



# CFP2000 Result

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

SPECfp\_rate2000 = 30.5  
SPECfp\_rate\_base2000 = 29.9

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	75.9	48.9	2	75.9	48.9
171.swim	2	271	26.6	2	271	26.6
172.mgrid	2	181	23.1	2	181	23.1
173.applu	2	216	22.5	2	210	23.2
177.mesa	2	100	32.5	2	100	32.5
178.galgel	2	102	66.0	2	102	66.0
179.art	2	91.8	65.7	2	91.8	65.7
183.quake	2	111	27.1	2	82.9	36.4
187.facerec	2	130	33.9	2	130	33.9
188.amp	2	200	25.6	2	200	25.6
189.lucas	2	181	25.7	2	180	25.8
191.fma3d	2	208	23.4	2	208	23.4
200.sixtrack	2	190	13.4	2	188	13.6
301.apsi	2	244	24.7	2	248	24.3

### Hardware

CPU: Intel Xeon (3.2 GHz Xeon, 2MB L2 Cache, 800 MHz system bus)  
CPU MHz: 3200  
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 /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