



# CINT2000 Result

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## IBM Corporation

IBM eServer Bladecenter HS20 (3.0 GHz Xeon, 2MB L2 Cache)

SPECint2000 = 1481

SPECint\_base2000 = 1472

SPEC license #: 11 | Tested by: IBM Corporation | Test date: Dec-2005 | Hardware Avail: Feb-2006 | Software Avail: Dec-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
164.gzip	1400	142	988	140	998				
175.vpr	1400	140	998	136	1027				
176.gcc	1100	61.8	1781	61.8	1781				
181.mcf	1800	104	1734	104	1733				
186.crafty	1000	89.4	1118	89.0	1124				
197.parser	1800	145	1241	145	1246				
252.eon	1300	69.0	1885	68.7	1892				
253.perlbmk	1800	99.2	1814	99.6	1807				
254.gap	1100	68.2	1614	66.4	1657				
255.vortex	1900	73.3	2592	73.3	2594				
256.bzip2	1500	135	1114	134	1120				
300.twolf	3000	195	1538	196	1529				

### Hardware

CPU: Intel Xeon 3.0 (800 MHz system bus)  
 CPU MHz: 3000  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 2 chips, 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: 2048(I+D) on chip  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 4 x 1024 MB ECC PC2-3200 Single Rank  
 Disk Subsystem: 73GB SCSI 10K RPM  
 Other Hardware:

### Software

Operating System: Windows Server 2003 Standard Edition  
 Compiler: Intel C/C++ Compiler 9.0 (20051130Z) for 32-bit applications  
 Intel Fortran Compiler 9.0 (20051120Z) for 32-bit applications  
 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 -Qansi\_alias +FDO shlw32M.lib  
 C++: -fast -Qcxx\_features +FDO shlw32M.lib

### PEAK TUNING

164.gzip: -fast +FDO  
 175.vpr: -fast +FDO  
 176.gcc: basepeak=yes  
 181.mcf: -fast +FDO shlw32M.lib  
 186.crafty: -fast -Oa +FDO shlw32M.lib  
 197.parser: -fast +FDO  
 252.eon: -fast +FDO shlw32M.lib  
 253.perlbmk: -fast -Oa +FDO shlw32M.lib



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## Notes/Tuning Information (Continued)

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