# CINT2000 Result

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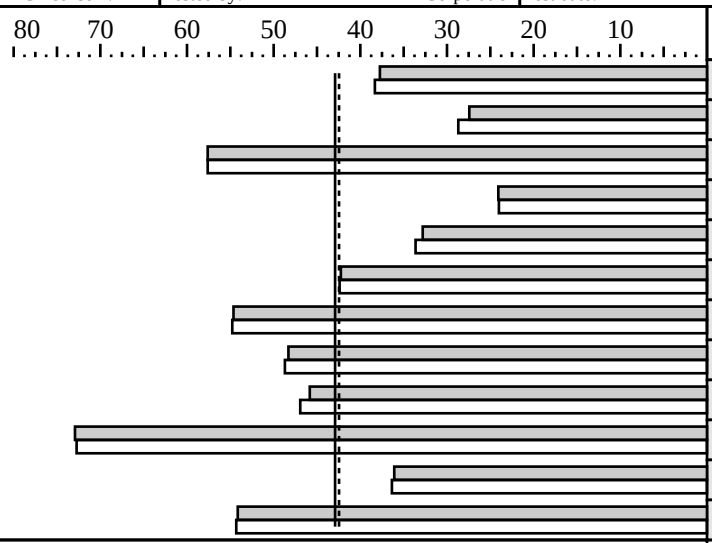
## IBM Corporation

IBM eServer xSeries 346 (3.8 GHz Xeon, 2MB L2 Cache)

SPECint_rate2000 = 42.9

SPECint_rate_base2000 = 42.5

SPEC license #: 11 | Tested by: IBM Corporation | Test date: Aug-2005 | Hardware Avail: Sep-2005 | Software Avail: Jun-2005




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 164.gzip | 4 | 172 | 37.7 | 4 | 170 | 38.3 |
| 175.vpr | 4 | 237 | 27.4 | 4 | 226 | 28.7 |
| 176.gcc | 4 | 88.6 | 57.6 | 4 | 88.6 | 57.6 |
| 181.mcf | 4 | 347 | 24.1 | 4 | 348 | 24.0 |
| 186.crafty | 4 | 141 | 32.8 | 4 | 138 | 33.6 |
| 197.parser | 4 | 198 | 42.2 | 4 | 197 | 42.4 |
| 252.eon | 4 | 110 | 54.6 | 4 | 110 | 54.8 |
| 253.perlbmk | 4 | 173 | 48.3 | 4 | 171 | 48.7 |
| 254.gap | 4 | 111 | 45.8 | 4 | 109 | 46.9 |
| 255.vortex | 4 | 121 | 72.9 | 4 | 121 | 72.7 |
| 256.bzip2 | 4 | 193 | 36.1 | 4 | 191 | 36.4 |
| 300.twolf | 4 | 257 | 54.1 | 4 | 256 | 54.3 |

### Hardware

| | |
|---|---|
| CPU: | Intel Xeon 3.8 (800 MHz system bus) |
| CPU MHz: | 3800 |
| 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: | 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 9.0 (20050624Z) for 32-bit applications<br>Intel Fortran Compiler 9.0 (20050624Z) for 32-bit applications<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
  252.eon:    srcalt=stdcpp
  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
```

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## Notes/Tuning Information (Continued)

```
    253.perlbmk: -fast -Oa +FDO shlW32M.lib
    254.gap:     -fast +FDO
    255.vortex   -fast +FDO shlw32M.lib
    256.bzip2:   -fast -Qunroll1 -Oa +FDO shlw32M.lib
    300.twolf:   -fast +FDO shlW32M.lib
  EXTRA LIBRARIES
    shlW32M.lib: MicroQuill SmartHeap Library 7.1
                 www.microquill.com
```