

This is Coupler code with generalized (different data types) communication procedures and generalized (for irregular grid cells) interpolation procedures

This Coupler is 3-way and is meant for AM stationary domain/grid and optional AM moving subdomain/grid (1); OM stationary domain/grid (2); and WM grid (3) prep option as of 02/01/2010 1:45pm (as in file wm3c_prep.f)

interp.f corrected 07/16/2010

- plus HYCOM+GFSfluxes adjustment (see comments in text) 08/03/2010

This Coupler is multiprocessor with MPI assembling/disassembling

EXTENDED SET OF FIELDS FOR 3-COMPONENT COMMUNICATIONS: Phase 3

AM: NMMB option 06/22/2016

Coupler main in wk since last modified 02/12/2018 5:30pm

argument1=null

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OM: back from CMP_INTRO, VerbLev= 3
CMP_INTEGER_SEND: to call MPI_SEND; F= 1 N= 1
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OM: OC_CMP_START: returning, sent Ocean_spec= 1
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C: CPL_INIT: back from MPI_SEND to proc. # 649
CPL_INTRO: entered, component_id= 1
CPL_INTRO on entry: component_master_rank array: 0 0
0
CPL_INTRO: component_id= 1
CPL_INTRO: component_master_rank array: 0 0 0
C: CPL_INTRO: component with id= 1 ACTIVE
CPL_INTRO: component_id= 1
CPL_INTRO: component_master_rank array: 0 0 0
CPL_INTRO: entered, component_id= 2
CPL_INTRO on entry: component_master_rank array: 0 0
0
CPL_INTRO: component_id= 2
CPL_INTRO: component_master_rank array: 0 0 0
C: CPL_INTRO: component with id= 2 ACTIVE
CPL_INTRO: component_id= 2
CPL_INTRO: component_master_rank array: 0 0 0
CPL_INTRO: entered, component_id= 3
CPL_INTRO on entry: component_master_rank array: 0 0
0
CPL_INTRO: component_id= 3
CPL_INTRO: component_master_rank array: 0 0 0
C: CPL_INTRO: component with id= 3 INACTIVE; id made = -3
No reference longitude in namelist.

Will decide a reference longitude automatically.

CPL_INTRO: entered, component_id= 1

CPL_INTRO on entry: component_master_rank array: 0 0
0

CPL_INTRO: component_id= 1

CPL_INTRO: component_master_rank array: 0 0 0

C: CPL_INTRO: component with id= 1 ACTIVE

CPL_INTRO: component_id= 1

CPL_INTRO: component_master_rank array: 0 0 0

CPL_INTRO: entered, component_id= 2

CPL_INTRO on entry: component_master_rank array: 0 0
0

CPL_INTRO: component_id= 2

CPL_INTRO: component_master_rank array: 0 0 0

C: CPL_INTRO: component with id= 2 ACTIVE

CPL_INTRO: component_id= 2

CPL_INTRO: component_master_rank array: 0 0 0

CPL_INTRO: entered, component_id= 3

CPL_INTRO on entry: component_master_rank array: 0 0
0

CPL_INTRO: component_id= 3

CPL_INTRO: component_master_rank array: 0 0 0

C: CPL_INTRO: component with id= 3 INACTIVE; id made = -3

No reference longitude in namelist.

Will decide a reference longitude automatically.

CPL_INTRO: entered, component_id= 1

CPL_INTRO on entry: component_master_rank array: 0 0
0

CPL_INTRO: component_id= 1

CPL_INTRO: component_master_rank array: 0 0 0
C: CPL_INTRO: component with id= 1 ACTIVE
CPL_INTRO: component_id= 1
CPL_INTRO: component_master_rank array: 0 0 0
CPL_INTRO: entered, component_id= 2
CPL_INTRO on entry: component_master_rank array: 0 0
0
CPL_INTRO: component_id= 2
CPL_INTRO: component_master_rank array: 0 0 0
C: CPL_INTRO: component with id= 2 ACTIVE
CPL_INTRO: component_id= 2
CPL_INTRO: component_master_rank array: 0 0 0
CPL_INTRO: entered, component_id= 3
CPL_INTRO on entry: component_master_rank array: 0 0
0
CPL_INTRO: component_id= 3
CPL_INTRO: component_master_rank array: 0 0 0
C: CPL_INTRO: component with id= 3 INACTIVE; id made = -3
No reference longitude in namelist.
Will decide a reference longitude automatically.
OM: back from CMP_INTEGER_RECV, WM id is -3
OM: OC_CMP_START: Waves_id broadcast
OM: back from CMP_INTEGER_RECV, ia2o is 1
OM: ATM_CMP_START: ia2o broadcast
OM: back from CMP_INTEGER_RECV, io2a is 1
OM: ATM_CMP_START: io2a broadcast
OM: back from CMP_INTEGER_RECV, io2w is 0
OM: ATM_CMP_START: io2w broadcast
OM: back from CMP_INTEGER_RECV, iw2o is 0

OM: ATM_CMP_START: iw2o broadcast

OM: OC_INIT: entered

C: CPL_INIT: back from MPI_SEND to proc. # 650

C: CPL_INIT: back from MPI_SEND to proc. # 651

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C: CPL_INIT: back from MPI_SEND to proc. # 671

