BW

This is a file is written using a pre-release version of the meta-flopy-scripting package

Using flopy version 3.2.10

```
In [ ]: import flopy import numpy as np from numpy import rec
```

flopy.modflow

```
In [ ]: | # Name of model. this string will be used to name the modflow input that are created with
                          # write_model. (the default is 'modflowtest')
                         modelname = 'BW'
                          # Extension for the namefile (the default is 'nam')
                         namefile_ext = 'nam'
                          # Version of modflow to use (the default is 'mf2005').
                         version = 'mf2005'
                          # The name of the executable to use (the default is 'mf2005').
                         exe_name = 'mf2005.exe'
                          structured = True
                          # Unit number for the list file (the default is 2).
                         listunit = 2
                          # Model workspace. directory name to create model data sets. (default is the present working
                                   directory).
                         model_ws = '.
                          # Location for external files (default is none).
                          external path = None
                          # Print additional information to the screen (default is false).
                          verbose = False
                          \verb|modflow| = \verb|flopy.modflow|.mf.Modflow| (\verb|modelname=modelname|, namefile_ext=namefile_ext|, version=version|, and the context of the con
                                                                                                                                   exe_name=exe_name, structured=structured, listunit=listunit,
                                                                                                                                   model_ws=model_ws, external_path=external_path, verbose=verbose)
```

DIS

```
In [ ]: | # The model object (of type :class:`flopy.modflow`nodflow`) to which this package will be added.
                            model = modflow
                            # Number of model layers (the default is 1).
                            nlay = 1
                            # Number of model rows (the default is 2).
                            nrow = 60
                            # Number of model columns (the default is 2).
                           ncol = 100
                            # Number of model stress periods (the default is 1).
                            nper = 288
                            # An array of spacings along a row (the default is 1.0).
                            delr = np.array([0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01
                                                   , 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.
                            0.0025,0.0025,0.0025,0.0025,0.0025,0.01
                                                  ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01
                                                  ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 
                                                   ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01
                                                   ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,1. ])
                            # An array of spacings along a column (the default is 0.0).
                            \texttt{delc} = \texttt{np.array}([0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.0025, 0.002
                            5,0,0025,0.01
                                                   ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01
                                                   ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01
                                                   ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,0.01 ,1. ])
                            # An array of flags indicating whether or not a layer has a quasi-3d confining bed below it. 0
                                     indicates no confining bed, and not zero indicates a confining bed. layebd for the bottom layer
                                        must be 0. (the default is 0)
                           laycbd = 0
                            # An array of the top elevation of layer 1. for the common situation in which the top layer
                            # represents a water-table aquifer, it may be reasonable to set top equal to land-surface
                            # elevation (the default is 1.0)
                            top = 1.0
                            \# An array of the bottom elevation for each model cell (the default is 0.)
                            botm = 0.0
                            # An array of the stress period lengths.
                            perlen = 0.0034719998948276043
                            # Number of time steps in each stress period (default is 1).
                            nstp = 2
                            # Time step multiplier (default is 1.0).
                            tsmult = 1.0
                            \# True or false indicating whether or not stress period is steady state (default is true).
                            steady = True
                            # Time units, default is days (4)
                            itmuni = 4
                            # Length units, default is meters (2)
                            lenuni = 2
                            dis = flopy.modflow.mfdis.ModflowDis(model=model, nlay=nlay, nrow=nrow, ncol=ncol, nper=nper,
                                                                                                                                                     delr=delr, delc=delc, laycbd=laycbd, top=top, botm=botm,
                                                                                                                                                     perlen=perlen, nstp=nstp, tsmult=tsmult, steady=steady,
                                                                                                                                                     itmuni=itmuni, lenuni=lenuni)
```

BAS6

```
In [ ]: # The model object (of type :class:`flopy.modflow.mf.modflow`) to which this package will be added.
      model = modflow
      # The ibound array (the default is 1).
      # An array of starting heads (the default is 1.0).
      strt = 10.0
      # Indicates whether or not packages will be written as free format.
      ifrefm = True
      # Indication of whether model is cross sectional or not (the default is false).
      ixsec = False
      # Flag indicating that flows between constant head cells should be calculated (the default is
        false).
      ichflq = False
      # Percent discrepancy that is compared to the budget percent discrepancy continue when the solver
      # convergence criteria are not met. execution will unless the budget percent discrepancy is
        greater than stoper (default is none). modflow-2005 only
      stoper = None
      # Head value assigned to inactive cells (default is -999.99).
      hnoflo = 1e+30
      bas6 = flopy.modflow.mfbas.ModflowBas(model=model, ibound=ibound, strt=strt, ifrefm=ifrefm,
                                  ixsec=ixsec, ichflg=ichflg, stoper=stoper, hnoflo=hnoflo)
```

```
In [ ]: # The model object (of type :class:`flopy.modflow.mf.modflow`) to which this package will be added.
          model = modflow
           # Layer type, contains a flag for each layer that specifies the layer type. 0 confined >0
              convertible <0 convertible unless the thickstrt option is in effect. (default is 0).
          laytyp = 0
           # Layer average 0 is harmonic mean 1 is logarithmic mean 2 is arithmetic mean of saturated
               thickness and logarithmic mean of of hydraulic conductivity (default is 0).
          lavavg = 0
           # Contains a value for each layer that is a flag or the horizontal anisotropy. if chani is less
               than or equal to 0, then variable hani defines horizontal anisotropy. if chani is greater than
               0, then chani is the horizontal anisotropy for the entire layer, and hani is not read. if any
               hani parameters are used, chani for all layers must be less than or equal to 0. use as many
               records as needed to enter a value of chani for each layer. the horizontal anisotropy is the
               ratio of the hydraulic conductivity along columns (the y direction) to the hydraulic
               conductivity along rows (the x direction). (default is 1).
          chani = 1.0
          # A flag for each layer that indicates whether variable vka is vertical hydraulic conductivity or
               the ratio of horizontal to vertical hydraulic conductivity. 0: vka is vertical hydraulic
               conductivity not 0: vka is the ratio of horizontal to vertical hydraulic conductivity (default
               is 0).
          layvka = 0
           # Contains a flag for each layer that indicates if wetting is active. 0 wetting is inactive not 0
           # wetting is active (default is 0).
          laywet = 0
           \# A flag that is used to determine if cell-by-cell budget data should be saved. if ipakcb is
              non-zero cell-by-cell budget data will be saved. (default is 53)
          ipakcb = 53
           \# Is the head that is assigned to cells that are converted to dry during a simulation. although
               this value plays no role in the model calculations, it is useful as an indicator when looking
               at the resulting heads that are output from the model. hdry is thus similar to hnoflo in the
               basic package, which is the value assigned to cells that are no-flow cells at the start of a
              model simulation. (default is -1.e30).
          hdry = 1e+20
          iwdflg = 0
           # Is a factor that is included in the calculation of the head that is initially established at a
               cell when it is converted from dry to wet. (default is 0.1).
          wetfct = None
           # Is the iteration interval for attempting to wet cells. wetting is attempted every iwetit
               iteration. if using the pcg solver (hill, 1990), this applies to outer iterations, not inner
               iterations. if iwetit less than or equal to 0, it is changed to 1. (default is 1).
