



CFP2000 Result

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Hewlett-Packard Company
ProLiant BL25p G2 (AMD Opteron (TM) 2218)

SPECfp2000 = **1943**
SPECfp_base2000 = **1761**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	58.5	2736	58.5	2736	
171.swim	3100	124	2502	122	2546	
172.mgrid	1800	111	1627	111	1627	
173.applu	2100	142	1483	124	1692	
177.mesa	1400	140	998	69.0	2029	
178.galgel	2900	99.2	2925	90.8	3192	
179.art	2600	59.4	4380	59.2	4391	
183.quake	1300	78.7	1651	78.7	1651	
187.facerec	1900	96.3	1973	101	1879	
188.amp	2200	189	1161	158	1394	
189.lucas	2000	109	1839	91.1	2195	
191.fma3d	2100	132	1586	118	1777	
200.sixtrack	1100	140	787	140	787	
301.apsi	2600	173	1505	173	1505	

Hardware

CPU: AMD Opteron (TM) 2218
 CPU MHz: 2600
 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 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)

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179.art:          pgcc -fastsse -Mipa=fast,inline
183.earthquake:  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.amp:         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
start /b /wait /affinity used to bind CPU(s)