SPEC® CINT2006 Result

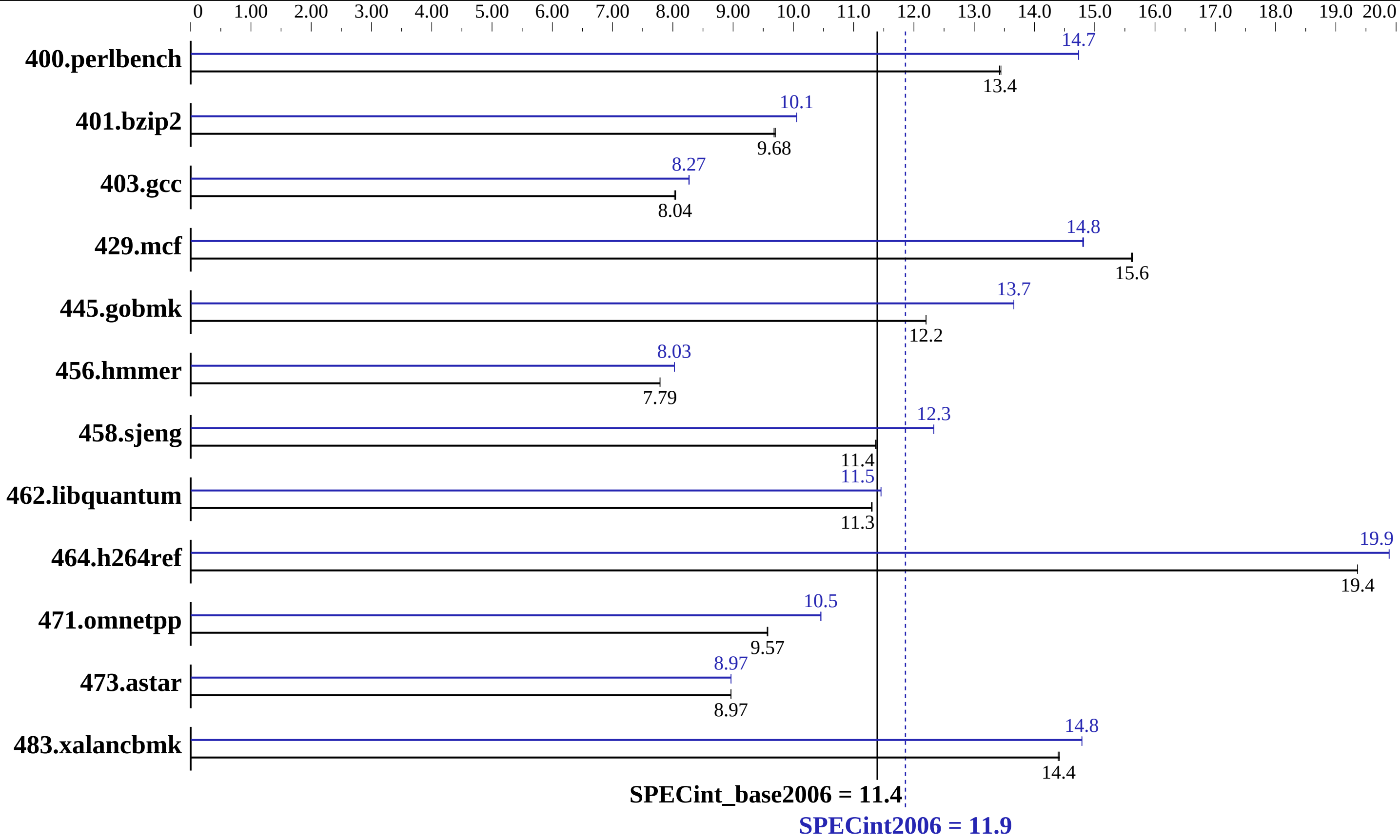
Bull SAS

NovaScale R440
(Intel Xeon processor E5320,1.86GHz)

SPECint®2006 = 11.9

SPECint_base2006 = 11.4

CPU2006 license: 20		**Test date:**	Apr-2007
Test sponsor:	Bull SAS	**Hardware Availability:**	Mar-2007
Tested by:	Bull SAS	**Software Availability:**	Dec-2006



Hardware

CPU Name:	Intel Xeon E5320
CPU Characteristics:	1.86 GHz, 8 MB L2, 1066 MHz bus
CPU MHz:	1860
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 4 cores/chip
CPU(s) orderable:	1 to 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:	12 GB (12x1 GB) FB-DIMM PC2-5300F ECC CL5
Disk Subsystem:	1x73 GB SAS, 10000 RPM
Other Hardware:	None

Software

Operating System:	Windows Server 2003 Enterprise 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	727	13.4	**728**	**13.4**	728	13.4	663	14.7	663	14.7	**663**	**14.7**
401.bzip2	995	9.70	997	9.68	**997**	**9.68**	960	10.1	960	10.1	**960**	**10.1**
403.gcc	1000	8.05	**1002**	**8.04**	1003	8.02	973	8.27	**974**	**8.27**	974	8.26
429.mcf	**584**	**15.6**	584	15.6	584	15.6	616	14.8	616	14.8	**616**	**14.8**
445.gobmk	**860**	**12.2**	860	12.2	860	12.2	768	13.7	**768**	**13.7**	768	13.7
456.hmmer	**1198**	**7.79**	1198	7.79	1198	7.79	**1163**	**8.03**	1163	8.03	1162	8.03
458.sjeng	1065	11.4	**1064**	**11.4**	1064	11.4	981	12.3	981	12.3	**981**	**12.3**
462.libquantum	1835	11.3	**1834**	**11.3**	1832	11.3	1809	11.5	**1809**	**11.5**	1809	11.5
464.h264ref	1143	19.4	1143	19.4	**1143**	**19.4**	**1113**	**19.9**	1113	19.9	1113	19.9
471.omnetpp	653	9.56	**653**	**9.57**	653	9.58	**598**	**10.5**	598	10.5	598	10.5
473.astar	783	8.96	783	8.97	**783**	**8.97**	**783**	**8.97**	783	8.97	783	8.97
483.xalancbmk	479	14.4	**479**	**14.4**	479	14.4	467	14.8	**467**	**14.8**	467	14.8

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

The NovaScale R440 and the NovaScale R460 models are
electronically equivalent.
The results have been measured on a NovaScale R460 model.
```

Base Compiler Invocation

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

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

Base Portability Flags

403.gcc: `-DSPEC_CPU_WIN32`

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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:
`-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`

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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

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.
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