



# CINT2000 Result

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## IBM

### IBM eServer BladeCenter HS20 (3.2 GHz Intel Xeon)

SPECint2000 = 1531

SPECint\_base2000 = 1516

SPEC license #: 11 | Tested by: IBM, Research Triangle Park, NC | Test date: May-2005 | Hardware Avail: Feb-2005 | Software Avail: Oct-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	131	1070	132	1064	
175.vpr	1400	128	1090	128	1090	
176.gcc	1100	60.7	1811	60.7	1811	
181.mcf	1800	102	1771	102	1771	
186.crafty	1000	84.0	1190	83.7	1195	
197.parser	1800	137	1315	137	1315	
252.eon	1300	66.5	1954	66.1	1966	
253.perlbmk	1800	108	1664	96.9	1858	
254.gap	1100	63.9	1722	63.9	1722	
255.vortex	1900	76.7	2476	76.8	2473	
256.bzip2	1500	131	1143	131	1148	
300.twolf	3000	189	1588	189	1591	

### Hardware

CPU: Intel Xeon (3.2 GHz Xeon, 2MB L2 Cache, 800 MHz system bus)  
 CPU MHz: 3200  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology disabled)  
 CPU(s) orderable: 1,2  
 Parallel: No  
 Primary Cache: 12K(I) micro-ops + 16KB(D) on chip  
 Secondary Cache: 2048KB(I+D) on chip  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 4 x 2048 MB ECC PC2-3200 Dual Rank  
 Disk Subsystem: 73GB SCSI 10K RPM  
 Other Hardware:

### Software

Operating System: Windows Server 2003 Standard Edition  
 Compiler: Intel C/C++ Compiler 8.1 (20041019Z)  
 Intel Fortran Compiler 8.1 (20040802Z)  
 Microsoft Visual Studio .NET 13.0.9466 (for libraries)  
 MicroQuill Smartheap Library 7.30  
 File System: NTFS  
 System State: Default

## Notes/Tuning Information

### GENERAL

ONESTEP=yes  
 +FDO: PASS1=-Qprof\_gen PASS2=-Qprof\_use

### 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

### BASE TUNING

C: -fast -QxP -Qansi\_alias +FDO  
 C++: -QxP -Qipo -Qcxx\_features +FDO

### PEAK TUNING

164.gzip: -fast -QxP -Qansi\_alias -Oa +FDO  
 175.vpr: basepeak=yes  
 176.gcc: basepeak=yes  
 181.mcf: basepeak=yes  
 186.crafty: -fast -QxP -Oa +FDO shlW32M.lib  
 197.parser: basepeak=yes  
 252.eon: -fast -QxP +FDO  
 253.perlbmk: -fast -QxP -Qansi\_alias +FDO shlW32M.lib



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## Notes/Tuning Information (Continued)

```
254.gap:      basepeak=yes
255.vortex    -fast -QxP +FDO
256.bzip2:    -fast -QxP -Qunroll1 -Oa +FDO
300.twolf:    -fast -QxP +FDO shlw32M.lib
EXTRA LIBRARIES
shlw32M.lib:  MicroQuill SmartHeap Library 7.3
              www.microquill.com
```