SPEC® CINT2006 Result

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Hewlett-Packard Company

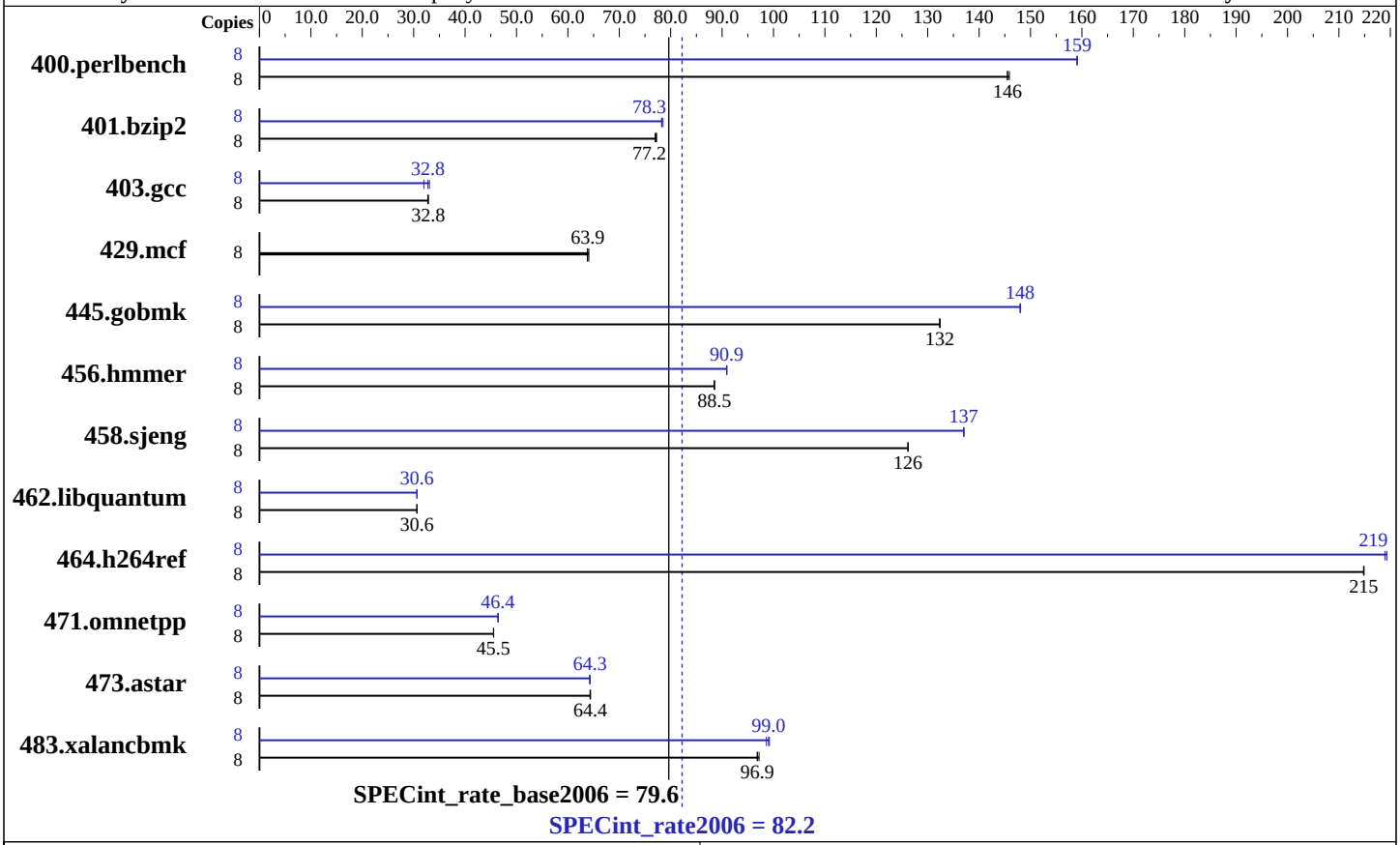
ProLiant ML370 G5
(2.66 GHz, Intel Xeon processor X5355)

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:	2.66GHz, 4x2 MB L2 shared, 1333 MHz 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 PC2-5300F 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	8	**537**	**146**	536	146	537	146	8	491	159	**491**	**159**	491	159
401.bzip2	8	999	77.3	**1001**	**77.2**	1003	77.0	8	983	78.5	**986**	**78.3**	987	78.2
403.gcc	8	1961	32.8	**1962**	**32.8**	1967	32.7	8	1948	33.1	**1965**	**32.8**	2014	32.0
429.mcf	8	1139	64.1	1144	63.8	**1143**	**63.9**	8	1139	64.1	1144	63.8	**1143**	**63.9**
445.gobmk	8	634	132	634	132	**634**	**132**	8	**567**	**148**	567	148	567	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	707	137	706	137	**707**	**137**
462.libquantum	8	**5410**	**30.6**	5409	30.6	5411	30.6	8	**5410**	**30.6**	5410	30.6	5412	30.6
464.h264ref	8	824	215	824	215	**824**	**215**	8	**807**	**219**	809	219	807	219
471.omnetpp	8	1098	45.5	1097	45.6	**1098**	**45.5**	8	1076	46.4	**1077**	**46.4**	1078	46.4
473.astar	8	**873**	**64.4**	873	64.3	872	64.4	8	873	64.3	**873**	**64.3**	874	64.2
483.xalancbmk	8	568	97.2	570	96.8	**570**	**96.9**	8	556	99.2	**557**	**99.0**	560	98.6

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 other inquiries, please contact webmaster@spec.org.

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