



CFP2000 Result

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Hewlett-Packard Company
ProLiant DL585 (AMD Opteron (TM) 854)

SPECfp_rate2000 = 86.0
SPECfp_rate_base2000 = 78.7

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	59.7	124	4	59.7	124
171.swim	4	138	105	4	140	103
172.mgrid	4	112	74.5	4	112	74.5
173.applu	4	149	65.2	4	136	71.9
177.mesa	4	128	50.8	4	64.8	100
178.galgel	4	102	132	4	93.6	144
179.art	4	69.4	174	4	69.5	174
183.quake	4	90.1	67.0	4	90.1	67.0
187.facerec	4	104	84.6	4	106	83.0
188.amp	4	196	52.1	4	155	65.9
189.lucas	4	114	81.5	4	100	92.5
191.fma3d	4	138	70.6	4	132	73.9
200.sixtrack	4	131	39.0	4	131	39.0
301.apsi	4	167	72.3	4	167	72.3

Hardware

CPU: AMD Opteron (TM) 854
CPU MHz: 2800
FPU: Integrated
CPU(s) enabled: 4 cores, 4 chips, 1 core/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 -Qunroll10
172.mgrid: pgf90 basepeak=yes
173.applu: ifort -Qipo -O3 -QaxN -QxW +FDO -auto
177.mesa: icl -Qipo -arch:SSE2 +FDO -Qunroll11 -Qansi_alias
-Option,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.equake:       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.