



CFP2000 Result

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

SPECfp_rate2000 = 19.4
SPECfp_rate_base2000 = 19.1

SPEC license #: 11 | Tested by: IBM, Research Trinagle Park, NC | Test date: May-2005 | Hardware Avail: Feb-2005 | Software Avail: Apr-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	66.7	27.8	1	66.7	27.8
171.swim	1	138	26.1	1	138	26.1
172.mgrid	1	129	16.2	1	129	16.2
173.applu	1	153	15.9	1	154	15.8
177.mesa	1	99.8	16.3	1	99.8	16.3
178.galgel	1	90.9	37.0	1	90.9	37.0
179.art	1	68.7	43.9	1	68.7	43.9
183.quake	1	71.3	21.2	1	59.9	25.2
187.facerec	1	112	19.6	1	112	19.6
188.amp	1	194	13.2	1	194	13.2
189.lucas	1	102	22.7	1	101	23.0
191.fma3d	1	156	15.6	1	156	15.6
200.sixtrack	1	190	6.71	1	188	6.79
301.apsi	1	219	13.8	1	219	13.8

Hardware

CPU: Intel Xeon (3.2 GHz Xeon, 2MB L2 Cache, 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: 1,2
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

178.galgel: -FI /F32000000

BASE TUNING

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

PEAK TUNING

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



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Notes/Tuning Information (Continued)

188. ammp: basepeak=yes
189. lucas: -fast -QxP
191. fma3d: basepeak=yes
200. sixtrack: -QxP -Qipo +FDO
301. apsi: -fast -QxP -f77rtl +FDO