



CFP2000 Result

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IBM
IBM eServer xSeries 346 (3.4 GHz Intel Xeon)

SPECfp_rate2000 = 31.4
SPECfp_rate_base2000 = 30.6

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	2	73.8	50.3	2	73.8	50.3
171.swim	2	272	26.5	2	272	26.5
172.mgrid	2	181	23.1	2	181	23.1
173.applu	2	215	22.6	2	209	23.3
177.mesa	2	94.2	34.5	2	94.2	34.5
178.galgel	2	97.7	68.9	2	97.7	68.9
179.art	2	90.6	66.6	2	90.6	66.6
183.quake	2	111	27.2	2	82.8	36.4
187.facerec	2	126	35.0	2	126	35.0
188.amp	2	192	26.6	2	192	26.6
189.lucas	2	182	25.5	2	181	25.7
191.fma3d	2	201	24.3	2	201	24.3
200.sixtrack	2	179	14.2	2	177	14.4
301.apsi	2	234	25.8	2	235	25.7

Hardware

CPU: Intel Xeon (3.4 GHz Xeon, 2MB L2 Cache, 800 MHz system bus)
CPU MHz: 3400
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 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: 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 /F3200000

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