           \# Is a flag that determines which equation is used to define the initial head at cells that become
               wet. (default is 0)
          ihdwet = None
          # Is the hydraulic conductivity along rows. hk is multiplied by horizontal anisotropy (see chani
              and hani) to obtain hydraulic conductivity along columns. (default is 1.0).
          0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001
                 0.0001,\ 0.0001,\ 0.0001,\ 0.0001,\ 0.0001,\ 0.0001,\ 0.0001,\ 0.0001,\ 0.0001,\ 0.0001,\ 0.0001,
                 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001,
                 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\\ 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0
                 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 50.,50.,50.,50.,50.,50.
                 ,50. ,50. ,50. ,50. ,50. ,50. , 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001,
                 ,50. ,50. ,50. ,50. , 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001,
```

```
,50. ]]])
# Is the ratio of hydraulic conductivity along columns to hydraulic conductivity along rows, where
 hk of item 10 specifies the hydraulic conductivity along rows. thus, the hydraulic conductivity
 along columns is the product of the values in hk and hani. (default is 1.0).
hani = 0.0
# Is either vertical hydraulic conductivity or the ratio of horizontal to vertical hydraulic
 conductivity depending on the value of layvka. (default is 1.0).
0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0.0001,\; 0
  ,50. ,50. , 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001,
  ,50. ,50. ,50. , 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001,
  ,50. ,50. ,50. ,50. , 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001,
  ,50. ,50. ,50. , 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 0.0001, 50. ,50. ,50. ,50.
```

```
# Is specific storage unless the storagecoefficient option is used. when storagecoefficient is
used, ss is confined storage coefficient. (default is 1.e-5).
# Is specific yield. (default is 0.15).
```

Is the vertical hydraulic conductivity of a quasi-three-dimensional confining bed below a layer.

```
(default is 0.0). note that if an array is passed for vkcb it must be of size (nlay, nrow,
# ncol) even though the information for the bottom layer is not needed.
vkcb = 0.0
# Is a combination of the wetting threshold and a flag to indicate which neighboring cells can
# cause a cell to become wet. (default is -0.01).
wetdry = 0.0
\# Indicates that variable ss and ss parameters are read as storage coefficient rather than specific
# storage. (default is false).
storagecoefficient = False
# indicates that vertical conductance for an unconfined cell is computed from the cell thickness
  rather than the saturated thickness. the constantcy option automatically invokes the
   nocvcorrection option. (default is false).
constantcy = False
\# Indicates that layers having a negative laytyp are confined, and their cell thickness for
  conductance calculations will be computed as strt-bot rather than top-bot. (default is false).
thickstrt = False
# Indicates that vertical conductance is not corrected when the vertical flow correction is
  applied. (default is false).
nocvcorrection = False
# turns off the vertical flow correction under dewatered conditions. this option turns off the
   vertical flow calculation described on p. 5-8 of usgs techniques and methods report 6-al6 and
  the vertical conductance correction described on p. 5-18 of that report. (default is false).
novfc = False
lpf = flopy.modflow.mflpf.ModflowLpf(model=model, laytyp=laytyp, layavg=layavg, chani=chani,
                                    layvka=layvka, laywet=laywet, ipakcb=ipakcb, hdry=hdry,
                                    iwdflg=iwdflg, wetfct=wetfct, iwetit=iwetit, ihdwet=ihdwet,
                                    hk=hk, hani=hani, vka=vka, ss=ss, sy=sy, vkcb=vkcb,
                                    wetdry=wetdry, storagecoefficient=storagecoefficient,
                                    constantcv=constantcv, thickstrt=thickstrt,
                                    nocvcorrection=nocvcorrection, novfc=novfc)
```

WEL

```
In [ ]: # The model object (of type :class:`flopy.modflow.mf.modflow`) to which this package will be added.
                         model = modflow
                         # A flag that is used to determine if cell-by-cell budget data should be saved. if ipakcb is
                          # non-zero cell-by-cell budget data will be saved. (default is 0).
                         ipakcb = 53
                         # Dictionary of boundaries each well is defined through definition of layer (int), row (int),
                                 column (int), flux (float). the simplest form is a dictionary with a lists of boundaries for
                                     each stress period, where each list of boundaries itself is a list of boundaries. indices of
                                    the dictionary are the numbers of the stress period. this gives the form of:
                         stress\_period\_data = \{0: rec.array([(0, 0, 0, 0.0875), (0, 1, 0, 0.0875), (0, 2, 0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (0, 0.0875), (
                                                                                        (0, 3, 0, 0.0875), (0, 4, 0, 0.0875), (0, 5, 0, 0.0875), (0, 6, 0,\
                                                                                        10, 0, 0.0875), (0, 11, 0, 0.0875), (0, 12, 0, 0.0875), (0, 13, 0,
                                                                                        (0.0875), (0, 14, 0, 0.0875), (0, 15, 0, 0.35), (0, 16, 0, 0.35), (0, 16, 0, 0.35)
                                                                                        17, 0, 0.35 ), (0, 18, 0, 0.35 ), (0, 19, 0, 0.35 ), (0, 20, 0, 0.35 ), (0, 21, 0, 0.35 ), (0, 22, 0, 0.35 ), (0, 23, 0, 0.35 ), (0, 24, 0, 0.35 ), (0, 25, 0, 0.35 ), (0, 26, 0, 0.35 ), (0, 27, 0, 0.35 ), (0, 27, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 ), (0, 28, 0, 0.35 )
                                                                                                               0.35 ), (0, 29, 0, 0.35 ), (0, 30, 0, 0.35 ), (0, 31, 0,
                                                                                        ), (0, 32, 0, 0.35 ), (0, 33, 0, 0.35 ), (0, 34, 0, 0.35 ), (0, 35, 0,\
                                                                                        0.35 ), (0, 36, 0, 0.35 ), (0, 37, 0, 0.35 ), (0, 38, 0, 0.35 ), (0,\
                                                                                        39, 0, 0.35 ), (0, 40, 0, 0.35 ), (0, 41, 0, 0.35 ), (0, 42, 0, 0.35\), (0, 43, 0, 0.35 ), (0, 44, 0, 0.35 ), (0, 45, 0, 0.35 ), (0, 46, 0,\)
0.35 ), (0, 47, 0, 0.35 ), (0, 48, 0, 0.35 ), (0, 49, 0, 0.35 ), (0,\)
                                                                                        50, 0, 0.35 ), (0, 51, 0, 0.35 ), (0, 52, 0, 0.35 ), (0, 53, 0, 0.35\
                                                                                        ), (0, 54, 0, 0.35 ), (0, 55, 0, 0.35 ), (0, 56, 0, 0.35 ), (0, 57, 0,\
                                                                                        0.35 ), (0, 58, 0, 0.35 ), (0, 59, 0, 35. )], '<i8'), ('i', '<i8'), ('j', '<i8'), ('flux', '<f4')])}
                                                                                                                                                                                                                                                                               dtype=[('k',\
                          # If none the default well datatype will be applied (default is none).
                         dtype = np.dtype([('k', '<i8'), ('i', '<i8'), ('j', '<i8'), ('flux', '<f4')])</pre>
                          # Package options (default is none).
                         options = []
                         binary = False
                         wel = flopy.modflow.mfwel.ModflowWel(model=model, ipakcb=ipakcb,
                                                                                                                                        stress_period_data=stress_period_data, dtype=dtype,
                                                                                                                                        options=options, binary=binary)
```

PCG

```
In [ ]: # The model object (of type :class:`flopy.modflow.mf.modflow`) to which this package will be added.
