



CFP2000 Result

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

SPECfp2000 = 1671
SPECfp_base2000 = 1647

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
168.wupwise	1600	66.7	2398	66.7	2398	[Bar chart showing ratio 2398]			
171.swim	3100	138	2251	138	2251	[Bar chart showing ratio 2251]			
172.mgrid	1800	129	1394	129	1394	[Bar chart showing ratio 1394]			
173.applu	2100	153	1375	154	1368	[Bar chart showing ratio 1368]			
177.mesa	1400	99.7	1404	99.7	1404	[Bar chart showing ratio 1404]			
178.galgel	2900	90.9	3192	90.9	3192	[Bar chart showing ratio 3192]			
179.art	2600	69.6	3735	69.6	3735	[Bar chart showing ratio 3735]			
183.quake	1300	71.3	1825	59.6	2181	[Bar chart showing ratio 2181]			
187.facerec	1900	113	1675	113	1675	[Bar chart showing ratio 1675]			
188.amp	2200	195	1129	195	1129	[Bar chart showing ratio 1129]			
189.lucas	2000	103	1946	101	1977	[Bar chart showing ratio 1977]			
191.fma3d	2100	155	1352	155	1352	[Bar chart showing ratio 1352]			
200.sixtrack	1100	190	578	188	587	[Bar chart showing ratio 587]			
301.apsi	2600	219	1189	219	1189	[Bar chart showing ratio 1189]			

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)

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