



# CINT2000 Result

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**Bull**  
Express5800-140Rd4 (2.66 GHz Xeon MP)

SPECint\_rate2000 = 78.8  
SPECint\_rate\_base2000 = 78.8

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	167	77.7	8	167	77.7
175.vpr	8	312	41.7	8	306	42.5
176.gcc	8	105	97.0	8	108	94.6
181.mcf	8	745	22.4	8	745	22.4
186.crafty	8	103	90.2	8	103	90.2
197.parser	8	209	79.9	8	209	79.9
252.eon	8	77.5	156	8	77.5	156
253.perlbnk	8	124	135	8	124	135
254.gap	8	154	66.3	8	154	66.3
255.vortex	8	120	147	8	120	147
256.bzip2	8	293	47.5	8	293	47.5
300.twolf	8	238	117	8	236	118

### Hardware

CPU: Intel Xeon Processor MP 7020 (2.66GHz, 2x1MB L2, 667MHz bus)  
CPU MHz: 2660  
FPU: Integrated  
CPU(s) enabled: 8 cores, 4 chips, 2 cores/chip (Hyper-Threading Technology disabled)  
CPU(s) orderable: 1 to 4  
Parallel: No  
Primary Cache: 12KB(I) micro-ops + 16KB(D) (on chip) per core  
Secondary Cache: 1024KB(I+D) (on chip) per core  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 2GB (512MB DIMMx4, DDR2-400 SDRAM, CL3)  
Disk Subsystem: 2x36GB SCSI U320 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 9.0, - Build 20060222Z Package ID: W\_CC\_C\_9.0.030  
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: basepeak=1  
175.vpr: -fast +FDO ONESTEP=yes  
176.gcc: -fast +FDO ONESTEP=yes  
181.mcf: basepeak=1



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## Notes/Tuning Information (Continued)

```
186.crafty: basepeak=1
197.parser: basepeak=1
252.eon: basepeak=1
253.perlbnk: basepeak=1
254.gap: basepeak=1
255.vortex: basepeak=1
256.bzip2: basepeak=1
300.twolf: -fast +FDO shlW32M.lib
```

Express5800-140He and 140Rd4 are electronically equivalent  
Measured on Express5800-140Rd4

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