



# CFP2000 Result

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Hewlett-Packard Company  
ProLiant DL385 (AMD Opteron (TM) 254)

SPECfp2000 = 1983  
SPECfp\_base2000 = 1805

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	56.9	2811	56.9	2811	
171.swim	3100	138	2250	132	2343	
172.mgrid	1800	107	1686	107	1686	
173.applu	2100	141	1491	128	1638	
177.mesa	1400	128	1090	64.0	2187	
178.galgel	2900	96.3	3012	89.4	3243	
179.art	2600	58.7	4430	58.6	4440	
183.quake	1300	77.7	1674	77.7	1674	
187.facerec	1900	94.6	2009	93.8	2025	
188.amp	2200	177	1243	140	1571	
189.lucas	2000	109	1834	96.2	2079	
191.fma3d	2100	129	1625	123	1702	
200.sixtrack	1100	130	849	130	849	
301.apsi	2600	163	1591	163	1591	

### Hardware

CPU: AMD Opteron (TM) 254  
CPU MHz: 2800  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
CPU(s) orderable: 1,2  
Parallel: No  
Primary Cache: 64KBI + 64KBD on chip  
Secondary Cache: 1024KB(I+D) on chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 4x2048MB PC3200 CL3.0  
Disk Subsystem: 1x36.4GB 15K Ultra320 SCSI  
Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise SP1  
Compiler: Intel C++ Compiler for 32-bit applications, (version 8.1 Build 20050524Z)  
Intel Fortran Compiler for 32-bit applications, (version 8.1 build 20050517Z)  
PGI Fortran compiler 6.0-4 for Windows XP (32-bit)  
PGI C compiler 6.0-4 for Windows XP (32-bit)  
Microsoft Visual Studio .NET 7.0.9466 (for libraries)  
AMD Core Math Library V2.6.0  
File System: NTFS  
System State: Default

## Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen PASS2=-Qprof_use
+ACML is linking with AMD Core Math Library V2.6.0
ONESTEP is set for all peak runs.
ifort is the Intel Fortran compiler, icl is the Intel C++ compiler and
pgf90 is the PGI Fortran compiler, pgcc is the PGI C compiler.
Base tuning for C programs: pgcc -fastsse -Mipa=fast,inline
Base tuning for FORTRAN programs: pgf90 -fastsse -Mipa=fast,inline +FDO
Portability flags:
 178.galgel: -Mfixed
Peak tuning:
168.wupwise: pgf90 basepeak=yes
171.swim: ifort -Qipo -O3 -QaxN -QxW +FDO -Qunroll10
172.mgrid: pgf90 basepeak=yes
173.applu: ifort -Qipo -O3 -QaxN -QxW +FDO -auto
177.mesa: icl -Qipo -arch:SSE2 +FDO -Qunroll11 -Qansi_alias
          -Qoption,c,-ip_ninl_max_stats=1500,-ip_ninl_max_total_stats=4500
178.galgel: pgf90 -fastsse -Mipa=fast,safe RM_SOURCES=lapak.f90 -Munix +ACML
```



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## Notes/Tuning Information (Continued)

```

179.art:          pgcc -fastsse -Mipa=fast,inline
183.quake:       icl  basepeak=yes
187.facerec:     ifort -Qipo          -QxW +FDO -Qunroll3
                  -Qoption,f,-ip_ninl_max_stats=2500,-ip_ninl_max_total_stats=7000
188.ampp:        icl  -Oa -arch:SSE2 -Zp4 -Qansi_alias
189.lucas:       ifort -Qipo          -QxW -Qunroll1
191.fma3d:       ifort -Qipo          -QaxN -QxW +FDO -Qansi-alias-
200.sixtrack:    pgf90 basepeak=yes
301.apsi:        pgf90 basepeak=yes

```

### BIOS Configuration Notes

Node Interleaving is Disabled

### Other Configuration Notes

/NUMPROC=1 flag was added to boot.ini to invoke uniprocessor environment.