        model = modflow
        # Maximum number of outer iterations. (default is 50)
        mxiter = 30
        # Maximum number of inner iterations. (default is 30)
        iter1 = 30
        # Flag used to select the matrix conditioning method. (default is 1). specify npcond = 1 for
        # modified incomplete cholesky. specify npcond = 2 for polynomial.
        # Is the head change criterion for convergence. (default is 1e-5).
        hclose = 0.0001
        # Is the residual criterion for convergence. (default is 1e-5)
        rclose = 0.0001
        # Is the relaxation parameter used with npcond = 1. (default is 1.0)
        relax = 1.0
        # Is only used when npcond = 2 to indicate whether the estimate of the upper bound on the maximum
           eigenvalue is 2.0, or whether the estimate will be calculated. nbpo1 = 2 is used to specify the
           value is 2.0; for any other value of nbpol, the estimate is calculated. convergence is
            generally insensitive to this parameter. (default is 0).
        nbpol = 0
        # Solver print out interval. (default is 0).
        iprpcg = 0
        # If mutpcg = 0, tables of maximum head change and residual will be printed each iteration. if
           mutpcg = 1, only the total number of iterations will be printed. if mutpcg = 2, no information
            will be printed. if mutpcg = 3, information will only be printed if convergence fails. (default
           is 3).
        mutpcg = 1
        # Is the steady-state damping factor. (default is 1.)
        damp = 1.0
        # Is the transient damping factor. (default is 1.)
        dampt = 0.0
        # Is a flag that determines what happens to an active cell that is surrounded by dry cells.
            (default is 0). if ihcofadd=0, cell converts to dry regardless of hcof value. this is the
           default, which is the way pcg2 worked prior to the addition of this option. if ihcofadd<>0,
        # cell converts to dry only if hcof has no head-dependent stresses or storage terms.
        ihcofadd = 0
        pcg = flopy.modflow.mfpcg.ModflowPcg(model=model, mxiter=mxiter, iter1=iter1, npcond=npcond,
                                             hclose=hclose, rclose=rclose, relax=relax, nbpol=nbpol,
                                             iprpcg=iprpcg, mutpcg=mutpcg, damp=damp, dampt=dampt,
                                             ihcofadd=ihcofadd)
```

```
In [ ]: # The model object (of type :class:`flopy.modflow.mf.modflow`) to which this package will be added.
        model = modflow
        # Is a code for the format in which heads will be printed. (default is 0).
        ihedfm = 0
        # Is a code for the format in which drawdown will be printed. (default is 0).
        iddnfm = 0
        # Is a character value that specifies the format for saving heads. the format must contain 20
           characters or less and must be a valid fortran format that is enclosed in parentheses, the
            format must be enclosed in apostrophes if it contains one or more blanks or commas. the
            optional word label after the format is used to indicate that each layer of output should be
           preceded with a line that defines the output (simulation time, the layer being output, and so
           forth). if there is no record specifying chedfm, then heads are written to a binary
            (unformatted) file. binary files are usually more compact than text files, but they are not
            generally transportable among different computer operating systems or different fortran
            compilers. (default is none)
        # Is a character value that specifies the format for saving drawdown. the format must contain 20
            characters or less and must be a valid fortran format that is enclosed in parentheses. the
            format must be enclosed in apostrophes if it contains one or more blanks or commas. the
            optional word label after the format is used to indicate that each layer of output should be
            preceded with a line that defines the output (simulation time, the layer being output, and so
            forth). if there is no record specifying cddnfm, then drawdowns are written to a binary
           (unformatted) file. binary files are usually more compact than text files, but they are not
            generally transportable among different computer operating systems or different fortran
            compilers. (default is none)
        cddnfm = None
        # Is a character value that specifies the format for saving ibound. the format must contain 20
            characters or less and must be a valid fortran format that is enclosed in parentheses. the
            format must be enclosed in apostrophes if it contains one or more blanks or commas. the
            optional word label after the format is used to indicate that each layer of output should be
            preceded with a line that defines the output (simulation time, the layer being output, and so
           forth). if there is no record specifying cboufm, then ibounds are written to a binary
           (unformatted) file. binary files are usually more compact than text files, but they are not
            generally transportable among different computer operating systems or different fortran
           compilers. (default is none)
        cboufm = None
        # Save results in compact budget form. (default is true).
        compact = True
        # Dictionary key is a tuple with the zero-based period and step (iperoc, itsoc) for each
            print/save option list. if stress_period_data is none, then heads are saved for the last time
           step of each stress period. (default is none) the list can have any valid modflow oc
                                 print head print drawdown print budget
            print/save option:
                                                                                  save head
                                                            the lists can also include (1) ddreference in
            drawdown
                       save budget save ibound
           the list to reset drawdown reference to the period and step and (2) a list of layers
           for print head, save head, print drawdown, save drawdown, and
                                                                           save ibound.
        stress_period_data = {(0, 0): ['save head', 'save budget']}
        label = 'LABEL'
        oc = flopy.modflow.mfoc.ModflowOc(model=model, ihedfm=ihedfm, iddnfm=iddnfm, chedfm=chedfm,
                                          cddnfm=cddnfm, cboufm=cboufm, compact=compact,
                                          stress period data=stress period data, label=label)
```

flopy.mt3d

```
In [ ]: # Name of model. this string will be used to name the modflow input that are created with
# write_model. (the default is 'mt3dtest')
         modelname = 'BW'
        \# Extension for the namefile (the default is 'nam') namefile_ext = 'nam'
         # This is a flopy modflow model object upon which this mt3dms model is based. (the default is none)
         modflowmodel = modflow
         ftlfilename = 'mt3d_link.ftl'
         # Version of mt3dms to use (the default is 'mt3dms').
         version = 'mt3dms'
         # The name of the executable to use (the default is 'mt3dms.exe').
         exe_name = 'mt3dms.exe'
         structured = True
         # Unit number for the list file (the default is 2).
         listunit = None
         # Model workspace. directory name to create model data sets. (default is the present working
         # directory).
         model_ws = '.'
