



# CFP2000 Result

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

SPECfp\_rate2000 = 20.2  
SPECfp\_rate\_base2000 = 20.1

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	63.6	29.2	1	63.6	29.2
171.swim	1	141	25.6	1	141	25.5
172.mgrid	1	125	16.7	1	126	16.6
173.applu	1	147	16.6	1	148	16.5
177.mesa	1	89.7	18.1	1	89.7	18.1
178.galgel	1	88.8	37.9	1	88.9	37.8
179.art	1	68.5	44.1	1	68.5	44.1
183.equake	1	71.8	21.0	1	59.5	25.3
187.facerec	1	105	20.9	1	118	18.6
188.amp	1	177	14.4	1	177	14.4
189.lucas	1	97.7	23.8	1	97.0	23.9
191.fma3d	1	144	16.9	1	144	16.9
200.sixtrack	1	171	7.48	1	171	7.48
301.apsi	1	199	15.2	1	199	15.2

### Hardware

CPU: Intel Xeon (3.6GHz, 2MB L2, 800MHz bus)  
CPU MHz: 3600  
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: 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 8.1 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: -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.equake: -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
301.apsi:           -fast
                   +FDO
                   -f77rtl +FDO ONESTEP=yes
```

BIOS Configuration Notes  
Hyper-Threading Technology disabled