SPEC® CINT2006 Result

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Bull SAS

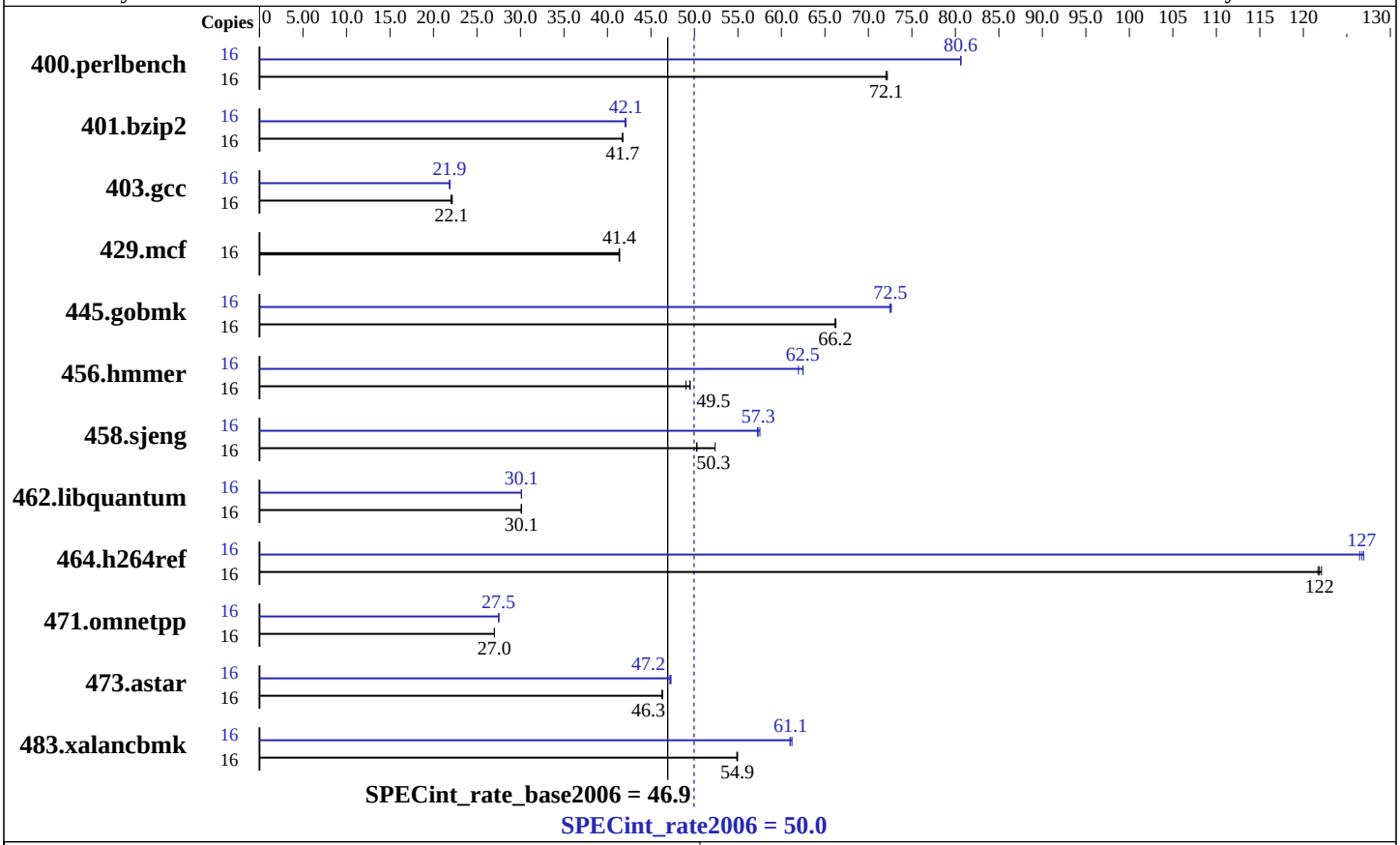
NovaScale R480 (2.60 GHz, Intel Xeon 7110M)

SPECint®_rate2006 = 50.0

SPECint_rate_base2006 = 46.9

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:	8 cores, 4 chips, 2 cores/chip, 2 threads/core
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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	16	2166	72.2	2170	72.0	**2169**	**72.1**	16	1938	80.6	**1939**	**80.6**	1940	80.6
401.bzip2	16	**3699**	**41.7**	3698	41.8	3701	41.7	16	3674	42.0	**3665**	**42.1**	3664	42.1
403.gcc	16	**5831**	**22.1**	5852	22.0	5811	22.2	16	5882	21.9	**5892**	**21.9**	5897	21.8
429.mcf	16	3525	41.4	**3527**	**41.4**	3530	41.3	16	3525	41.4	**3527**	**41.4**	3530	41.3
445.gobmk	16	2537	66.2	2533	66.3	**2535**	**66.2**	16	2311	72.6	**2314**	**72.5**	2316	72.5
456.hmmer	16	3016	49.5	**3016**	**49.5**	3044	49.0	16	**2390**	**62.5**	2388	62.5	2409	62.0
458.sjeng	16	**3849**	**50.3**	3853	50.2	3695	52.4	16	3382	57.3	**3377**	**57.3**	3365	57.5
462.libquantum	16	11007	30.1	11013	30.1	**11010**	**30.1**	16	11014	30.1	11001	30.1	**11005**	**30.1**
464.h264ref	16	2900	122	2910	122	**2906**	**122**	16	2800	126	**2794**	**127**	2789	127
471.omnetpp	16	3703	27.0	**3702**	**27.0**	3702	27.0	16	**3636**	**27.5**	3637	27.5	3635	27.5
473.astar	16	2427	46.3	2424	46.3	**2425**	**46.3**	16	2381	47.2	**2377**	**47.2**	2374	47.3
483.xalancbmk	16	2009	55.0	2012	54.9	**2010**	**54.9**	16	1803	61.2	1810	61.0	**1808**	**61.1**

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

General Notes

```
Other Configuration Notes

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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