         # Location for external files (default is none).
         external_path = None
         # Print additional information to the screen (default is false).
         verbose = False
         # (default is true).
         load = True
         # (default is 0)
         silent = 0
         mt3d = flopy.mt3d.mt.Mt3dms(modelname=modelname, namefile_ext=namefile_ext,
                                      modflowmodel=modflowmodel, ftlfilename=ftlfilename, version=version,
                                      exe_name=exe_name, structured=structured, listunit=listunit,
                                      model_ws=model_ws, external_path=external_path, verbose=verbose,
                                      load=load, silent=silent)
```

BTN

```
In [ ]: # The model object (of type :class:`flopy.mt3dms.mt.mt3dms`) to which this package will be added.
        model = mt3d
        # The total number of chemical species in the simulation. (default is none, will be changed to 1 if
        # sconc is single value)
        ncomp = 2
        # The total number of 'mobile' species (default is 1). mcomp must be equal or less than ncomp.
        mcomp = 2
        # The name of unit for time (default is 'd', for 'days'). used for identification purposes only.
        tunit = 'D
        # The name of unit for length (default is 'm', for 'meters'). used for identification purposes
        # only.
        lunit = 'M
        # The name of unit for mass (default is 'kg', for 'kilograms'). used for identification purposes
        # only.
        munit = 'KG
        # The effective porosity of the porous medium in a single porosity system, or the mobile porosity
          in a dual-porosity medium (the immobile porosity is defined through the chemical reaction
        # package. (default is 0.25).
        prsity = 0.3499999940395355
        # The icbund array specifies the boundary condition type for solute species (shared by all
           species). if icbund = 0, the cell is an inactive concentration cell; if icbund < 0, the cell is
            a constant-concentration cell; if icbund > 0, the cell is an active concentration cell where
           the concentration value will be calculated. (default is 1).
        icbund = 1
        # Sconc is the starting concentration for the first species. to specify starting concentrations
          for other species in a multi-species simulation, include additional keywords, such as sconc2,
        # sconc3, and so forth.
        sconc = 0.0
        # The value for indicating an inactive concentration cell. (default is 1e30).
        cinact = -1000.0
        # The minimum saturated thickness in a cell, expressed as the decimal fraction of its thickness,
           below which the cell is considered inactive. (default is 0.01).
        t.hkmin = 0.01
        # A flag/format code indicating how the calculated concentration should be printed to the standard
           output text file. format codes for printing are listed in table 3 of the mt3dms manual. if
           ifmtcn > 0 printing is in wrap form; ifmtcn < 0 printing is in strip form; if ifmtcn = 0
           concentrations are not printed. (default is 0).
        # A flag/format code indicating how the number of particles should be printed to the standard
        # output text file. the convention is the same as for ifmtcn. (default is 0).
        # A flag/format code indicating how the calculated retardation factor should be printed to the
           standard output text file. the convention is the same as for ifmtcn. (default is 0).
        # A flag/format code indicating how the distance-weighted dispersion coefficient should be printed
        # to the standard output text file. the convention is the same as for ifmtcn. (default is 0).
        ifmtdp = 0
        # A logical flag indicating whether the concentration solution should be saved in an unformatted
        # file. (default is true).
        savucn = True
        # A flag indicating (i) the frequency of the output and (ii) whether the output frequency is
           specified in terms of total elapsed simulation time or the transport step number. if nprs > 0
           results will be saved at the times as specified in timprs; if nprs = 0, results will not be
            saved except at the end of simulation; if nprs < 0, simulation results will be saved whenever
           the number of transport steps is an even multiple of nprs. (default is 0).
        # The total elapsed time at which the simulation results are saved. the number of entries in timprs
        # must equal nprs. (default is none).
        timprs = None
        obs = None
        nprobs = 0
        chkmas = True
        nprmas = 1
        ssflag = 288 * [' ']
        dt0 = 0.0
        mxstrn = 50000
        ttsmult = 1.0
        ttsmax = 0.0
        # Sconc is the starting concentration for the first species. to specify starting concentrations
           for other species in a multi-species simulation, include additional keywords, such as sconc2,
           sconc3, and so forth.
        sconc2 = 12.0
        btn = flopy.mt3d.mtbtn.Mt3dBtn(model=model, ncomp=ncomp, mcomp=mcomp, tunit=tunit, lunit=lunit,
                                       munit=munit, prsity=prsity, icbund=icbund, sconc=sconc,
                                       cinact=cinact, thkmin=thkmin, ifmtcn=ifmtcn, ifmtnp=ifmtnp,
                                       ifmtrf=ifmtrf, ifmtdp=ifmtdp, savucn=savucn, nprs=nprs,
                                       timprs=timprs, obs=obs, nprobs=nprobs, chkmas=chkmas, nprmas=nprmas,
                                       {\tt ssflag=ssflag,\ dt0=dt0,\ mxstrn=mxstrn,\ ttsmult=ttsmult,}
                                       ttsmax=ttsmax, species_names=species_names, sconc2=sconc2)
```

```
In [ ]: # The model object (of type :class:`flopy.mt3d.mt.mt3dms`) to which this package will be added.
        model = mt3d
        # Mixelm is an integer flag for the advection solution option. mixelm = 0, the standard
            finite-difference method with upstream or central-in-space weighting, depending on the value of nadvfd; = 1, the forward-tracking method of characteristics (moc); = 2, the backward-tracking
            modified\ method\ of\ characteristics\ (mmoc); = 3, the hybrid method\ of\ characteristics\ (hmoc)
            with moc or mmoc automatically and dynamically selected; = -1, the third-order tvd scheme
            (ultimate).
        mixelm = -1
        # Percel is the courant number (i.e., the number of cells, or a fraction of a cell) advection will
           be allowed in any direction in one transport step. for implicit finite-difference or
            particle-tracking-based schemes, there is no limit on percel, but for accuracy reasons, it is
            generally not set much greater than one. note, however, that the percel limit is checked over
            the entire model grid. thus, even if percel > 1, advection may not be more than one cell's
            length at most model locations. for the explicit finite-difference or the third-order tvd
            scheme, percel is also a stability constraint which must not exceed one and will be
            automatically reset to one if a value greater than one is specified.
        percel = 1.0
        \# Mxpart is the maximum total number of moving particles allowed and is used only when mixelm = 1
           or 3.
        mxpart = 0
        # Nadvfd is an integer flag indicating which weighting scheme should be used; it is needed only
            when the advection term is solved using the implicit finite- difference method. nadvfd = 0 or
            1, upstream weighting (default); = 2,central-in-space weighting.
        nadvfd = 0
        # Itrack is a flag indicating which particle-tracking algorithm is selected for the
            eulerian-lagrangian methods. itrack = 1, the first-order euler algorithm is used. = 2, the
            fourth-order runge-kutta algorithm is used; this option is computationally demanding and may be
            needed only when percel is set greater than one. = 3, the hybrid first- and fourth-order
            algorithm is used; the runge-kutta algorithm is used in sink/source cells and the cells next to
            sinks/sources while the euler algorithm is used elsewhere.
        itrack = None
        \# Is a concentration weighting factor between 0.5 and 1. it is used for operator splitting in the
            particle- tracking-based methods. the value of 0.5 is generally adequate. the value of wd may
            be adjusted to achieve better mass balance. generally, it can be increased toward 1.0 as
            advection becomes more dominant.
        wd = None
        # Is a small relative cell concentration gradient below which advective transport is considered
        dceps = None
        # Nplane is a flag indicating whether the random or fixed pattern is selected for initial placement
            of moving particles. if nplane = 0, the random pattern is selected for initial placement.
            particles are distributed randomly in both the horizontal and vertical directions by calling a
            random number generator (figure 18b). this option is usually preferred and leads to smaller
            mass balance discrepancy in nonuniform or diverging/converging flow fields. if nplane > 0, the
            fixed pattern is selected for initial placement. the value of nplane serves as the number of
            vertical 'planes' on which initial particles are placed within each cell block (figure 18a).
            the fixed pattern may work better than the random pattern only in relatively uniform flow
            fields. for two-dimensional simulations in plan view, set nplane = 1. for cross sectional or
            three-dimensional simulations, nplane = 2 is normally adequate. increase nplane if more
            resolution in the vertical direction is desired.
        nplane = None
        \# Npl is the number of initial particles per cell to be placed at cells where the relative cell
            concentration gradient is less than or equal to dceps. generally, npl can be set to zero since
            advection is considered insignificant when the relative cell concentration gradient is less
            than or equal to dceps. setting npl equal to nph causes a uniform number of particles to be
            placed in every cell over the entire grid (i.e., the uniform approach).
