SPEC® CINT2006 Result

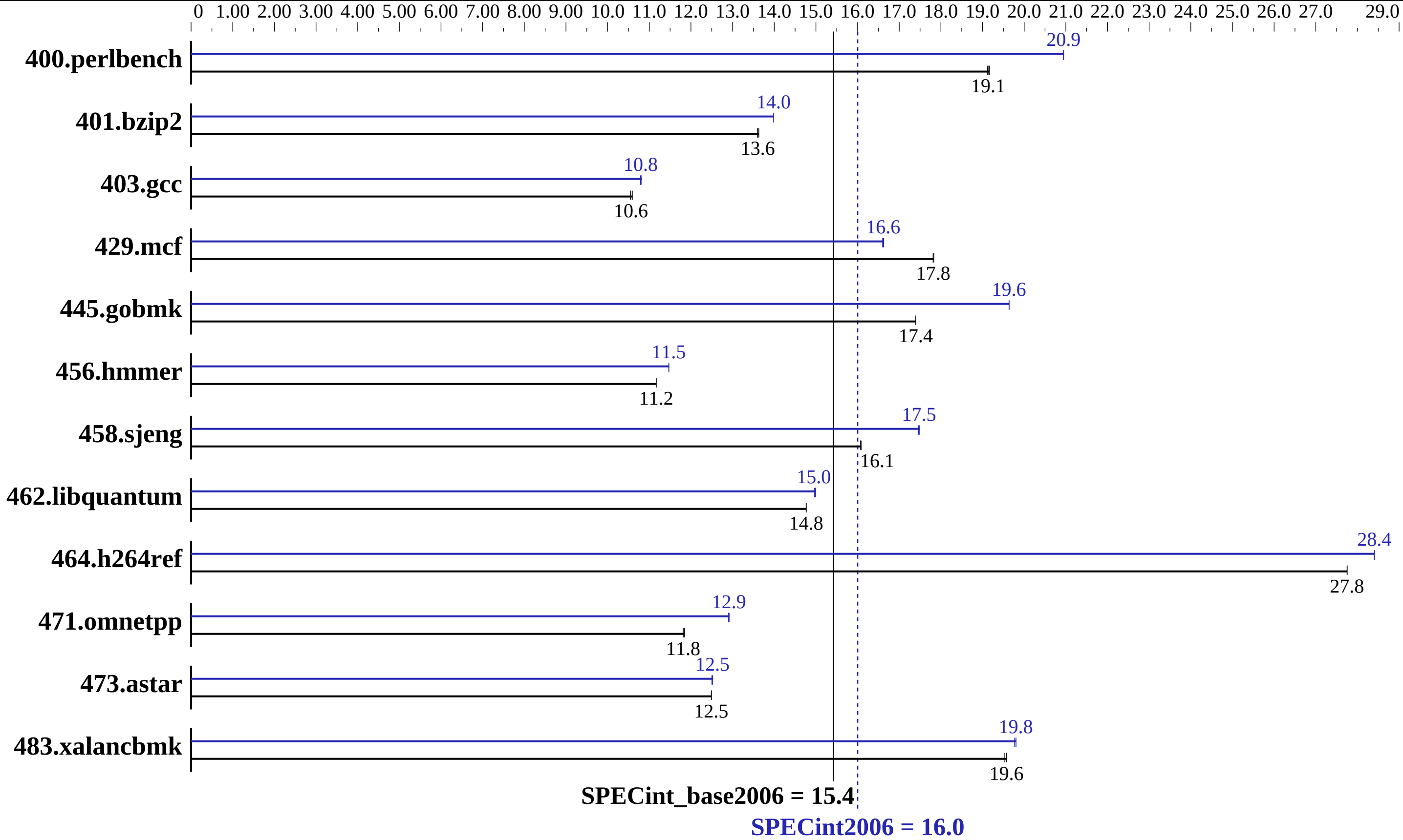
Bull SAS

NovaScale R440
(Intel Xeon processor X5355,2.66GHz)

SPECint®2006 = 16.0

SPECint_base2006 = 15.4

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



Hardware

CPU Name:	Intel Xeon X5355
CPU Characteristics:	2.66 GHz, 8 MB L2, 1333 MHz bus
CPU MHz:	2666
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:	24 GB (12x2 GB) FB-DIMM PC2-5300F ECC CL5
Disk Subsystem:	1x73 GB SAS, 10000 RPM
Other Hardware:	None

Software

Operating System:	Windows Server 2003 R2 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	510	19.2	**511**	**19.1**	511	19.1	467	20.9	466	20.9	**466**	**20.9**
401.bzip2	708	13.6	710	13.6	**709**	**13.6**	**690**	**14.0**	690	14.0	690	14.0
403.gcc	760	10.6	**762**	**10.6**	763	10.5	744	10.8	746	10.8	**746**	**10.8**
429.mcf	**512**	**17.8**	512	17.8	511	17.8	549	16.6	549	16.6	**549**	**16.6**
445.gobmk	**603**	**17.4**	603	17.4	603	17.4	**534**	**19.6**	534	19.6	534	19.6
456.hmmer	836	11.2	836	11.2	**836**	**11.2**	814	11.5	**814**	**11.5**	814	11.5
458.sjeng	**753**	**16.1**	753	16.1	752	16.1	692	17.5	693	17.5	**692**	**17.5**
462.libquantum	1403	14.8	**1403**	**14.8**	1403	14.8	1382	15.0	**1382**	**15.0**	1385	15.0
464.h264ref	797	27.8	**797**	**27.8**	797	27.8	**779**	**28.4**	779	28.4	779	28.4
471.omnetpp	**529**	**11.8**	529	11.8	528	11.8	484	12.9	484	12.9	**484**	**12.9**
473.astar	562	12.5	562	12.5	**562**	**12.5**	562	12.5	561	12.5	**561**	**12.5**
483.xalancbmk	**352**	**19.6**	353	19.5	352	19.6	349	19.8	**348**	**19.8**	348	19.8

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

Operating System Notes

```
/NUMPROC=1 flag was added to boot.ini to invoke
uniprocessor environment
```

General Notes

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

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

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

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