SPEC® CINT2006 Result

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Bull SAS

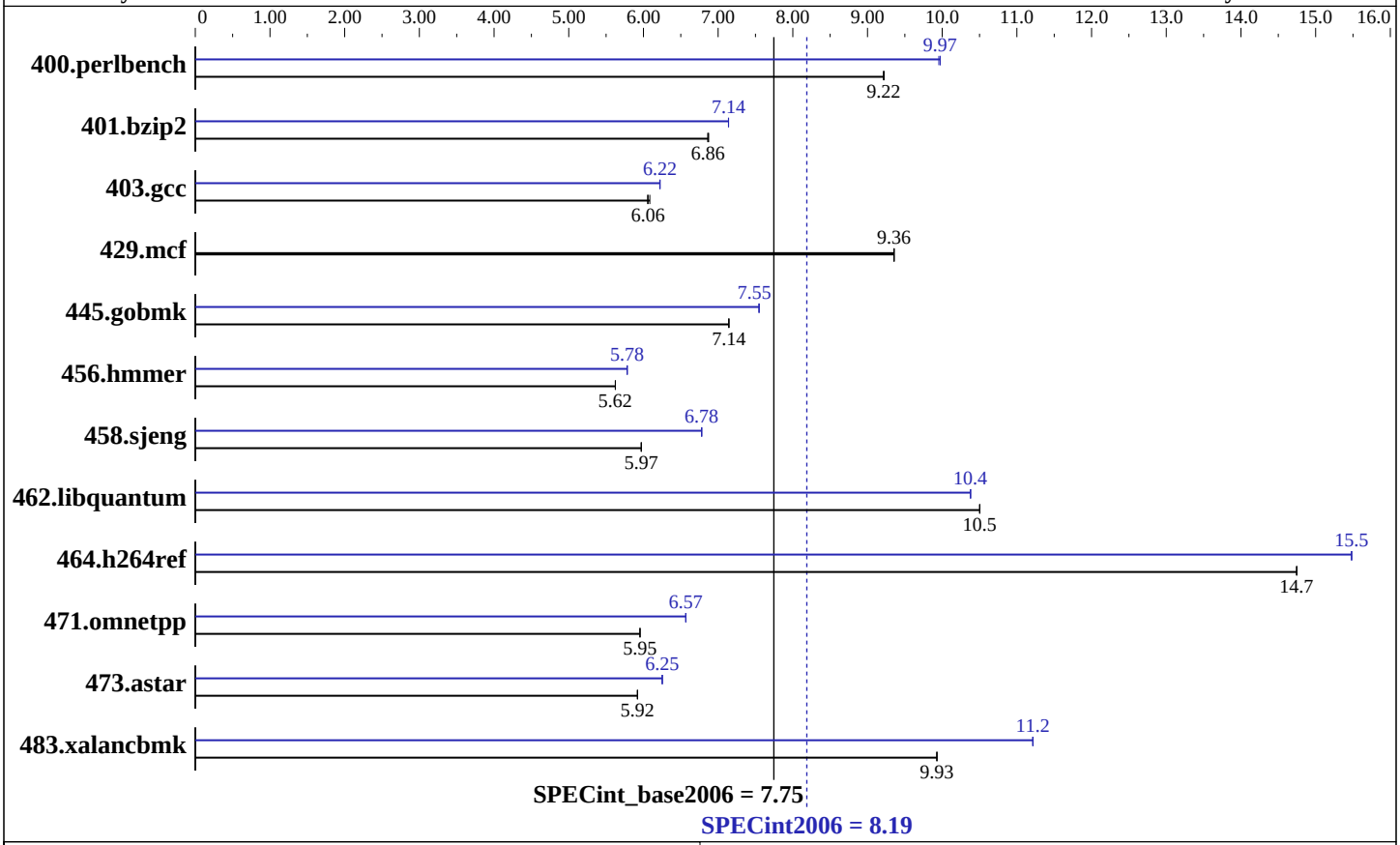
NovaScale R480 (2.60 GHz, Intel Xeon 7110M)

SPECint®2006 = 8.19

SPECint_base2006 = 7.75

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

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



Hardware

CPU Name:	Intel Xeon 7110M
CPU Characteristics:	2.6 GHz, 800 MHz bus
CPU MHz:	2600
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:	4 MB I+D on chip per chip
Other Cache:	None
Memory:	32 GB (16x2 GB) DDR2 400 PC2-3200R-333
Disk Subsystem:	2x36 GB SAS 15000 RPM
Other Hardware:	None

Software

Operating System:	Windows Server 2003 Enterprise X64 Edition
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	1059	9.22	1060	9.21	**1060**	**9.22**	980	9.97	**980**	**9.97**	981	9.95
401.bzip2	1404	6.87	**1406**	**6.86**	1406	6.86	1352	7.14	1352	7.14	**1352**	**7.14**
403.gcc	1323	6.09	**1328**	**6.06**	1329	6.06	**1294**	**6.22**	1294	6.22	1295	6.22
429.mcf	**975**	**9.36**	975	9.36	975	9.35	**975**	**9.36**	975	9.36	975	9.35
445.gobmk	1469	7.14	1468	7.15	**1468**	**7.14**	**1390**	**7.55**	1390	7.55	1390	7.55
456.hmmer	**1659**	**5.62**	1659	5.62	1659	5.62	1613	5.78	1613	5.78	**1613**	**5.78**
458.sjeng	2026	5.97	2026	5.97	**2026**	**5.97**	**1785**	**6.78**	1785	6.78	1785	6.78
462.libquantum	1973	10.5	**1973**	**10.5**	1973	10.5	**1996**	**10.4**	1996	10.4	1996	10.4
464.h264ref	1500	14.7	1501	14.7	**1501**	**14.7**	1429	15.5	**1429**	**15.5**	1430	15.5
471.omnetpp	**1050**	**5.95**	1050	5.95	1050	5.95	**952**	**6.57**	952	6.57	952	6.57
473.astar	1186	5.92	**1186**	**5.92**	1186	5.92	1123	6.25	1123	6.25	**1123**	**6.25**
483.xalancbmk	695	9.93	695	9.93	**695**	**9.93**	615	11.2	**615**	**11.2**	615	11.2

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
Hyper-Threading technology was disabled in the Bios.

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`
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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