SPEC® CINT2006 Result

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Bull SAS

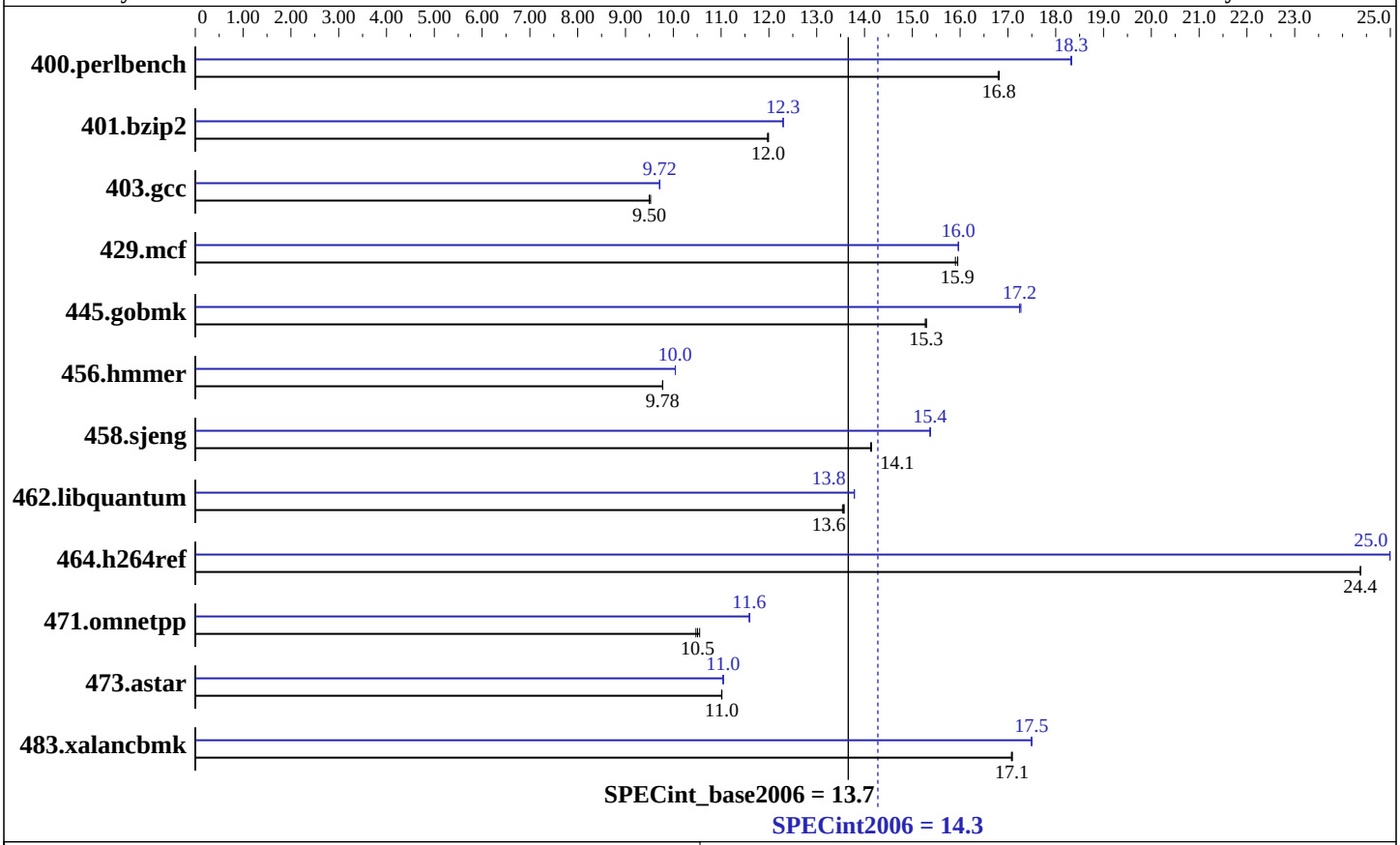
NovaScale T840
(Intel Xeon processor E5345,2.33GHz)

SPECint®2006 = 14.3

SPECint_base2006 = 13.7

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:	1 core, 1 chip, 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	581	16.8	**581**	**16.8**	582	16.8	533	18.3	533	18.3	**533**	**18.3**
401.bzip2	**805**	**12.0**	805	12.0	806	12.0	785	12.3	**785**	**12.3**	785	12.3
403.gcc	845	9.53	**847**	**9.50**	848	9.50	**829**	**9.72**	828	9.72	829	9.71
429.mcf	574	15.9	572	16.0	**572**	**15.9**	572	16.0	**571**	**16.0**	571	16.0
445.gobmk	**686**	**15.3**	687	15.3	686	15.3	**608**	**17.2**	607	17.3	608	17.2
456.hmmer	**954**	**9.78**	954	9.78	954	9.78	929	10.0	**929**	**10.0**	929	10.0
458.sjeng	856	14.1	**856**	**14.1**	855	14.1	787	15.4	**787**	**15.4**	787	15.4
462.libquantum	1530	13.5	**1528**	**13.6**	1526	13.6	**1503**	**13.8**	1503	13.8	1503	13.8
464.h264ref	**908**	**24.4**	908	24.4	908	24.4	886	25.0	885	25.0	**885**	**25.0**
471.omnetpp	597	10.5	**595**	**10.5**	592	10.6	539	11.6	**539**	**11.6**	539	11.6
473.astar	638	11.0	**637**	**11.0**	637	11.0	635	11.0	636	11.0	**635**	**11.0**
483.xalancbmk	404	17.1	**404**	**17.1**	404	17.1	394	17.5	394	17.5	**394**	**17.5**

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

Operating System Notes

```
/NUMPROC=1 flag was added to boot.ini to invoke
the uniprocessor environment
```

General Notes

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

Continued on next page

Peak Optimization Flags (Continued)

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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For other inquiries, please contact webmaster@spec.org.

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