CFP2000 Result

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Hewlett-Packard Company

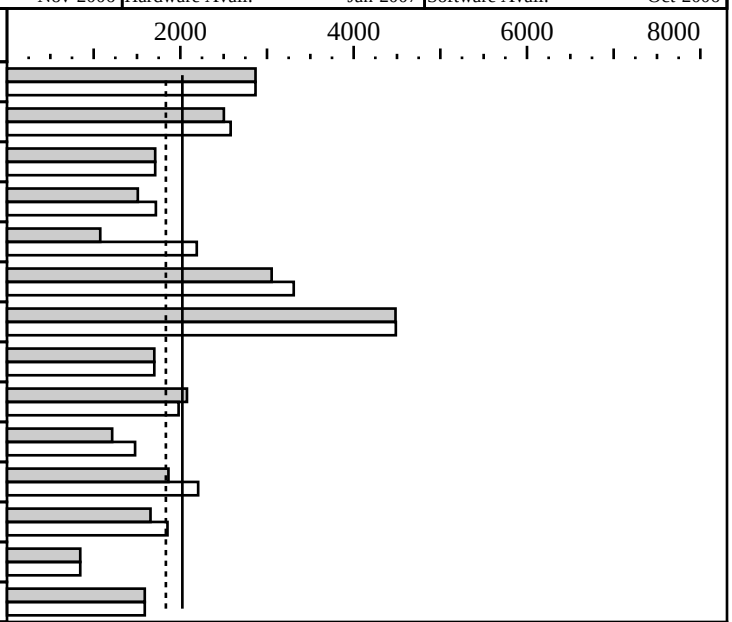
ProLiant BL465c (AMD Opteron (TM) 2220)

SPECfp2000 = 2023

SPECfp_base2000 = 1833

SPEC license #: 3 | Tested by: Hewlett-Packard Company | Test date: Nov-2006 | Hardware Avail: Jan-2007 | Software Avail: Oct-2006

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	55.8	2868	55.8	2868
171.swim	3100	124	2502	120	2581
172.mgrid	1800	105	1710	105	1710
173.applu	2100	139	1509	122	1718
177.mesa	1400	130	1076	63.9	2190
178.galgel	2900	95.0	3054	87.7	3308
179.art	2600	58.0	4483	58.0	4486
183.equake	1300	76.5	1700	76.5	1700
187.facerec	1900	91.5	2077	96.0	1980
188.ammp	2200	181	1213	149	1478
189.lucas	2000	107	1863	90.7	2206
191.fma3d	2100	127	1656	113	1852
200.sixtrack	1100	130	845	130	845
301.apsi	2600	164	1590	164	1590



Hardware

CPU:	AMD Opteron (TM) 2220
CPU MHz:	2800
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip
CPU(s) orderable:	1,2 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:	8 GB (4x2 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 20060927Z) Intel Fortran Compiler for 32-bit applications, (version 9.1 build 20060927Z) 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.
```