



# CFP2000 Result

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## IBM Corporation

IBM eServer xSeries 336 (2.8 GHz Xeon, 2MB L2 Cache)

SPECfp\_rate2000 = 29.4

SPECfp\_rate\_base2000 = 28.8

SPEC license #: 11 | Tested by: IBM Corporation | Test date: Jul-2005 | Hardware Avail: Sep-2005 | Software Avail: Jun-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	79.8	46.5	2	79.8	46.5
171.swim	2	271	26.5	2	272	26.5
172.mgrid	2	186	22.5	2	186	22.5
173.applu	2	220	22.2	2	213	22.9
177.mesa	2	114	28.5	2	114	28.5
178.galgel	2	111	60.7	2	111	60.7
179.art	2	92.5	65.2	2	92.5	65.2
183.quake	2	111	27.3	2	81.9	36.8
187.facerec	2	133	33.3	2	133	33.1
188.amp	2	216	23.7	2	216	23.7
189.lucas	2	180	25.7	2	181	25.7
191.fma3d	2	218	22.4	2	218	22.4
200.sixtrack	2	196	13.0	2	196	13.0
301.apsi	2	254	23.7	2	254	23.7

### Hardware

CPU: Intel Xeon 2.8 GHz (800 MHz system bus)  
CPU MHz: 2800  
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 9.0 (20050624Z) for 32-bit applications  
Intel Fortran Compiler 9.0 (20050624Z) for 32-bit applications  
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  
191.fma3d: srcalt=windowsdp

### BASE TUNING

C/F77/F90: -fast -Qansi\_alias +FDO

### PEAK TUNING

168.wupwise: basepeak=yes  
171.swim: -fast -f77rtl +FDO  
172.mgrid: basepeak=yes  
173.applu: -fast -Qscalar\_rep- -Qauto -f77rtl +FDO  
177.mesa: -fast +FDO  
178.galgel: basepeak=yes  
179.art: basepeak=yes  
183.quake: -fast -Oa -Qrcd +FDO shlw32M.lib



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## Notes/Tuning Information (Continued)

187.facerec: -fast -Qunroll11 -Qscalar\_rep- +FDO  
188.amp: basepeak=yes  
189.lucas: -fast  
191.fma3d: basepeak=yes  
200.sixtrack: -Qipo +FDO  
301.apsi: basepeak=yes