DM

Vec

-dmGrid_cent_rich
-dmGrid_centered
-dmGrid_shift_transp
-dmGrid_stag_transp
-dmGrid_staggered_x
-dmGrid_staggered_y
-dmGrid_staggered_z

-Magnitude
-U_up
-V_up
-W_up
-mask_U
-mask_V
-mask_W

advection_diffusion
_problem

+ advection_diffusion
_problem()
+ advection_diffusion
_problem()
+ exodus()
+ solve()
+ ~advection_diffusion
_problem()
- update_velocity()
- assemble_magnitude()
- compute_magnitude()