SPEC® CINT2006 Result

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Bull SAS

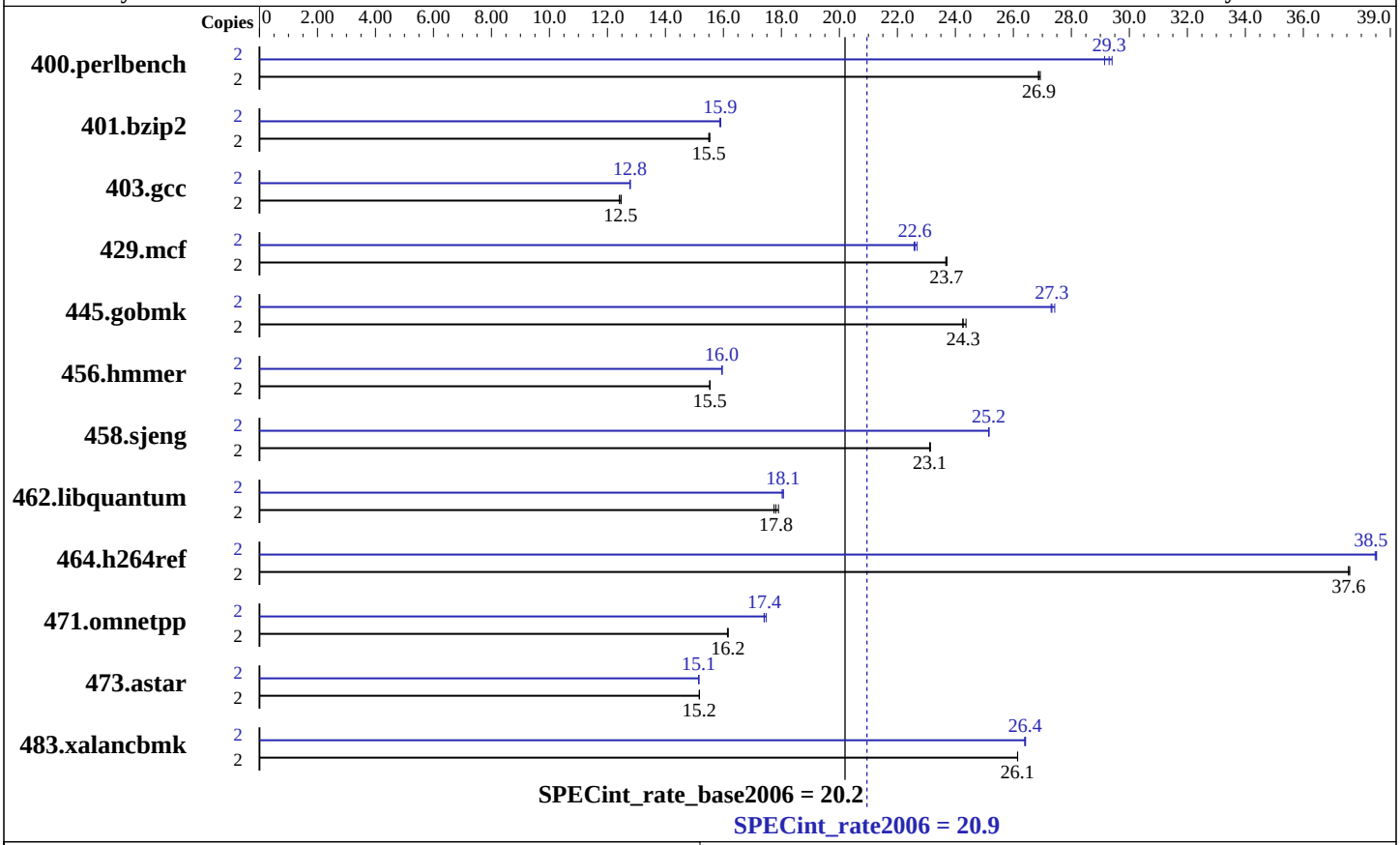
NovaScale T820
(Intel Xeon processor 3040, 1.86GHz)

SPECint®_rate2006 = 20.9

SPECint_rate_base2006 = 20.2

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

Test date: May-2007
Hardware Availability: Feb-2007
Software Availability: Dec-2006



Hardware

CPU Name:	Intel Xeon 3040
CPU Characteristics:	1.86 GHz, 4 MB L2, 1066 MHz system bus
CPU MHz:	1860
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip
CPU(s) orderable:	1 chip
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	2 MB I+D on chip per chip
L3 Cache:	None
Other Cache:	None
Memory:	4 GB (4x1 GB) PC2-4200E ECC CL4
Disk Subsystem:	1x80 GB SATA2, 7200 RPM
Other Hardware:	None

Software

Operating System:	Windows Server 2003 Enterprise Edition X64 Edition Service Pack1
Compiler:	Intel C++ Compiler for IA32 version 9.1 Package ID W_CC_C_9.1.033 Build no 20061103Z Microsoft Visual Studio .NET 2003 (lib & linker)
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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	2	**727**	**26.9**	726	26.9	727	26.9	2	670	29.1	665	29.4	**667**	**29.3**
401.bzip2	2	1242	15.5	1245	15.5	**1245**	**15.5**	2	1213	15.9	**1214**	**15.9**	1216	15.9
403.gcc	2	1297	12.4	**1292**	**12.5**	1290	12.5	2	1260	12.8	1259	12.8	**1260**	**12.8**
429.mcf	2	771	23.7	769	23.7	**770**	**23.7**	2	**807**	**22.6**	808	22.6	804	22.7
445.gobmk	2	861	24.4	**864**	**24.3**	865	24.3	2	765	27.4	**768**	**27.3**	768	27.3
456.hmmer	2	1202	15.5	1201	15.5	**1201**	**15.5**	2	1170	16.0	**1170**	**16.0**	1170	16.0
458.sjeng	2	**1047**	**23.1**	1047	23.1	1046	23.1	2	**962**	**25.2**	962	25.1	962	25.2
462.libquantum	2	2335	17.7	**2327**	**17.8**	2315	17.9	2	2299	18.0	**2295**	**18.1**	2294	18.1
464.h264ref	2	1178	37.6	1177	37.6	**1178**	**37.6**	2	**1149**	**38.5**	1150	38.5	1149	38.5
471.omnetpp	2	775	16.1	**774**	**16.2**	773	16.2	2	**718**	**17.4**	718	17.4	715	17.5
473.astar	2	**925**	**15.2**	925	15.2	926	15.2	2	926	15.2	927	15.1	**927**	**15.1**
483.xalancbmk	2	528	26.1	528	26.1	**528**	**26.1**	2	522	26.4	**523**	**26.4**	523	26.4

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

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
```

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:
`-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

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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For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 11:25:47 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 26 June 2007.