



# CINT2000 Result

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## IBM

### IBM eServer BladeCenter HS20 (3.6 GHz Intel Xeon)

SPECint\_rate2000 = 40.6

SPECint\_rate\_base2000 = 39.7

SPEC license #: 11 | Tested by: IBM, Research Trinagle Park, NC | Test date: Apr-2005 | Hardware Avail: Feb-2005 | Software Avail: Oct-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	174	37.3	4	175	37.0
175.vpr	4	234	27.8	4	234	27.8
176.gcc	4	94.3	54.1	4	94.3	54.1
181.mcf	4	348	24.0	4	348	24.0
186.crafty	4	141	33.0	4	142	32.8
197.parser	4	207	40.3	4	207	40.3
252.eon	4	118	51.1	4	118	51.3
253.perlbnk	4	199	41.9	4	186	45.0
254.gap	4	119	42.9	4	119	42.9
255.vortex	4	136	65.0	4	136	65.0
256.bzip2	4	199	35.0	4	199	35.0
300.twolf	4	342	40.7	4	276	50.5

#### Hardware

CPU: Intel Xeon (3.6 GHz Xeon, 2MB L2 Cache, 800 MHz system bus)  
 CPU MHz: 3600  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (Hyper-Threading Technology enabled)  
 CPU(s) orderable: 1,2  
 Parallel: No  
 Primary Cache: 12K(I) micro-ops + 16KB(D) on chip  
 Secondary Cache: 2048KB(I+D) on chip  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 4x 2048 MB ECC PC2-3200 Dual Rank  
 Disk Subsystem: 73GB SCSI 10K RPM  
 Other Hardware:

#### Software

Operating System: Windows Server 2003 Standard Edition  
 Compiler: Intel C/C++ Compiler 8.1 (20041019Z)  
 Intel Fortran Compiler 8.1 (20040802Z)  
 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 -QxP -Qansi\_alias +FDO  
 C++: -QxP -Qipo -Qcxx\_features +FDO

#### PEAK TUNING

164.gzip: -fast -QxP -Qansi\_alias -Oa +FDO  
 175.vpr: basepeak=yes  
 176.gcc: basepeak=yes  
 181.mcf: basepeak=yes  
 186.crafty: -fast -QxP -Oa +FDO shlW32M.lib  
 197.parser: basepeak=yes  
 252.eon: -fast -QxP +FDO  
 253.perlbnk: -fast -QxP -Qansi\_alias +FDO shlW32M.lib



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## Notes/Tuning Information (Continued)

```
254.gap:      basepeak=yes
255.vortex    -fast -QxP +FDO
256.bzip2:    -fast -QxP -Qunroll1 -Oa +FDO
300.twolf:    -fast -QxP +FDO shlw32M.lib
EXTRA LIBRARIES
shlw32M.lib:  MicroQuill SmartHeap Library 7.1
              www.microquill.com
```