CFP2000 Result

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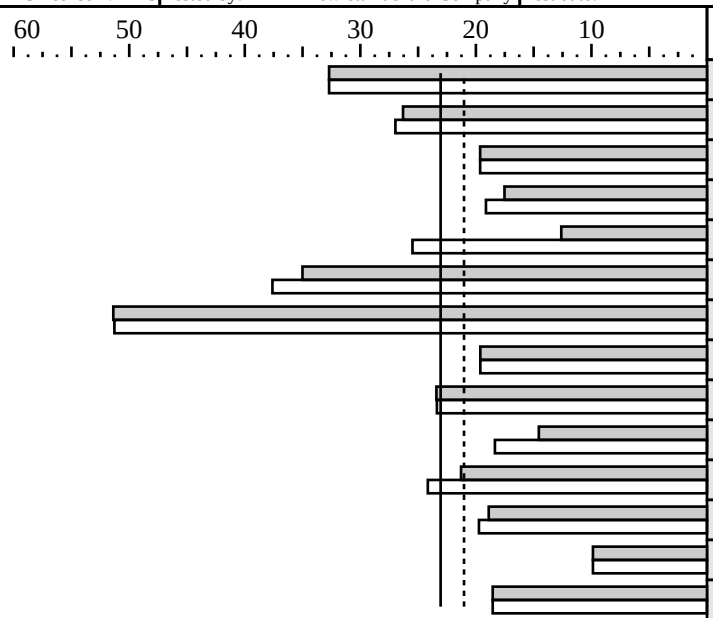
Hewlett-Packard Company

ProLiant DL145 G2 (AMD Opteron (TM) 254)

SPECfp_rate2000 = 23.1

SPECfp_rate_base2000 = 21.0

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	1	56.8	32.7	1	56.8	32.7
171.swim	1	137	26.3	1	133	27.0
172.mgrid	1	106	19.6	1	106	19.6
173.applu	1	139	17.5	1	127	19.1
177.mesa	1	129	12.6	1	63.7	25.5
178.galgel	1	96.1	35.0	1	89.5	37.6
179.art	1	58.7	51.4	1	58.8	51.3
183.equake	1	76.9	19.6	1	76.9	19.6
187.facerec	1	94.1	23.4	1	94.3	23.4
188.ammp	1	175	14.6	1	139	18.4
189.lucas	1	109	21.3	1	96.0	24.2
191.fma3d	1	129	18.9	1	123	19.7
200.sixtrack	1	129	9.87	1	129	9.87
301.apsi	1	163	18.5	1	163	18.5

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
Submitted_by: "Schmidt, David (Performance Eng.)" <D.Schmidt@hp.com>
Submitted: Mon Dec 12 19:17:10 2005
Submission: cpu2000-20051212-05258.sub
```