



CFP2000 Result

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IBM Corporation

IBM eServer xSeries x306m (3.0GHz Pentium 4 631, 2MB L2 Cache)

SPECfp_rate2000 = 20.6

SPECfp_rate_base2000 = 20.4

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	63.9	29.1	1	63.9	29.1
171.swim	1	119	30.3	1	119	30.3
172.mgrid	1	129	16.1	1	129	16.1
173.applu	1	138	17.6	1	142	17.1
177.mesa	1	106	15.3	1	106	15.3
178.galgel	1	89.7	37.5	1	89.7	37.5
179.art	1	61.3	49.2	1	61.3	49.2
183.quake	1	56.3	26.8	1	47.4	31.8
187.facerec	1	101	21.8	1	101	21.8
188.amp	1	190	13.4	1	190	13.4
189.lucas	1	95.6	24.3	1	94.2	24.6
191.fma3d	1	148	16.4	1	148	16.4
200.sixtrack	1	184	6.93	1	184	6.93
301.apsi	1	216	13.9	1	216	13.9

Hardware

CPU: Intel Pentium 4 631 (800 MHz system bus)
CPU MHz: 3000
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 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: 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