

Fortran	python	Notes
use mod_oasis	import pyoasis from pyoasis import OASIS	The second line is optional and gives access to the short constant syntax, e.g. OASIS.OUT instead of pyoasis.OasisParameters.OASIS_OUT
CALL oasis_init_comp (compid, comp_name, ierror)	comp = pyoasis.Component(name)	Standard form. Notice that <i>comp</i> is a user chosen variable name for an object of the Component class. In the following you can replace <i>comp</i> by the name of the object of your choice
CALL oasis_init_comp (compid, comp_name, ierror, coupled)	comp = pyoasis.Component(name, coupled=[True/False])	Optional argument for actual coupling, default to True
CALL oasis_init_comp (compid, comp_name, ierror, commworld=mycomm)	comp = pyoasis.Component(name, communicator=mycomm)	Optional argument for global communicator, default to None, i.e. communicator provided by OASIS. The two optional arguments can be combined
CALL oasis_get_localcomm (local_comm, ierror )	comp.localcomm	Local comm accessed as a property of the comp object Notice that upon creation the comp.couplcomm is a duplicate of comp.localcomm
CALL oasis_create_couplcomm(icpl, local_comm, coupl_comm, kinfo)	comp.create_couplcomm(icpl)	Process not involved in the coupling set icpl to MPI.UNDEFINED It returns an optional error code, but it sets the comp.couplcomm property. Cf example 4
CALL oasis_set_couplcomm(coupl_comm, kinfo)	comp.set_couplcomm(couplcomm)	Sets the comp.couplcomm property. Cf example 6
CALL oasis def partition (il_part_id, [0,ig_paral(2:)], ierror, ig_size, name)	part = pyoasis.SerialPartition(n_points[, global_size, name])	ig_paral(1) = 0 Optional arguments global_size and name. Cf. sect 2.2.3 of the OASIS3-MCT user guide. Notice that <i>part</i> is a user chosen variable name for an object of the Partition superclass.
CALL oasis def partition (il_part_id, [1,ig_paral(2:)], ierror, ig_size, name)	part = pyoasis.ApplePartition(offset, size[, global_size, name])	ig_paral(1) = 1 Optional arguments global_size and name
CALL oasis def partition (il_part_id, [2,ig_paral(2:)], ierror, ig_size, name)	part = pyoasis.BoxPartition(global_offset, local_extent_x, local_extent_y, global_extent_x[, global_size, name])	ig_paral(1) = 2 Optional arguments global_size and name
CALL oasis def partition (il_part_id, [3,ig_paral(2:)], ierror, ig_size, name)	part = pyoasis.OrangePartition(offsets, extents[, global_size, name])	ig_paral(1) = 3 Optional arguments global_size and name
CALL oasis def partition (il_part_id, [4,ig_paral(2:)], ierror, ig_size, name)	part = pyoasis.PointsPartition(global_indices[, global_size, name])	ig_paral(1) = 4 Optional arguments global_size and name