



CFP2000 Result

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Hewlett-Packard Company
ProLiant DL385 (AMD Opteron (TM) 280)

SPECfp_rate2000 = 20.8
SPECfp_rate_base2000 = 19.0

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	63.7	29.2	1	63.7	29.2
171.swim	1	139	25.9	1	139	25.8
172.mgrid	1	119	17.5	1	119	17.5
173.applu	1	150	16.2	1	139	17.5
177.mesa	1	149	10.9	1	74.5	21.8
178.galgel	1	107	31.5	1	97.9	34.4
179.art	1	63.8	47.2	1	63.8	47.3
183.equake	1	83.4	18.1	1	83.4	18.1
187.facerec	1	105	20.9	1	105	20.9
188.amp	1	198	12.9	1	159	16.0
189.lucas	1	116	20.0	1	101	23.0
191.fma3d	1	144	16.9	1	137	17.8
200.sixtrack	1	151	8.47	1	151	8.47
301.apsi	1	185	16.3	1	185	16.3

Hardware

CPU: AMD Opteron (TM) 280
 CPU MHz: 2400
 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
+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 -Qunroll0
  172.mgrid:   pgf90 basepeak=yes
  173.applu:   ifort -Qipo -O3 -QaxN -QxW +FDO -auto
  177.mesa:    icl -Qipo -arch:SSE2 +FDO -Qunroll1 -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)

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179.art:          pgcc -fastsse -Mipa=fast,inline
183.equake:       icl basepeak=yes
187.facerec:      ifort -Qipo -QxW +FDO -Qunroll3
                  -Qoption,f,-ip_ninl_max_stats=2500,-ip_ninl_max_total_stats=7000
188.amp:          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.