SPEC® CINT2006 Result

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Bull SAS

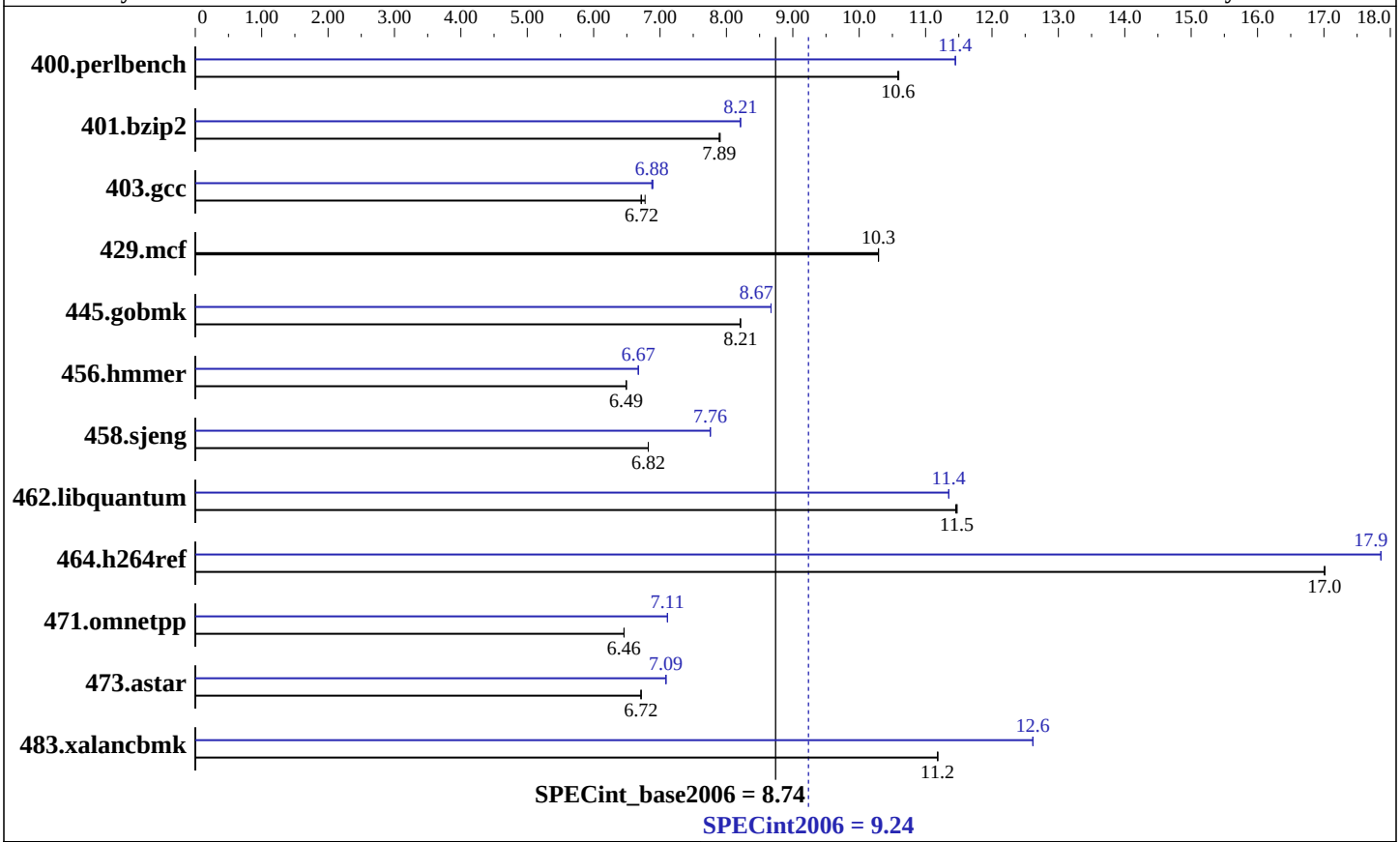
NovaScale T880 (3.0 GHz, Intel Xeon 7120M)

SPECint®2006 = 9.24

SPECint_base2006 = 8.74

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

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



Hardware

CPU Name:	Intel Xeon 7120M
CPU Characteristics:	3.0 GHz, 800 MHz bus
CPU MHz:	3000
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	922	10.6	923	10.6	**923**	**10.6**	853	11.4	853	11.5	**853**	**11.4**
401.bzip2	1221	7.91	1223	7.89	**1222**	**7.89**	1175	8.21	1175	8.21	**1175**	**8.21**
403.gcc	1188	6.78	**1198**	**6.72**	1199	6.71	1168	6.89	**1170**	**6.88**	1171	6.88
429.mcf	886	10.3	886	10.3	**886**	**10.3**	886	10.3	886	10.3	**886**	**10.3**
445.gobmk	1277	8.21	1278	8.21	**1278**	**8.21**	**1210**	**8.67**	1210	8.67	1210	8.67
456.hmmer	1437	6.49	1437	6.49	**1437**	**6.49**	1398	6.67	1398	6.67	**1398**	**6.67**
458.sjeng	1774	6.82	**1773**	**6.82**	1773	6.82	1560	7.76	1560	7.76	**1560**	**7.76**
462.libquantum	1809	11.5	**1806**	**11.5**	1806	11.5	1826	11.3	1825	11.4	**1825**	**11.4**
464.h264ref	**1301**	**17.0**	1301	17.0	1301	17.0	**1239**	**17.9**	1239	17.9	1239	17.9
471.omnetpp	**968**	**6.46**	968	6.46	968	6.46	**879**	**7.11**	879	7.11	879	7.11
473.astar	**1045**	**6.72**	1046	6.71	1045	6.72	990	7.09	**990**	**7.09**	990	7.09
483.xalancbmk	617	11.2	617	11.2	**617**	**11.2**	547	12.6	**547**	**12.6**	547	12.6

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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