# CINT2000 Result

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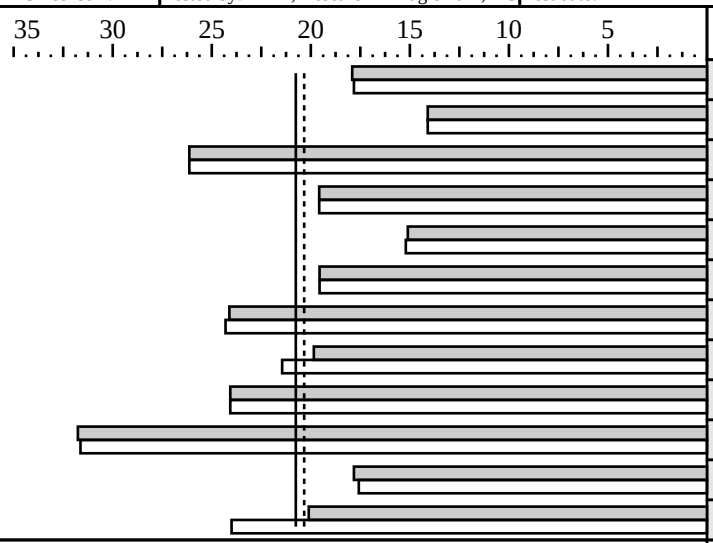
## IBM Corporation

IBM eServer xSeries 336 (3.4 GHz Intel Xeon)

SPECint_rate2000 = 20.8

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 | 182 | 17.8 |
| 175.vpr | 2 | 230 | 14.1 | 2 | 230 | 14.1 |
| 176.gcc | 2 | 97.7 | 26.1 | 2 | 97.7 | 26.1 |
| 181.mcf | 2 | 213 | 19.6 | 2 | 213 | 19.6 |
| 186.crafty | 2 | 154 | 15.1 | 2 | 153 | 15.2 |
| 197.parser | 2 | 214 | 19.6 | 2 | 214 | 19.6 |
| 252.eon | 2 | 125 | 24.1 | 2 | 124 | 24.3 |
| 253.perlbmk | 2 | 210 | 19.8 | 2 | 195 | 21.4 |
| 254.gap | 2 | 106 | 24.1 | 2 | 106 | 24.1 |
| 255.vortex | 2 | 139 | 31.8 | 2 | 139 | 31.6 |
| 256.bzip2 | 2 | 195 | 17.8 | 2 | 198 | 17.6 |
| 300.twolf | 2 | 346 | 20.1 | 2 | 290 | 24.0 |

### Hardware

| | |
|---|---|
| CPU: | Intel Xeon (3.4 GHz Xeon, 2MB L2 Cache, 800 MHz system bus) |
| CPU MHz: | 3200 |
| 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: | 8 x 512 MB ECC PC2-3200 Single 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)<br>Intel Fortran Compiler 8.1 (20050405Z)<br>Microsoft Visual Studio .NET 13.0.9466 (for libraries)<br>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
```

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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
```