



CINT2000 Result

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IBM Corporation
IBM eServer xSeries 346 (3.2 GHz Intel Xeon)

SPECint_rate2000 = 37.1
SPECint_rate_base2000 = 36.2

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.zip	4	195	33.4	4	195	33.3
175.vpr	4	256	25.4	4	256	25.4
176.gcc	4	104	48.9	4	104	48.9
181.mcf	4	351	23.8	4	351	23.8
186.crafty	4	165	28.1	4	163	28.4
197.parser	4	229	36.4	4	229	36.4
252.eon	4	133	45.3	4	132	45.8
253.perlbnk	4	223	37.5	4	206	40.5
254.gap	4	123	41.5	4	123	41.5
255.vortex	4	150	58.9	4	150	58.7
256.bzip2	4	215	32.4	4	214	32.6
300.twolf	4	369	37.7	4	309	45.1

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
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.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
```