



# CINT2000 Result

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## IBM Corporation

IBM System x 3950 (Intel Xeon processor 7030, 2MB L2 Cache)

SPECint2000 = 1209

SPECint\_base2000 = 1200

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	
164.gzip	1400	159	882	157	890	
175.vpr	1400	189	741	182	771	
176.gcc	1100	74.2	1483	74.2	1483	
181.mcf	1800	162	1111	162	1110	
186.crafty	1000	102	978	102	982	
197.parser	1800	175	1027	175	1031	
252.eon	1300	77.5	1678	77.3	1682	
253.perlbnk	1800	115	1564	115	1561	
254.gap	1100	80.3	1371	78.4	1402	
255.vortex	1900	92.5	2054	91.6	2075	
256.bzip2	1500	177	847	176	852	
300.twolf	3000	228	1315	230	1307	

### Hardware

CPU: Intel Xeon processor 7030 (667 MHz system bus)  
CPU MHz: 2667  
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.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.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.