



CINT2000 Result

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IBM

IBM eServer xSeries 346 (3.6 GHz Intel Xeon)

SPECint_rate2000 = 21.8

SPECint_rate_base2000 = 21.3

SPEC license #: 11 | Tested by: IBM, Research Triangle 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	172	18.9	2	173	18.8
175.vpr	2	222	14.6	2	222	14.6
176.gcc	2	95.9	26.6	2	95.9	26.6
181.mcf	2	210	19.9	2	210	19.9
186.crafty	2	144	16.1	2	142	16.3
197.parser	2	203	20.6	2	203	20.6
252.eon	2	120	25.2	2	118	25.5
253.perlbnk	2	198	21.1	2	184	22.7
254.gap	2	99.3	25.7	2	99.3	25.7
255.vortex	2	133	33.1	2	133	33.2
256.bzip2	2	190	18.3	2	189	18.4
300.twolf	2	328	21.2	2	274	25.4

Hardware

CPU: Intel Xeon (3.6 GHz Xeon, 2MB L2 Cache, 800 MHz system bus)
 CPU MHz: 3600
 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)
 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
```