

Fortran ESM

Fortran Interface

C Bridge

Python ML

ML initialization

atm_init_mct
init_ml()

ml_wapper_f
init_ml() bind(C,
name="ml_init_c")

ml_wapper_c
init_py()

init_py
Load global data; Load
pre-trained ml model

Data
model

ML process

zm_conv
cape=cape_ml(t,p,q)

ml_wapper_f
cape_ml() bind(C,
name="cape_ml_c")

ml_wapper_c
cape=cape_ml_py()

cape_ml_py
cape = model.predict
(t,p,q)

t,p,q
cape

t,p,q
cape

t,p,q
cape