SPEC® CINT2006 Result

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Bull SAS

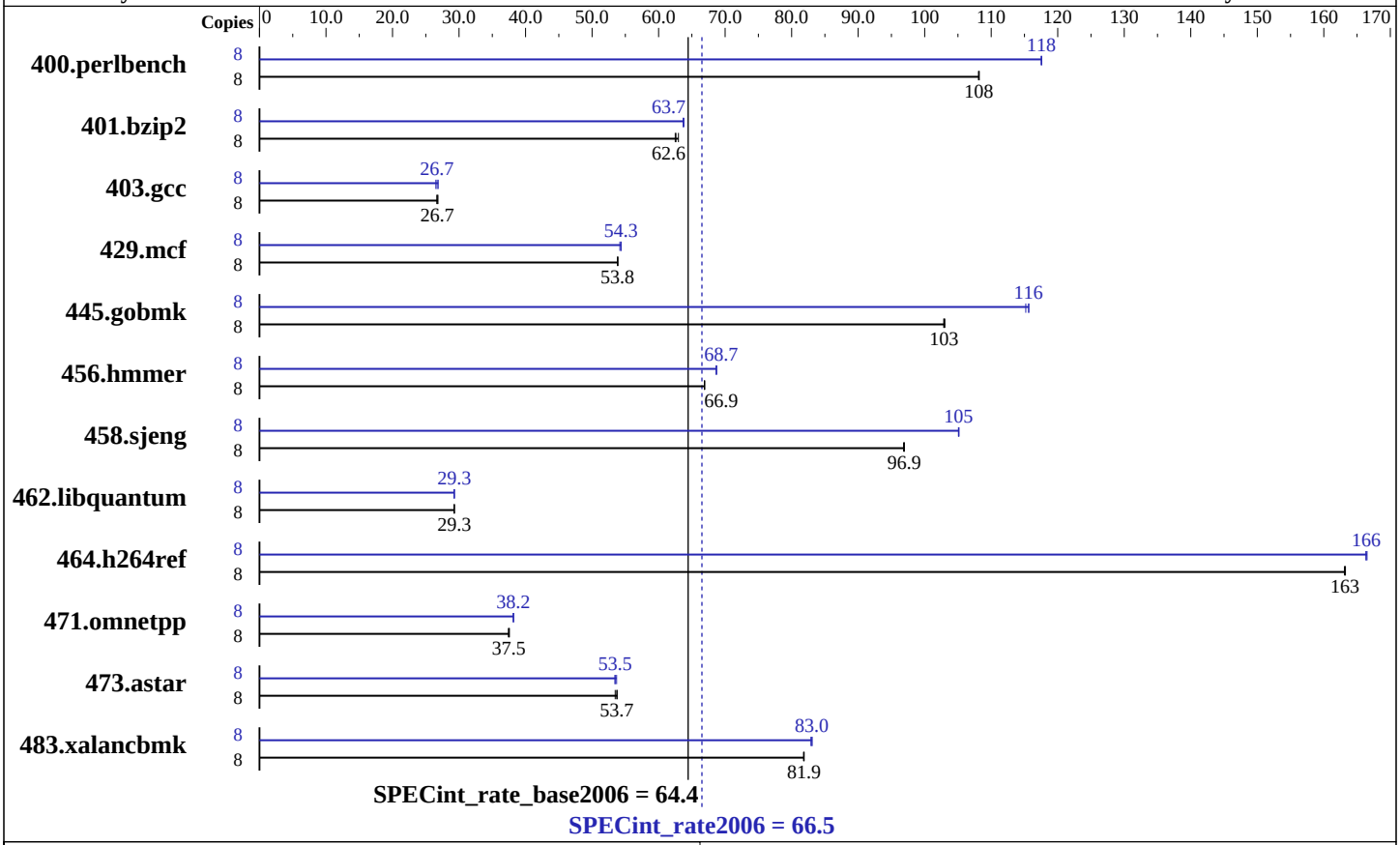
NovaScale B280 (Intel Xeon processor E5335,2.00GHz)

SPECint®_rate2006 = 66.5

SPECint_rate_base2006 = 64.4

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

Test date: Feb-2007
Hardware Availability: Jan-2007
Software Availability: Dec-2006



Hardware

CPU Name:	Intel Xeon E5335
CPU Characteristics:	2.00 GHz, 8MB L2, 1333MHz bus
CPU MHz:	2000
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1 to 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 (1GB DIMMx8, FB-DIMM PC2-5300F ECC CL5)
Disk Subsystem:	73 GB SAS, 10000RPM
Other Hardware:	None

Software

Operating System:	Windows Server 2003 Enterprise Edition (32 bits) Service Pack1
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	8	723	108	722	108	**723**	**108**	8	665	118	**665**	**118**	665	118
401.bzip2	8	1226	63.0	1235	62.5	**1233**	**62.6**	8	1212	63.7	**1212**	**63.7**	1210	63.8
403.gcc	8	2416	26.7	2400	26.8	**2409**	**26.7**	8	**2412**	**26.7**	2397	26.9	2429	26.5
429.mcf	8	1354	53.9	1355	53.8	**1355**	**53.8**	8	**1343**	**54.3**	1347	54.2	1342	54.3
445.gobmk	8	814	103	816	103	**815**	**103**	8	726	116	729	115	**726**	**116**
456.hmmer	8	1116	66.9	1115	66.9	**1116**	**66.9**	8	1086	68.7	1087	68.6	**1087**	**68.7**
458.sjeng	8	1000	96.8	**999**	**96.9**	999	96.9	8	920	105	**921**	**105**	921	105
462.libquantum	8	5657	29.3	5665	29.3	**5660**	**29.3**	8	**5658**	**29.3**	5658	29.3	5667	29.2
464.h264ref	8	**1085**	**163**	1084	163	1086	163	8	1064	166	1063	166	**1064**	**166**
471.omnetpp	8	**1333**	**37.5**	1336	37.4	1331	37.6	8	1311	38.1	**1309**	**38.2**	1309	38.2
473.astar	8	1044	53.8	**1046**	**53.7**	1050	53.5	8	**1050**	**53.5**	1046	53.7	1051	53.4
483.xalancbmk	8	675	81.8	**674**	**81.9**	674	81.9	8	666	82.9	665	83.1	**665**	**83.0**

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:
`-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

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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