



CFP2000 Result

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IBM Corporation

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

SPECfp_rate2000 = 21.6

SPECfp_rate_base2000 = 21.3

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
168.wupwise	1	61.3	30.3	1	61.3	30.3
171.swim	1	117	30.8	1	117	30.8
172.mgrid	1	123	17.0	1	123	17.0
173.applu	1	136	17.9	1	134	18.2
177.mesa	1	99.5	16.3	1	99.5	16.3
178.galgel	1	85.5	39.4	1	85.5	39.4
179.art	1	56.5	53.4	1	56.5	53.4
183.quake	1	55.7	27.1	1	46.4	32.5
187.facerec	1	97.4	22.6	1	97.5	22.6
188.amp	1	179	14.3	1	179	14.3
189.lucas	1	90.9	25.5	1	89.7	25.9
191.fma3d	1	142	17.1	1	142	17.1
200.sixtrack	1	173	7.38	1	173	7.38
301.apsi	1	207	14.6	1	207	14.6

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

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: -Qipo +FDO
301. apsi: basepeak=yes