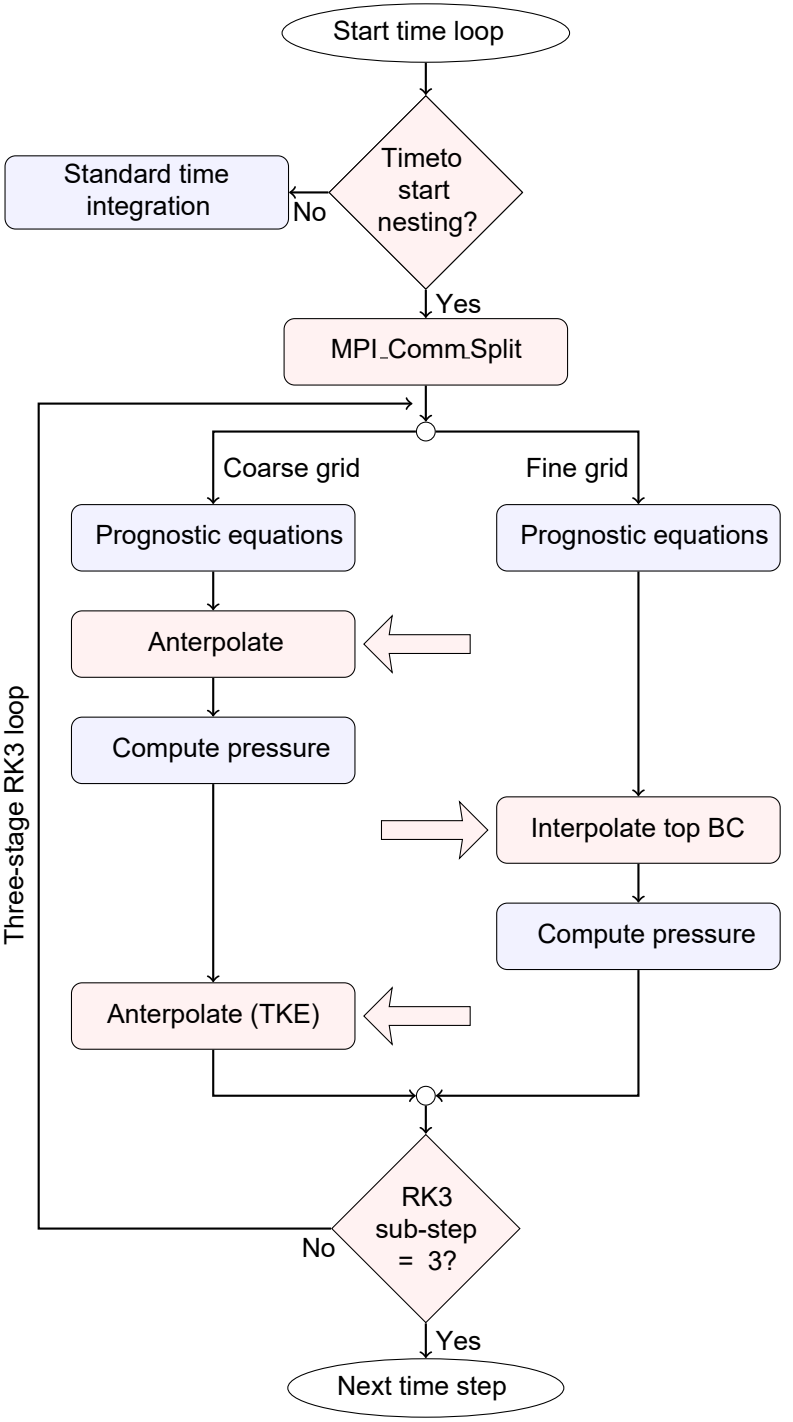
Start time loop
Time to start nesting?
No
Standard time integration
Yes
MPI_Comm_Split
Coarse grid
Fine grid
Prognostic equations
Prognostic equations
Anterpolate
Compute pressure
Interpolate top BC
Compute pressure
Anterpolate (TKE)
Three-stage RK3 loop
RK3 sub-step = 3?
No
Yes
Next time step