SPEC® CINT2006 Result

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Hewlett-Packard Company

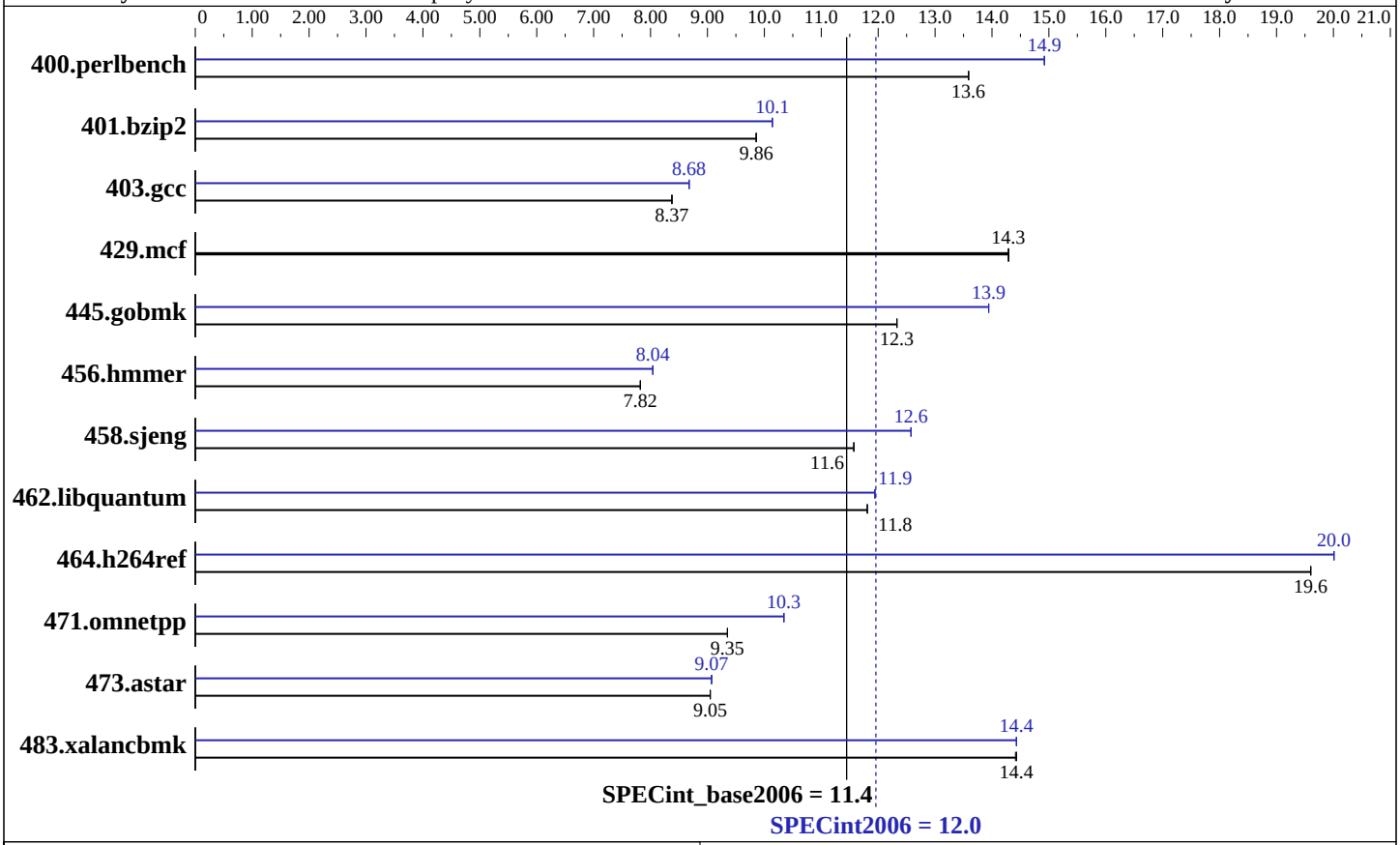
ProLiant DL360 G5
(1.86 GHz, Intel Xeon processor E5320)

SPECint®2006 = 12.0

SPECint_base2006 = 11.4

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 E5320
CPU Characteristics:	1.86 GHz, 2x4 MB L2 shared, 1066 MHz system bus
CPU MHz:	1860
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 PC2-5300 CL5)
Disk Subsystem:	2x72 GB 10k SAS
Other Hardware:	None

Software

Operating System:	Windows Server 2003 Enterprise x64 Edition SP1
Compiler:	Intel C++ Compiler for 32-bit applications, Version 9.1, Build 20061103Z Package ID: W_CC_C_9.1.033 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	**719**	**13.6**	719	13.6	719	13.6	655	14.9	655	14.9	**655**	**14.9**
401.bzip2	979	9.86	979	9.85	**979**	**9.86**	952	10.1	**952**	**10.1**	952	10.1
403.gcc	961	8.38	**961**	**8.37**	961	8.37	928	8.68	**928**	**8.68**	928	8.68
429.mcf	638	14.3	**638**	**14.3**	638	14.3	638	14.3	**638**	**14.3**	638	14.3
445.gobmk	851	12.3	851	12.3	**851**	**12.3**	**752**	**13.9**	752	13.9	752	13.9
456.hmmer	1193	7.82	**1193**	**7.82**	1193	7.82	1161	8.04	1160	8.04	**1160**	**8.04**
458.sjeng	**1046**	**11.6**	1046	11.6	1045	11.6	962	12.6	962	12.6	**962**	**12.6**
462.libquantum	1754	11.8	**1755**	**11.8**	1755	11.8	1735	11.9	**1735**	**11.9**	1735	11.9
464.h264ref	1129	19.6	1129	19.6	**1129**	**19.6**	1106	20.0	1106	20.0	**1106**	**20.0**
471.omnetpp	668	9.35	**668**	**9.35**	668	9.35	604	10.3	604	10.3	**604**	**10.3**
473.astar	776	9.05	**776**	**9.05**	776	9.05	774	9.07	774	9.07	**774**	**9.07**
483.xalancbmk	478	14.4	**478**	**14.4**	479	14.4	478	14.4	478	14.4	**478**	**14.4**

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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