



# CINT2000 Result

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

SPECint\_rate2000 = 35.2  
SPECint\_rate\_base2000 = 34.6

SPEC license #: 11 | Tested by: IBM, Research Trinagle 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     | 4           | 207          | 31.4       | 4      | 209     | 31.1  |
| 175.vpr     | 4           | 267          | 24.3       | 4      | 267     | 24.3  |
| 176.gcc     | 4           | 110          | 46.4       | 4      | 110     | 46.4  |
| 181.mcf     | 4           | 350          | 23.9       | 4      | 350     | 23.9  |
| 186.crafty  | 4           | 169          | 27.4       | 4      | 177     | 26.2  |
| 197.parser  | 4           | 243          | 34.4       | 4      | 243     | 34.4  |
| 252.eon     | 4           | 143          | 42.3       | 4      | 141     | 42.9  |
| 253.perlbnk | 4           | 237          | 35.2       | 4      | 219     | 38.1  |
| 254.gap     | 4           | 128          | 39.9       | 4      | 128     | 39.9  |
| 255.vortex  | 4           | 158          | 55.8       | 4      | 158     | 55.8  |
| 256.bzip2   | 4           | 224          | 31.1       | 4      | 223     | 31.2  |
| 300.twolf   | 4           | 393          | 35.4       | 4      | 328     | 42.4  |

### Hardware

CPU: Intel Xeon (3.0 GHz Xeon, 2MB L2 Cache, 800 MHz system bus)  
 CPU MHz: 3000  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 2 chips, 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
```