

List of changes to FAR3d distribution

linstart.f90:

changed "write(*," "write(0," so these screen writes work on all platforms

vmec.f90:

added `xkprl = real(n,kind=IDP) - real(m,kind=IDP)*qqinv(j)` so that Landau damping works properly

added `kind=IDP` specifier to `cmplx` statements so precision doesn't revert to lower *4 level
`cmplx1 = cmplx(0._IDP,1._IDP,kind=IDP)`

replaced "1/r" in several places with "rinv" so there is no possibility of division by zero

inputlist.f90:

increased format of `eq_name` from a20 to a40 so longer names can be used

inputlist_mod.f90:

increased format of `eq_name` from a20 to a40 so longer names can be used

ae_profiles.f90:

set `pol_rot_vel_e = 0` since it is not included in `taefl.dat` file and should not be used
added `_IDP` specifier to constant numbers so precision is not lost
corrected `vzt_eqp` and `vth_eqp` - should be scaled by `1.e+3` instead of `1.e+5`

eigensolver_tools.f90:

`ln(i)` and `signl(i)` to the `jdqz.dat` output file since these are needed by `xEigen` and for the post-processing

done to make 2D eigenfunction plots

changed "write(*," "write(0," so these screen writes work on all platforms

main_jdqz_TAEFL_cmplx.f90:

added `ln(i)` and `signl(i)` to `jdqz.dat` reads and `egn_mode_ascii.dat` writes - this information is required for
post-processing done to make 2D visualizations of mode structures

Eigensolver.sh:

The compile script was changed so that all codes are compiled together as a single binary, instead of the old way where the `LIB_JDQZ` files were compiled as a separate

library. There was no need to use the library approach and it tends to lead to errors on some computing platforms.