SPEC® CINT2006 Result

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Bull SAS

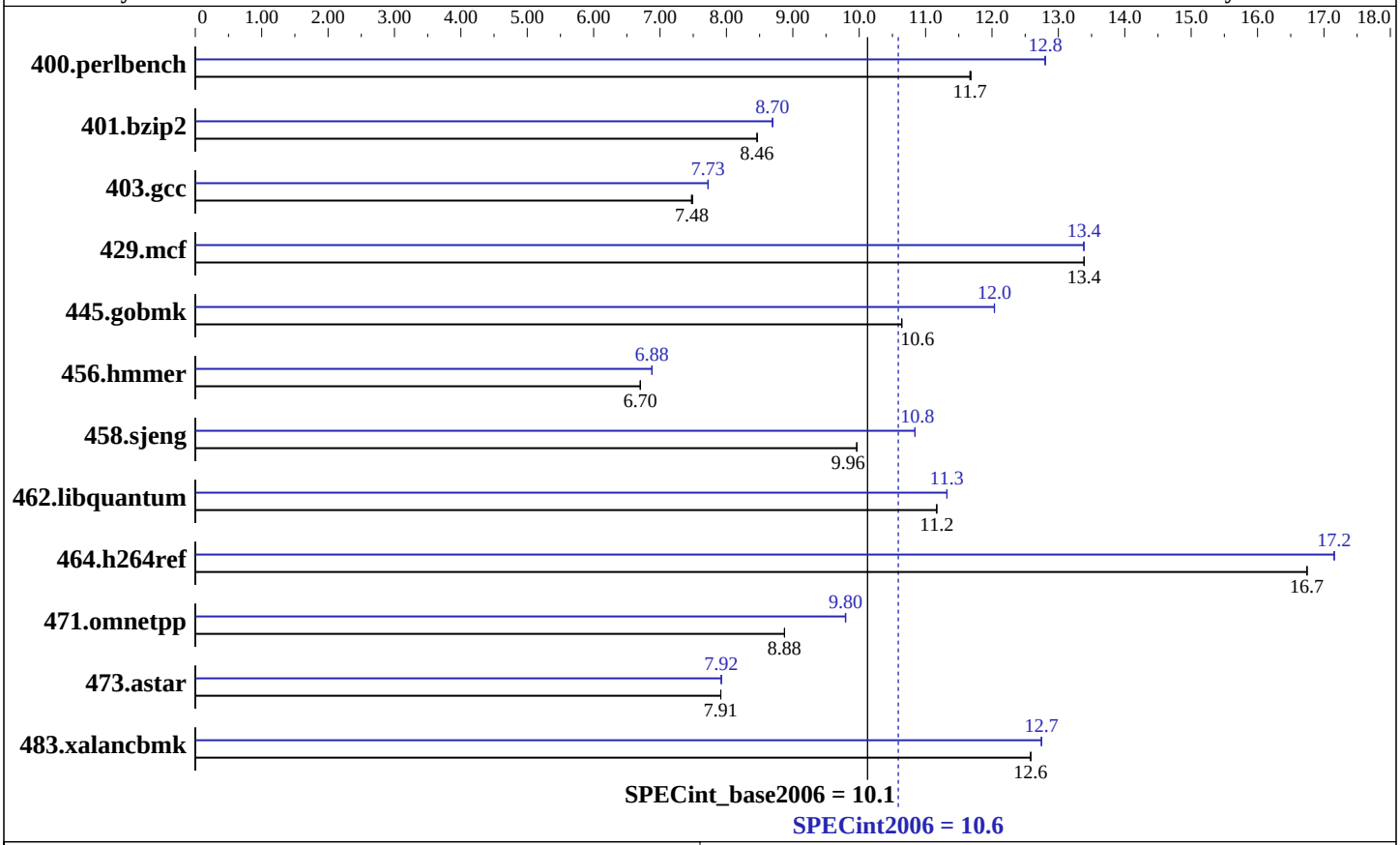
NovaScale T860 (1.60 GHz, Intel Xeon 5110)

SPECint®2006 = 10.6

SPECint_base2006 = 10.1

CPU2006 license: 20
Test sponsor: Bull SAS
Tested by: Bull SAS

Test date: Mar-2007
Hardware Availability: Sep-2006
Software Availability: Nov-2006



Hardware

CPU Name:	Intel Xeon 5110
CPU Characteristics:	1.60 GHz, 1066MHz bus
CPU MHz:	1600
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 2 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	4 MB I+D on chip per chip
L3 Cache:	None
Other Cache:	None
Memory:	12 GB (667 MHz ECC CL5 DDR2 FB-DIMM)
Disk Subsystem:	2x36GB SAS 15000 rpm
Other Hardware:	None

Software

Operating System:	Windows Server 2003 Enterprise X64 Edition
Compiler:	Intel C++ Compiler 9.1 for 32-bit apps, Build 20061103Z Package ID: W_CC_P_9.1.033 Microsoft Visual Studio .NET 2003 (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 (shlW32M.lib)

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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	836	11.7	**837**	**11.7**	837	11.7	**763**	**12.8**	763	12.8	763	12.8
401.bzip2	1140	8.46	**1141**	**8.46**	1141	8.46	1110	8.70	**1110**	**8.70**	1110	8.69
403.gcc	1075	7.49	**1076**	**7.48**	1077	7.47	**1042**	**7.73**	1042	7.73	1043	7.72
429.mcf	681	13.4	681	13.4	**681**	**13.4**	681	13.4	**681**	**13.4**	682	13.4
445.gobmk	986	10.6	**986**	**10.6**	986	10.6	**871**	**12.0**	871	12.0	872	12.0
456.hmmer	1392	6.70	**1392**	**6.70**	1392	6.70	**1356**	**6.88**	1356	6.88	1357	6.88
458.sjeng	1214	9.96	1214	9.96	**1214**	**9.96**	**1116**	**10.8**	1116	10.8	1116	10.8
462.libquantum	1856	11.2	**1855**	**11.2**	1855	11.2	1830	11.3	**1830**	**11.3**	1831	11.3
464.h264ref	1321	16.7	1322	16.7	**1322**	**16.7**	**1290**	**17.2**	1290	17.2	1290	17.2
471.omnetpp	704	8.87	704	8.88	**704**	**8.88**	**638**	**9.80**	638	9.80	638	9.79
473.astar	887	7.92	**887**	**7.91**	887	7.91	886	7.92	**886**	**7.92**	886	7.92
483.xalancbmk	**548**	**12.6**	548	12.6	548	12.6	541	12.7	**541**	**12.7**	542	12.7

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

General Notes

```
Other Configuration Notes
/numproc=1 flags was added to boot.ini invoke
uniprocessor environment
```

Base Compiler Invocation

C benchmarks:
```
icl -Qvc7.1 -Qc99
```

C++ benchmarks:
```
icl -Qvc7.1
```

Base Portability Flags

403.gcc: `-DSPEC_CPU_WIN32`

Continued on next page

Base Portability Flags (Continued)

464.h264ref: `-DSPEC_CPU_NO_INTTYPES -DWIN32`

Base Optimization Flags

C benchmarks:
`-fast /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

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

Continued on next page

Peak Optimization Flags (Continued)

403.gcc: Same as 400.perlbench

429.mcf: -fast /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

445.gobmk: Same as 400.perlbench

456.hmmer: Same as 400.perlbench

458.sjeng: Same as 400.perlbench

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/flags.20090714.00.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/flags.20090714.00.xml

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