



# CINT2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

## IBM

IBM eServer BladeCenter HS20 (3.6 GHz Intel Xeon)

SPECint2000 = 1701

SPECint\_base2000 = 1684

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	117	1199	117	1193	
175.vpr	1400	116	1205	116	1205	
176.gcc	1100	54.5	2018	54.5	2018	
181.mcf	1800	96.0	1875	96.0	1875	
186.crafty	1000	74.6	1341	74.3	1345	
197.parser	1800	123	1468	123	1468	
252.eon	1300	59.1	2200	58.7	2215	
253.perlbmk	1800	96.9	1858	86.5	2081	
254.gap	1100	57.5	1914	57.5	1914	
255.vortex	1900	69.8	2724	69.8	2723	
256.bzip2	1500	119	1265	118	1271	
300.twolf	3000	168	1788	167	1792	

### Hardware

CPU: Intel Xeon (3.6 GHz Xeon, 2MB L2 Cache, 800 MHz system bus)  
 CPU MHz: 3600  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology disabled)  
 CPU(s) orderable: 1  
 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.perlbmk: -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.perlbmk: -fast -QxP -Qansi\_alias +FDO shlw32M.lib



# CINT2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

**IBM**

IBM eServer BladeCenter HS20 (3.6 GHz Intel Xeon)

SPECint2000 = 1701

SPECint\_base2000 = 1684

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

## 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
```