



# CINT2000 Result

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## IBM Corporation

IBM System x 3950 (Intel Xeon processor 7040, 2MB L2 Cache)

SPECint\_rate2000 = 117

SPECint\_rate\_base2000 = 108

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.zip	16	378	68.8	16	243	107
175.vpr	16	324	80.2	16	311	83.5
176.gcc	16	114	179	16	114	179
181.mcf	16	609	54.9	16	608	54.9
186.crafty	16	181	102	16	181	103
197.parser	16	251	133	16	251	133
252.eon	16	139	174	16	139	173
253.perlbnk	16	219	153	16	217	154
254.gap	16	532	38.4	16	386	52.9
255.vortex	16	158	223	16	158	223
256.bzip2	16	305	91.2	16	271	103
300.twolf	16	337	165	16	340	164

### 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.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 shlw32M.lib

### PEAK TUNING

164.zip: -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.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

This result was measured on the IBM System X 3850  
The System X 3850 and System X 3950 are electronically equivalent.