SPEC® CINT2006 Result

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Hewlett-Packard Company

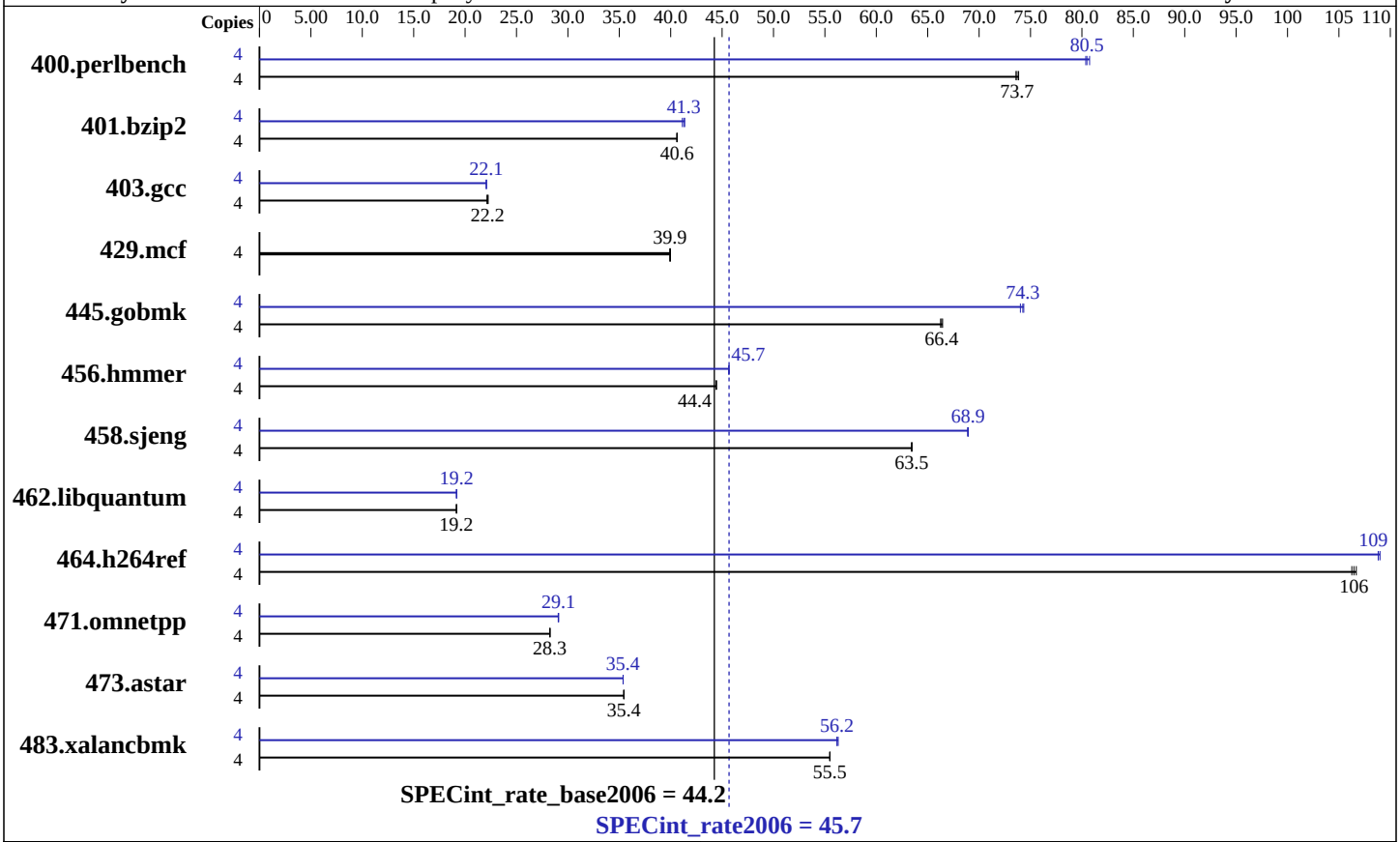
ProLiant BL460c
(2.66 GHz, Intel Xeon processor X5355)

SPECint®_rate2006 = 45.7

SPECint_rate_base2006 = 44.2

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:	16 GB (8x2 GB PC2-5300F CL5)
Disk Subsystem:	2x72 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	531	73.6	529	73.8	**530**	**73.7**	4	486	80.4	**486**	**80.5**	484	80.7
401.bzip2	4	951	40.6	950	40.6	**950**	**40.6**	4	938	41.1	933	41.4	**935**	**41.3**
403.gcc	4	1455	22.1	1447	22.2	**1451**	**22.2**	4	**1459**	**22.1**	1459	22.1	1460	22.1
429.mcf	4	912	40.0	914	39.9	**914**	**39.9**	4	912	40.0	914	39.9	**914**	**39.9**
445.gobmk	4	631	66.4	633	66.2	**632**	**66.4**	4	**565**	**74.3**	564	74.3	567	74.0
456.hmmer	4	840	44.4	840	44.4	**840**	**44.4**	4	817	45.7	818	45.6	**817**	**45.7**
458.sjeng	4	763	63.5	763	63.4	**763**	**63.5**	4	703	68.9	702	69.0	**702**	**68.9**
462.libquantum	4	4324	19.2	4327	19.2	**4325**	**19.2**	4	4325	19.2	**4324**	**19.2**	4321	19.2
464.h264ref	4	**831**	**106**	833	106	830	107	4	812	109	813	109	**813**	**109**
471.omnetpp	4	885	28.3	885	28.3	**885**	**28.3**	4	**860**	**29.1**	859	29.1	860	29.1
473.astar	4	**792**	**35.4**	793	35.4	792	35.5	4	794	35.4	794	35.4	**794**	**35.4**
483.xalancbmk	4	498	55.5	497	55.5	**498**	**55.5**	4	**491**	**56.2**	491	56.2	490	56.3

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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