
PARALLEL CODE: FLOW – Main.F

Initialisation**input**

- read namelists

startup

- set array bounds (nfields, dealias) and constants
- **initialize_constants:**
- **initialize_communication:**
 - start MPI
 - initialize_cache_io:** setup compute and IO nodes
 - setup my_k%min/max, my_z%min/max
 - set precision
- **initialize_output:**
 - make directories etc from env vars
- **inititalize_ffts:**
- **initialize_derivs:** set ikx,iky,ksqr,kinv

allocate_fields

- **allocate_spatial** : allocate(field(ldx,ny,my_z%min:my_z%max))
- **allocate_spectral** : allocate(field(ldz,my_k%min:my_k%max))
- **suballocate** : type adams_bashforth :
 - allocate_spectral ->
 - field%current, field%rhs, field%force, field%force2

initialize_state

- setup initial conditions

Step**compute_new_step_size****propagate** (more later!)**I/O****output** (more later)**Finalisation****shut_down**