CFP2000 Result

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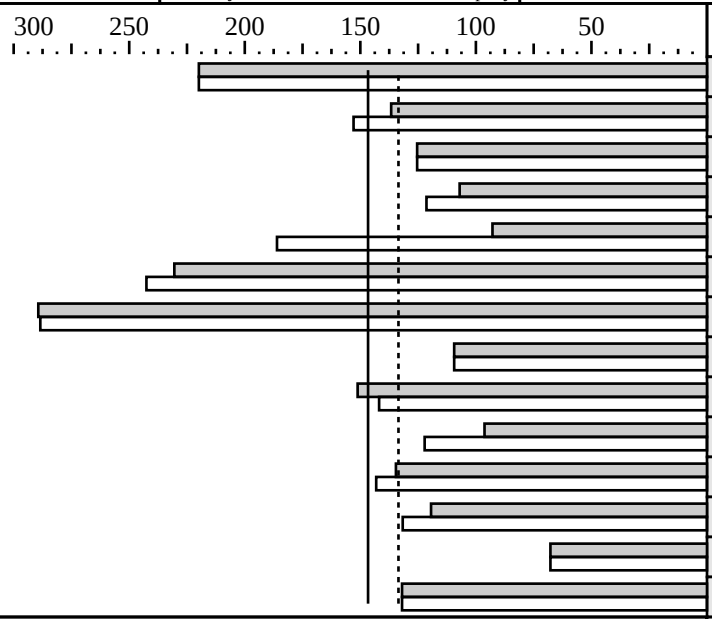
Hewlett-Packard Company

ProLiant BL45p G2 (AMD Opteron (TM) 8218)

SPECfp_rate2000 = 147

SPECfp_rate_base2000 = 133

SPEC license #: 3 | Tested by: Hewlett-Packard Company | Test date: Aug-2006 | Hardware Avail: Sep-2006 | Software Avail: Apr-2006



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	8	67.5	220	8	67.5	220
171.swim	8	211	137	8	188	153
172.mgrid	8	133	125	8	133	125
173.applu	8	182	107	8	161	121
177.mesa	8	140	92.8	8	69.8	186
178.galgel	8	117	230	8	111	243
179.art	8	83.4	289	8	83.6	288
183.equake	8	110	109	8	110	109
187.facerec	8	117	151	8	124	142
188.ammp	8	212	96.3	8	167	122
189.lucas	8	138	135	8	130	143
191.fma3d	8	163	119	8	148	132
200.sixtrack	8	151	67.7	8	151	67.7
301.apsi	8	183	132	8	183	132

Hardware

CPU:	AMD Opteron (TM) 8218
CPU MHz:	2600
FPU:	Integrated
CPU(s) enabled:	8 cores, 4 chips, 2 cores/chip
CPU(s) orderable:	2,4 chips
Parallel:	No
Primary Cache:	64 KB I + 64 KB D on chip per core
Secondary Cache:	1 MB I+D on chip per core
L3 Cache:	N/A
Other Cache:	N/A
Memory:	32 GB (16x2 GB PC2-5300P CL5.0)
Disk Subsystem:	1x36 GB 10 K SAS
Other Hardware:	

Software

Operating System:	Windows Server 2003 Enterprise SP1
Compiler:	Intel C++ Compiler for 32-bit applications, (version 9.1 Build 20060323Z) Intel Fortran Compiler for 32-bit applications, (version 9.1 build 20060323Z) PGI Fortran compiler 6.0-8 for Windows XP (32-bit) PGI C compiler 6.0-8 for Windows XP (32-bit) Microsoft Visual Studio .NET 7.0.9466 (for libraries) AMD Core Math Library V3.5.0
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 V3.5.0
 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
  The start /b /wait /affinity command is used to bind CPU(s) to processes.
```