

dt\_atmos

fv\_dynamics()  
FV<sup>3</sup> solver

[physics]

fv\_update\_phys()  
Consistent field update

k\_split  
“remapping” loop

dyn\_core()  
Lagrangian dynamics

fv\_tracer2d()  
Sub-cycled tracer transport  
OpenMP on k

Lagrangian\_to\_Eulerian()  
Vertical Remapping  
(i,k) OpenMP on j

n\_split  
“acoustic” loop

c\_sw(), etc.  
C-grid solver

d\_sw()  
Forward Lagrangian dyn.  
OpenMP on k

update\_dz\_d()  
Forward  $\delta z$  evaluation  
OpenMP on k

riem\_solver()  
Backwards vertical PGF,  
sound wave processes  
(i,k) OpenMP on j

one\_grad\_p()/nh\_p\_grad()  
Backwards horizontal PGF  
OpenMP on k