SPEC® CINT2006 Result

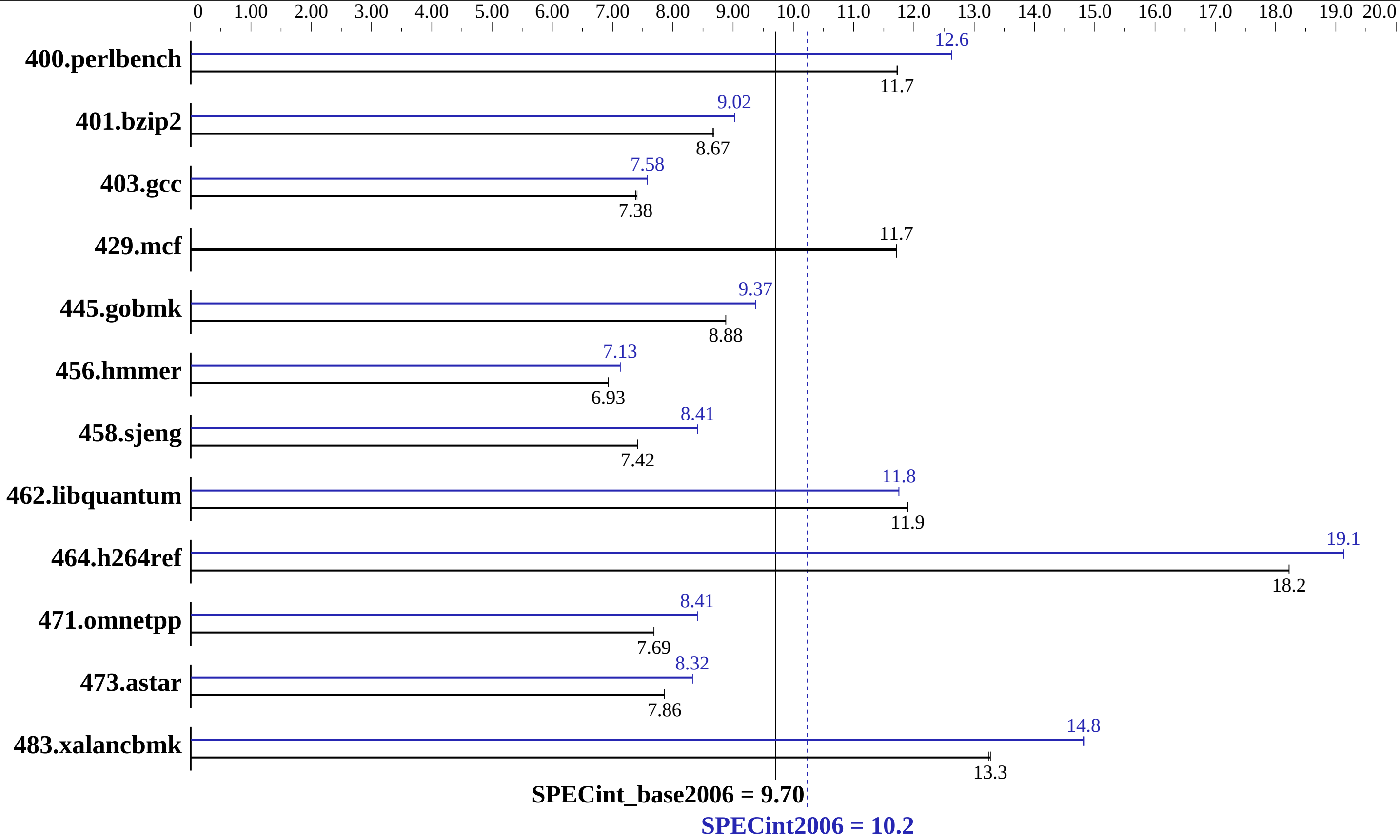
Bull SAS

NovaScale T880 (3.20 GHz, Intel Xeon 7130M)

SPECint®2006 = 10.2

SPECint_base2006 = 9.70

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



Hardware	
CPU Name:	Intel Xeon 7130M
CPU Characteristics:	3.2GHz, 800MHz bus
CPU MHz:	3200
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 2 cores/chip
CPU(s) orderable:	1,2,4 chips
Primary Cache:	12 K micro-ops I + 16 KB D on chip per core
Secondary Cache:	1 MB I+D on chip per core
L3 Cache:	8 MB I+D on chip per chip
Other Cache:	None
Memory:	32 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 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	833	11.7	834	11.7	**834**	**11.7**	**774**	**12.6**	773	12.6	774	12.6
401.bzip2	1112	8.68	1114	8.67	**1113**	**8.67**	1070	9.02	1069	9.02	**1070**	**9.02**
403.gcc	1087	7.41	**1090**	**7.38**	1090	7.38	1062	7.58	**1062**	**7.58**	1063	7.57
429.mcf	**779**	**11.7**	779	11.7	779	11.7	**779**	**11.7**	779	11.7	779	11.7
445.gobmk	**1181**	**8.88**	1181	8.88	1181	8.88	**1119**	**9.37**	1119	9.37	1119	9.37
456.hmmer	1346	6.93	**1346**	**6.93**	1346	6.93	**1309**	**7.13**	1309	7.13	1309	7.13
458.sjeng	1631	7.42	**1631**	**7.42**	1631	7.42	1438	8.41	**1438**	**8.41**	1438	8.41
462.libquantum	1742	11.9	1741	11.9	**1742**	**11.9**	1763	11.8	**1763**	**11.8**	1763	11.7
464.h264ref	**1214**	**18.2**	1214	18.2	1214	18.2	**1157**	**19.1**	1157	19.1	1157	19.1
471.omnetpp	**813**	**7.69**	813	7.69	813	7.69	743	8.41	**744**	**8.41**	744	8.41
473.astar	**893**	**7.86**	893	7.86	893	7.86	843	8.32	**843**	**8.32**	843	8.32
483.xalancbmk	521	13.2	**520**	**13.3**	520	13.3	466	14.8	466	14.8	**466**	**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 T880 and the NovaScale R480 models are
electronically equivalent.
The results have been measured on a NovaScale R480 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:

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

401.bzip2: Same as 400.perlbench

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Peak Optimization Flags (Continued)

403.gcc: Same as 400.perlbench

429.mcf: basepeak = yes

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

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

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