



# CINT2000 Result

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## IBM Corporation

IBM eServer xSeries x306m (3.2GHz Pentium D 940, 2x2MB L2 Cache)

SPECint\_rate2000 = 36.2

SPECint\_rate\_base2000 = 35.9

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	131	24.8	2	130	25.1
175.vpr	2	132	24.5	2	129	25.2
176.gcc	2	58.3	43.8	2	58.3	43.8
181.mcf	2	106	39.5	2	106	39.5
186.crafty	2	84.2	27.6	2	83.7	27.7
197.parser	2	134	31.2	2	134	31.3
252.eon	2	64.7	46.6	2	64.5	46.8
253.perlbnk	2	92.4	45.2	2	93.0	44.9
254.gap	2	68.7	37.2	2	65.1	39.2
255.vortex	2	70.7	62.4	2	70.7	62.4
256.bzip2	2	125	27.8	2	125	27.9
300.twolf	2	184	37.9	2	185	37.7

### Hardware

CPU: Intel Pentium D 940 (800 MHz system bus)  
 CPU MHz: 3200  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1  
 Parallel: No  
 Primary Cache: 12K(I) micro-ops + 16KB(D) (on chip) per core  
 Secondary Cache: 2048KB(I+D) (on chip) per core  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 4 x 1024 MB ECC PC2-4200 Single Rank  
 Disk Subsystem: 80GB SATA 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 (20051130Z) 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.perlbnk: -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

### 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  
 253.perlbnk: -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
```