C: CPL_INIT: back from MPI_SEND to proc. # 672

C: back from CPL_INIT

CPL_INTRO: entered, component_id= 1

CPL_INTRO on entry: component_master_rank array: 0 0

0

CPL_INTRO: component_id= 1
CPL_INTRO: component_master_rank array: 0 0 0
C: CPL_INTRO: component with id= 1 ACTIVE
CPL_INTRO: component_id= 1
CPL_INTRO: component_master_rank array: 0 0 0
CPL_INTRO: to call MPI_RECV 0 0 0 3
7 -1 54322 0 0 0
0 0 0 0 0
C: CPL_INTRO: back from MPI_RECV, component_master_rank= 13
C: back from CPL_INTRO(Atmos_id), Atmos_id= 1

CPL_INTRO: entered, component_id= 2
CPL_INTRO on entry: component_master_rank array: 13 0
0
CPL_INTRO: component_id= 2
CPL_INTRO: component_master_rank array: 13 0 0
C: CPL_INTRO: component with id= 2 ACTIVE
CPL_INTRO: component_id= 2
CPL_INTRO: component_master_rank array: 13 0 0
CPL_INTRO: to call MPI_RECV 1 13 1 3
7 -1 54323 0 13 54322
0 0 12 0 0
C: CPL_INTRO: back from MPI_RECV, component_master_rank= 4
C: back from CPL_INTRO(Ocean_id), Ocean_id= 2

CPL_INTRO: entered, component_id= 3
CPL_INTRO on entry: component_master_rank array: 13 4

0

CPL_INTRO: component_id= 3

CPL_INTRO: component_master_rank array: 13 4 0

C: CPL_INTRO: component with id= 3 INACTIVE; id made = -3

C: back from CPL_INTRO(Waves_id), Waves_id=-3

C: Communication initialization completed

INTP_INI STUCK considered OK. BEWARE UNCOUPLED GRIDPOINTS

&CPL_SETTINGS

RESTART = F,

CSTEPMAX = 1260,

DT_C = 360.0000000000000 ,

SHT_SF = 297*F,

MASK_TOLERANCE_LEVEL = 2,

FORCE_INTP_INIT = T,

MAX_EXTRAP = 5,

EXTRAP_SF = T,

NO_DQ_AT_ALL = T,

NO_ACTION_UNDER_AM_SI = T,

NO_AM_SST = T,

OM_UL_THICKN = 50.0000000000000 ,

EFOLDINGTIME = 864000.000000000 ,

NPRINT = 6,

VERBLEV = 1,

NPRPER = 0,

NPR1ST = OC_INIT: returning 869 449

OC_INIT: returning 869 449

0,

RING_IW = 0.2500000000000000 ,

INTP_INI_STUCK_OK = T,

COOR_R8 = T,

IA2O = 1,

IO2A = 1,

IA2W = 0,

IW2A = 0,

IO2W = 0,

IW2O = 0

/

C: cstepmax= 1260

C: nprper set =cstepmax= 1260

No reference longitude in namelist.

Will decide a reference longitude automatically.

CPL_INTEGER_RECV: source=component_master_rank(component_id)= 13

CPL_INTEGER_RECV: to call MPI_RECV, source= 13 tag= 1

status= 4 54323 0 0 12

0

CPL_INTEGER_RECV: back from MPI_RECV, source= 13 tag= 1

status= 13 1 0 0 4

0 F= 0

C: Atmos_spec= 0 received

C: Redefined Atmos_spec= 0

C: REAL*8 coordinates assumed for AM

CPL_INTEGER_RECV: source=component_master_rank(component_id)= 4

CPL_INTEGER_RECV: to call MPI_RECV, source= 4 tag= 2

status= 13 1 0 0 4

0

CPL_INTEGER_RECV: back from MPI_RECV, source= 4 tag= 2

status= 4 2 0 0 4

0 F= 1

C: OM is POM

OC_INIT: returning 869 449

OC_INIT: returning 869 449

OC_INIT: returning 869 449

OC_INIT: returning 869 449

OC_INIT: returning 869 449

OC_INIT: returning 869 449

OC_INIT: returning 869 449

gn_a:TV

gn_o:Tuv

gn_a:TV

gn_o:Tuv

gn_a:TV

gn_o:Tuv

C: gridsizes_a: max_dom, NDOM: 3 2

C: AM is (real) HWRF with MG

C: Atmos_spec=0: additional fields from OM, WM sent to AM

C: Number of AM domains nda= 2

C: NSFmax, NSF_a, NSF_a2o, NSF_a2w: 99 4 4 0

gn_a:TV

gn_o:Tuv

C: to receive OM time step

title = MPIPOM-TC:IRMA11L

mode = 3

nadv = 1

nitera = 1

sw = 0.5000

nread_rst = 1

write_rst = 9999.0000

irestart = 4799520

dte = 6.00

dti = 180.0

isplit = 30

time_start = 2017-09-05 12:00:00 +00:00

days = 5.2500

iend = 2520

prtd1 = 0.2500

iprint = 120

prtd2 = 1.0000

swtch = 9999.00

iswtch = 4799520

iprint2 = 30

ifplane = 0

igeovel = 1

cnorth_e = 22.4

ismoth = 1

smh = 3.

tnowindd = 9999.0000

nl = 33

ionedim = 0

ipwave = 0
lramp = F
rhoref = 1025.000
tbias = 0.000
sbias = 0.000
grav = 9.8060
hmax = 5500.
kappa = 0.4000
z0b = 0.010000
cbcmin = 0.002500
cbcmax = 1.000000
horcon = 0.100
tprni = 1.0000
umol = 0.0000
vmaxl = 100.0000
slmax = 2.0000
ntp = 2
nbct = 1
nbcs = 1
ispadv = 5
smoth = 0.1000
alpha = 0.2250

reading file IRMA.grid.nc