



# CFP2000 Result

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Hewlett-Packard Company  
ProLiant DL380 G4 (3.4GHz, Intel Xeon)

SPECfp\_rate2000 = 16.9  
SPECfp\_rate\_base2000 = 16.3

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Jul-2004 Hardware Avail: Aug-2004 Software Avail: Aug-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	87.2	21.3	1	70.8	26.2
171.swim	1	146	24.6	1	147	24.5
172.mgrid	1	140	14.9	1	139	15.1
173.applu	1	156	15.6	1	149	16.3
177.mesa	1	93.8	17.3	1	93.9	17.3
178.galgel	1	129	26.2	1	127	26.5
179.art	1	224	13.5	1	224	13.4
183.quake	1	78.0	19.3	1	65.4	23.1
187.facerec	1	109	20.2	1	109	20.2
188.amp	1	229	11.1	1	229	11.1
189.lucas	1	105	22.0	1	105	22.1
191.fma3d	1	156	15.6	1	156	15.6
200.sixtrack	1	181	7.05	1	181	7.07
301.apsi	1	249	12.1	1	249	12.1

### Hardware

CPU: Intel Xeon (3.4GHz, 1MB L2, 800MHz bus)  
CPU MHz: 3400  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip (HT Technology disabled)  
CPU(s) orderable: 1,2  
Parallel: No  
Primary Cache: 16K micro-ops I + 16KBD on chip  
Secondary Cache: 1024KB(I+D) on chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 4x512MB DDR2-400  
Disk Subsystem: 1x18.2GB 15K Ultra320 SCSI  
Other Hardware:

### Software

Operating System: Windows Server 2003 Standard (Build 3790)  
Compiler: Intel C++ Compiler 8.0 Build 20031211Z  
Intel Fortran Compiler 8.0 build 20040125Z  
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  
+FDO\*: FDO (-QxP not used in PASS1 to enable cross-compilation)

Base tuning for All Programs: -QxN -fast +FDO\* ONESTEP=yes

Portability flags:

178.galgel: -FI /F32000000

Peak tuning:

168.wupwise: -QxP -fast -Qansi\_alias +FDO\*  
171.swim: -QxP -fast -f77rtl +FDO ONESTEP=yes  
172.mgrid: -QxP -fast -Qansi\_alias +FDO\*  
173.applu: -QxP -fast -Qscalar\_rep- -Qauto -f77rtl +FDO ONESTEP=yes  
177.mesa: -QxP -fast +FDO ONESTEP=yes  
178.galgel: -QxP -fast +FDO ONESTEP=yes  
179.art: -fast -Oa -Qunroll4 -Zp4 ONESTEP=yes  
183.quake: -QxP -fast -Oa -Qrcd +FDO ONESTEP=yes shlw32M.lib  
187.facerec: -QaxN -fast -Qunroll1 -Qscalar\_rep- -fpp +FDO ONESTEP=yes  
188.amp: basepeak=1



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## Notes/Tuning Information (Continued)

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189.lucas:      -QaxN-fast  <typo, included for completeness>
191.fma3d:      basepeak=1
200.sixtrack:   -QxP  -fast          +FDO*
301.apsi:       -QxP  -fast          -f77rtl +FDO ONESTEP=yes
BIOS Configuration Notes
HT Technology disabled
```