        ^{\#} Nph is the number of initial particles per cell to be placed at cells where the relative cell
            concentration gradient is greater than dceps. the selection of nph depends on the nature of the
            flow field and also the computer memory limitation. generally, a smaller number should be used
            in relatively uniform flow fields and a larger number should be used in relatively nonuniform
            flow fields. however, values exceeding 16 in two-dimensional simulation or 32 in three-
            dimensional simulation are rarely necessary. if the random pattern is chosen, nph particles are
            randomly distributed within the cell block, if the fixed pattern is chosen, nph is divided by
            nplane to yield the number of particles to be placed per vertical plane, which is rounded to
            one of the values shown in figure 30.
        nph = None
        # Is the minimum number of particles allowed per cell. if the number of particles in a cell at the
            end of a transport step is fewer than npmin, new particles are inserted into that cell to
            maintain a sufficient number of particles. npmin can be set to zero in relatively uniform flow
            fields and to a number greater than zero in diverging/converging flow fields. generally, a
            value between zero and four is adequate.
        npmin = None
        \# Npmax is the maximum number of particles allowed per cell. if the number of particles in a cell
            exceeds npmax, all particles are removed from that cell and replaced by a new set of particles
            equal to nph to maintain mass balance. generally, npmax can be set to approximately two times
            of nph.
        npmax = None
        # S a flag indicating whether the random or fixed pattern is selected for initial placement of
            particles to approximate sink cells in the mmoc scheme. the convention is the same as that for
            nplane. it is generally adequate to set nlsink equivalent to nplane.
        # Is the number of particles used to approximate sink cells in the mmoc scheme. the convention is
            the same as that for nph. it is generally adequate to set npsink equivalent to nph.
        # Dchmoc is the critical relative concentration gradient for controlling the selective use of
            either moc or mmoc in the hmoc solution scheme. the moc solution is selected at cells where the
            relative concentration gradient is greater than dchmoc. the mmoc solution is selected at cells
            where the relative concentration gradient is less than or equal to dchmoc.
```

dchmoc = None

DSP

```
In [ ]: # The model object (of type :class:`flopy.mt3d.mt.mt3dms`) to which this package will be added.
                       model = mt3d
                       # Al is the longitudinal dispersivity, for every cell of the model grid (unit, 1). (default is
                              0.01)
                       al = 0.0
                       \# S a 1d real array defining the ratio of the horizontal transverse dispersivity to the
                                 longitudinal dispersivity. each value in the array corresponds to one model layer. some recent
                                 field studies suggest that trpt is generally not greater than 0.1. (default is 0.1)
                       trpt = 0.10000000149011612
                       # Is the ratio of the vertical transverse dispersivity to the longitudinal dispersivity. each value
                                in the array corresponds to one model layer. some recent field studies suggest that trpt is
                                  generally not greater than 0.01. set trpv equal to trpt to use the standard isotropic
                                  dispersion model (equation 10 in chapter 2). otherwise, the modified isotropic dispersion model
                                is used (equation 11 in chapter 2). (default is 0.01)
                       trpv = 0.00999999776482582
                       # Multidiff option is used. dmcoef is the effective molecular diffusion coefficient (unit, 12t-1).
                                 set dmcoef = 0 if the effect of molecular diffusion is considered unimportant. each value in
                                  the array corresponds to one model layer. the value for dmcoef applies only to species 1. see
                                  kwargs for entering dmcoef for other species. (default is 1.e-9).
                       dmcoef = 0.0
                       # To activate the component-dependent diffusion option, a keyword input record must be inserted to
                                  the beginning of the dispersion (dsp) input file. the symbol $ in the first column of an input
                                  line signifies a keyword input record containing one or more predefined keywords. above the
                                  keyword input record, comment lines marked by the symbol # in the first column are allowed.
                                  comment lines are processed but have no effect on the simulation. furthermore, blank lines are
                                  also acceptable above the keyword input record, below the keyword input record, the format of
                                  the dsp input file must remain unchanged from the previous versions except for the diffusion
                                  coefficient as explained below. if no keyword input record is specified, the input file remains
                                  backward compatible with all previous versions of mt3dms. the predefined keyword for the
                                  component-dependent diffusion option is multidiffusion. the keyword is case insensitive so
                                   ''multidiffusion'' is equivalent to either ''multidiffusion'' or ''multidiffusion''. if this
                                  keyword is specified in the keyword input record that has been inserted into the beginning of
                                  the dsp input file, the component-dependent diffusion option has been activated and the user
                                  needs to specify one diffusion coefficient for each mobile solute component and at each model
                                  cell. this is done by specifying one mobile component at a time, from the first component to
                                  the last component (mcomp). for each mobile component, the real array reader utility (rarray)
                                  is used to input the 3-d diffusion coefficient array, one model layer at a time. (default is
                                 false)
                       multiDiff = True
                       # Multidiff option is used. dmcoef is the effective molecular diffusion coefficient (unit, 12t-1).
                                set dmcoef = 0 if the effect of molecular diffusion is considered unimportant. each value in
                                  the array corresponds to one model layer. the value for dmcoef applies only to species 1. see
                                  kwargs for entering dmcoef for other species. (default is 1.e-9).
                       dmcoef2 = np.array([[[0.1218029 ,0.1218029 ,0.1218029 ,0.1218029 ,0.1218029 ,0.1218029 ,0.1218029 ,0.1218029
                                                    ,0.1218029 ,0.1218029 ,0.1218029 ,0.1218029 ,0.1218029 ,0.0040039
                                                     , 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.0122244, 0.0122244, 0.0122244, 0.0122244, 0.0122244, 0.0122244, 0.0122244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.01222244, 0.0122224
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                                                    ,0.1218029 ,0.1218029 ,0.1218029 ,0.1218029 ,0.1218029 ,0.1218029 ],
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                                                    ,0.1218029 ,0.1218029 ,0.1218029 ,0.1218029 ,0.1218029 ,0.0040039
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 ,0.1218029 ,0.1218029 ,0.1218029 ,0.1218029 ]]])
```

```
In [ ]: | # The model object (of type :class:`flopy.mt3d.mt.mt3dms`) to which this package will be added.
