



# CFP2000 Result

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**Hewlett-Packard Company**  
ProLiant DL380 G4 (2.8GHz, Intel dual-core Xeon)

SPECfp2000 = **1593**  
SPECfp\_base2000 = **1572**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
168.wupwise	1600	70.8	2261	70.8	2260	[Bar chart showing ratio 2260]			
171.swim	3100	136	2288	136	2284	[Bar chart showing ratio 2284]			
172.mgrid	1800	144	1252	144	1248	[Bar chart showing ratio 1248]			
173.applu	2100	159	1321	157	1339	[Bar chart showing ratio 1339]			
177.mesa	1400	114	1229	114	1229	[Bar chart showing ratio 1229]			
178.galgel	2900	98.8	2934	98.9	2932	[Bar chart showing ratio 2932]			
179.art	2600	67.8	3833	67.8	3833	[Bar chart showing ratio 3833]			
183.quake	1300	63.4	2051	52.9	2456	[Bar chart showing ratio 2456]			
187.facerec	1900	117	1619	117	1621	[Bar chart showing ratio 1621]			
188.amp	2200	214	1030	214	1030	[Bar chart showing ratio 1030]			
189.lucas	2000	109	1838	109	1843	[Bar chart showing ratio 1843]			
191.fma3d	2100	166	1263	166	1263	[Bar chart showing ratio 1263]			
200.sixtrack	1100	199	554	199	554	[Bar chart showing ratio 554]			
301.apsi	2600	241	1081	241	1081	[Bar chart showing ratio 1081]			

### Hardware

CPU: Intel dual-core Xeon (2.8GHz, 2x2MB L2, 800MHz bus)  
CPU MHz: 2800  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 2 cores/chip (Hyper-Threading Technology disabled)  
CPU(s) orderable: 1,2  
Parallel: No  
Primary Cache: 12K micro-ops I + 16KBD (on chip) per core  
Secondary Cache: 2048KB(I+D) (on chip) per core  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 4x2048MB PC2-3200  
Disk Subsystem: 1x72.8GB 15K Ultra320 SCSI  
Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise SP1  
Compiler: Intel C++ Compiler for 32-bit applications, (Version 9.0 Build 20050624Z)  
Intel Fortran Compiler for 32-bit applications, (Version 9.0 Build 20050624Z)  
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
Other Configuration Notes
/NUMPROC=1 flag was added to boot.ini to invoke uniprocessor environment.
```