



# CINT2000 Result

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## IBM Corporation

IBM System x 3850 (Intel Xeon processor 7040, 2MB L2 Cache)

SPECint2000 = 1459

SPECint\_base2000 = 1454

SPEC license #: 11 | Tested by: IBM Corporation | Test date: Feb-2006 | Hardware Avail: Apr-2006 | Software Avail: Dec-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
164.gzip	1400	142	989	140	1000	[Bar chart showing ratio 1000]			
175.vpr	1400	144	975	139	1010	[Bar chart showing ratio 1010]			
176.gcc	1100	62.5	1761	62.5	1761	[Bar chart showing ratio 1761]			
181.mcf	1800	108	1673	109	1646	[Bar chart showing ratio 1646]			
186.crafty	1000	89.4	1118	88.9	1124	[Bar chart showing ratio 1124]			
197.parser	1800	146	1235	145	1237	[Bar chart showing ratio 1237]			
252.eon	1300	68.9	1887	68.7	1891	[Bar chart showing ratio 1891]			
253.perlbmk	1800	99.6	1808	99.9	1801	[Bar chart showing ratio 1801]			
254.gap	1100	70.6	1558	69.0	1595	[Bar chart showing ratio 1595]			
255.vortex	1900	75.1	2529	75.7	2510	[Bar chart showing ratio 2510]			
256.bzip2	1500	137	1094	137	1093	[Bar chart showing ratio 1093]			
300.twolf	3000	195	1542	196	1534	[Bar chart showing ratio 1534]			

### Hardware

CPU: Intel Xeon processor 7040 (667 MHz system bus)  
 CPU MHz: 3000  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 4 chips, 2 cores/chip (Hyper-Threading Technology enabled)  
 CPU(s) orderable: 1,2,3,4  
 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: 16 x 2048 MB ECC PC2-3200 Dual Rank  
 Disk Subsystem: 73GB SAS 10K RPM  
 Other Hardware:

### Software

Operating System: Windows Server 2003 Standard Edition  
 Compiler: Intel C/C++ 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.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 shlw32m.lib

### 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 shlw32m.lib  
 253.perlbmk: -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