SPEC® CINT2006 Result

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Bull SAS

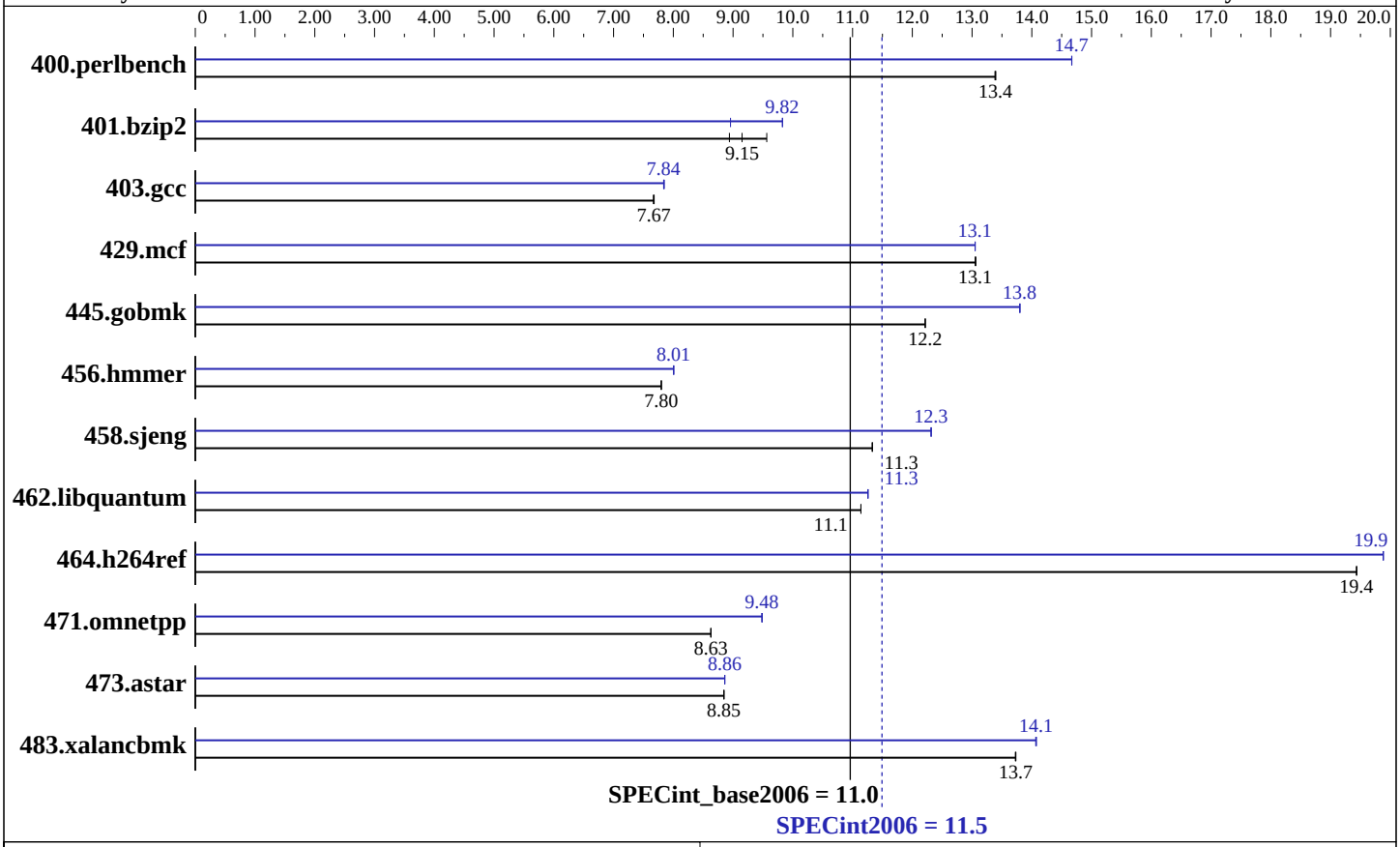
NovaScale T840 (1.86 GHz, Intel Xeon E5320)

SPECint®2006 = 11.5

SPECint_base2006 = 11.0

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

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



Hardware

CPU Name:	Intel Xeon E5320
CPU Characteristics:	1.86 GHz, 8MB L2, 1066MHz bus
CPU MHz:	1860
FPU:	Integrated
CPU(s) enabled:	1 core, 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:	8 GB (667 MHz ECC CL5 DDR2 FB-DIMM)
Disk Subsystem:	3x73GB SCSI 15000 rpm
Other Hardware:	None

Software

Operating System:	Windows Server 2003 Enterprise X64 Edition
Compiler:	Intel C++ Compiler 9.1.033 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	730	13.4	729	13.4	**730**	**13.4**	**666**	**14.7**	666	14.7	666	14.7
401.bzip2	**1055**	**9.15**	1080	8.94	1009	9.56	982	9.83	1077	8.96	**982**	**9.82**
403.gcc	1048	7.68	1050	7.67	**1049**	**7.67**	1026	7.85	1027	7.84	**1027**	**7.84**
429.mcf	698	13.1	**699**	**13.1**	699	13.1	699	13.1	**699**	**13.1**	699	13.1
445.gobmk	859	12.2	**859**	**12.2**	859	12.2	760	13.8	760	13.8	**760**	**13.8**
456.hmmer	**1196**	**7.80**	1196	7.80	1196	7.80	1165	8.01	1165	8.01	**1165**	**8.01**
458.sjeng	1068	11.3	1068	11.3	**1068**	**11.3**	982	12.3	**983**	**12.3**	983	12.3
462.libquantum	1860	11.1	1860	11.1	**1860**	**11.1**	1840	11.3	1841	11.3	**1841**	**11.3**
464.h264ref	1139	19.4	1139	19.4	**1139**	**19.4**	1113	19.9	1113	19.9	**1113**	**19.9**
471.omnetpp	**724**	**8.63**	724	8.63	724	8.63	659	9.49	**659**	**9.48**	659	9.48
473.astar	**794**	**8.85**	793	8.85	794	8.85	792	8.86	792	8.86	**792**	**8.86**
483.xalancbmk	**503**	**13.7**	503	13.7	502	13.7	490	14.1	**490**	**14.1**	491	14.1

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

General Notes

```
Other Configuration Notes
/NUMPROC=1 flag was added to boot.ini to 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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