



# CINT2000 Result

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## Bull

NovaScale B280 (Intel Xeon processor E5320, 1.86 GHz)

SPECint\_rate2000 = 144

SPECint\_rate\_base2000 = 144

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	126	103	8	126	103
175.vpr	8	134	96.6	8	133	97.8
176.gcc	8	62.5	163	8	62.5	163
181.mcf	8	190	87.9	8	190	87.9
186.crafty	8	58.8	158	8	58.8	158
197.parser	8	131	127	8	131	128
252.eon	8	53.5	226	8	53.5	226
253.perlbnk	8	84.2	198	8	84.2	198
254.gap	8	92.2	111	8	92.0	111
255.vortex	8	71.5	247	8	71.5	247
256.bzip2	8	128	109	8	128	109
300.twolf	8	139	201	8	139	201

### Hardware

CPU: Intel Xeon Processor E5320 (1.86 GHz, 8MB L2, 1066MHz bus)  
CPU MHz: 1860  
FPU: Integrated  
CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip  
CPU(s) orderable: 1 to 2 chips  
Parallel: No  
Primary Cache: 32KB(I) + 32KB(D) on chip, per core  
Secondary Cache: 8MB(I+D) on chip, per chip ( 4MB shared by 2 cores)  
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 20061103Z Package ID: W\_CC\_C\_9.1.033  
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>