SPEC® CINT2006 Result

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Hewlett-Packard Company

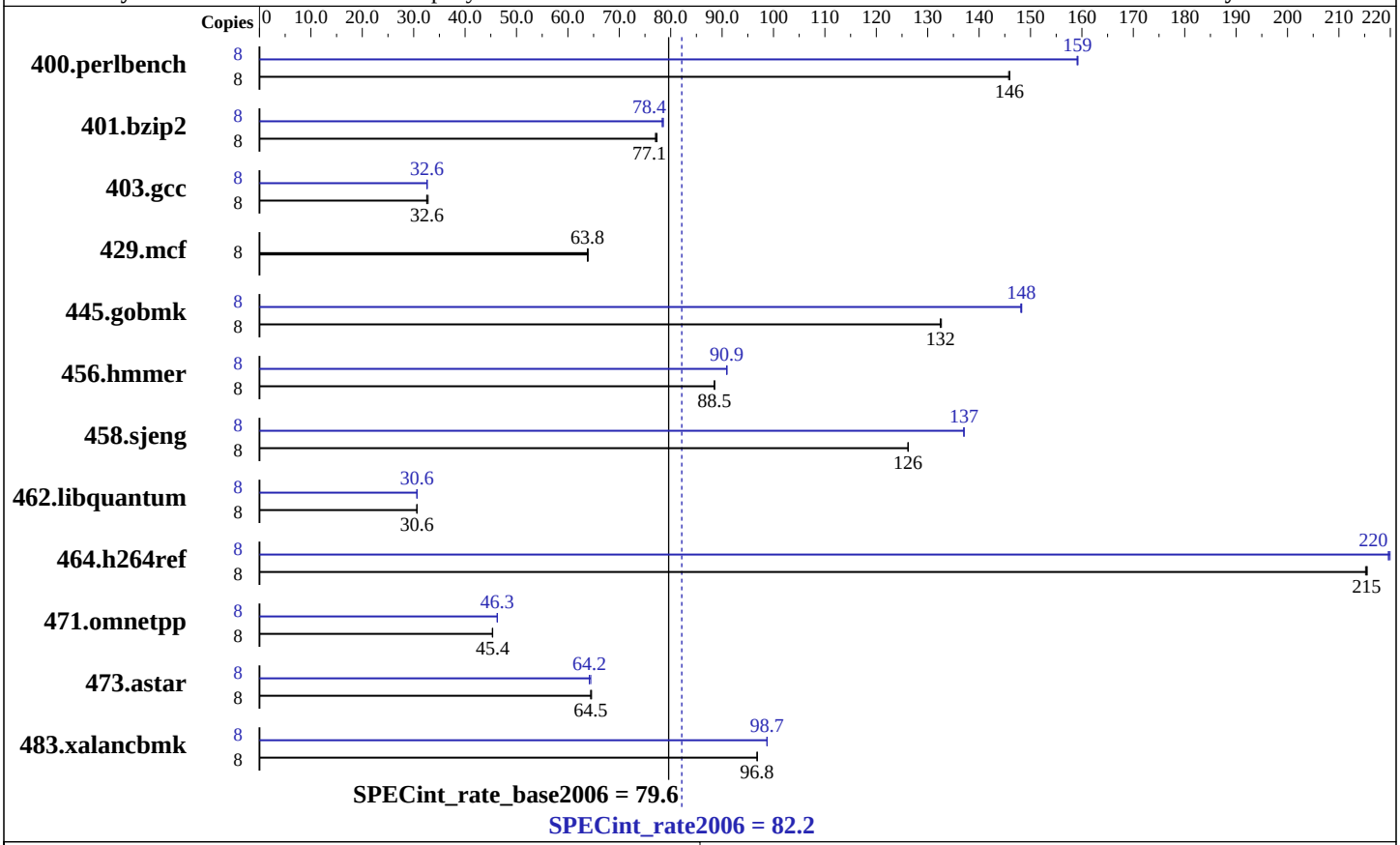
ProLiant BL20p G4
(2.66 GHz, Intel Xeon processor X5355)

SPECint®_rate2006 = 82.2

SPECint_rate_base2006 = 79.6

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 system bus
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:	16 GB (8x2 GB PC2-5300 CL5)
Disk Subsystem:	2x72 GB 10k 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	8	536	146	536	146	**536**	**146**	8	491	159	491	159	**491**	**159**
401.bzip2	8	998	77.3	**1001**	**77.1**	1002	77.1	8	985	78.4	982	78.6	**985**	**78.4**
403.gcc	8	1963	32.8	**1974**	**32.6**	1980	32.5	8	**1977**	**32.6**	1972	32.7	1977	32.6
429.mcf	8	1143	63.8	1141	63.9	**1143**	**63.8**	8	1143	63.8	1141	63.9	**1143**	**63.8**
445.gobmk	8	633	133	634	132	**633**	**132**	8	566	148	567	148	**566**	**148**
456.hmmer	8	843	88.5	**843**	**88.5**	843	88.5	8	821	90.9	821	90.9	**821**	**90.9**
458.sjeng	8	767	126	**767**	**126**	767	126	8	706	137	706	137	**706**	**137**
462.libquantum	8	**5410**	**30.6**	5412	30.6	5410	30.6	8	**5409**	**30.6**	5409	30.6	5410	30.6
464.h264ref	8	822	216	**822**	**215**	823	215	8	**806**	**220**	805	220	806	220
471.omnetpp	8	1102	45.4	1104	45.3	**1102**	**45.4**	8	**1081**	**46.3**	1080	46.3	1081	46.3
473.astar	8	871	64.5	**871**	**64.5**	869	64.6	8	875	64.2	871	64.5	**875**	**64.2**
483.xalancbmk	8	**570**	**96.8**	570	96.8	570	96.8	8	**559**	**98.7**	559	98.7	559	98.8

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.
For other inquiries, please contact webmaster@spec.org.

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