

# Sequential CCSM Jan 27, 2006 meeting

Go through questions from last week: [Jan 20](#)

More questions:

- Are there more special config options that make sense? (stand-alone modes for each component?) – Stage-2 Question
  - For example: (atmlnd\_only, no\_lnd)
- Top level restarts for coup\_csm version? – Examine with CAM group
- Timemgr namelist for coup\_csm version? – ditto

Questions for next time:

- Revist top level picture again – especially how states handled.
- List of behavior of namelist items – what you can or can not set on branch or continue?
- Error codes instead of abort?

Look at new top level design with run methods:

```
subroutine ccsm_seq_run( esmf_sync_clock, initinfo )
  type(ESMF_Clock), intent(in) :: esmf_sync_clock
  type(initinfo_t), intent(in) :: initinfo
!
! Averaging rules   components are responsible for any averaging done on within
! their coupling interval. Hub will average atmosphere fields for surface components
! and put the average on the given surface component import state. Hub will also average
! surface data to the atmosphere model coupling interval and put it on the atm import
! state
!
!
  if ( shr_inputinfo_RunModel( initinfo, "atm" ) .and. ESMF_AlarmIsRinging( atm_alarm ) )then
    call ESMF_GridCompRun( gc_atm,      import=h2a_a, export=a2h_a, esmf_sync_clock, phase=1 )
    call ESMF_CplCompRun ( cc_map_a2l, import=a2h_a, export=a2h_l,                phase=1, rc=rc )
    call ESMF_CplCompRun ( cc_map_a2i, import=a2h_a, export=a2h_i,                phase=1, rc=rc )
    call ESMF_CplCompRun ( cc_map_a2o, import=a2h_a, export=a2h_o,                phase=1, rc=rc )
  end if
  if ( shr_inputinfo_RunModel( initinfo, "lnd" ) .and. ESMF_AlarmIsRinging( lnd_alarm ) )then
    ! Note: x2h_l is the composite state pointing to: a2h_l
    call ESMF_GridCompRun( gc_mrg_h2l, import=x2h_l, export=h2l_l,                phase=1, rc=rc )
    call ESMF_GridCompRun( gc_lnd,      import=h2l_l, export=l2h_l, esmf_sync_clock, phase=1 )
    call ESMF_GridCompRun( gc_lnd,      import=h2l_l, export=l2h_l,                phase=2 )
    call ESMF_CplCompRun ( cc_map_a2l, import=l2h_l, export=l2h_a,                phase=2, rc=rc )
    !call ESMF_AlarmRingerOff( lnd_alarm )
  end if
  if ( shr_inputinfo_RunModel( initinfo, "ice" ) .and. ESMF_AlarmIsRinging( ice_alarm ) )then
    ! Note: x2h_i is the composite state pointing to: a2h_i, o2i_i
    call ESMF_GridCompRun( gc_mrg_h2i, import=x2h_i, export=h2i_i,                phase=1, rc=rc )
    call ESMF_GridCompRun( gc_ice,      import=h2i_i, export=i2h_i, esmf_sync_clock, phase=1 )
    call ESMF_GridCompRun( gc_ice,      import=h2i_i, export=i2h_i,                phase=2 )
    call ESMF_CplCompRun ( cc_map_a2i, import=i2h_i, export=i2h_a,                phase=2, rc=rc )
    call ESMF_CplCompRun ( cc_map_o2i, import=i2o_i, export=i2o_o,                phase=1, rc=rc )
    !call ESMF_AlarmRingerOff( ice_alarm )
  end if
  if ( shr_inputinfo_RunModel( initinfo, "ocn" ) .and. ESMF_AlarmIsRinging( ocn_alarm ) )then
    ! Note: x2h_o is the composite state pointing to: i2o_o and a2h_o
    call ESMF_GridCompRun( gc_mrg_h2o, import=x2h_o, export=h2o_o,                phase=1, rc=rc )
    call ESMF_GridCompRun( gc_ocn,      import=h2o_o, export=o2h_o, esmf_sync_clock, phase=1 )
    call ESMF_CplCompRun( cc_map_a2o, import=o2h_o, export=o2h_a,                phase=2 )
    call ESMF_CplCompRun( cc_map_o2i, import=o2h_o, export=o2h_i,                phase=2, rc=rc )
    !call ESMF_AlarmRingerOff( ocn_alarm )
  end if
  if ( shr_inputinfo_runModel( initinfo, "atm" ) .and. ESMF_AlarmIsRinging( atm_alarm ) )then
    ! Note: x2h_a is the composite state pointing to: l2h_a, i2h_a, and o2h_a
    call ESMF_GridCompRun( gc_mrg_h2a, import=x2h_a, export=h2a_a, phase=1, rc=rc )
    call ESMF_GridCompRun( gc_atm,      import=h2a_a,                phase=2 )
    !call ESMF_AlarmRingerOff( atm_alarm )
  end if
end subroutine ccsm_seq_run
```