SPEC® CINT2006 Result

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Bull SAS

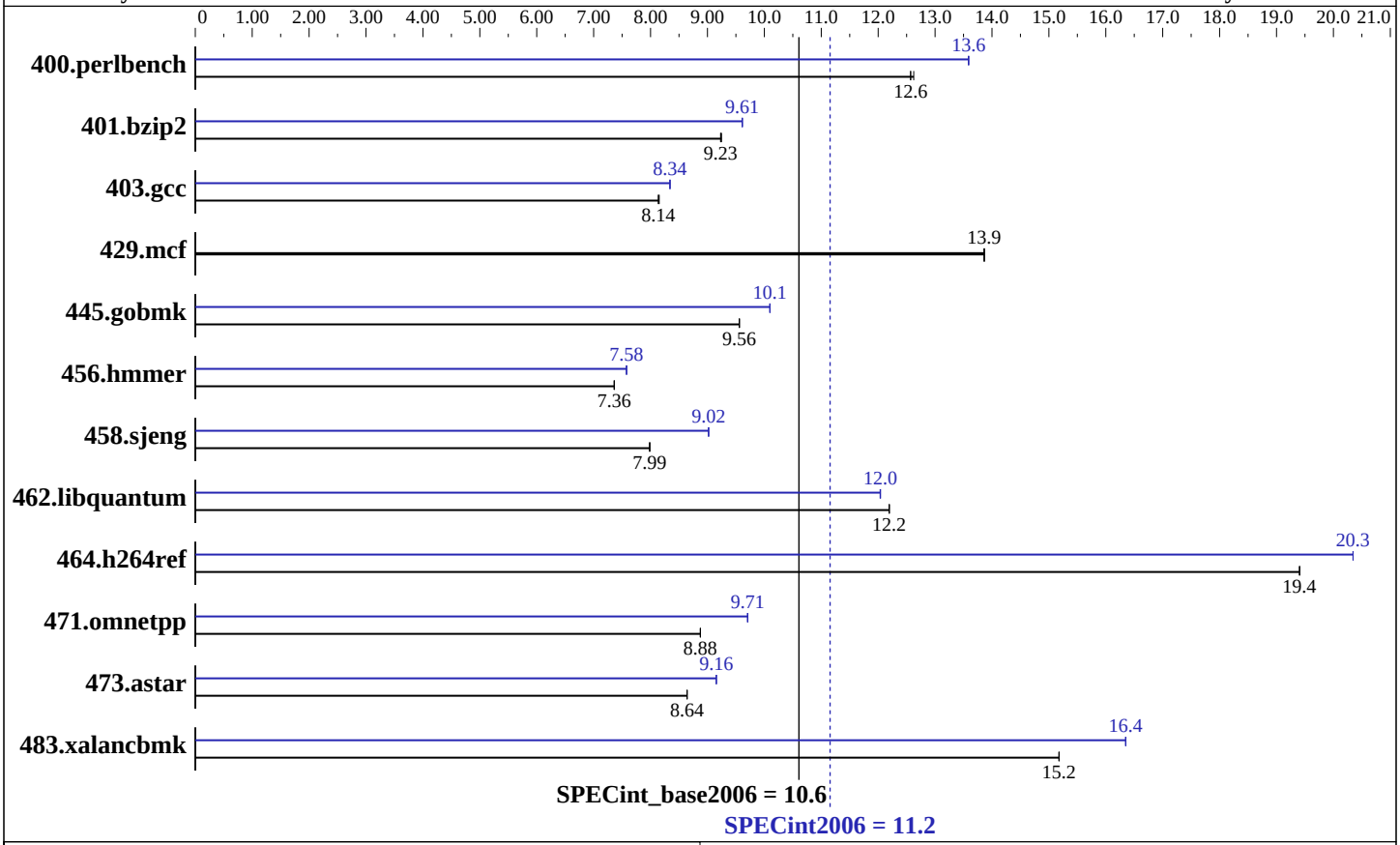
NovaScale R480 (3.40 GHz, Intel Xeon 7140M)

SPECint®2006 = 11.2

SPECint_base2006 = 10.6

CPU2006 license: 3
Test sponsor: Bull SAS
Tested by: Bull SAS

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



Hardware

CPU Name:	Intel Xeon 7140M
CPU Characteristics:	3.4GHz, 800MHz bus
CPU MHz:	3400
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:	16 MB I+D on chip per chip
Other Cache:	None
Memory:	16 GB (16X1GB 1Rx4 PC2-3200R-333 400MHz DDR2)
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	774	12.6	**777**	**12.6**	777	12.6	719	13.6	**719**	**13.6**	719	13.6
401.bzip2	1044	9.25	1045	9.23	**1045**	**9.23**	1004	9.62	1004	9.61	**1004**	**9.61**
403.gcc	987	8.15	**989**	**8.14**	989	8.14	965	8.34	**965**	**8.34**	965	8.34
429.mcf	**658**	**13.9**	658	13.9	658	13.9	**658**	**13.9**	658	13.9	658	13.9
445.gobmk	**1097**	**9.56**	1097	9.56	1097	9.56	1039	10.1	**1039**	**10.1**	1039	10.1
456.hmmer	**1267**	**7.36**	1267	7.36	1267	7.36	1231	7.58	**1231**	**7.58**	1231	7.58
458.sjeng	1515	7.98	**1515**	**7.99**	1515	7.99	1341	9.02	**1341**	**9.02**	1342	9.02
462.libquantum	**1699**	**12.2**	1699	12.2	1699	12.2	**1721**	**12.0**	1721	12.0	1722	12.0
464.h264ref	1140	19.4	1140	19.4	**1140**	**19.4**	1088	20.3	1088	20.3	**1088**	**20.3**
471.omnetpp	704	8.88	**704**	**8.88**	704	8.87	644	9.71	**644**	**9.71**	644	9.70
473.astar	**812**	**8.64**	812	8.64	812	8.64	767	9.16	**767**	**9.16**	767	9.15
483.xalancbmk	**455**	**15.2**	455	15.2	455	15.2	422	16.4	**422**	**16.4**	422	16.3

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`

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: 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

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