SPEC® CINT2006 Result

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IBM Corporation

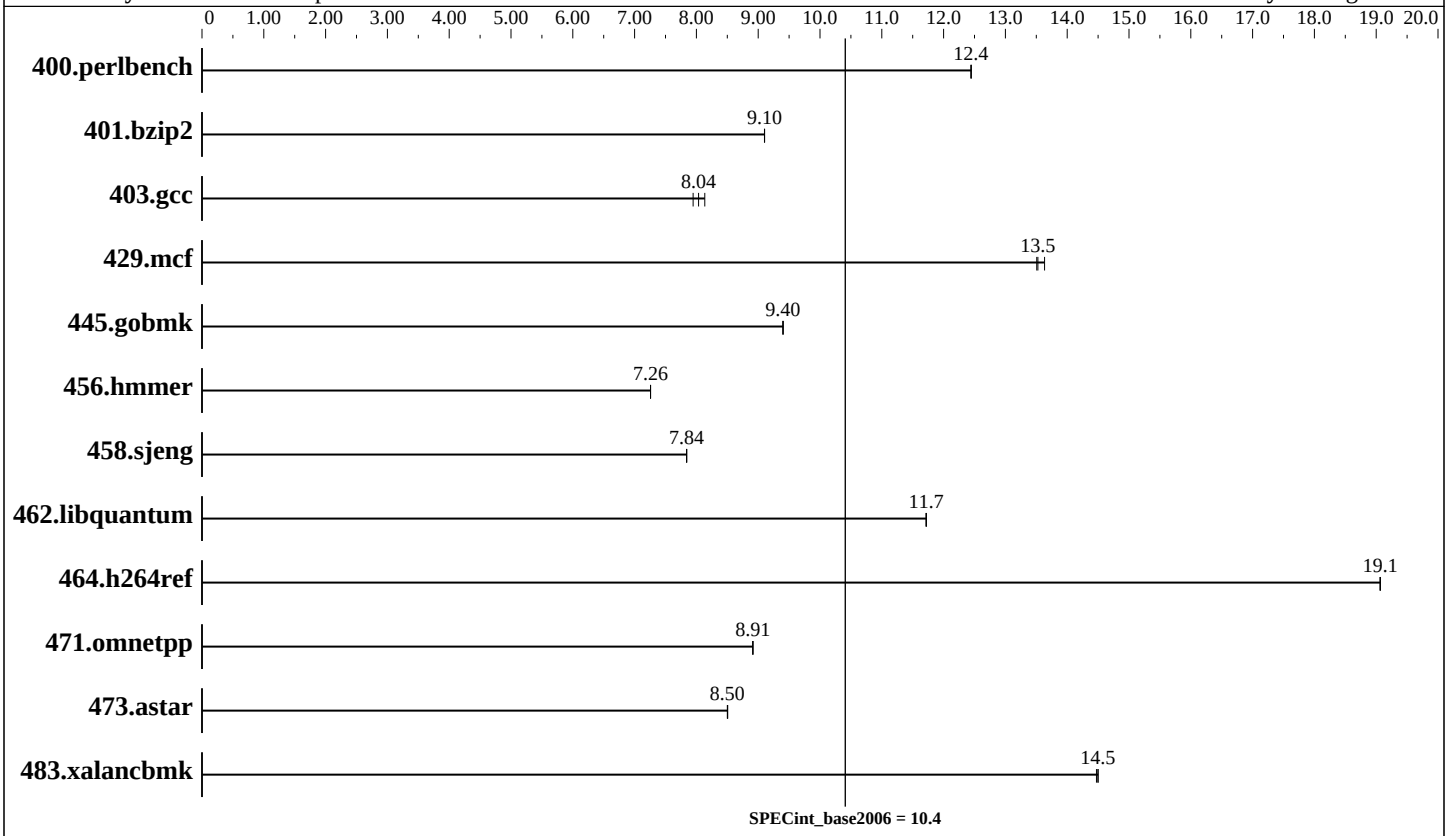
IBM System x3950 (Intel Xeon 7140N)

SPECint®2006 = Not Run

SPECint_base2006 = 10.4

CPU2006 license: 11
Test sponsor: IBM Corporation
Tested by: IBM Corporation

Test date: Jan-2007
Hardware Availability: Oct-2006
Software Availability: Aug-2006



Hardware

CPU Name:	Intel Xeon 7140N
CPU Characteristics:	667 MHz bus
CPU MHz:	3333
FPU:	Integrated
CPU(s) enabled:	8 cores, 4 chips, 2 cores/chip, 2 threads/core
CPU(s) orderable:	1,2,4 chips
Primary Cache:	12 K micro-ops I + 16 KB D on chip per core
Secondary Cache:	1 MB I+D on chip per core
L3 Cache:	16 MB I+D on chip per chip
Other Cache:	None
Memory:	32 GB (16 x 2048 MB ECC PC2-3200)
Disk Subsystem:	73 GB SAS, 10k RPM
Other Hardware:	None

Software

Operating System:	Microsoft Windows Server 2003 Enterprise x64 Edition + SP1 (64-bit)
Compiler:	Intel C++ Compiler for IA32 version 9.1 Build no 20060816 Microsoft Visual Studio .Net 2003 (for libraries)
Auto Parallel:	No
File System:	NTFS
System State:	Default
Base Pointers:	32-bit
Peak Pointers:	Not Applicable
Other Software:	Smart Heap Library, Version 8

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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	785	12.4	**785**	**12.4**	785	12.4						
401.bzip2	1060	9.10	**1060**	**9.10**	1060	9.10						
403.gcc	989	8.14	1013	7.95	**1002**	**8.04**						
429.mcf	**674**	**13.5**	675	13.5	669	13.6						
445.gobmk	1116	9.40	**1116**	**9.40**	1116	9.40						
456.hmmer	1285	7.26	**1285**	**7.26**	1286	7.26						
458.sjeng	1543	7.84	**1543**	**7.84**	1543	7.84						
462.libquantum	1768	11.7	**1768**	**11.7**	1768	11.7						
464.h264ref	1161	19.1	**1161**	**19.1**	1161	19.1						
471.omnetpp	701	8.91	701	8.91	**701**	**8.91**						
473.astar	826	8.50	825	8.51	**826**	**8.50**						
483.xalancbmk	**476**	**14.5**	477	14.5	476	14.5						

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

```
Bios Settings
  Hardware Prefetch enabled
  Memory Array set to High-Performance Memory Array
```

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`

The flags file that was used to format this result can be browsed at
`http://www.spec.org/cpu2006/flags/Intel-ic91-flags.20090715.01.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/Intel-ic91-flags.20090715.01.xml`

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For questions about this result, please contact the tester.
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