



# CINT2000 Result

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IBM Corporation  
IBM eServer xSeries 226 (3.0 GHz Intel Xeon)

SPECint2000 = 1446  
SPECint\_base2000 = 1431

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	139	1005	140	1000	
175.vpr	1400	136	1030	136	1030	
176.gcc	1100	64.7	1699	64.7	1699	
181.mcf	1800	105	1711	105	1711	
186.crafty	1000	89.5	1117	89.3	1120	
197.parser	1800	145	1238	145	1238	
252.eon	1300	70.9	1833	70.2	1852	
253.perlbmk	1800	115	1566	103	1750	
254.gap	1100	67.6	1626	67.6	1626	
255.vortex	1900	80.9	2347	80.9	2349	
256.bzip2	1500	139	1082	137	1092	
300.twolf	3000	201	1493	201	1492	

### Hardware

CPU: Intel Xeon (3.0 GHz Xeon, 2MB L2 Cache, 800 MHz system bus)  
CPU MHz: 3000  
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 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 (20050409)  
Intel Fortran Compiler 8.1 (20050405Z)  
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
```