



# CFP2000 Result

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Hewlett-Packard Company  
ProLiant DL365 (AMD Opteron (TM) 2218)

SPECfp2000 = 1945  
SPECfp\_base2000 = 1767

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Aug-2006 Hardware Avail: Nov-2006 Software Avail: Apr-2006

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	58.5	2735	58.5	2735	
171.swim	3100	124	2506	122	2548	
172.mgrid	1800	111	1629	111	1629	
173.applu	2100	141	1485	124	1693	
177.mesa	1400	138	1012	69.4	2018	
178.galgel	2900	99.1	2927	90.8	3193	
179.art	2600	58.6	4436	58.5	4442	
183.quake	1300	78.5	1656	78.5	1656	
187.facerec	1900	95.3	1995	101	1881	
188.amp	2200	189	1163	158	1395	
189.lucas	2000	109	1840	91.1	2195	
191.fma3d	2100	133	1585	118	1778	
200.sixtrack	1100	140	787	140	787	
301.apsi	2600	173	1505	173	1505	

### Hardware

CPU: AMD Opteron (TM) 2218  
 CPU MHz: 2600  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1,2 chips  
 Parallel: No  
 Primary Cache: 64 KB I + 64 KB D on chip per core  
 Secondary Cache: 1 MB I+D on chip per core  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 8 GB (4x2 GB PC2-5300P CL5.0)  
 Disk Subsystem: 1x36 GB 10 K SAS  
 Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise SP1  
 Compiler: Intel C++ Compiler for 32-bit applications, (version 9.1 Build 20060323Z)  
 Intel Fortran Compiler for 32-bit applications, (version 9.1 build 20060323Z)  
 PGI Fortran compiler 6.0-4 for Windows XP (32-bit)  
 PGI C compiler 6.0-8 for Windows XP (32-bit)  
 Microsoft Visual Studio .NET 7.0.9466 (for libraries)  
 AMD Core Math Library V3.5.0  
 File System: NTFS  
 System State: Default

## Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen PASS2=-Qprof_use (Intel compiler)
+FDO*: PASS1=-Mpfi PASS2=-Mpfo (PGI compiler)
+ACML is linking with AMD Core Math Library V3.5.0
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* ONESTEP=1
Portability flags:
 178.galgel: -Mfixed
Peak tuning:
168.wupwise: pgf90 basepeak=yes
171.swim: ifort -Qipo -O3 -QaxN -QxW +FDO -Qunroll0 ONESTEP=1
172.mgrid: pgf90 basepeak=yes
173.applu: ifort -Qipo -O3 -QaxN -QxW +FDO -auto ONESTEP=1
177.mesa: icl -Qipo -arch:SSE2 +FDO -Qunroll1 -Qansi_alias ONESTEP=1
          -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 ONESTEP=1
```



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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 ONESTEP=1
                  -Qoption,f,-ip_ninl_max_stats=2500,-ip_ninl_max_total_stats=7000
188.ampp:        icl  -Oa -arch:SSE2 -Zp4          -Qansi_alias ONESTEP=1
189.lucas:       ifort -Qipo          -QxW          -Qunroll1 ONESTEP=1
191.fma3d:       ifort -Qipo          -QaxN -QxW +FDO -Qansi-alias- ONESTEP=1
200.sixtrack:    pgf90 basepeak=yes
301.apsi:        pgf90 basepeak=yes

```

### BIOS Configuration Notes

Node Interleaving is Disabled

### Other Configuration Notes

The start /b /wait /affinity command is used to bind CPU(s) to processes.