



# CINT2000 Result

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**Bull**  
NovaScale Blade 2320 (2.0 GHz Xeon LV)

SPECint2000 = 1700  
SPECint\_base2000 = 1695

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

| Benchmark   | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |  |
|-------------|----------------|--------------|------------|---------|-------|--|
| 164.gzip    | 1400           | 123          | 1137       | 123     | 1138  |  |
| 175.vpr     | 1400           | 109          | 1286       | 106     | 1322  |  |
| 176.gcc     | 1100           | 57.6         | 1910       | 57.6    | 1910  |  |
| 181.mcf     | 1800           | 97.5         | 1846       | 97.5    | 1846  |  |
| 186.crafty  | 1000           | 62.1         | 1610       | 62.1    | 1610  |  |
| 197.parser  | 1800           | 130          | 1387       | 130     | 1389  |  |
| 252.eon     | 1300           | 57.4         | 2266       | 57.4    | 2266  |  |
| 253.perlbmk | 1800           | 94.2         | 1911       | 94.2    | 1911  |  |
| 254.gap     | 1100           | 65.5         | 1678       | 65.3    | 1685  |  |
| 255.vortex  | 1900           | 73.8         | 2574       | 73.8    | 2574  |  |
| 256.bzip2   | 1500           | 123          | 1224       | 123     | 1224  |  |
| 300.twolf   | 3000           | 141          | 2128       | 141     | 2128  |  |

## Hardware

CPU: Intel Xeon Processor (2.0GHz Xeon LV, 2MB L2, 667MHz bus)  
 CPU MHz: 2000  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 2 cores/chip (Hyper-Threading Technology disabled)  
 CPU(s) orderable: 1 to 2  
 Parallel: No  
 Primary Cache: 12K(I) micro-ops + 16KB(D) (on chip) per core  
 Secondary Cache: 2048KB(I+D) (on chip) shared by 2 cores  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 8GB (2GB DIMMx4, 2-way interleaved DDR2-400, PC2-3200 CL3)  
 Disk Subsystem: 2x36GB 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.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: -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

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

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