SPEC® CINT2006 Result

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Hewlett-Packard Company

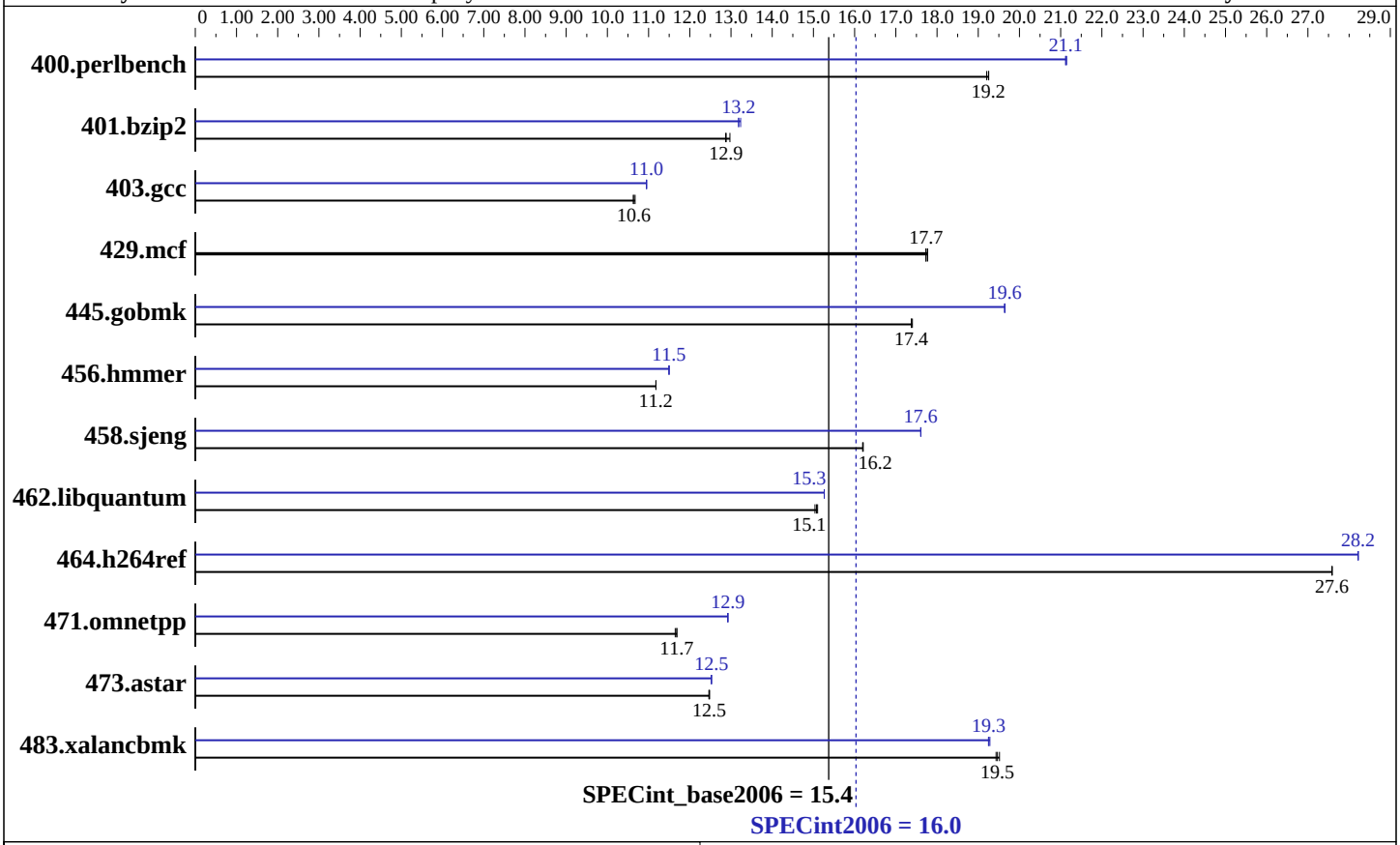
ProLiant BL460c
(2.66 GHz, Intel Xeon processor X5355)

SPECint®2006 = 16.0

SPECint_base2006 = 15.4

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 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	509	19.2	**508**	**19.2**	507	19.3	463	21.1	**462**	**21.1**	462	21.1
401.bzip2	**749**	**12.9**	750	12.9	744	13.0	**732**	**13.2**	729	13.2	732	13.2
403.gcc	758	10.6	**756**	**10.6**	754	10.7	735	10.9	735	11.0	**735**	**11.0**
429.mcf	**514**	**17.7**	514	17.7	513	17.8	**514**	**17.7**	514	17.7	513	17.8
445.gobmk	**604**	**17.4**	604	17.4	603	17.4	534	19.6	534	19.6	**534**	**19.6**
456.hmmer	835	11.2	835	11.2	**835**	**11.2**	**812**	**11.5**	811	11.5	812	11.5
458.sjeng	747	16.2	**747**	**16.2**	747	16.2	687	17.6	687	17.6	**687**	**17.6**
462.libquantum	1378	15.0	**1374**	**15.1**	1372	15.1	1357	15.3	**1358**	**15.3**	1358	15.3
464.h264ref	**802**	**27.6**	802	27.6	802	27.6	**784**	**28.2**	784	28.2	784	28.2
471.omnetpp	537	11.6	**535**	**11.7**	535	11.7	**484**	**12.9**	484	12.9	484	12.9
473.astar	563	12.5	563	12.5	**563**	**12.5**	560	12.5	561	12.5	**560**	**12.5**
483.xalancbmk	355	19.4	354	19.5	**354**	**19.5**	358	19.2	358	19.3	**358**	**19.3**

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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