



CFP2000 Result

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Hewlett-Packard Company
ProLiant BL465c (AMD Opteron (TM) 2218)

SPECfp_rate2000 = 78.5
SPECfp_rate_base2000 = 71.6

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	4	62.8	118	4	62.8	118
171.swim	4	206	69.9	4	178	80.9
172.mgrid	4	126	66.1	4	126	66.1
173.applu	4	169	57.7	4	150	64.9
177.mesa	4	137	47.3	4	68.7	94.6
178.galgel	4	111	121	4	107	126
179.art	4	70.5	171	4	70.6	171
183.equake	4	94.7	63.7	4	94.7	63.7
187.facerec	4	107	82.1	4	113	77.9
188.amp	4	194	52.5	4	160	63.7
189.lucas	4	132	70.5	4	125	74.1
191.fma3d	4	153	63.6	4	139	69.9
200.sixtrack	4	141	36.2	4	141	36.2
301.apsi	4	179	67.4	4	179	67.4

Hardware

CPU: AMD Opteron (TM) 2218
CPU MHz: 2600
FPU: Integrated
CPU(s) enabled: 4 cores, 2 chips, 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: 16 GB (8x2 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

The start /b /wait /affinity command is used to bind CPU(s) to processes.