



CINT2000 Result

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IBM Corporation

IBM eServer xSeries 306m (3.2 GHz Pentium 4 640, 2MB L2 Cache)

SPECint2000 = 1593

SPECint_base2000 = 1585

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
164.gzip	1400	132	1060	131	1069				
175.vpr	1400	128	1096	124	1125				
176.gcc	1100	58.4	1883	58.4	1883				
181.mcf	1800	90.0	2001	89.9	2001				
186.crafty	1000	84.3	1187	84.6	1182				
197.parser	1800	134	1343	133	1348				
252.eon	1300	64.6	2011	64.9	2004				
253.perlbmk	1800	94.0	1916	93.4	1928				
254.gap	1100	63.9	1723	62.3	1766				
255.vortex	1900	70.3	2703	70.3	2701				
256.bzip2	1500	123	1222	123	1223				
300.twolf	3000	183	1638	183	1638				

Hardware

CPU: Intel Pentium 4 640(800 MHz system bus)
CPU MHz: 3200
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology disabled)
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: 4 x 1024 MB ECC PC2-3200 Single Rank
Disk Subsystem: 75GB SATA 7.2K RPM
Other Hardware:

Software

Operating System: Windows Server 2003 Standard Edition
Compiler: Intel C/C++ Compiler 9.0 (20050624Z) for 32-bit applications
Intel Fortran Compiler 9.0 (20050624Z) for 32-bit applications
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
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)

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253.perlbnk: -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 7.3
              www.microquill.com
```