CFP2000 Result

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Hewlett-Packard Company

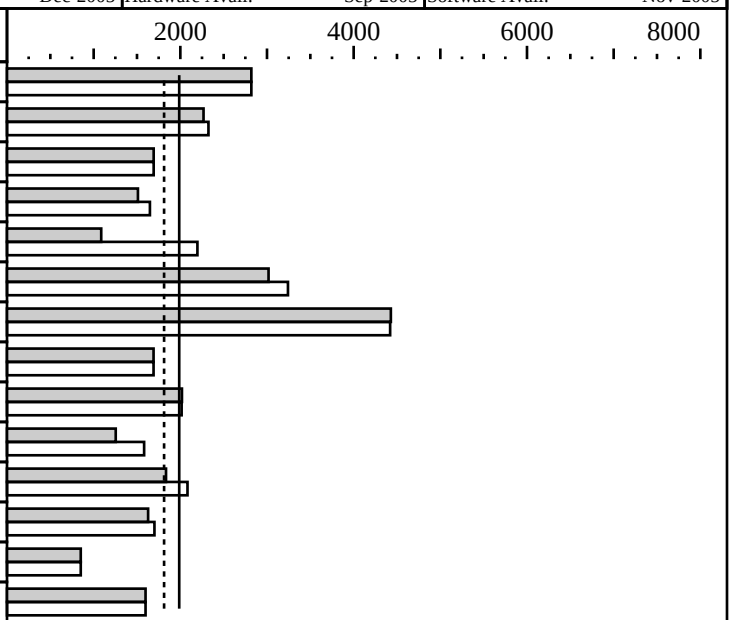
ProLiant DL145 G2 (AMD Opteron (TM) 254)

SPECfp2000 = 1987

SPECfp_base2000 = 1813

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	56.8	2819	56.8	2819
171.swim	3100	137	2268	133	2325
172.mgrid	1800	106	1692	106	1692
173.applu	2100	139	1511	127	1649
177.mesa	1400	129	1087	63.7	2197
178.galgel	2900	96.1	3018	89.5	3242
179.art	2600	58.7	4429	58.8	4421
183.equake	1300	76.9	1691	76.9	1691
187.facerec	1900	94.1	2019	94.3	2015
188.ammp	2200	175	1255	139	1582
189.lucas	2000	109	1835	96.0	2083
191.fma3d	2100	129	1628	123	1701
200.sixtrack	1100	129	851	129	851
301.apsi	2600	163	1599	163	1599



Hardware

CPU:	AMD Opteron (TM) 254
CPU MHz:	2800
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1,2
Parallel:	No
Primary Cache:	64KBI + 64KBD on chip
Secondary Cache:	1024KB(I+D) on chip
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
```