SPEC® CINT2006 Result

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Bull SAS

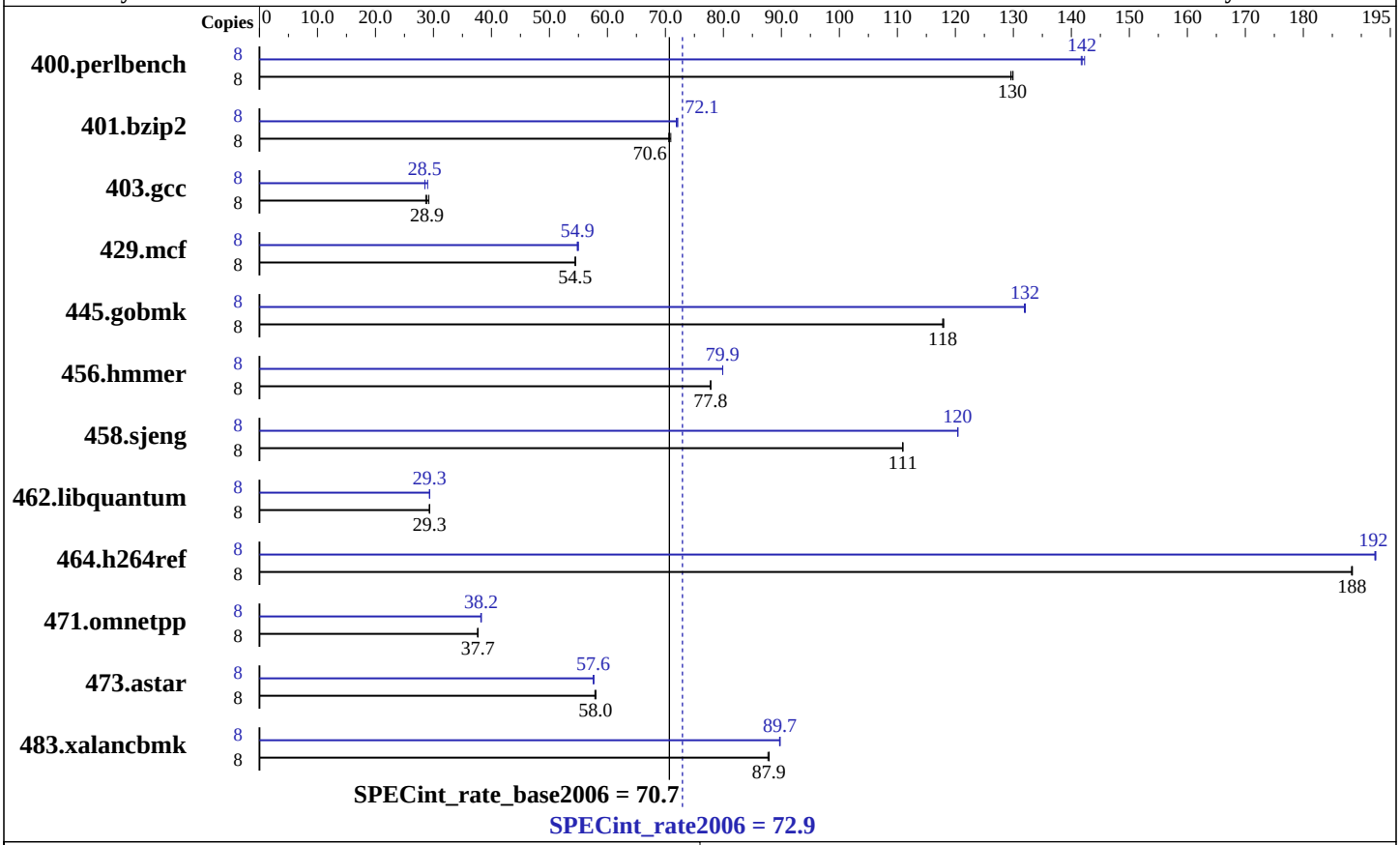
NovaScale R460
(Intel Xeon processor E5345,2.33GHz)

SPECint®_rate2006 = 72.9

SPECint_rate_base2006 = 70.7

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

Test date: Apr-2007
Hardware Availability: Mar-2007
Software Availability: Dec-2006



Hardware

CPU Name:	Intel Xeon E5345
CPU Characteristics:	2.33 GHz, 8MB L2, 1333MHz bus
CPU MHz:	2330
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							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	**602**	**130**	603	130	601	130	8	549	142	552	142	**551**	**142**
401.bzip2	8	1093	70.6	1088	70.9	**1093**	**70.6**	8	**1071**	**72.1**	1071	72.1	1074	71.9
403.gcc	8	2205	29.2	2246	28.7	**2229**	**28.9**	8	2258	28.5	**2257**	**28.5**	2221	29.0
429.mcf	8	1340	54.4	**1340**	**54.5**	1338	54.5	8	1331	54.8	1326	55.0	**1330**	**54.9**
445.gobmk	8	712	118	711	118	**712**	**118**	8	636	132	635	132	**636**	**132**
456.hmmer	8	959	77.8	**959**	**77.8**	960	77.8	8	934	79.9	934	79.9	**934**	**79.9**
458.sjeng	8	873	111	873	111	**873**	**111**	8	804	120	804	120	**804**	**120**
462.libquantum	8	5654	29.3	**5654**	**29.3**	5650	29.3	8	5649	29.3	**5651**	**29.3**	5651	29.3
464.h264ref	8	**940**	**188**	940	188	939	188	8	920	192	920	193	**920**	**192**
471.omnetpp	8	1329	37.6	**1328**	**37.7**	1327	37.7	8	1307	38.2	**1308**	**38.2**	1310	38.2
473.astar	8	**969**	**58.0**	968	58.0	971	57.8	8	976	57.6	974	57.7	**975**	**57.6**
483.xalancbmk	8	**628**	**87.9**	628	87.9	630	87.7	8	616	89.7	**615**	**89.7**	615	89.8

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`

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:

Continued on next page

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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