



# CINT2000 Result

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## IBM Corporation

IBM eServer xSeries HS20 (2.0 GHz Xeon LV, 2MB L2 Shared Cache)

SPECint\_rate2000 = 57.9

SPECint\_rate\_base2000 = 57.5

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.zip	4	125	52.0	4	125	52.0
175.vpr	4	200	32.4	4	192	33.8
176.gcc	4	68.6	74.4	4	68.6	74.4
181.mcf	4	385	21.7	4	385	21.7
186.crafty	4	66.2	70.1	4	66.4	69.8
197.parser	4	167	50.0	4	166	50.3
252.eon	4	63.9	94.4	4	64.0	94.3
253.perlbmk	4	103	81.3	4	102	81.8
254.gap	4	101	50.7	4	99.2	51.4
255.vortex	4	87.2	101	4	87.3	101
256.bzip2	4	179	39.0	4	178	39.1
300.twolf	4	157	88.5	4	154	90.5

### Hardware

CPU: Dual-Core Intel Processor Xeon LV 2.0GHz (667 MHz system bus)  
 CPU MHz: 2000  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip  
 CPU(s) orderable: 1,2  
 Parallel: No  
 Primary Cache: 12K(I) micro-ops + 16KB(D) (on chip) per core  
 Secondary Cache: 2048KB(I+D) (on chip) shared by 2 cores  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 4 x 2048 MB ECC PC2-3200 Single Rank  
 Disk Subsystem: 73GB SCSI 10K 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 (20051120Z) 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.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.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 -Qunroll1 -Oa +FDO shlw32M.lib
300.twolf:    -fast +FDO shlw32M.lib
EXTRA LIBRARIES
shlw32M.lib:  MicroQuill SmartHeap Library 7.3
              www.microquill.com
```