



# CFP2000 Result

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**IBM Corporation**  
IBM eServer xSeries 460 (3.0 GHz Intel Xeon MP)

SPECfp2000 = **1246**  
SPECfp\_base2000 = **1221**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	89.4	1790	89.4	1790	
171.swim	3100	264	1173	265	1171	
172.mgrid	1800	173	1038	173	1038	
173.applu	2100	198	1059	199	1054	
177.mesa	1400	108	1294	108	1294	
178.galgel	2900	118	2466	118	2466	
179.art	2600	94.9	2740	94.9	2740	
183.quake	1300	118	1098	89.7	1450	
187.facerec	1900	146	1304	146	1304	
188.amp	2200	211	1042	211	1042	
189.lucas	2000	190	1050	190	1051	
191.fma3d	2100	222	945	222	945	
200.sixtrack	1100	201	546	199	552	
301.apsi	2600	258	1007	258	1008	

### Hardware

CPU: Intel Xeon MP (3.0 GHz Xeon, 1MB L2 Cache, 8MB L3 Cache, 667 MHz system bus)  
CPU MHz: 3000  
FPU: Integrated  
CPU(s) enabled: 4 cores, 4 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: 1024KB(I+D) on chip  
L3 Cache: 8192KB(I+D) on chip  
Other Cache: N/A  
Memory: 8 x 2048 MB ECC DDR2 Dual Rank  
Disk Subsystem: 36GB SAS 10k RPM  
Other Hardware:

### Software

Operating System: Windows Server 2003 Standard Edition  
Compiler: Intel C/C++ Compiler 8.1 (20050409) for 32-bit applications  
Intel Fortran Compiler 8.1 (20050405Z) 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 -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



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## Notes/Tuning Information (Continued)

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