SPEC® CINT2006 Result
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Bull SAS

$SPECint^®\_rate2006 =$ 33.8

NovaScale B280 (Intel Xeon processor 5110,1.60GHz)
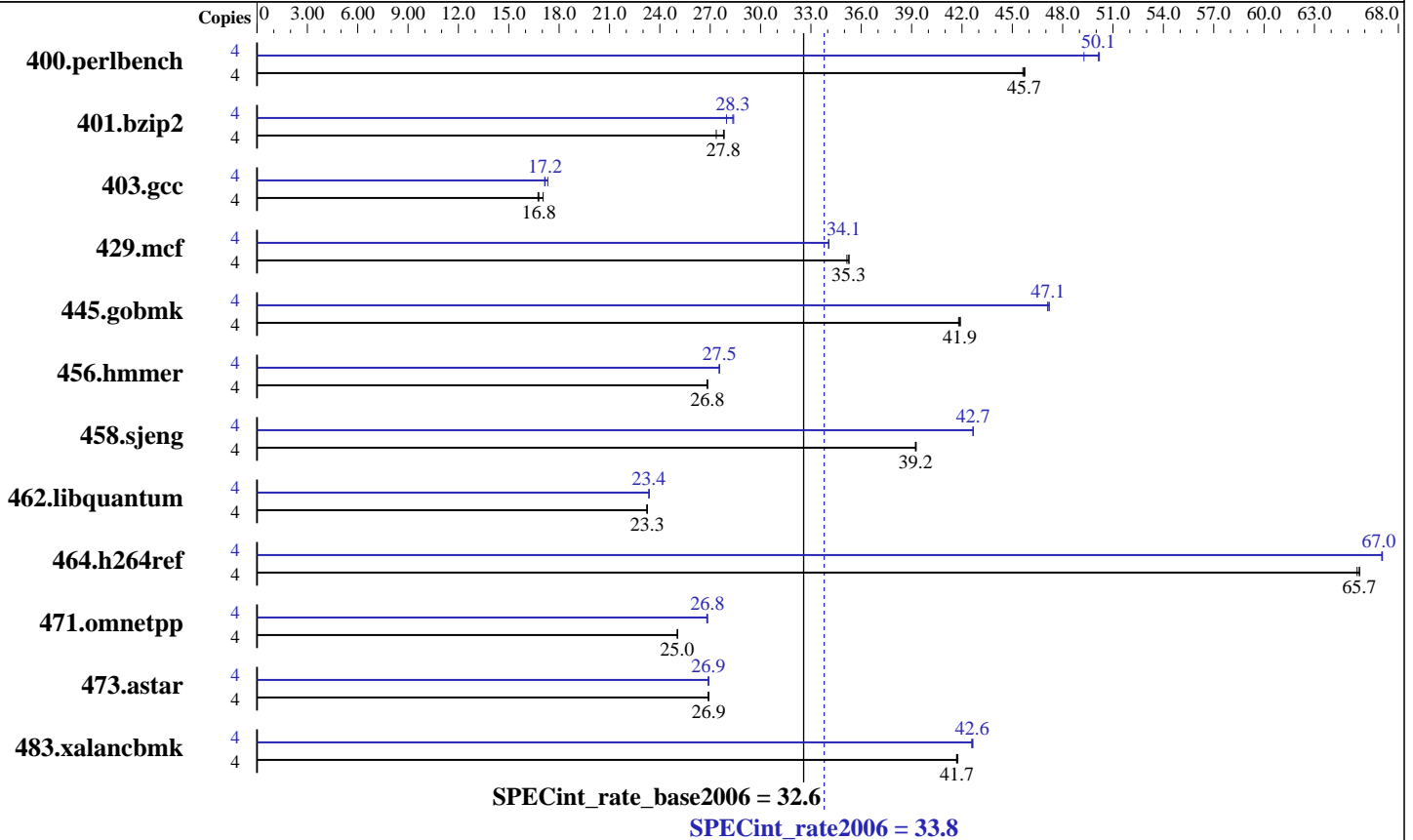
$SPECint\_rate\_base2006 =$ 32.6

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

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

Benchmark	Copies	Base	Peak
400.perlbench	4 / 4	45.7	50.1
401.bzip2	4 / 4	27.8	28.3
403.gcc	4 / 4	16.8	17.2
429.mcf	4 / 4	35.3	34.1
445.gobmk	4 / 4	41.9	47.1
456.hmmer	4 / 4	26.8	27.5
458.sjeng	4 / 4	39.2	42.7
462.libquantum	4 / 4	23.3	23.4
464.h264ref	4 / 4	65.7	67.0
471.omnetpp	4 / 4	25.0	26.8
473.astar	4 / 4	26.9	26.9
483.xalancbmk	4 / 4	41.7	42.6

SPECint_rate_base2006 = 32.6
SPECint_rate2006 = 33.8

Hardware

CPU Name: Intel Xeon 5110
CPU Characteristics: 1.60 GHz, 4MB L2, 1066MHz bus
CPU MHz: 1600
FPU: Integrated
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
CPU(s) orderable: 1 to 2 chips
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 4 MB I+D on chip per chip
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	Copies	Base Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Peak Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	4	**855**	**45.7**	854	45.7	856	45.6	4	793	49.3	**780**	**50.1**	779	50.2
401.bzip2	4	1411	27.4	1387	27.8	**1389**	**27.8**	4	1380	28.0	1359	28.4	**1362**	**28.3**
403.gcc	4	**1918**	**16.8**	1923	16.7	1889	17.0	4	1858	17.3	1879	17.1	**1876**	**17.2**
429.mcf	4	1034	35.3	1038	35.1	**1035**	**35.3**	4	1071	34.1	1071	34.1	**1071**	**34.1**
445.gobmk	4	1001	41.9	**1002**	**41.9**	1004	41.8	4	889	47.2	891	47.1	**890**	**47.1**
456.hmmer	4	1391	26.8	1391	26.8	**1391**	**26.8**	4	1355	27.5	1355	27.6	**1355**	**27.5**
458.sjeng	4	1232	39.3	**1233**	**39.2**	1234	39.2	4	**1134**	**42.7**	1135	42.7	1134	42.7
462.libquantum	4	3570	23.2	**3563**	**23.3**	3563	23.3	4	3549	23.4	3548	23.4	**3548**	**23.4**
464.h264ref	4	1351	65.5	**1348**	**65.7**	1348	65.7	4	**1321**	**67.0**	1320	67.1	1321	67.0
471.omnetpp	4	998	25.1	998	25.0	**998**	**25.0**	4	932	26.8	**932**	**26.8**	933	26.8
473.astar	4	1045	26.9	**1043**	**26.9**	1043	26.9	4	**1044**	**26.9**	1044	26.9	1044	26.9
483.xalancbmk	4	**662**	**41.7**	661	41.8	662	41.7	4	**648**	**42.6**	647	42.7	648	42.6

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
```

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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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