



CINT2000 Result

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IBM Corporation

IBM eServer xSeries 226 (3.4 GHz Intel Xeon)

SPECint_rate2000 = 20.7

SPECint_rate_base2000 = 20.3

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

| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|-------------|-------------|--------------|------------|--------|---------|-------|
| 164.gzip | 2 | 181 | 17.9 | 2 | 183 | 17.8 |
| 175.vpr | 2 | 229 | 14.2 | 2 | 229 | 14.2 |
| 176.gcc | 2 | 97.3 | 26.2 | 2 | 97.3 | 26.2 |
| 181.mcf | 2 | 214 | 19.5 | 2 | 214 | 19.5 |
| 186.crafty | 2 | 154 | 15.1 | 2 | 157 | 14.8 |
| 197.parser | 2 | 213 | 19.6 | 2 | 213 | 19.6 |
| 252.eon | 2 | 126 | 23.9 | 2 | 125 | 24.2 |
| 253.perlbnk | 2 | 210 | 19.9 | 2 | 196 | 21.3 |
| 254.gap | 2 | 106 | 24.1 | 2 | 106 | 24.1 |
| 255.vortex | 2 | 141 | 31.3 | 2 | 142 | 31.0 |
| 256.bzip2 | 2 | 194 | 17.9 | 2 | 198 | 17.6 |
| 300.twolf | 2 | 345 | 20.2 | 2 | 290 | 24.0 |

Hardware

CPU: Intel Xeon (3.4 GHz Xeon, 2MB L2 Cache, 800 MHz system bus)
CPU MHz: 3400
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 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 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 (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.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 7.3
              www.microquill.com
```