SPEC® CINT2006 Result

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Dell Inc.

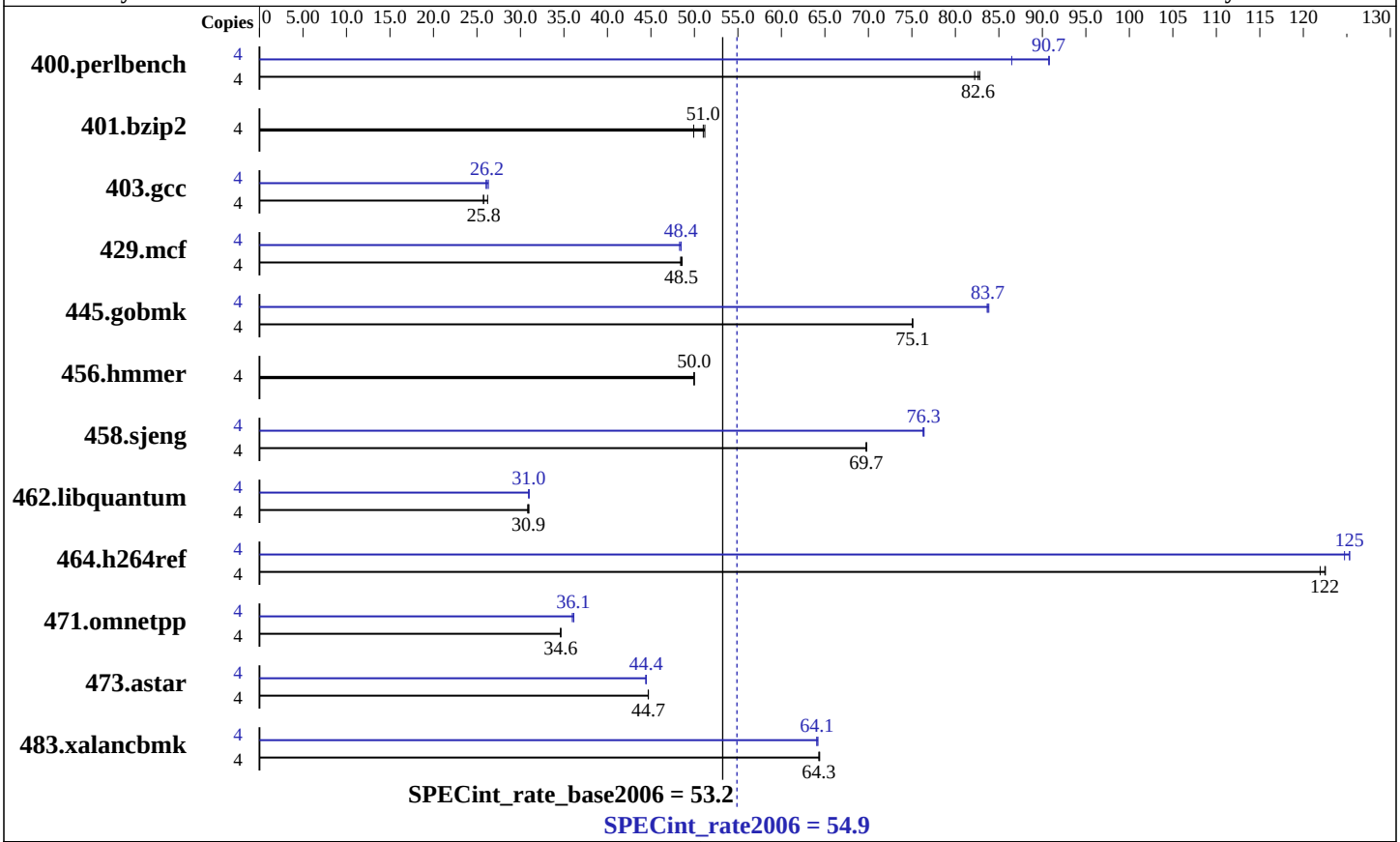
Dell Precision 690 (Intel Xeon 5160, 3.00 GHz)

SPECint®_rate2006 = 54.9

SPECint_rate_base2006 = 53.2

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

Test date: Jan-2007
Hardware Availability: May-2006
Software Availability: Jan-2007



Hardware

CPU Name:	Intel Xeon 5160
CPU Characteristics:	1333 MHz Bus Speed
CPU MHz:	3000
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 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 (8x1 GB 667 MHz ECC CL5 DDR2 FB-DIMM)
Disk Subsystem:	1 x 72 GB SAS 10K RPM
Other Hardware:	None

Software

Operating System:	Windows XP Professional x64 Edition
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:	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	4	475	82.2	**473**	**82.6**	472	82.8	4	452	86.5	**431**	**90.7**	430	90.8
401.bzip2	4	773	49.9	**757**	**51.0**	754	51.2	4	773	49.9	**757**	**51.0**	754	51.2
403.gcc	4	1251	25.7	**1250**	**25.8**	1228	26.2	4	1237	26.0	**1231**	**26.2**	1224	26.3
429.mcf	4	751	48.6	**752**	**48.5**	754	48.4	4	753	48.5	755	48.3	**753**	**48.4**
445.gobmk	4	559	75.0	**559**	**75.1**	559	75.1	4	502	83.7	**501**	**83.7**	500	83.8
456.hmmer	4	747	50.0	**747**	**50.0**	747	50.0	4	747	50.0	**747**	**50.0**	747	50.0
458.sjeng	4	**694**	**69.7**	693	69.8	694	69.7	4	634	76.3	634	76.4	**634**	**76.3**
462.libquantum	4	**2680**	**30.9**	2688	30.8	2676	31.0	4	**2675**	**31.0**	2679	30.9	2674	31.0
464.h264ref	4	726	122	722	123	**723**	**122**	4	710	125	**706**	**125**	706	125
471.omnetpp	4	722	34.6	**722**	**34.6**	722	34.6	4	692	36.1	695	36.0	**693**	**36.1**
473.astar	4	628	44.7	**628**	**44.7**	628	44.7	4	**632**	**44.4**	632	44.5	632	44.4
483.xalancbmk	4	429	64.3	**429**	**64.3**	429	64.4	4	431	64.1	**431**	**64.1**	430	64.2

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

General Notes

```
BIOS Settings
  Adjacent Cache Line Prefetch set to ON
    Prefetch data in order to shorten execution cycles
    and maximize data processing efficiency.

32-bit binaries were built on Windows XP Professional x64 Edition
```

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
```

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`

Continued on next page

Peak Optimization Flags (Continued)

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

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.20090715.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/dell.cpu2006.ic91.flags.20090715.xml`

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Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 10:28:32 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 20 February 2007.