



# CINT2000 Result

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**IBM Corporation**  
IBM eServer xSeries 336 (3.0 GHz Intel Xeon)

SPECint\_rate2000 = 18.6  
SPECint\_rate\_base2000 = 18.2

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.zip	2	205	15.8	2	206	15.8
175.vpr	2	257	12.7	2	257	12.7
176.gcc	2	109	23.5	2	109	23.5
181.mcf	2	223	18.7	2	223	18.7
186.crafty	2	176	13.2	2	173	13.4
197.parser	2	240	17.4	2	240	17.4
252.eon	2	144	20.9	2	140	21.5
253.perlbnk	2	237	17.6	2	221	18.9
254.gap	2	118	21.7	2	118	21.7
255.vortex	2	156	28.3	2	156	28.3
256.bzip2	2	214	16.2	2	213	16.3
300.twolf	2	381	18.3	2	328	21.2

### 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 enabled)  
 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 DDR2 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.perlbnk: -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.zip: -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.perlbnk: -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
```