



CFP2000 Result

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Hewlett-Packard Company
ProLiant DL585 (AMD Opteron (TM) 880)

SPECfp_rate2000 = 67.1
SPECfp_rate_base2000 = 61.6

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Aug-2005 Hardware Avail: Sep-2005 Software Avail: May-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	70.5	105	4	70.5	105
171.swim	4	268	53.8	4	239	60.2
172.mgrid	4	159	52.7	4	159	52.7
173.applu	4	201	48.4	4	181	53.9
177.mesa	4	148	43.9	4	74.5	87.2
178.galgel	4	128	105	4	123	110
179.art	4	85.0	142	4	85.1	142
183.equake	4	114	52.9	4	114	52.9
187.facerec	4	124	71.0	4	125	70.8
188.amp	4	208	49.0	4	175	58.3
189.lucas	4	159	58.3	4	154	60.4
191.fma3d	4	180	54.1	4	171	56.9
200.sixtrack	4	152	33.6	4	152	33.6
301.apsi	4	198	60.8	4	198	60.8

Hardware

CPU: AMD Opteron (TM) 880
 CPU MHz: 2400
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 2,4
 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: 16x2048MB 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
+ACML is linking with AMD Core Math Library V2.6.0
ONESTEP is set for all peak runs.
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
Portability flags:
  178.galgel: -Mfixed
Peak tuning:
  168.wupwise:      pgf90 basepeak=yes
  171.swim:         ifort -Qipo -O3 -QaxN -QxW +FDO -Qunroll0
  172.mgrid:       pgf90 basepeak=yes
  173.applu:       ifort -Qipo -O3 -QaxN -QxW +FDO -auto
  177.mesa:        icl -Qipo -arch:SSE2 +FDO -Qunroll1 -Qansi_alias
                  -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
```



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Notes/Tuning Information (Continued)

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179.art:          pgcc -fastsse -Mipa=fast,inline
183.quake:       icl  basepeak=yes
187.facerec:     ifort -Qipo          -QxW +FDO -Qunroll3
                  -Qoption,f,-ip_ninl_max_stats=2500,-ip_ninl_max_total_stats=7000
188.ampp:        icl  -Oa -arch:SSE2 -Zp4 -Qansi_alias
189.lucas:       ifort -Qipo          -QxW -Qunroll1
191.fma3d:       ifort -Qipo          -QaxN -QxW +FDO -Qansi-alias-
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.