



# CFP2000 Result

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Hewlett-Packard Company  
ProLiant ML370 G4 (3.6GHz, Intel Xeon)

SPECfp\_rate2000 = 17.7  
SPECfp\_rate\_base2000 = 17.4

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	67.8	27.4	1	67.8	27.4
171.swim	1	138	26.0	1	138	26.0
172.mgrid	1	133	15.7	1	133	15.7
173.applu	1	147	16.6	1	142	17.1
177.mesa	1	88.7	18.3	1	89.0	18.2
178.galgel	1	126	26.7	1	126	26.7
179.art	1	216	14.0	1	222	13.6
183.quake	1	75.7	19.9	1	62.6	24.1
187.facerec	1	106	20.9	1	107	20.7
188.amp	1	218	11.7	1	218	11.7
189.lucas	1	98.7	23.5	1	100	23.2
191.fma3d	1	145	16.8	1	145	16.8
200.sixtrack	1	171	7.48	1	171	7.47
301.apsi	1	226	13.3	1	226	13.3

### Hardware

CPU: Intel Xeon (3.6GHz, 1MB L2, 800MHz bus)  
CPU MHz: 3600  
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: 8x512MB 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 Base tuning: -QxP -fast -Qansi\_alias +FDO\*

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



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## Notes/Tuning Information (Continued)

```
188. ammp:      basepeak=1
189. lucas:     -QaxN -fast
191. fma3d:     basepeak=1
200. sixtrack: -QxP  -fast
301. psi:       -QxP  -fast
               +FDO*
               -f77rtl +FDO ONESTEP=yes
BIOS Configuration Notes
HT Technology disabled
```