



# CINT2000 Result

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## IBM Corporation

IBM eServer xSeries x306m (3.0GHz Pentium D 930, 2x2MB L2 Cache)

SPECint\_rate2000 = 34.1

SPECint\_rate\_base2000 = 33.9

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	139	23.3	2	138	23.5
175.vpr	2	140	23.2	2	136	23.8
176.gcc	2	61.8	41.3	2	61.8	41.3
181.mcf	2	109	38.4	2	109	38.4
186.crafty	2	89.8	25.8	2	89.3	26.0
197.parser	2	142	29.3	2	142	29.4
252.eon	2	69.0	43.7	2	68.8	43.8
253.perlbnk	2	98.3	42.5	2	98.8	42.3
254.gap	2	72.7	35.1	2	70.2	36.4
255.vortex	2	74.8	58.9	2	74.9	58.9
256.bzip2	2	133	26.2	2	132	26.3
300.twolf	2	196	35.5	2	197	35.3

### Hardware

CPU: Intel Pentium D 930 (800 MHz system bus)  
 CPU MHz: 3000  
 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
```