



CFP2000 Result

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IBM Corporation

IBM eServer xSeries x306m (3.0GHz Pentium D 930, 2x2MB L2 Cache)

SPECfp2000 = 1771

SPECfp_base2000 = 1751

SPEC license #: 11 | Tested by: IBM Corporation | Test date: Jan-2006 | Hardware Avail: Jan-2006 | Software Avail: Nov-2005

| Benchmark | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio | |
|--------------|----------------|--------------|------------|---------|-------|--|
| 168.wupwise | 1600 | 63.7 | 2510 | 63.7 | 2510 | |
| 171.swim | 3100 | 122 | 2533 | 122 | 2535 | |
| 172.mgrid | 1800 | 130 | 1386 | 130 | 1386 | |
| 173.applu | 2100 | 138 | 1527 | 141 | 1487 | |
| 177.mesa | 1400 | 106 | 1321 | 106 | 1320 | |
| 178.galgel | 2900 | 89.2 | 3250 | 89.2 | 3250 | |
| 179.art | 2600 | 61.5 | 4231 | 61.5 | 4231 | |
| 183.quake | 1300 | 56.8 | 2289 | 48.0 | 2710 | |
| 187.facerec | 1900 | 102 | 1862 | 102 | 1861 | |
| 188.amp | 2200 | 189 | 1167 | 189 | 1167 | |
| 189.lucas | 2000 | 96.8 | 2067 | 95.6 | 2092 | |
| 191.fma3d | 2100 | 149 | 1408 | 149 | 1408 | |
| 200.sixtrack | 1100 | 182 | 604 | 182 | 604 | |
| 301.apsi | 2600 | 217 | 1197 | 217 | 1197 | |

Hardware

CPU: Intel Pentium D 930 (800 MHz system bus)
CPU MHz: 3000
FPU: Integrated
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
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 PC2-4200 Single Rank
Disk Subsystem: 80GB SATA 10K RPM
Other Hardware:

Software

Operating System: Windows Server 2003 Standard Edition
Compiler: Intel C/C++ Compiler 9.0 (20051130Z) for 32-bit applications
Intel Fortran Compiler 9.0 (20051130Z) 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

178.galgel: -FI /F32000000

BASE TUNING

C/F77/F90: -fast -Qansi_alias +FDO

PEAK TUNING

168.wupwise: basepeak=yes
171.swim: -fast -f77rtl +FDO
172.mgrid: basepeak=yes
173.applu: -fast -Qscalar_rep- -Qauto -f77rtl +FDO
177.mesa: -fast +FDO
178.galgel: basepeak=yes
179.art: basepeak=yes
183.quake: -fast -Oa -Qrcd +FDO shlw32M.lib
187.facerec: -fast -Qunroll1 -Qscalar_rep- +FDO



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Notes/Tuning Information (Continued)

188. ammp: basepeak=yes
189. lucas: -fast
191. fma3d: basepeak=yes
200. sixtrack: -fast +FDO
301. apsi: basepeak=yes