SPEC® CINT2006 Result

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Bull SAS

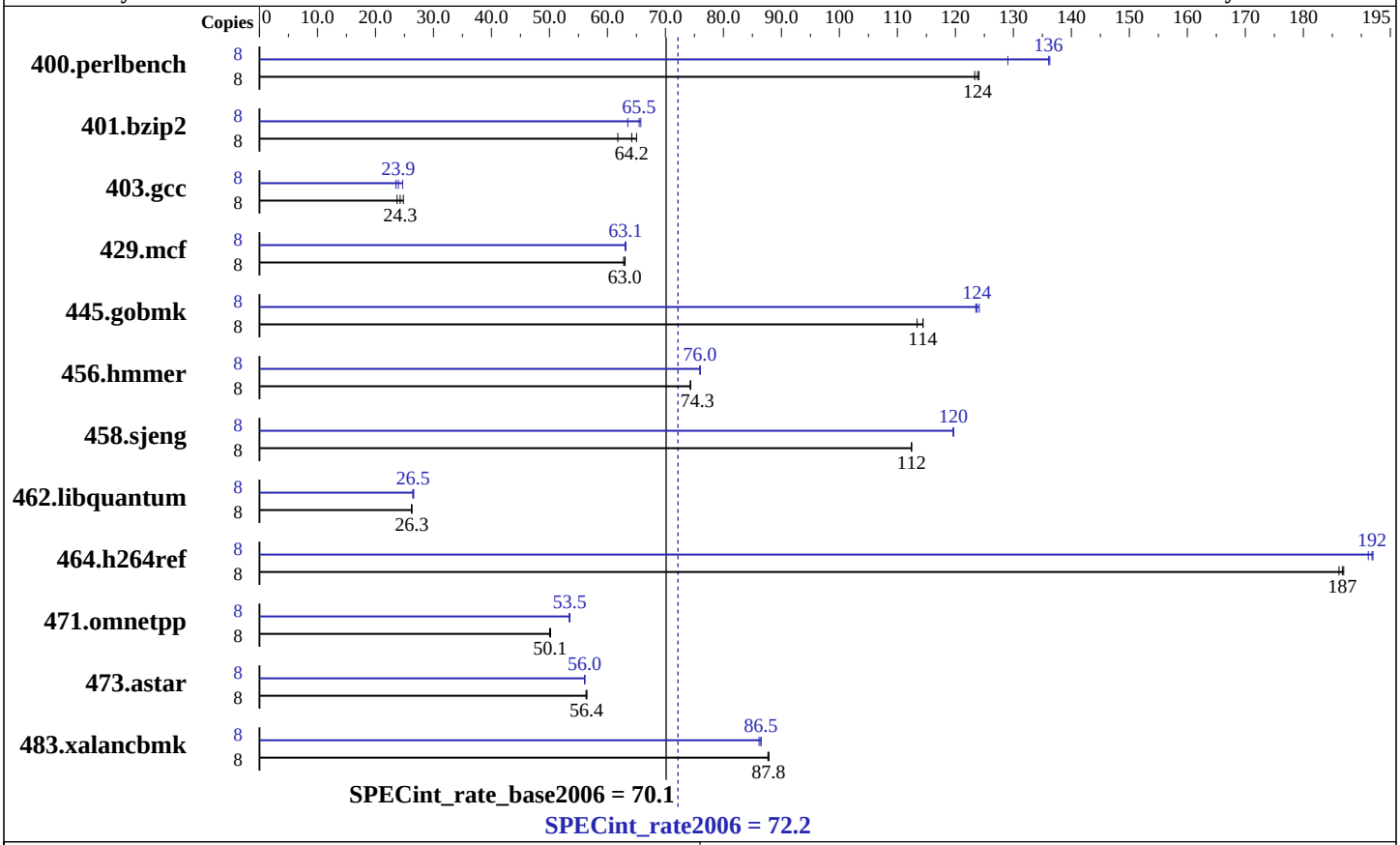
NovaScale T840
(Intel Xeon processor E5345,2.33GHz)

SPECint®_rate2006 = 72.2

SPECint_rate_base2006 = 70.1

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

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



Hardware

CPU Name:	Intel Xeon E5345
CPU Characteristics:	2.33 GHz, 8 MB L2, 1333 MHz 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:	16 GB (2x8 GB) FB-DIMM PC2-5300F ECC CL5
Disk Subsystem:	3x73 GB SCSI, 15000 RPM
Other Hardware:	None

Software

Operating System:	Windows Server 2003 Enterprise X64 Edition
Compiler:	Intel C++ Compiler for IA32 version 9.1 Build 20070322Z Package ID: W_CC_P_9.1.037 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	634	123	**631**	**124**	630	124	8	606	129	**574**	**136**	573	136
401.bzip2	8	1249	61.8	**1203**	**64.2**	1187	65.0	8	1216	63.5	**1179**	**65.5**	1174	65.8
403.gcc	8	2595	24.8	**2654**	**24.3**	2714	23.7	8	2607	24.7	**2689**	**23.9**	2736	23.5
429.mcf	8	**1158**	**63.0**	1162	62.8	1157	63.1	8	1155	63.2	1157	63.0	**1156**	**63.1**
445.gobmk	8	740	113	733	114	**734**	**114**	8	679	124	676	124	**678**	**124**
456.hmmer	8	1004	74.3	**1004**	**74.3**	1004	74.3	8	983	76.0	982	76.0	**983**	**76.0**
458.sjeng	8	861	112	**861**	**112**	861	112	8	809	120	809	120	**809**	**120**
462.libquantum	8	**6314**	**26.3**	6317	26.2	6311	26.3	8	**6261**	**26.5**	6265	26.5	6231	26.6
464.h264ref	8	951	186	**948**	**187**	947	187	8	926	191	**923**	**192**	922	192
471.omnetpp	8	999	50.0	**998**	**50.1**	996	50.2	8	936	53.4	934	53.5	**935**	**53.5**
473.astar	8	997	56.3	**995**	**56.4**	995	56.4	8	1000	56.1	1002	56.0	**1002**	**56.0**
483.xalancbmk	8	630	87.7	**629**	**87.8**	628	87.8	8	641	86.1	**638**	**86.5**	638	86.5

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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