



CFP2000 Result

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Hewlett-Packard Company
ProLiant DL145 G2 (AMD Opteron (TM) 275)

SPECfp2000 = 1690
SPECfp_base2000 = 1546

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	67.7	2364	67.7	2364	
171.swim	3100	143	2168	145	2140	
172.mgrid	1800	127	1415	127	1415	
173.applu	2100	156	1343	145	1445	
177.mesa	1400	163	859	80.3	1743	
178.galgel	2900	113	2562	104	2794	
179.art	2600	67.0	3882	67.2	3872	
183.quake	1300	86.7	1499	86.7	1499	
187.facerec	1900	112	1696	113	1680	
188.amp	2200	210	1047	171	1287	
189.lucas	2000	120	1670	104	1920	
191.fma3d	2100	153	1370	145	1447	
200.sixtrack	1100	164	672	164	672	
301.apsi	2600	198	1311	198	1311	

Hardware

CPU: AMD Opteron (TM) 275
CPU MHz: 2200
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: 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 (Intel compiler)
+FDO*: PASS1=-Mpfi PASS2=-Mpfo (PGI compiler)
+ACML is linking with AMD Core Math Library V2.6.0
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)

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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.