



# CINT2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

## IBM Corporation

IBM eServer xSeries x306m (3.0GHz Pentium 4 631, 2MB L2 Cache)

SPECint2000 = 1515

SPECint\_base2000 = 1507

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
164.gzip	1400	138	1013	137	1024	[Bar chart showing ratio 1024]			
175.vpr	1400	136	1032	132	1059	[Bar chart showing ratio 1059]			
176.gcc	1100	60.9	1806	60.9	1806	[Bar chart showing ratio 1806]			
181.mcf	1800	91.0	1978	91.0	1977	[Bar chart showing ratio 1977]			
186.crafty	1000	89.7	1115	89.3	1120	[Bar chart showing ratio 1120]			
197.parser	1800	141	1273	141	1278	[Bar chart showing ratio 1278]			
252.eon	1300	69.0	1884	68.8	1889	[Bar chart showing ratio 1889]			
253.perlbmk	1800	98.1	1836	98.6	1826	[Bar chart showing ratio 1826]			
254.gap	1100	67.2	1637	65.5	1679	[Bar chart showing ratio 1679]			
255.vortex	1900	73.6	2581	73.7	2577	[Bar chart showing ratio 2577]			
256.bzip2	1500	130	1154	130	1158	[Bar chart showing ratio 1158]			
300.twolf	3000	196	1531	197	1522	[Bar chart showing ratio 1522]			

### Hardware

CPU: Intel Pentium 4 631 (800 MHz system bus)  
 CPU MHz: 3000  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology enabled)  
 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: 4 x 1024 MB ECC PC2-4200 Single Rank  
 Disk Subsystem: 80GB SATA 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 (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.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

### 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  
 253.perlbmk: -fast -Oa +FDO shlw32M.lib



# CINT2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

**IBM Corporation**

IBM eServer xSeries x306m (3.0GHz Pentium 4 631, 2MB L2 Cache)

SPECint2000 = 1515

SPECint\_base2000 = 1507

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

## 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