



CINT2000 Result

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IBM Corporation
IBM eServer xSeries 226 (3.2 GHz Intel Xeon)

SPECint_rate2000 = 37.0
SPECint_rate_base2000 = 36.2

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

| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|-------------|-------------|--------------|------------|--------|---------|-------|
| 164.zip | 4 | 195 | 33.3 | 4 | 196 | 33.2 |
| 175.vpr | 4 | 255 | 25.4 | 4 | 255 | 25.4 |
| 176.gcc | 4 | 105 | 48.8 | 4 | 105 | 48.8 |
| 181.mcf | 4 | 349 | 23.9 | 4 | 349 | 23.9 |
| 186.crafty | 4 | 164 | 28.4 | 4 | 162 | 28.7 |
| 197.parser | 4 | 230 | 36.4 | 4 | 230 | 36.4 |
| 252.eon | 4 | 133 | 45.4 | 4 | 132 | 45.8 |
| 253.perlbnk | 4 | 223 | 37.4 | 4 | 207 | 40.4 |
| 254.gap | 4 | 124 | 41.1 | 4 | 124 | 41.1 |
| 255.vortex | 4 | 151 | 58.3 | 4 | 151 | 58.5 |
| 256.bzip2 | 4 | 215 | 32.4 | 4 | 215 | 32.4 |
| 300.twolf | 4 | 375 | 37.1 | 4 | 308 | 45.2 |

Hardware

CPU: Intel Xeon (3.2 GHz Xeon, 2MB L2 Cache, 800 MHz system bus)
CPU MHz: 3200
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: 4 x 2048 MB 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 (20050409)
Intel Fortran Compiler 8.1 (20050405Z)
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.zip: -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 7.3
              www.microquill.com
```