CFP2000 Result

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Hewlett-Packard Company

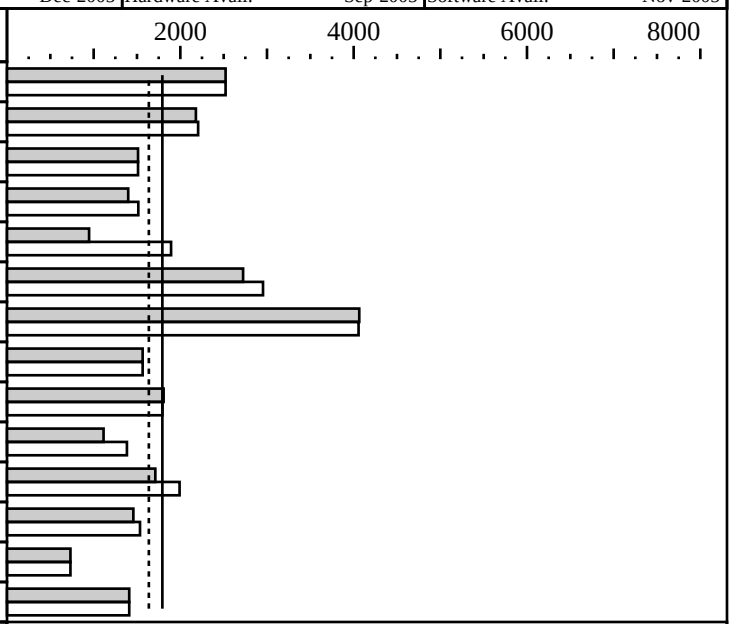
ProLiant DL145 G2 (AMD Opteron (TM) 280)

SPECfp2000 = 1793

SPECfp_base2000 = 1637

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	63.4	2522	63.4	2522
171.swim	3100	142	2180	141	2205
172.mgrid	1800	119	1512	119	1512
173.applu	2100	150	1399	139	1515
177.mesa	1400	148	947	74.0	1893
178.galgel	2900	106	2724	98.2	2954
179.art	2600	64.0	4065	64.1	4057
183.equake	1300	83.1	1565	83.1	1565
187.facerec	1900	105	1807	106	1793
188.ammp	2200	197	1114	159	1384
189.lucas	2000	117	1711	100	1991
191.fma3d	2100	144	1458	137	1535
200.sixtrack	1100	150	732	150	732
301.apsi	2600	184	1410	184	1410



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 (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)

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