



CFP2000 Result

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

SPECfp_rate2000 = 57.4
SPECfp_rate_base2000 = 52.3

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	82.3	90.2	4	82.3	90.2
171.swim	4	332	43.3	4	294	48.9
172.mgrid	4	194	43.0	4	194	43.0
173.applu	4	254	38.4	4	226	43.2
177.mesa	4	160	40.6	4	80.9	80.3
178.galgel	4	155	86.6	4	149	90.2
179.art	4	103	117	4	103	117
183.quake	4	141	42.8	4	141	42.8
187.facerec	4	138	63.9	4	137	64.2
188.amp	4	233	43.7	4	183	55.8
189.lucas	4	204	45.6	4	198	47.0
191.fma3d	4	208	46.9	4	193	50.4
200.sixtrack	4	164	31.0	4	164	31.0
301.apsi	4	222	54.3	4	222	54.3

Hardware

CPU: AMD Opteron (TM) 275
CPU MHz: 2200
FPU: Integrated
CPU(s) enabled: 4 cores, 2 chips, 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: 8x2048MB 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)
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
179.art: pgcc -fastsse -Mipa=fast,inline
```



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Notes/Tuning Information (Continued)

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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.ammp: 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.