



# SPEC® CINT2006 Result

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## Bull SAS

NovaScale T810 (Intel Xeon processor 3060,2.40GHz)

SPECint®2006 = 16.2

SPECint\_base2006 = 15.4

CPU2006 license: 20

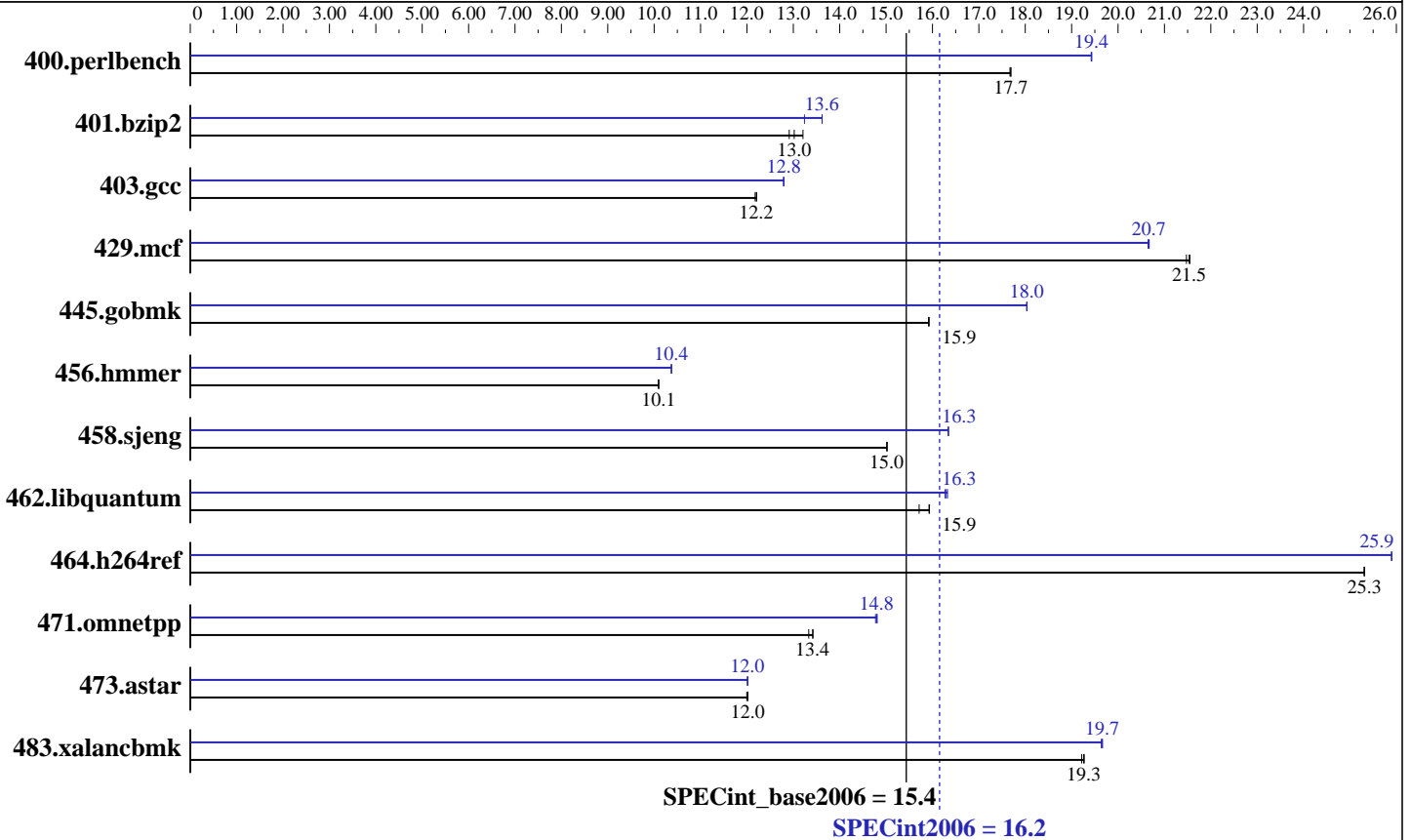
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Mar-2007