            model = mt3d
            # Crch is the concentration of recharge for species 1. if the recharge flux is positive, it acts as
                  a source whose concentration can be specified as desired. if the recharge flux is negative, it
                  acts as a sink (discharge) whose concentration is always set equal to the concentration of
                  groundwater at the cell where discharge occurs. note that the location and flow rate of
                  recharge/discharge are obtained from the flow model directly through the unformatted
                  flow-transport link file. crch can be specified as an array, if the array is constant for the
                  entire simulation. if crch changes by stress period, then the user must provide a dictionary,
                  where the key is the stress period number (zero based) and the value is the recharge array.
                  the recharge concentration can be specified for additional species by passing additional
                  arguments\ to\ the\ mt3dssm\ constructor.\quad for\ example,\ to\ specify\ the\ recharge\ concentration\ for
                  species two one could use crch2={0: 0., 1: 10*np.ones((nrow, ncol), dtype=np.float)} as and
                  additional keyword argument that is passed to mt3dssm when making the ssm object.
            crch = None
            # Is the concentration of evapotranspiration flux for species 1. evapotranspiration is the only
                  type of sink whose concentration may be specified externally. note that the concentration of a
                  sink cannot be greater than that of the aquifer at the sink cell. thus, if the sink
                  concentration is specified greater than that of the aquifer, it is automatically set equal to
                  the concentration of the aquifer. also note that the location and flow rate of
                  evapotranspiration are obtained from the flow model directly through the unformatted
                  flow-transport link file. for multi-species simulations, see crch for a description of how to
                 specify additional concentrations arrays for each species.
            cevt = None
            mxss = 121
            # Keys in the dictionary are stress zero-based stress period numbers; values in the dictionary are
                  recarrays of ssm boundaries. the dtype for the recarray can be obtained using ssm.dtype (after
                  the ssm package has been created). the default dtype for the recarray is \operatorname{np.dtype}([('k', k')])
                  np.int), ("i", np.int), ("j", np.int), ("css", np.float32), ("itype", np.int), ((cssms(n),
                  np.float), n=1, ncomp)]) if there are more than one component species, then additional entries
                  will be added to the dtype as indicated by cssm(n). note that if the number of dictionary
                  entries is less than the number of stress periods, then the last recarray of boundaries will
                  apply until the end of the simulation. full details of all options to specify
                  stress_period_data can be found in the flopy3_multi-component_ssm ipython notebook in the
                  notebook subdirectory of the examples directory. css is the specified source concentration or
                  mass-loading rate, depending on the value of itype, in a single-species simulation, (for a
                  multispecies simulation, css is not used, but a dummy value still needs to be entered here.)
                  note that for most types of sources, css is interpreted as the source concentration with the
                  unit of mass per unit volume (ml-3), which, when multiplied by its corresponding flow rate
                  (13t-1) from the flow model, yields the mass-loading rate (mt-1) of the source. for a special
                  type of sources (itype = 15), css is taken directly as the mass-loading rate (mt-1) of the
                  source so that no flow rate is required from the flow model. furthermore, if the source is
                  specified as a constant-concentration cell (itype = -1), the specified value of css is assigned
                  directly as the concentration of the designated cell. if the designated cell is also associated
                  with a sink/source term in the flow model, the flow rate is not used. itype is an integer
                  indicating the type of the point source. an itype dictionary can be retrieved from the ssm
                  object\ as\ itype=\texttt{mt3d.mt3dssm.itype\_dict()}\ (\textit{cssms(n)},\ n=1,\ ncomp)\ defines\ the\ concentrations
                  of a point source for multispecies simulation with ncomp>1. in a multispecies simulation, it is
                  necessary to define the concentrations of all species associated with a point source. as an
                  example, if a chemical of a certain species is injected into a multispecies system, the
                  concentration of that species is assigned a value greater than zero while the concentrations of
                  all other species are assigned zero. cssms(n) can be entered in free format, separated by a
                  comma or space between values. several important notes on assigning concentration for the
                  constant-concentration condition (itype = -1) are listed below: the constant-concentration
                  condition defined in this input file takes precedence to that defined in the basic transport
                  package input file. in a multiple stress period simulation, a constant-concentration cell, once
                  defined, will remain a constant- concentration cell in the duration of the simulation, but its
                  concentration value can be specified to vary in different stress periods. in a multispecies
                  simulation, if it is only necessary to define different constant-concentration conditions for
                  selected species at the same cell location, specify the desired concentrations for those
                  species, and assign a negative value for all other species. the negative value is a flag used
                  by mt3dms to skip assigning the constant-concentration condition for the designated species.
            12. ), (0, 2, 0, 0., 2, 0., 12. ), (0, 3, 0, 0., 2, 0., 12. ), (0, 4, 0, 0., 2, 0., 12. ), (0, 5, 0, 0., 2, 0., 12. ),\
                                                                                   12. ), (0, 3, 0, 0., 2, 0., 12. ), (0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 
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12. ), (0, 19, 0, 0., 2, 0., 12. ), (0, 20, 0, 0., 2, 0., 12.\)
13. ), (0, 21, 0, 0., 2, 0., 12. ), (0, 22, 0, 0., 2, 0., 12. ), \)
14. (0, 23, 0, 0., 2, 0., 12. ), (0, 24, 0, 0., 2, 0., 12. ), \)
15. (0, 20, 0., 2, 0., 12. ), (0, 24, 0, 0., 2, 0., 12. ), (0, 25, 0, 0., 2, 0., 12. ), (0, 26, 0, 0., 2, 0., 12. ), (0, 27, \)
                                           0, 0., 2, 0., 12. ), (0, 28, 0, 0., 2, 0., 12. ), (0, 29, 0,\
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42, 0, 0., 2, 0., 12. ), (0, 43, 0, 0., 2, 0., 12. ), (0, 44, \)
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                                            2, 0., 12. ), (0, 49, 0, 0., 2, 0., 12. ), (0, 50, 0, 0., 2,\
0., 12. ), (0, 51, 0, 0., 2, 0., 12. ), (0, 52, 0, 0., 2, 0.,\
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12.), (0, 53, 0, 0., 2, 0., 12.), (0, 54, 0, 0., 2, 0., 12.\), (0, 55, 0, 0., 2, 0., 12.), (0, 56, 0, 0., 2, 0., 12.),\

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(0, 57, 0, 0., 2, 0., 12. ), (0, 58, 0, 0., 2, 0., 12.
                          (0, 5/, 0, 0., 2, 0., 5, 5, 5, 0., 0., 15, 0., 0.510050,], (59, 0, 0., 2, 0., 12. ), (0, 7, 20, 0., 15, 0., 0.510050,], (dtype=[('k', '<i8'), ('i', '<i8'), ('j', '<i8'), ('css', '<f4'), ('itype', '<i8'), ('cssm(01)', '<f4'), ('cssm(02)', '<f4')]), 144: rec.array([(0, 0, 12.), (0, 2, 0, 0., 2, 0., 12.), (0, 2, 0, 0., 2, 0., 12.), (0, 2, 0, 0., 2, 0., 12.), (0, 2, 0, 0., 2, 0., 12.)
