



# CFP2000 Result

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**Hewlett-Packard Company**  
ProLiant DL320 G4 (3.0GHz Intel Pentium D Processor 930)

SPECfp\_rate2000 = 20.4  
SPECfp\_rate\_base2000 = 20.2

SPEC license #: 3 | Tested by: Hewlett-Packard Company | Test date: Mar-2006 | Hardware Avail: Mar-2006 | Software Avail: Jan-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	64.2	28.9	1	64.4	28.8
171.swim	1	118	30.4	1	120	30.0
172.mgrid	1	131	16.0	1	131	16.0
173.applu	1	138	17.6	1	142	17.2
177.mesa	1	107	15.2	1	107	15.2
178.galgel	1	89.6	37.5	1	89.7	37.5
179.art	1	62.5	48.3	1	62.5	48.3
183.quake	1	56.9	26.5	1	47.7	31.6
187.facerec	1	104	21.2	1	104	21.2
188.amp	1	191	13.3	1	191	13.3
189.lucas	1	97.6	23.8	1	96.6	24.0
191.fma3d	1	151	16.2	1	151	16.2
200.sixtrack	1	184	6.95	1	184	6.95
301.apsi	1	218	13.8	1	218	13.8

### Hardware

CPU: Intel Pentium D Processor 930 (3.0 GHz, 2x2MB L2, 800MHz bus)  
CPU MHz: 3000  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 2 cores/chip  
CPU(s) orderable: 1  
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 PC2-4200  
Disk Subsystem: 1x80.0GB SATA  
Other Hardware:

### Software

Operating System: Windows Server 2003 Standard SP1  
Compiler: Intel C++ Compiler for 32-bit applications, (Version 9.0 Build 20060120Z)  
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: -fast -Qansi\_alias +FDO

Portability flags:

178.galgel: -FI /F32000000

Peak tuning:

168.wupwise: -fast -Qansi\_alias

+FDO

171.swim: -fast

+FDO ONESTEP=yes

172.mgrid: -fast -Qansi\_alias

+FDO

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

+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-

+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
301.apsi:     basepeak=1
Other Configuration Notes
/NUMPROC=1 flag was added to boot.ini to invoke uniprocessor environment.
```