SPEC® CINT2006 Result

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Hewlett-Packard Company

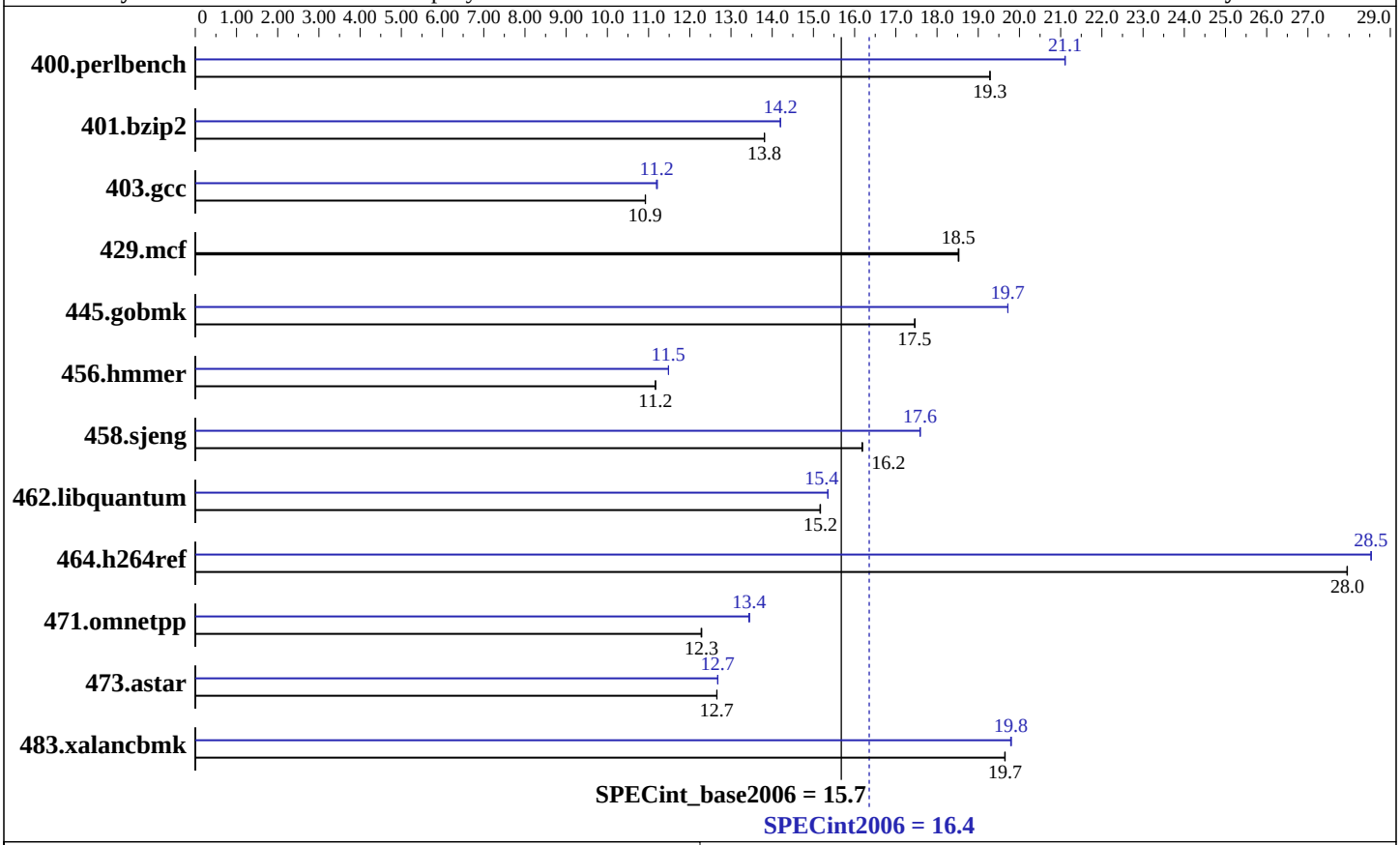
ProLiant BL20p G4
(2.66 GHz, Intel Xeon processor X5355)

SPECint®2006 = 16.4

SPECint_base2006 = 15.7

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:	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
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	**507**	**19.3**	507	19.3	507	19.3	463	21.1	**463**	**21.1**	463	21.1
401.bzip2	699	13.8	699	13.8	**699**	**13.8**	**680**	**14.2**	680	14.2	680	14.2
403.gcc	**737**	**10.9**	737	10.9	737	10.9	**719**	**11.2**	718	11.2	719	11.2
429.mcf	**492**	**18.5**	492	18.5	493	18.5	**492**	**18.5**	492	18.5	493	18.5
445.gobmk	601	17.5	601	17.5	**601**	**17.5**	**532**	**19.7**	532	19.7	532	19.7
456.hmmer	835	11.2	836	11.2	**835**	**11.2**	812	11.5	813	11.5	**813**	**11.5**
458.sjeng	747	16.2	748	16.2	**748**	**16.2**	688	17.6	688	17.6	**688**	**17.6**
462.libquantum	**1366**	**15.2**	1366	15.2	1367	15.2	**1350**	**15.4**	1350	15.4	1350	15.4
464.h264ref	792	27.9	792	28.0	**792**	**28.0**	**776**	**28.5**	775	28.5	776	28.5
471.omnetpp	509	12.3	**509**	**12.3**	509	12.3	465	13.4	465	13.4	**465**	**13.4**
473.astar	**555**	**12.7**	554	12.7	555	12.7	554	12.7	554	12.7	**554**	**12.7**
483.xalancbmk	351	19.7	351	19.6	**351**	**19.7**	**349**	**19.8**	349	19.8	348	19.8

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 other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 10:27:43 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 20 February 2007.