



# CFP2000 Result

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**Hewlett-Packard Company**  
ProLiant ML370 G3 (3.2GHz/2MB L3 cache, Intel Xeon)

SPECfp2000 = 1323  
SPECfp\_base2000 = 1308

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	107	1496	105	1520
171.swim	3100	189	1641	188	1647
172.mgrid	1800	158	1138	158	1143
173.applu	2100	194	1083	186	1127
177.mesa	1400	101	1391	101	1392
178.galgel	2900	109	2650	109	2653
179.art	2600	137	1899	130	2006
183.quake	1300	107	1213	105	1233
187.facerec	1900	132	1440	130	1465
188.amp	2200	195	1128	195	1128
189.lucas	2000	139	1437	140	1434
191.fma3d	2100	192	1094	192	1094
200.sixtrack	1100	178	617	177	621
301.apsi	2600	244	1064	244	1065

### Hardware

CPU: Intel Xeon (3.2GHz, 533MHz bus)  
CPU MHz: 3200  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip (HT Technology disabled)  
CPU(s) orderable: 1,2  
Parallel: No  
Primary Cache: 12K micro-ops I + 8KBD on chip  
Secondary Cache: 512KB(I+D) on chip  
L3 Cache: 2048KB(I+D) on chip  
Other Cache: N/A  
Memory: 4x512MB PC2100  
Disk Subsystem: 1x36.4GB 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
Base tuning for all programs: -QxN -Qipo -O3 +FDO ONESTEP=yes
Portability flags:
 178.galgel: -FI /F32000000
Peak tuning:
168.wupwise: -Qipo -QxN +FDO ONESTEP=yes
171.swim: -Qipo -QxN -O3 +FDO ONESTEP=yes
172.mgrid: -Qipo -QaxN -O3 +FDO ONESTEP=yes
173.applu: -Qipo -QxN -O3 -Qscalar_rep- -Qauto +FDO ONESTEP=yes
177.mesa: -Qipo -QxN -O3 +FDO ONESTEP=yes
178.galgel: -Qipo -QxN -O3 +FDO ONESTEP=yes
179.art: -Qipo -Oa -Qunroll4 -Zp4 ONESTEP=yes
183.quake: -Qipo -QxN -Oa -Qrcd +FDO shlw32M.lib ONESTEP=yes
187.facerec: -Qipo -QaxN -O3 -Qunroll11 -Qscalar_rep- +FDO ONESTEP=yes
188.amp: basepeak=1
189.lucas: -Qipo -QaxN
191.fma3d: basepeak=1
```



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## Notes/Tuning Information (Continued)

```
200.sixtrack: -Qipo -QxN +FDO ONESTEP=yes
301.apsi:     -Qipo -QxN -O3 +FDO ONESTEP=yes
BIOS Configuration Notes
HT Technology disabled
```