SPEC® CINT2006 Result

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Hewlett-Packard Company

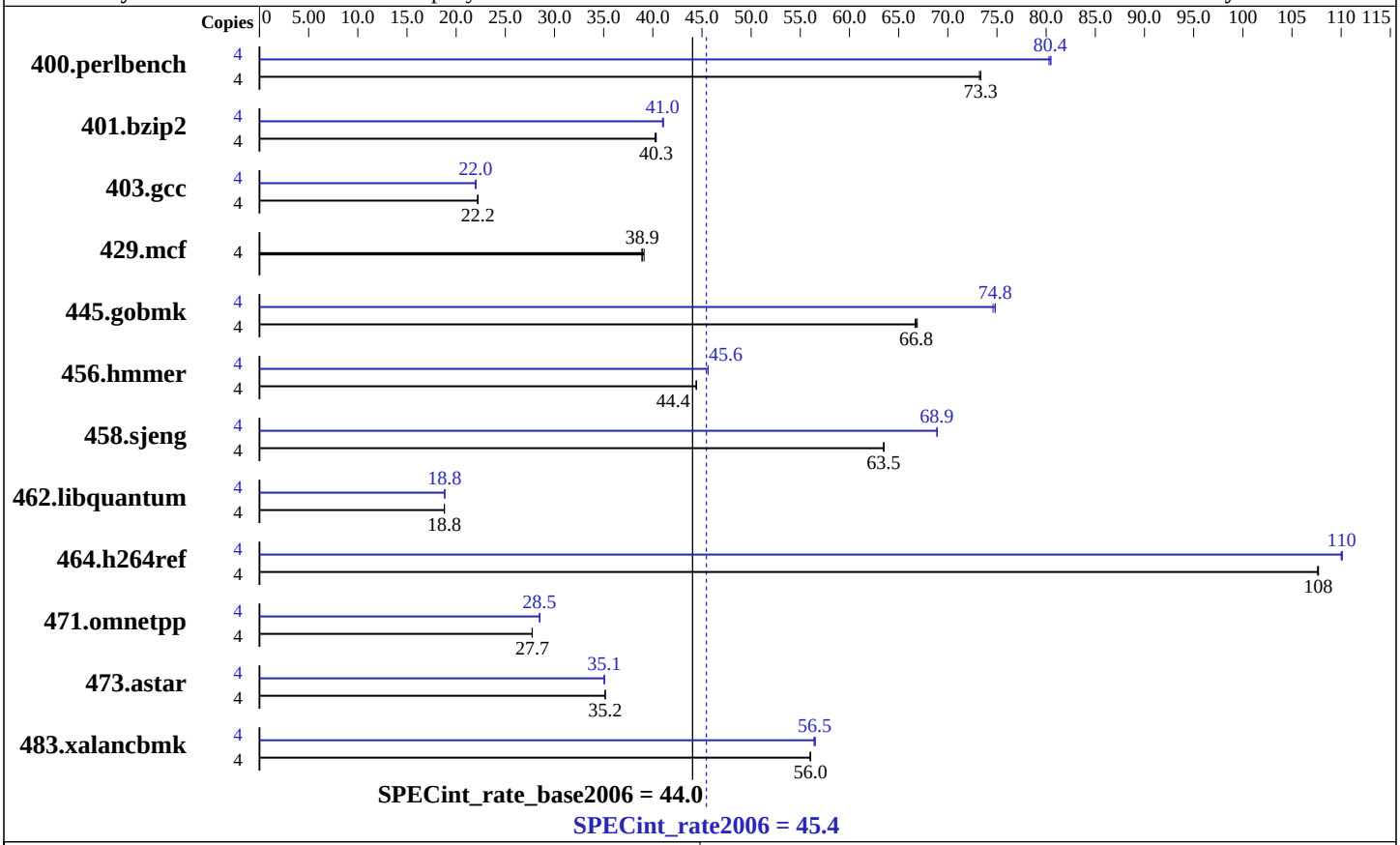
ProLiant ML350 G5
(2.66 GHz, Intel Xeon processor X5355)

SPECint®_rate2006 = 45.4

SPECint_rate_base2006 = 44.0

CPU2006 license: 3
Test sponsor: Hewlett-Packard Company
Tested by: Hewlett-Packard Company

Test date: Feb-2007
Hardware Availability: Jan-2007
Software Availability: Nov-2006



Hardware

CPU Name:	Intel Xeon X5355
CPU Characteristics:	2.66 GHz, 2x4 MB L2 shared, 1333 MHz bus
CPU MHz:	2666
FPU:	Integrated
CPU(s) enabled:	4 cores, 1 chip, 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 (4x2 GB PC2-5300F CL5)
Disk Subsystem:	4x36 GB 10 K SAS
Other Hardware:	None

Software

Operating System:	Windows Server 2003 Enterprise X64 Edition
Compiler:	Intel C++ Compiler 9.1 for 32-bit apps, Build 20060323Z Package ID: W_CC_P_9.1.020 Microsoft Visual Studio .NET 2003 (v7.1.3088, for libraries)
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	533	73.4	**533**	**73.3**	534	73.2	4	**486**	**80.4**	486	80.5	487	80.3
401.bzip2	4	960	40.2	**957**	**40.3**	957	40.3	4	941	41.0	939	41.1	**941**	**41.0**
403.gcc	4	1452	22.2	1449	22.2	**1450**	**22.2**	4	**1465**	**22.0**	1462	22.0	1466	22.0
429.mcf	4	933	39.1	938	38.9	**937**	**38.9**	4	933	39.1	938	38.9	**937**	**38.9**
445.gobmk	4	629	66.7	**628**	**66.8**	627	66.9	4	561	74.8	**561**	**74.8**	563	74.6
456.hmmer	4	840	44.4	840	44.4	**840**	**44.4**	4	818	45.6	**818**	**45.6**	818	45.6
458.sjeng	4	762	63.5	763	63.5	**762**	**63.5**	4	**702**	**68.9**	702	68.9	703	68.9
462.libquantum	4	4409	18.8	**4408**	**18.8**	4407	18.8	4	**4401**	**18.8**	4400	18.8	4402	18.8
464.h264ref	4	822	108	**822**	**108**	823	108	4	805	110	**804**	**110**	804	110
471.omnetpp	4	901	27.7	**901**	**27.7**	902	27.7	4	878	28.5	**878**	**28.5**	877	28.5
473.astar	4	799	35.2	**799**	**35.2**	799	35.1	4	801	35.1	**801**	**35.1**	801	35.1
483.xalancbmk	4	**492**	**56.0**	492	56.0	493	56.0	4	489	56.4	**489**	**56.5**	488	56.5

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

Platform Notes

```
Power Regulator set to Static High Performance Mode in BIOS.
Adjacent Sector Prefetch disabled in BIOS.
```

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
```

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

401.bzip2: Same as 400.perlbench

403.gcc: Same as 400.perlbench

429.mcf: basepeak = yes

445.gobmk: Same as 400.perlbench

456.hmmer: Same as 400.perlbench

458.sjeng: Same as 400.perlbench

Continued on next page

Peak Optimization Flags (Continued)

462.libquantum: Same as 400.perlbench

464.h264ref: Same as 400.perlbench

C++ benchmarks:
-Qprof_gen(pass 1) -Qprof_use(pass 2) -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/hp-ic91-flags.20090715.02.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/hp-ic91-flags.20090715.02.xml

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For questions about this result, please contact the tester.
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