



# CINT2000 Result

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IBM Corporation  
IBM x335( 3.2GHz, 533MHZ FSB)

SPECint2000 = 1517  
SPECint\_base2000 = 1481

SPEC license #: 11 | Tested by: IBM, Research Triangle Park, NC | Test date: Feb-2004 | Hardware Avail: Feb-2004 | Software Avail: Jun-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	106	1316	106	1317	
175.vpr	1400	126	1110	126	1110	
176.gcc	1100	63.7	1726	63.4	1734	
181.mcf	1800	130	1385	130	1384	
186.crafty	1000	81.9	1220	81.6	1225	
197.parser	1800	134	1347	134	1348	
252.eon	1300	78.1	1665	68.4	1901	
253.perlbmk	1800	126	1424	118	1520	
254.gap	1100	66.7	1649	66.7	1649	
255.vortex	1900	77.0	2467	77.0	2467	
256.bzip2	1500	125	1200	119	1255	
300.twolf	3000	178	1681	172	1742	

### Hardware

CPU: Intel Xeon processor  
CPU MHz: 3200  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology disabled)  
CPU(s) orderable: 1,2  
Parallel: No  
Primary Cache: 12k(I) micro-ops + 8KB(D) on chip  
Secondary Cache: 512KB(I+D) on chip  
L3 Cache: 2048(I+D) on chip  
Other Cache: N/A  
Memory: 4x256MB PC2100 CL2.5 ECC  
Disk Subsystem: 1 x 36GB 10K RPM SCSI  
Other Hardware: None

### Software

Operating System: Windows Server 2003, Standard Edition (Build 3790)  
Compiler: Intel C++ Compiler 8.0 Build 20031017Z  
Microsoft Visual C++ .Net 2002 (for libraries)  
SmartHeap Library Version 6.02 from <http://www.microquill.com/>  
File System: NTFS  
System State: Hyper-Threading Technology is disabled

## Notes/Tuning Information

Portability flags:  
176.gcc: -Dalloca=\_alloca /F10000000  
186.crafy: -DNT\_i386  
253.perlbmk: -DSPEC\_CPU2000\_NTOS -DPERLDLL /MT  
254.gap: -DSYS\_HAS\_CALLOC\_PROTO -DSYS\_HAS\_MALLOC\_PROTO  
ONESTEP=yes +FDO: PASS1=-Qprof\_gen PASS2=-Qprof\_use  
Base tuning for C programs: -QxN -Qipo -O3 +FDO  
Base tuning for C++ programs: -QxN -Qipo -GX -GR  
Peak tuning:  
164.gzip: -QxN -Qipo -Oa -O3 +FDO  
175.vpr: -QxN -Qipo -O3 +FDO  
176.gcc: -QxN -Qipo -O3 +FDO  
181.mcf: -QxN -Qipo -O3 +FDO  
186.crafty: basepeak=yes  
197.parser: -QxN -Qipo -O3 +FDO  
252.eon: -QxN -Qipo -O3 +FDO  
253.perlbmk: -QxN -Qipo -O3 +FDO shlW32M.lib  
254.gap: basepeak=yes  
255.vortex: basepeak=yes  
256.bzip2: -Qipo -Oa -Qunroll1 +FDO



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## Notes/Tuning Information (Continued)

300.twolf: -QxN -Qipo -O3 +FDO shlw32M.lib  
Extra libraries:  
shlw32M.lib MicroQuill SmartHeap Library 6.02, "www.microquill.com"