SPEC® CINT2006 Result
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Bull SAS

NovaScale R460
(Intel Xeon processor E5335,2.00GHz)

SPECint®_rate2006 = 67.5

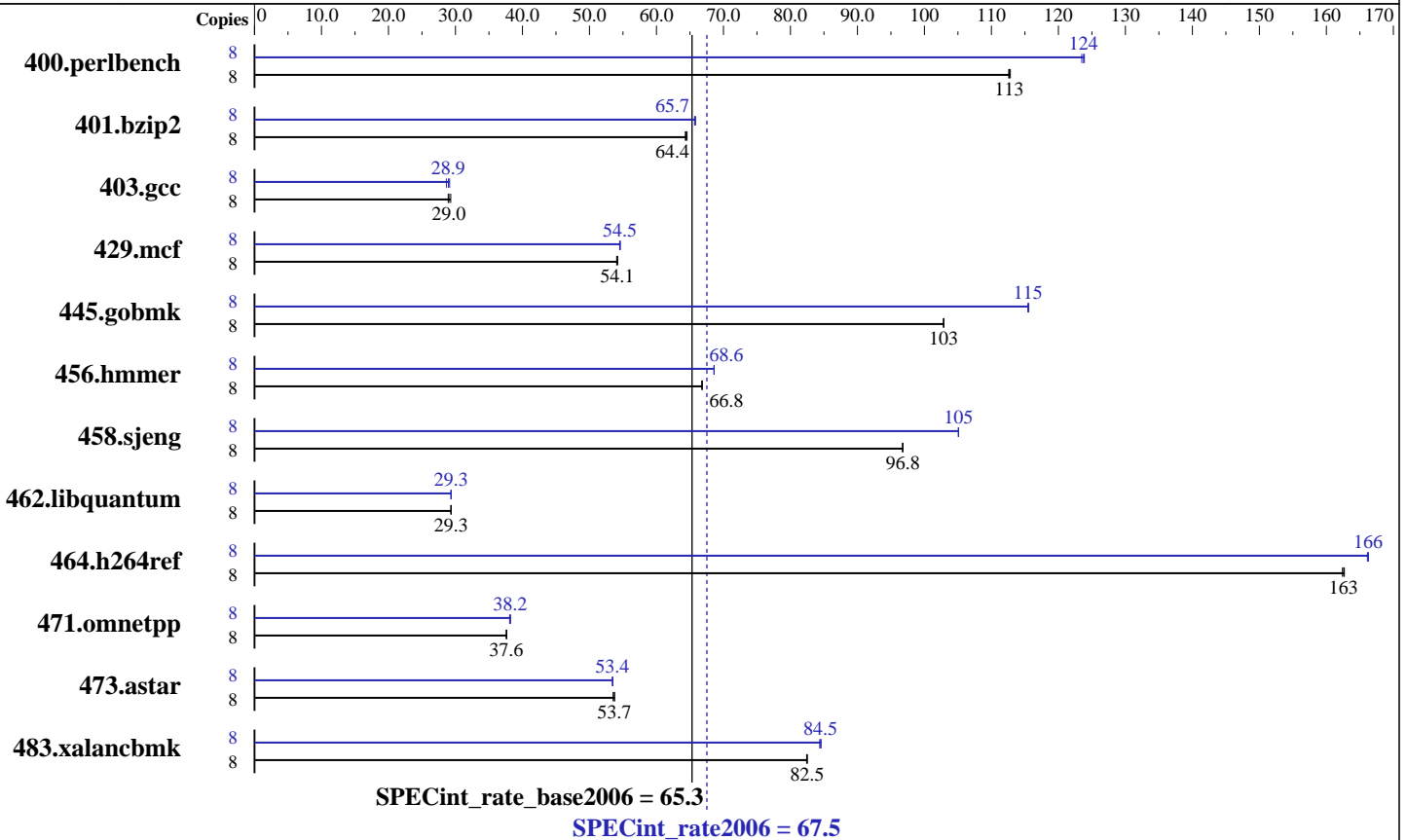SPECint_rate_base2006 = 65.3

CPU2006 license: 20

Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Apr-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006

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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: 24 GB (2GB DIMMx12, FB-DIMM PC2-5300F ECC CL5)

Disk Subsystem: 73 GB SAS, 10000RPM

Other Hardware: None

Software

Operating System: Windows Server 2003 R2 Enterprise X64 Edition 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 Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Peak Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	694	113	693	113	**694**	**113**	8	631	124	**632**	**124**	633	123
401.bzip2	8	1200	64.3	1196	64.6	**1199**	**64.4**	8	**1174**	**65.7**	1175	65.7	1173	65.8
403.gcc	8	**2219**	**29.0**	2227	28.9	2199	29.3	8	**2225**	**28.9**	2211	29.1	2249	28.6
429.mcf	8	1346	54.2	**1348**	**54.1**	1350	54.1	8	1336	54.6	**1338**	**54.5**	1338	54.5
445.gobmk	8	816	103	**816**	**103**	816	103	8	727	115	726	116	**727**	**115**
456.hmmer	8	**1117**	**66.8**	1117	66.8	1117	66.8	8	**1088**	**68.6**	1088	68.6	1088	68.6
458.sjeng	8	**1000**	**96.8**	1001	96.7	1000	96.8	8	921	105	**921**	**105**	921	105
462.libquantum	8	5651	29.3	**5650**	**29.3**	5650	29.3	8	**5649**	**29.3**	5648	29.3	5650	29.3
464.h264ref	8	**1089**	**163**	1090	162	1088	163	8	1066	166	1065	166	**1065**	**166**
471.omnetpp	8	1328	37.7	**1330**	**37.6**	1330	37.6	8	1308	38.2	**1310**	**38.2**	1313	38.1
473.astar	8	1049	53.5	**1046**	**53.7**	1045	53.7	8	1050	53.5	1051	53.4	**1051**	**53.4**
483.xalancbmk	8	670	82.4	**669**	**82.5**	669	82.5	8	**653**	**84.5**	653	84.6	654	84.4

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

General Notes

    The NovaScale R440 and the NovaScale R460 models are
    electronically equivalent.
    The results have been measured on a NovaScale R440 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

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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:

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Peak Other Flags (Continued)

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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