



# CINT2000 Result

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## Bull

NovaScale R440 (Intel Xeon processor 5160, 3.00 GHz)

SPECint2000 = 2956

SPECint\_base2000 = 2951

SPEC license #: 20 | Tested by: Bull | Test date: Nov-2006 | Hardware Avail: Nov-2006 | Software Avail: Nov-2006

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	76.4	1832	76.4	1832	
175.vpr	1400	66.2	2115	65.0	2153	
176.gcc	1100	36.5	3016	36.5	3016	
181.mcf	1800	45.9	3920	45.9	3920	
186.crafty	1000	36.7	2728	36.7	2728	
197.parser	1800	74.2	2427	74.0	2432	
252.eon	1300	33.6	3864	33.6	3864	
253.perlbmk	1800	50.5	3568	50.5	3568	
254.gap	1100	38.8	2832	39.0	2823	
255.vortex	1900	39.7	4791	39.7	4791	
256.bzip2	1500	67.9	2210	67.9	2210	
300.twolf	3000	86.1	3483	86.1	3483	

### Hardware

CPU: Intel Xeon Processor 5160 (1332MHz bus)  
CPU MHz: 3000  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 2 cores/chip  
CPU(s) orderable: 1 to 2 chips  
Parallel: No  
Primary Cache: 32KB(I) + 32KB(D) on chip, per core  
Secondary Cache: 4096KB(I+D) on chip per chip (shared)  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 8GB (8x1GB 533MHz ECC CL4 DDR2 FB-DIMM)  
Disk Subsystem: 2x36GB SAS 15000 rpm  
Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise Edition (32 bits), Service Pack 1  
Compiler: Intel(R) C++ Compiler for 32-bit app., Version 9.1, - Build 20060927Z Package ID: W\_CC\_C\_9.1.032  
Microsoft Visual Studio .NET 2003 (for libraries)  
MicroQuill SmartHeap Library 8.0 (shlW32M.lib)  
File System: NTFS  
System State: Default

## Notes/Tuning Information

### Portability flags:

```
176.gcc: -Dalloca=_alloca /F10000000
186.crafty: -DNT_i386
253.perlbmk: -DSPEC_CPU2000_NTOS -DPERLDLL /MT
254.gap: -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO
```

### Feedback optimization:

```
+FDO: PASS1= -Qprof_gen PASS2= -Qprof_use
```

### Baseline Tuning Flags:

```
for C programs:
-fast +FDO ONESTEP=yes shlW32M.lib
for C++ program 252.eon:
-fast -Qcxx_features +FDO ONESTEP=yes
```

### Peak Tuning Flags:

```
164.gzip: basepeak=yes
175.vpr: -fast +FDO ONESTEP=yes
176.gcc: basepeak=yes
181.mcf: basepeak=yes
```



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## Notes/Tuning Information (Continued)

186.crafty: basepeak=yes  
197.parser: -fast +FDO ONESTEP=yes  
252.eon: basepeak=yes  
253.perlbnk: basepeak=yes  
254.gap: -fast +FDO ONESTEP=yes  
255.vortex: basepeak=yes  
256.bzip2: basepeak=yes  
300.twolf: basepeak=yes

### Other Configuration Notes

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

For information about Bull please see:  
<http://www.bull.com>