



# CFP2000 Result

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Hewlett-Packard Company  
ProLiant ML350 G4p (3.4GHz, Intel Xeon)

SPECfp2000 = 1708  
SPECfp\_base2000 = 1672

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Mar-2005 Hardware Avail: Mar-2005 Software Avail: Nov-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
168.wupwise	1600	64.9	2467	65.9	2428	[Bar chart showing ratio vs reference time]			
171.swim	3100	153	2023	142	2181	[Bar chart showing ratio vs reference time]			
172.mgrid	1800	127	1415	124	1449	[Bar chart showing ratio vs reference time]			
173.applu	2100	151	1388	148	1416	[Bar chart showing ratio vs reference time]			
177.mesa	1400	94.0	1490	94.0	1490	[Bar chart showing ratio vs reference time]			
178.galgel	2900	91.5	3169	91.0	3187	[Bar chart showing ratio vs reference time]			
179.art	2600	67.1	3875	67.1	3875	[Bar chart showing ratio vs reference time]			
183.quake	1300	69.2	1878	58.1	2238	[Bar chart showing ratio vs reference time]			
187.facerec	1900	107	1773	107	1773	[Bar chart showing ratio vs reference time]			
188.amp	2200	184	1197	184	1197	[Bar chart showing ratio vs reference time]			
189.lucas	2000	103	1936	108	1856	[Bar chart showing ratio vs reference time]			
191.fma3d	2100	152	1385	152	1385	[Bar chart showing ratio vs reference time]			
200.sixtrack	1100	180	613	179	613	[Bar chart showing ratio vs reference time]			
301.apsi	2600	228	1138	217	1199	[Bar chart showing ratio vs reference time]			

### Hardware

CPU: Intel Xeon (3.4GHz, 2MB L2, 800MHz 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 micro-ops I + 16KBD on chip  
Secondary Cache: 2048KB(I+D) on chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 6x2048MB PC2-3200 CL3 Dual-Rank DIMMs  
Disk Subsystem: 1x18.2GB 15K U320  
Other Hardware:

### Software

Operating System: Windows Server 2003 Standard (Build 3790)  
Compiler: Intel C++ Compiler 8.1 Build 20040802Z  
Intel Fortran Compiler 8.1 build 20040802Z  
Microsoft Visual Studio .NET 7.0.9466 (for libraries)  
MicroQuill Smartheap Library 7.0  
File System: NTFS  
System State: Default

## Notes/Tuning Information

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

Base tuning 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: basepeak=1  
188.amp: basepeak=1  
189.lucas: -fast



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## Notes/Tuning Information (Continued)

```
191.fma3d:      basepeak=1
200.sixtrack:   -fast                +FDO
301.apsi:       -fast                -f77rtl +FDO ONESTEP=yes
BIOS Configuration Notes
Hyper-Threading Technology disabled
```