



# CINT2000 Result

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## Bull

NovaScale B280 (Intel Xeon processor 5150, 2.66 GHz)

SPECint\_rate2000 = 109

SPECint\_rate\_base2000 = 109

SPEC license #: 20 | Tested by: Bull | Test date: Dec-2006 | Hardware Avail: Jan-2007 | Software Avail: Dec-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	86.8	74.9	4	87.0	74.7
175.vpr	4	85.1	76.4	4	83.7	77.6
176.gcc	4	46.3	110	4	46.3	110
181.mcf	4	97.4	85.8	4	97.4	85.8
186.crafty	4	41.1	113	4	41.1	113
197.parser	4	91.0	91.8	4	90.8	92.0
252.eon	4	37.4	161	4	37.4	161
253.perlbnk	4	58.9	142	4	58.9	142
254.gap	4	47.9	107	4	48.1	106
255.vortex	4	49.3	179	4	49.3	179
256.bzip2	4	89.4	77.8	4	89.4	77.8
300.twolf	4	97.0	143	4	97.0	143

### Hardware

CPU: Intel Xeon Processor 5150 (2.66 GHz, 4MB L2, 1333MHz bus)  
CPU MHz: 2660  
FPU: Integrated  
CPU(s) enabled: 4 cores, 2 chips, 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  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 8GB (1GB DIMMx8, FB-DIMM PC2-5300F ECC CL5)  
Disk Subsystem: 1x73GB SAS 10000 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 20060519Z Package ID: W\_CC\_C\_9.1.025  
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.perlbnk: -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: -fast +FDO ONESTEP=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

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