Hardware Availability: Feb-2007

Software Availability: Dec-2006



### Hardware

CPU Name: Intel Xeon 3060  
 CPU Characteristics: 2.40 GHz, 4MB L2, 1066MHz bus  
 CPU MHz: 2400  
 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: 4 MB I+D on chip per chip  
 L3 Cache: None  
 Other Cache: None  
 Memory: 8 GB (2GB DIMMx4, PC2-5300E ECC CL5)  
 Disk Subsystem: 73 GB SAS, 10000RPM  
 Other Hardware: None

### Software

Operating System: Windows Server 2003 Enterprise Edition X64 Edition Service Pack 1  
 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 (shIW32M.lib)



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## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	553	17.7	<b><u>552</u></b>	<b><u>17.7</u></b>	552	17.7	503	19.4	<b><u>503</u></b>	<b><u>19.4</u></b>	503	19.4
401.bzip2	<b><u>741</u></b>	<b><u>13.0</u></b>	747	12.9	731	13.2	<b><u>709</u></b>	<b><u>13.6</u></b>	729	13.2	708	13.6
403.gcc	661	12.2	<b><u>660</u></b>	<b><u>12.2</u></b>	659	12.2	629	12.8	<b><u>629</u></b>	<b><u>12.8</u></b>	629	12.8
429.mcf	425	21.5	<b><u>424</u></b>	<b><u>21.5</u></b>	423	21.5	<b><u>441</u></b>	<b><u>20.7</u></b>	442	20.6	441	20.7
445.gobmk	659	15.9	659	15.9	<b><u>659</u></b>	<b><u>15.9</u></b>	582	18.0	<b><u>582</u></b>	<b><u>18.0</u></b>	582	18.0
456.hammer	924	10.1	<b><u>924</u></b>	<b><u>10.1</u></b>	924	10.1	900	10.4	<b><u>900</u></b>	<b><u>10.4</u></b>	900	10.4
458.sjeng	806	15.0	<b><u>806</u></b>	<b><u>15.0</u></b>	806	15.0	<b><u>740</u></b>	<b><u>16.3</u></b>	740	16.3	740	16.3
462.libquantum	1319	15.7	<b><u>1301</u></b>	<b><u>15.9</u></b>	1300	15.9	1274	16.3	<b><u>1271</u></b>	<b><u>16.3</u></b>	1269	16.3
464.h264ref	874	25.3	874	25.3	<b><u>874</u></b>	<b><u>25.3</u></b>	855	25.9	<b><u>854</u></b>	<b><u>25.9</u></b>	854	25.9
471.omnetpp	469	13.3	466	13.4	<b><u>466</u></b>	<b><u>13.4</u></b>	423	14.8	422	14.8	<b><u>422</u></b>	<b><u>14.8</u></b>
473.astar	585	12.0	584	12.0	<b><u>584</u></b>	<b><u>12.0</u></b>	584	12.0	584	12.0	<b><u>584</u></b>	<b><u>12.0</u></b>
483.xalancbmk	359	19.2	<b><u>358</u></b>	<b><u>19.3</u></b>	358	19.3	351	19.7	351	19.6	<b><u>351</u></b>	<b><u>19.7</u></b>

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

## General Notes

Other Configuration Notes  
/NUMPROC=1 flag was added to boot.ini to invoke uniprocessor environment

## Base Compiler Invocation

C benchmarks:  
icl -Qvc7.1 -Qc99  
  
C++ benchmarks:  
icl -Qvc7.1

## Base Portability Flags

403.gcc: -DSPEC\_CPU\_WIN32

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## Base Portability Flags (Continued)

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



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## 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](mailto:webmaster@spec.org).

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