SPEC® CINT2006 Result

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Dell Inc.

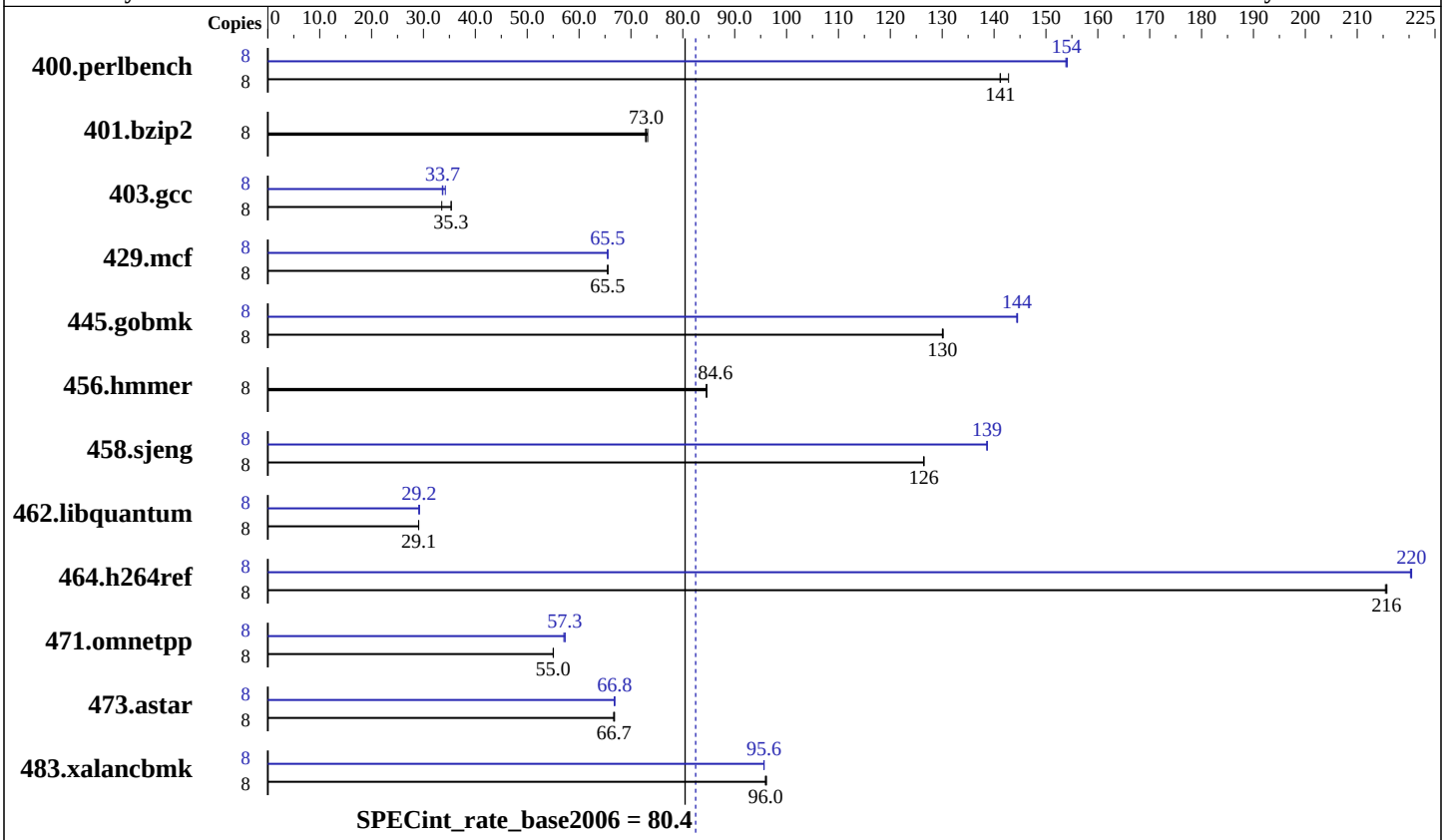
PowerEdge 1955 (Intel Xeon processor X5355, 2.66 GHz)

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

Base Optimization Flags

C benchmarks:

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

Continued on next page

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.hmmer: `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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