



# CFP2000 Result

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Hewlett-Packard Company  
ProLiant ML350 G4p (3.6GHz, Intel Xeon)

SPECfp2000 = 1823  
SPECfp\_base2000 = 1799

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Aug-2005 Hardware Avail: Sep-2005 Software Avail: May-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	61.5	2602	61.1	2618	
171.swim	3100	133	2324	133	2324	
172.mgrid	1800	118	1528	118	1530	
173.applu	2100	140	1499	141	1492	
177.mesa	1400	88.9	1575	88.9	1574	
178.galgel	2900	82.4	3521	82.4	3519	
179.art	2600	63.1	4123	63.1	4123	
183.quake	1300	65.1	1996	54.3	2396	
187.facerec	1900	103	1841	103	1844	
188.amp	2200	179	1228	179	1228	
189.lucas	2000	98.1	2038	97.5	2051	
191.fma3d	2100	140	1503	140	1503	
200.sixtrack	1100	170	647	170	648	
301.apsi	2600	199	1308	199	1308	

### Hardware

CPU: Intel Xeon (3.6GHz, 2MB L2, 800MHz bus)  
CPU MHz: 3600  
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 micro-ops I + 16KBD on chip  
Secondary Cache: 2048KB(I+D) on chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 4x2048MB PC2-3200  
Disk Subsystem: 1x80.0GB 7.2k Serial ATA  
Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise Edition SP1  
Compiler: Intel C++ Compiler for 32-bit applications, (Version 8.1 Build 20050524Z)  
Intel Fortran Compiler for 32-bit applications, (Version 8.1 Build 20050517Z)  
Microsoft Visual Studio .NET 7.0.9466 (for libraries)  
MicroQuill Smarheap Library 7.0  
File System: NTFS  
System State: Default

## Notes/Tuning Information

+FDO: PASS1=-Qprof\_gen PASS2=-Qprof\_use

Base tuning: -fast -Qansi\_alias +FDO

Portability flags:

178.galgel: -FI /F32000000

Peak tuning:

168.wupwise: -fast -Qansi\_alias

+FDO

171.swim: -fast

-f77rtl +FDO ONESTEP=yes

172.mgrid: -fast -Qansi\_alias

+FDO

173.applu: -fast -Qscalar\_rep- -Qauto -f77rtl

+FDO ONESTEP=yes

177.mesa: -fast

+FDO ONESTEP=yes

178.galgel: -fast

+FDO ONESTEP=yes

179.art: basepeak=1

183.quake: -fast -Oa -Qrcd

+FDO ONESTEP=yes shlw32M.lib

187.facerec: -fast -Qunroll1 -Qscalar\_rep- -fpp

+FDO ONESTEP=yes

188.amp: basepeak=1

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## Notes/Tuning Information (Continued)

189.lucas: -fast  
191.fma3d: basepeak=1  
200.sixtrack: -fast +FDO  
301.apsi: basepeak=1  
BIOS Configuration Notes  
Hyper-Threading Technology disabled