                          12.), (0, 3, 0, 0., 2, 0., 12.), (0, 4, 0, 0., 2, 0., 12.), (0, 5, 0,\
0., 2, 0., 12.), (0, 6, 0, 0., 2, 0., 12.), (0, 7, 0, 0., 2, 0., 12.),\
                          (0, 8, 0, 0., 2, 0., 12.), (0, 9, 0, 0., 2, 0., 12.), (0, 10, 0, 0.,\
                          2, 0., 12.), (0, 11, 0, 0., 2, 0., 12.), (0, 12, 0, 0., 2, 0., 12.), (0,\
                          13, 0, 0., 2, 0., 12.), (0, 14, 0, 0., 2, 0., 12.), (0, 15, 0, 0., 2,\
                          0., 12.), (0, 16, 0, 0., 2, 0., 12.), (0, 17, 0, 0., 2, 0., 12.), (0, 18,\
                          0, 0., 2, 0., 12.), (0, 19, 0, 0., 2, 0., 12.), (0, 20, 0, 0., 2, 0.,\
12.), (0, 21, 0, 0., 2, 0., 12.), (0, 22, 0, 0., 2, 0., 12.), (0, 23, 0,\
                          0., 2, 0., 12.), (0, 24, 0, 0., 2, 0., 12.), (0, 25, 0, 0., 2, 0., 12.),
                          (0, 26, 0, 0., 2, 0., 12.), (0, 27, 0, 0., 2, 0., 12.), (0, 28, 0, 0.,\
2, 0., 12.), (0, 29, 0, 0., 2, 0., 12.), (0, 30, 0, 0., 2, 0., 12.), (0,\
                          31, 0, 0., 2, 0., 12.), (0, 32, 0, 0., 2, 0., 12.), (0, 33, 0, 0., 2,\
                          0., 12.), (0, 34, 0, 0., 2, 0., 12.), (0, 35, 0, 0., 2, 0., 12.), (0, 36,
                          0, 0., 2, 0., 12.), (0, 37, 0, 0., 2, 0., 12.), (0, 38, 0, 0., 2, 0., \)
                          12.), (0, 39, 0, 0., 2, 0., 12.), (0, 40, 0, 0., 2, 0., 12.), (0, 41, 0,
                          0., 2, 0., 12.), (0, 42, 0, 0., 2, 0., 12.), (0, 43, 0, 0., 2, 0., 12.),\
(0, 44, 0, 0., 2, 0., 12.), (0, 45, 0, 0., 2, 0., 12.), (0, 46, 0, 0.,\)
                          2, 0., 12.), (0, 47, 0, 0., 2, 0., 12.), (0, 48, 0, 0., 2, 0., 12.), (0,\
                          49, 0, 0., 2, 0., 12.), (0, 50, 0, 0., 2, 0., 12.), (0, 51, 0, 0., 2,
                          0., 12.), (0, 52, 0, 0., 2, 0., 12.), (0, 53, 0, 0., 2, 0., 12.), (0, 54,\
                          0, 0., 2, 0., 12.), (0, 55, 0, 0., 2, 0., 12.), (0, 56, 0, 0., 2, 0.,\
                          12.), (0, 57, 0, 0., 2, 0., 12.), (0, 58, 0, 0., 2, 0., 12.), (0, 59, 0,
                          0., 2, 0., 12.), (0, 7, 20, 0., 15, 0., 0.)], dtype=[('k' '<i8'), ('i', '<i8'), ('cssm(01)', '<f4'), ('cssm(02)', '<f4')])}
                                                                                                    dtype=[('k',\
# Dtype to use for the recarray of boundaries. if left as none (the default) then the dtype will
# be automatically constructed.
dtype = np.dtype([('k', '<i8'), ('i', '<i8'), ('j', '<i8'), ('css', '<f4'), ('itype', '<i8'),</pre>
          ('cssm(01)', '<f4'), ('cssm(02)', '<f4')])
ssm = flopy.mt3d.mtssm.Mt3dSsm(model=model, crch=crch, cevt=cevt, mxss=mxss,
                                       stress_period_data=stress_period_data, dtype=dtype)
```

GCG

```
In [ ]: # The model object (of type :class:`flopy.mt3d.mt.mt3dms`) to which this package will be added.
        model = mt.3d
        # Is the maximum number of outer iterations; it should be set to an integer greater than one only
            when a nonlinear sorption isotherm is included in simulation. (default is 1)
        mxiter = 1
        # Is the maximum number of inner iterations; a value of 30-50 should be adequate for most problems.
        # (default is 50)
        iter1 = 100
        # Is the type of preconditioners to be used with the lanczos/orthomin acceleration scheme: = 1,
           jacobi = 2, ssor = 3, modified incomplete cholesky (mic) (mic usually converges faster, but it
            needs significantly more memory) (default is 3)
        isolve = 3
        # Is an integer flag for treatment of dispersion tensor cross terms: = 0, lump all dispersion cross
          terms to the right-hand-side (approximate but highly efficient). = 1, include full dispersion
           tensor (memory intensive). (default is 0)
        ncrs = 1
        # Is the relaxation factor for the ssor option; a value of 1.0 is generally adequate. (default is
        # 1)
        accl = 1.0
        # Is the convergence criterion in terms of relative concentration; a real value between 10-4 and
           10-6 is generally adequate. (default is 1.e-5)
        cclose = 1e-05
        # Iprgcg is the interval for printing the maximum concentration changes of each iteration. set
        # iprgcg to zero as default for printing at the end of each stress period. (default is 0)
        iprqcq = 0
        gcg = flopy.mt3d.mtgcg.Mt3dGcg(model=model, mxiter=mxiter, iter1=iter1, isolve=isolve, ncrs=ncrs,
                                       accl=accl, cclose=cclose, iprgcg=iprgcg)
```

RCT

```
In [ ]: # The model object (of type :class:`flopy.mt3dms.mt.mt3dms`) to which this package will be added.
                                                                                    model = mt3d
                                                                                       # Isothm is a flag indicating which type of sorption (or dual-domain mass transfer) is simulated:
                                                                                                                         isothm = 0, no sorption is simulated; isothm = 1, linear isotherm (equilibrium-controlled);
                                                                                                                           isothm = 2, freundlich isotherm (equilibrium-controlled); isothm = 3, langmuir isotherm
                                                                                                                         (equilibrium-controlled); isothm = 4, first-order kinetic sorption (nonequilibrium); isothm =
                                                                                                                         5, dual-domain mass transfer (without sorption); isothm = 6, dual-domain mass transfer (with
                                                                                                                      sorption). (default is 0).
                                                                                     isothm = 1
                                                                                     # Ireact is a flag indicating which type of kinetic rate reaction is simulated: ireact = 0, no
                                                                                                                           kinetic rate reaction is simulated; ireact = 1, first-order irreversible reaction, ireact =
                                                                                                                            100, zero-order reactions (decay or production). note that this reaction package is not
                                                                                                                           intended for modeling chemical reactions between species. an add-on reaction package developed
                                                                                                                       specifically for that purpose may be used. (default is 0).
                                                                                     ireact = 0
                                                                                     # Igetsc is an integer flag indicating whether the initial concentration for the nonequilibrium
                                                                                                                         sorbed or immobile phase of all species should be read when nonequilibrium sorption (isothm =
                                                                                                                           4) or dual-domain mass transfer (isothm = 5 or 6) is simulated: igetsc = 0, the initial
                                                                                                                            concentration for the sorbed or immobile phase is not read. by default, the sorbed phase is
                                                                                                                           assumed to be in equilibrium with the dissolved phase (isothm = 4), and the immobile domain is
                                                                                                                            assumed to have zero concentration (isothm = 5 or 6). igetsc > 0, the initial concentration for
                                                                                                                           the sorbed phase or immobile liquid phase of all species will be read. (default is 1).
