



# CINT2000 Result

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## IBM Corporation

IBM eServer xSeries x206m (2.8GHz Pentium 4 521, 1MB L2 Cache)

SPECint\_rate2000 = 16.7

SPECint\_rate\_base2000 = 16.6

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	226	14.4	2	222	14.6
175.vpr	2	318	10.2	2	309	10.5
176.gcc	2	129	19.8	2	129	19.8
181.mcf	2	244	17.1	2	241	17.3
186.crafty	2	186	12.5	2	184	12.6
197.parser	2	265	15.8	2	263	15.9
252.eon	2	147	20.5	2	146	20.6
253.perlbnk	2	228	18.3	2	228	18.3
254.gap	2	123	20.7	2	122	20.9
255.vortex	2	164	27.0	2	164	26.9
256.bzip2	2	240	14.5	2	242	14.4
300.twolf	2	485	14.4	2	485	14.4

### Hardware

CPU: Intel Pentium 4 521 (800 MHz system bus)  
CPU MHz: 2800  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology enabled)  
CPU(s) orderable: 1  
Parallel: No  
Primary Cache: 12K(I) micro-ops + 16KB(D) on chip  
Secondary Cache: 1024KB(I+D) on chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 4 x 1024 MB ECC PC2-4200 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 (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
```