



# CFP2000 Result

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IBM Corporation  
IBM eServer xSeries 336 (3.4 GHz Intel Xeon)

SPECfp2000 = 1741  
SPECfp\_base2000 = 1714

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	
168.wupwise	1600	64.2	2493	64.2	2493	
171.swim	3100	136	2272	136	2272	
172.mgrid	1800	124	1457	124	1457	
173.applu	2100	147	1431	147	1425	
177.mesa	1400	94.1	1488	94.1	1488	
178.galgel	2900	86.3	3359	86.3	3359	
179.art	2600	67.6	3848	67.6	3848	
183.quake	1300	68.9	1886	57.1	2278	
187.facerec	1900	109	1748	109	1748	
188.amp	2200	186	1180	186	1180	
189.lucas	2000	101	1989	99.2	2016	
191.fma3d	2100	149	1407	149	1407	
200.sixtrack	1100	179	614	177	623	
301.apsi	2600	208	1248	208	1248	

**Hardware**

CPU: Intel Xeon (3.4 GHz Xeon, 2MB L2 Cache, 800 MHz system bus)  
CPU MHz: 3400  
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 /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. ammp: basepeak=yes  
189. lucas: -fast -QxP  
191. fma3d: basepeak=yes  
200. sixtrack: -QxP -Qipo +FDO  
301. apsi: -fast -QxP -f77rtl +FDO