



# CINT2000 Result

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## IBM Corporation

IBM eServer xSeries x206m (3.2GHz Pentium 4 640, 2MB L2 Cache)

SPECint2000 = 1594

SPECint\_base2000 = 1585

SPEC license #: 11 | Tested by: IBM Corporation | Test date: Sep-2005 | Hardware Avail: Sep-2005 | Software Avail: Jun-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
164.gzip	1400	132	1060	131	1070				
175.vpr	1400	128	1096	124	1126				
176.gcc	1100	58.4	1884	58.4	1884				
181.mcf	1800	89.9	2002	89.9	2003				
186.crafty	1000	84.2	1187	84.5	1183				
197.parser	1800	134	1343	134	1347				
252.eon	1300	64.7	2010	64.9	2003				
253.perlbnk	1800	94.1	1912	93.5	1926				
254.gap	1100	63.7	1726	62.2	1768				
255.vortex	1900	70.3	2703	70.3	2703				
256.bzip2	1500	123	1222	122	1225				
300.twolf	3000	183	1642	183	1640				

### Hardware

CPU: Intel Pentium 4 640 (800 MHz system bus)  
 CPU MHz: 3200  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology disabled)  
 CPU(s) orderable: 1  
 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: 4 x 1024 MB ECC PC2-3200 Single Rank  
 Disk Subsystem: 73GB SAS 15K RPM  
 Other Hardware:

### Software

Operating System: Windows Server 2003 Standard Edition  
 Compiler: Intel C/C++ Compiler 9.0 (20050624Z) for 32-bit applications  
 Intel Fortran Compiler 9.0 (20050624Z) 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 -Qunroll11 -Oa +FDO shlw32M.lib  
300.twolf: -fast +FDO shlw32M.lib  
EXTRA LIBRARIES  
shlw32M.lib: MicroQuill SmartHeap Library 7.3  
www.microquill.com