



# CFP2000 Result

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**Hewlett-Packard Company**  
ProLiant DL385 (AMD Opteron (TM) 285)

SPECfp2000 = **1831**  
SPECfp\_base2000 = **1683**

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Mar-2006 Hardware Avail: Mar-2006 Software Avail: Feb-2006

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	61.4	2607	61.4	2607	
171.swim	3100	146	2126	142	2183	
172.mgrid	1800	115	1569	115	1569	
173.applu	2100	151	1392	137	1532	
177.mesa	1400	137	1023	68.5	2045	
178.galgel	2900	104	2796	96.9	2994	
179.art	2600	62.6	4152	62.7	4148	
183.quake	1300	83.4	1558	83.4	1558	
187.facerec	1900	102	1872	99.5	1909	
188.amp	2200	190	1158	164	1340	
189.lucas	2000	117	1709	104	1928	
191.fma3d	2100	139	1512	137	1531	
200.sixtrack	1100	140	788	140	788	
301.apsi	2600	176	1477	176	1477	

### Hardware

CPU: AMD Opteron (TM) 285  
 CPU MHz: 2600  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1,2  
 Parallel: No  
 Primary Cache: 64KBI + 64KBD (on chip) per core  
 Secondary Cache: 1024KB(I+D) (on chip) per core  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 4x2048MB PC3200 CL3.0  
 Disk Subsystem: 1x36GB 10K SAS  
 Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise SP1  
 Compiler: Intel C++ Compiler for 32-bit applications, (Vversion 9.0 Build 20060120Z)  
 Intel Fortran Compiler for 32-bit applications, (Version 9.0 build 20060120Z)  
 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 V3.0.0  
 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 V3.0.0
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.equake:       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.amp:          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

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