SPEC® CINT2006 Result

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Bull SAS

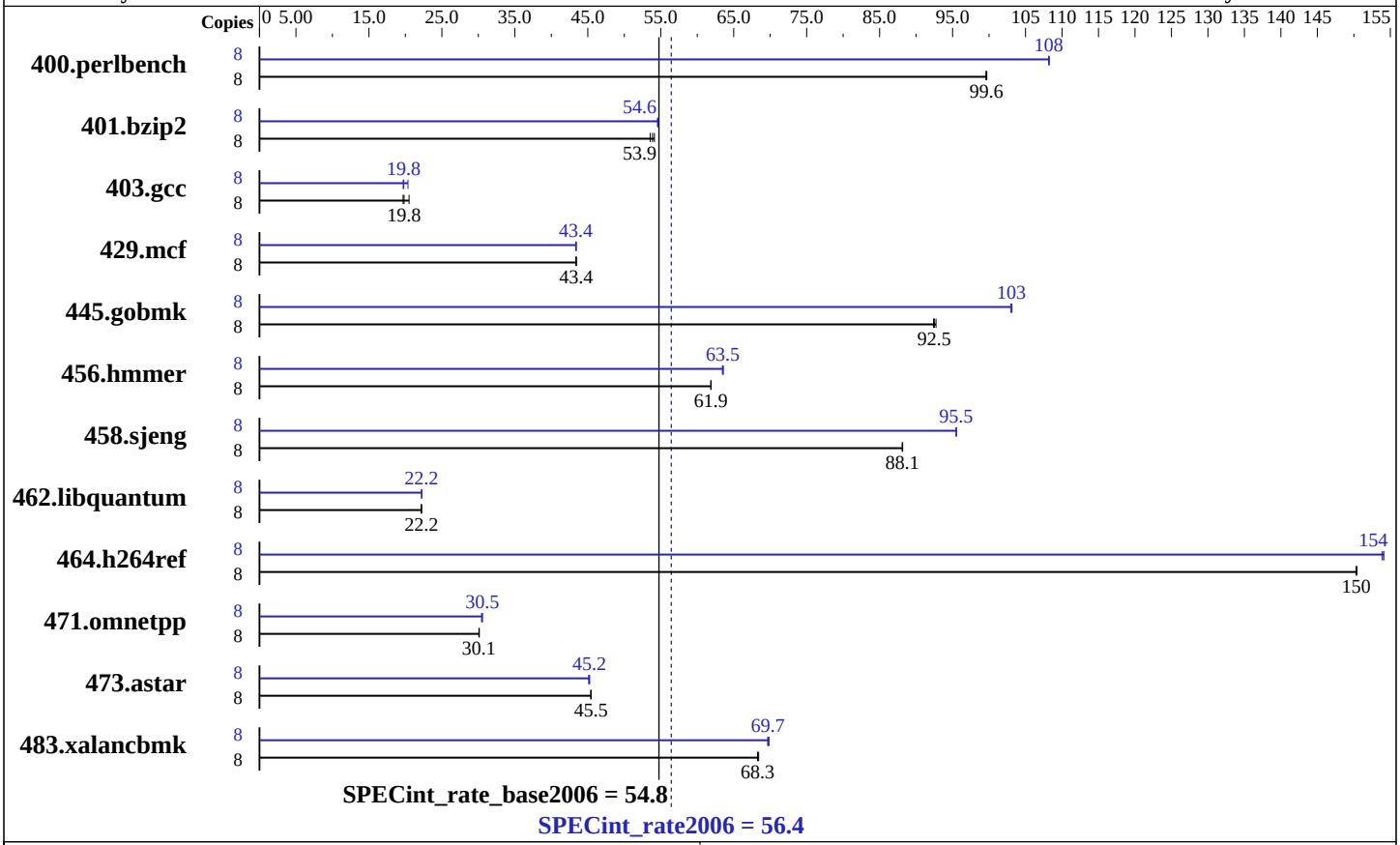
NovaScale T840 (1.86 GHz, Intel Xeon E5320)

SPECint®_rate2006 = 56.4

SPECint_rate_base2006 = 54.8

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

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



Hardware

CPU Name:	Intel Xeon E5320
CPU Characteristics:	1.86 GHz, 8MB L2, 1066MHz bus
CPU MHz:	1860
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	8 MB I+D on chip per chip, 4 MB shared / 2 cores
L3 Cache:	None
Other Cache:	None
Memory:	8 GB (667 MHz ECC CL5 DDR2 FB-DIMM)
Disk Subsystem:	3x73GB SCSI 15000 rpm
Other Hardware:	None

Software

Operating System:	Windows Server 2003 Enterprise X64 Edition
Compiler:	Intel C++ Compiler 9.1.033 for 32-bit apps, 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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	785	99.6	**785**	**99.6**	784	99.7	8	722	108	**723**	**108**	723	108
401.bzip2	8	1442	53.6	1426	54.1	**1433**	**53.9**	8	1412	54.7	1415	54.5	**1413**	**54.6**
403.gcc	8	3272	19.7	**3249**	**19.8**	3141	20.5	8	3271	19.7	**3256**	**19.8**	3164	20.4
429.mcf	8	1681	43.4	1680	43.4	**1681**	**43.4**	8	**1682**	**43.4**	1682	43.4	1680	43.4
445.gobmk	8	908	92.4	**907**	**92.5**	905	92.7	8	815	103	814	103	**814**	**103**
456.hmmer	8	1206	61.9	1207	61.9	**1206**	**61.9**	8	1174	63.6	**1175**	**63.5**	1176	63.4
458.sjeng	8	**1099**	**88.1**	1098	88.2	1099	88.1	8	1013	95.5	**1014**	**95.5**	1014	95.5
462.libquantum	8	7465	22.2	**7467**	**22.2**	7469	22.2	8	7453	22.2	7457	22.2	**7456**	**22.2**
464.h264ref	8	**1177**	**150**	1178	150	1177	150	8	1151	154	**1149**	**154**	1149	154
471.omnetpp	8	1659	30.1	**1662**	**30.1**	1662	30.1	8	**1637**	**30.5**	1643	30.4	1637	30.6
473.astar	8	1237	45.4	**1236**	**45.5**	1235	45.5	8	**1242**	**45.2**	1245	45.1	1241	45.3
483.xalancbmk	8	**808**	**68.3**	807	68.4	808	68.3	8	790	69.8	792	69.7	**792**	**69.7**

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

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

403.gcc: Same as 400.perlbench

429.mcf: `-fast /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

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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