



# CINT2000 Result

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## IBM Corporation

IBM eServer xSeries 306m (3.6 GHz Pentium 4 660, 2MB L2 Cache)

SPECint2000 = 1772

SPECint\_base2000 = 1764

SPEC license #: 11 | Tested by: IBM Corporation | Test date: Aug-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	118	1189	117	1200	[Bar chart showing ratio]			
175.vpr	1400	115	1213	112	1246	[Bar chart showing ratio]			
176.gcc	1100	52.3	2101	52.3	2101	[Bar chart showing ratio]			
181.mcf	1800	84.2	2138	84.3	2135	[Bar chart showing ratio]			
186.crafty	1000	74.9	1336	75.2	1331	[Bar chart showing ratio]			
197.parser	1800	120	1502	119	1507	[Bar chart showing ratio]			
252.eon	1300	57.5	2263	57.7	2255	[Bar chart showing ratio]			
253.perlbmk	1800	83.9	2146	83.3	2160	[Bar chart showing ratio]			
254.gap	1100	57.3	1920	56.0	1963	[Bar chart showing ratio]			
255.vortex	1900	63.5	2993	63.5	2991	[Bar chart showing ratio]			
256.bzip2	1500	111	1354	111	1356	[Bar chart showing ratio]			
300.twolf	3000	163	1844	163	1842	[Bar chart showing ratio]			

### Hardware

CPU: Intel Pentium 4 660 (800 MHz system bus)  
 CPU MHz: 3600  
 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: 75GB SATA 7.2K 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  
 252.eon: srcalt=stdcpp  
 253.perlbmk: -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



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## Notes/Tuning Information (Continued)

```
253.perlbnk: -fast -Oa +FDO shlw32M.lib
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
```