Hewlett-Packard Company
AlphaServer ES80 7/1150

SPECompMpeak2001 = 6946
SPECompMbase2001 = 6316

Software
OpenMP Threads: 4
Parallel: OpenMP
Operating System: Tru64 UNIX V5.1B + IPK
Compiler: HP Fortran V5.5A-3548-48D88
Compaq C V6.5-011-48C5K
File System: UFS
System State: Multi-user

Notes/Tuning Information

MP_STACK_SIZE=10000000
4Mb pages used (sysconfigtab)
no processor sets used

Tuning pseudo-switches:
+BPD - Big page disable
+PFB - Post-link feedback for prefetches
See the flags description or the configuration file
for more details.

Base:
Fortran: f90 -arch ev7 -fast -omp -O5
C: cc -arch ev7 -fast -omp -O4
alternate source purdue1 for 330.art_m

Peak:
All use -arch host -omp ONESTEP
Individual benchmark tuning:
310.wupwise_m: f90 -arch host -omp -call_shared
-inline all -unroll 12 -align commons
+PFB +BPD
alternate source ompl.32

312.swim_m: f90 -arch host -omp -fast -O5
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Notes/Tuning Information (Continued)

+PFB +BPD
PTHREAD_CONFIG=feature=def-scs,d4-scs
alternate source ompl.32

314.mgrid_m: f90 -arch host -omp -O5 -transform_loops
 -tune ev7 -unroll 8
 +PFB +BPD
PTHREAD_CONFIG=feature=def-scs,d4-scs
alternate source ompl.32

316.applu_m: f90 -arch host -omp -fast -O5 -unroll 14
 +PFB
PTHREAD_CONFIG=feature=def-scs,d4-scs
alternate source ompl.32

318.galgel_m: f90 -arch host -omp -fast -unroll 5 -O5
 +PFB

320.equake_m: cc -arch host -omp -fast -call_shared
 -O4 -ldensemalloc -assume restricted_pointers
 -inline speed -unroll 13
 +PFB +BPD
PTHREAD_CONFIG=feature=def-scs,d4-scs
alternate source ompl.32

324.apsi_m: f90 -arch host -omp -O5 -transform_loops
 -unroll 8
 +PFB
PTHREAD_CONFIG=feature=def-scs,d4-scs
alternate source ompl.32

326.gafort_m: f90 -arch host -omp -fast -O5
 -arch ev67 -tune ev67
alternate source ompl.32

328.fma3d_m: f90 -arch host -omp -fast -O4
 -transform_loops
 +PFB +BPD
PTHREAD_CONFIG=feature=def-scs,d4-scs
alternate source ompl.32

330.art_m: cc -arch host -omp -assume whole_program
 -ldensemalloc -call_shared
 -assume restricted_pointers -fast -O4 -unroll 16
 -inline none
 +PFB +BPD
alternate source purdue1

332.ammp_m: cc -arch host -omp -O4 -ifo
 -assume nomath_errno
 -assume trusted_short_alignment -fp_reorder
 -readonly_strings -ldensemalloc
 -assume restricted_pointers -unroll 9
PTHREAD_CONFIG=feature=def-scs,d4-scs

Information on UNIX V5.1B Patches can be found at
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Notes/Tuning Information (Continued)


This result was measured on model ES80.
Model ES47 and model ES80 are electronically equivalent.