



# CINT2000 Result

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## IBM

### IBM eServer xSeries 336 (3.6 GHz Intel Xeon)

SPECint2000 = 1703

SPECint\_base2000 = 1683

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	117	1200	117	1193	
175.vpr	1400	116	1202	116	1202	
176.gcc	1100	54.5	2017	54.5	2017	
181.mcf	1800	96.0	1874	96.0	1874	
186.crafty	1000	74.6	1340	74.4	1344	
197.parser	1800	123	1468	123	1468	
252.eon	1300	59.1	2201	58.5	2223	
253.perlbmk	1800	96.8	1860	86.2	2087	
254.gap	1100	57.5	1914	57.5	1914	
255.vortex	1900	69.5	2733	69.5	2736	
256.bzip2	1500	119	1262	118	1277	
300.twolf	3000	168	1788	167	1792	

### Hardware

CPU: Intel Xeon (3.6 GHz Xeon, 2MB L2 Cache, 800 MHz system bus)  
CPU MHz: 3600  
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: 8 x 512 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 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
```