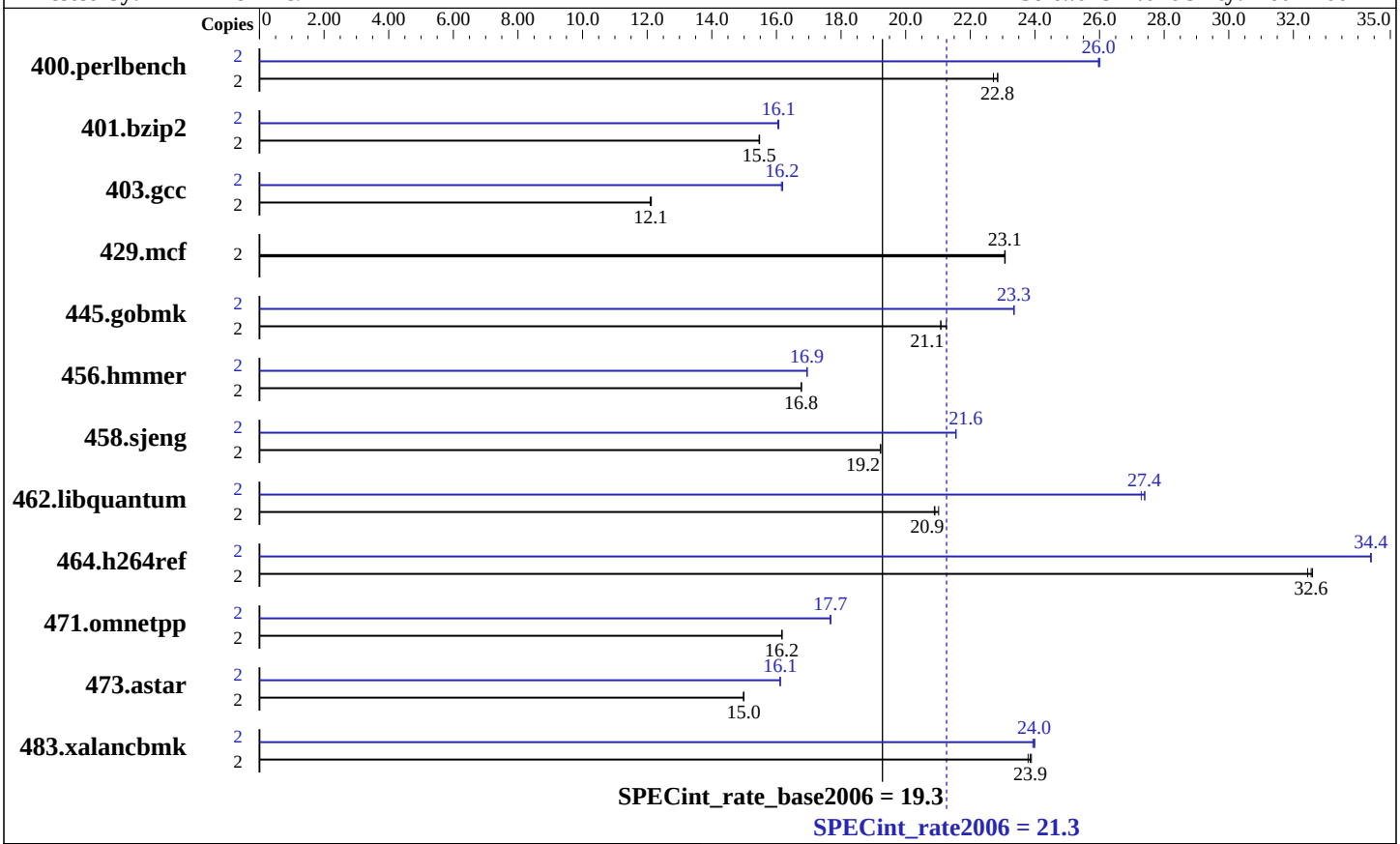
PowerEdge 2950 (Intel Xeon 5110, 1.60 GHz)

SPECint®_rate2006 = 21.3

SPECint_rate_base2006 = 19.3

CPU2006 license: 55
Test sponsor: Dell Inc.
Tested by: Dell Inc.

Test date: Aug-2007
Hardware Availability: Jul-2006
Software Availability: Jun-2007



Hardware

CPU Name:	Intel Xeon 5110
CPU Characteristics:	1066 MHz Bus Speed
CPU MHz:	1600
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip
CPU(s) orderable:	1,2 chips
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:	8 GB (8 x 1 GB 667MHz CL5 DDR2 FB-DIMM SDRAM)
Disk Subsystem:	1 x 73 GB SAS 10K 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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	2	860	22.7	855	22.8	**855**	**22.8**	2	752	26.0	**752**	**26.0**	751	26.0
401.bzip2	2	1248	15.5	1247	15.5	**1248**	**15.5**	2	1201	16.1	1203	16.0	**1201**	**16.1**
403.gcc	2	1327	12.1	**1330**	**12.1**	1331	12.1	2	994	16.2	997	16.2	**995**	**16.2**
429.mcf	2	791	23.1	**791**	**23.1**	790	23.1	2	791	23.1	**791**	**23.1**	790	23.1
445.gobmk	2	995	21.1	**995**	**21.1**	987	21.3	2	899	23.3	**899**	**23.3**	898	23.4
456.hmmer	2	1113	16.8	**1113**	**16.8**	1113	16.8	2	1101	16.9	1101	16.9	**1101**	**16.9**
458.sjeng	2	1259	19.2	**1259**	**19.2**	1259	19.2	2	1123	21.6	1123	21.6	**1123**	**21.6**
462.libquantum	2	1971	21.0	**1982**	**20.9**	1984	20.9	2	1518	27.3	**1513**	**27.4**	1512	27.4
464.h264ref	2	1358	32.6	1364	32.4	**1360**	**32.6**	2	1286	34.4	1287	34.4	**1287**	**34.4**
471.omnetpp	2	**773**	**16.2**	773	16.2	773	16.2	2	708	17.7	**707**	**17.7**	707	17.7
473.astar	2	937	15.0	937	15.0	**937**	**15.0**	2	871	16.1	871	16.1	**871**	**16.1**
483.xalancbmk	2	580	23.8	578	23.9	**578**	**23.9**	2	577	23.9	**576**	**24.0**	575	24.0

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

General Notes

```
"start /b /wait /affinity" used to bind processes to cores
```

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:

```
-fast /F512000000 shlw32m.lib            -link /FORCE:MULTIPLE
```

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 -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) `-fast -Qansi-alias -Qprefetch /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

401.bzip2: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

403.gcc: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast /F512000000 -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 /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

458.sjeng: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -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) `-fast -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) `-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/Intel-ic10-ia32-intel64-linux-flags.20090714.43.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.43.xml`

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