SPEC® CINT2006 Result
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Bull SAS

NovaScale R410
(Intel Xeon processor 3040,1.86GHz)

SPECint®2006 =   12.5
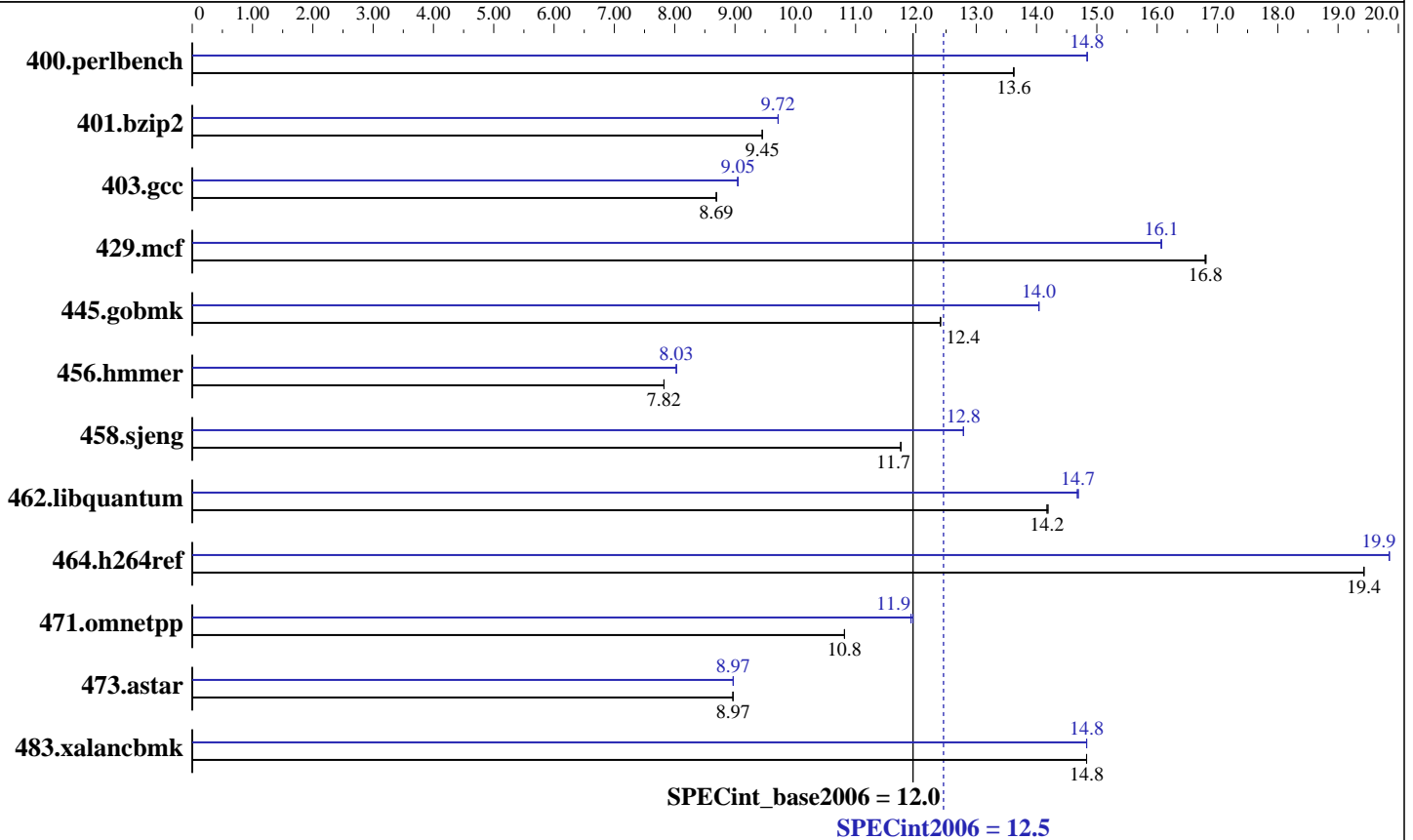
SPECint_base2006 =   12.0

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

Test date: Jun-2007
Hardware Availability: Feb-2007
Software Availability: Dec-2006

400.perlbench	14.8 / 13.6
401.bzip2	9.72 / 9.45
403.gcc	9.05 / 8.69
429.mcf	16.1 / 16.8
445.gobmk	14.0 / 12.4
456.hmmer	8.03 / 7.82
458.sjeng	12.8 / 11.7
462.libquantum	14.7 / 14.2
464.h264ref	19.9 / 19.4
471.omnetpp	11.9 / 10.8
473.astar	8.97 / 8.97
483.xalancbmk	14.8 / 14.8

SPECint_base2006 = 12.0

SPECint2006 = 12.5

Hardware

CPU Name:	Intel Xeon 3040
CPU Characteristics:	1.86 GHz, 4 MB L2, 1066 MHz system bus
CPU MHz:	1860
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 2 cores/chip
CPU(s) orderable:	1 chip
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	2 MB I+D on chip per chip
L3 Cache:	None
Other Cache:	None
Memory:	8 GB (4x2 GB) PC2-5300E ECC CL5
Disk Subsystem:	1x80 GB SATA, 10000 RPM
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	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	**717**	**13.6**	717	13.6	717	13.6	658	14.8	**658**	**14.8**	658	14.8
401.bzip2	**1021**	**9.45**	1021	9.45	1021	9.45	993	9.71	993	9.72	**993**	**9.72**
403.gcc	926	8.69	**926**	**8.69**	926	8.69	889	9.05	**890**	**9.05**	890	9.04
429.mcf	542	16.8	**543**	**16.8**	543	16.8	**567**	**16.1**	568	16.1	567	16.1
445.gobmk	**846**	**12.4**	845	12.4	846	12.4	**747**	**14.0**	747	14.0	747	14.0
456.hmmer	1193	7.82	1193	7.82	**1193**	**7.82**	1162	8.03	1162	8.03	**1162**	**8.03**
458.sjeng	**1030**	**11.7**	1030	11.8	1030	11.7	946	12.8	**946**	**12.8**	946	12.8
462.libquantum	1460	14.2	1462	14.2	**1462**	**14.2**	**1411**	**14.7**	1412	14.7	1410	14.7
464.h264ref	**1139**	**19.4**	1139	19.4	1139	19.4	1115	19.9	**1115**	**19.9**	1115	19.8
471.omnetpp	578	10.8	**578**	**10.8**	578	10.8	**524**	**11.9**	523	12.0	524	11.9
473.astar	783	8.97	783	8.97	**783**	**8.97**	783	8.97	**783**	**8.97**	783	8.97
483.xalancbmk	465	14.8	465	14.8	**465**	**14.8**	465	14.8	**465**	**14.8**	465	14.8

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
```

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CPU2006 license: 20	**Test date:** Jun-2007
Test sponsor: Bull SAS	**Hardware Availability:** Feb-2007
Tested by: Bull SAS	**Software Availability:** Dec-2006

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.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/flags.20090714.xml

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