                                                                                    igetsc = 0
                                                                                     # Rhob is the bulk density of the aquifer medium (unit, ml-3). rhob is used if isothm = 1, 2, 3, 4,
                                                                                                                      or 6. if rhob is not user-specified and isothm is not 5 then rhob is set to 1.8e3. (default is
                                                                                                                       none)
                                                                                     rhob = np.array([[[1722.5,1722.5,1722.5,1722.5,1722.5,1722.5,1722.5,1722.5,1722.5,1722.5,1722.5,1722.5,1722.5,
                                                                                                                                                         1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722.5, 1722
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Prsity2 is the porosity of the immobile domain (the ratio of pore spaces filled with immobile

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fluids over the bulk volume of the aquifer medium) when the simulation is intended to represent
   a dual-domain system. prsity2 is used if isothm = 5 or 6. if prsity2 is not user- specified and
   isothm = 5 or 6 then prsity2 is set to 0.1. (default is none)
prsity2 = 0.10000000149011612
# Srconc is the user-specified initial concentration for the sorbed phase of the first species if
   isothm = 4 (unit, mm-1). note that for equilibrium-controlled sorption, the initial
   concentration for the sorbed phase cannot be specified. srconc is the user-specified initial
   concentration of the first species for the immobile liquid phase if isothm = 5 or 6 (unit,
   ml-3). if srconc is not user-specified and isothm = 4, 5, or 6 then srconc is set to 0.
   (default is none).
srconc = 0.0
# Sp1 is the first sorption parameter for the first species. the use of sp1 depends on the type of
   sorption selected (the value of isothm). for linear sorption (isothm = 1) and nonequilibrium
   sorption (isothm = 4), sp1 is the distribution coefficient (kd) (unit, 13m-1). for freundlich
   sorption (isothm = 2), sp1 is the freundlich equilibrium constant (kf) (the unit depends on the
   freundlich exponent a). for langmuir sorption (isothm = 3), sp1 is the langmuir equilibrium
   constant (kl) (unit, 13m-1). for dual-domain mass transfer without sorption (isothm = 5), sp1
   is not used, but still must be entered. for dual-domain mass transfer with sorption (isothm =
   6), spl is also the distribution coefficient (kd) (unit, 13m-1). if spl is not specified and
   isothm > 0 then spl is set to 0. (default is none).
sp1 = 0.0
# Sp2 is the second sorption or dual-domain model parameter for the first species. the use of sp2
    depends on the type of sorption or dual-domain model selected. for linear sorption (isothm =
    1), sp2 is read but not used. for freundlich sorption (isothm = 2), sp2 is the freundlich
   exponent a. for langmuir sorption (isothm = 3), sp2 is the total concentration of the sorption
   sites available ( s ) (unit, mm-1). for nonequilibrium sorption (isothm = 4), sp2 is the
   first-order mass transfer rate between the dissolved and sorbed phases (unit, t-1). for
   dual-domain mass transfer (isothm = 5 or 6), sp2 is the first-order mass transfer rate between
   the two domains (unit, t-1). if sp2 is not specified and isothm > 0 then sp2 is set to 0.
   (default is none).
sp2 = 0.0
# Rc1 is the first-order reaction rate for the dissolved (liquid) phase for the first species
   (unit, t-1). rcl is not used ireact = 0. if a dual-domain system is simulated, the reaction
   rates for the liquid phase in the mobile and immobile domains are assumed to be equal. if rc1
   is not specified and ireact > 0 then rcl is set to 0. (default is none).
rc1 = 0.0
# Rc2 is the first-order reaction rate for the sorbed phase for the first species (unit, t-1). rc2
   is not used ireact = 0. if a dual-domain system is simulated, the reaction rates for the sorbed
   phase in the mobile and immobile domains are assumed to be equal. generally, if the reaction is
   radioactive decay, rc2 should be set equal to rc1, while for biodegradation, rc2 may be
   different from rc1. note that rc2 is read but not used, if no sorption is included in the
   simulation. if rc2 is not specified and ireact > 0 then rc2 is set to 0. (default is none).
# Spl is the first sorption parameter for the first species. the use of spl depends on the type of
   sorption selected (the value of isothm). for linear sorption (isothm = 1) and nonequilibrium
   sorption (isothm = 4), spl is the distribution coefficient (kd) (unit, 13m-1). for freundlich
   sorption (isothm = 2), sp1 is the freundlich equilibrium constant (kf) (the unit depends on the
   freundlich exponent a). for langmuir sorption (isothm = 3), spl is the langmuir equilibrium
   constant (kl) (unit, 13m-1). for dual-domain mass transfer without sorption (isothm = 5), spl
   is not used, but still must be entered. for dual-domain mass transfer with sorption (isothm =
   6), spl is also the distribution coefficient (kd) (unit, 13m-1). if spl is not specified and
   isothm > 0 then sp1 is set to 0. (default is none).
sp12 = 0.00020732000120915473
# Sp2 is the second sorption or dual-domain model parameter for the first species. the use of sp2
   depends on the type of sorption or dual-domain model selected. for linear sorption (isothm =
   1), sp2 is read but not used. for freundlich sorption (isothm = 2), sp2 is the freundlich
   exponent a. for langmuir sorption (isothm = 3), sp2 is the total concentration of the sorption
   sites available ( s ) (unit, mm-1). for nonequilibrium sorption (isothm = 4), sp2 is the
   first-order mass transfer rate between the dissolved and sorbed phases (unit, t-1). for
   dual-domain mass transfer (isothm = 5 or 6), sp2 is the first-order mass transfer rate between
   the two domains (unit, t-1). if sp2 is not specified and isothm > 0 then sp2 is set to 0.
   (default is none).
sp22 = 0.0
# Rc1 is the first-order reaction rate for the dissolved (liquid) phase for the first species
   (unit, t-1). rcl is not used ireact = 0. if a dual-domain system is simulated, the reaction
   rates for the liquid phase in the mobile and immobile domains are assumed to be equal. if rc1
   is not specified and ireact > 0 then rc1 is set to 0. (default is none).
rc12 = 0.0
# Rc2 is the first-order reaction rate for the sorbed phase for the first species (unit, t-1). rc2
   is not used ireact = 0. if a dual-domain system is simulated, the reaction rates for the sorbed
   phase in the mobile and immobile domains are assumed to be equal. generally, if the reaction is
   radioactive decay, rc2 should be set equal to rc1, while for biodegradation, rc2 may be
   different from rc1. note that rc2 is read but not used, if no sorption is included in the
   simulation. if rc2 is not specified and ireact > 0 then rc2 is set to 0. (default is none).
rc22 = 0.0
# Srconc is the user-specified initial concentration for the sorbed phase of the first species if
   isothm = 4 (unit, mm-1). note that for equilibrium-controlled sorption, the initial
   concentration for the sorbed phase cannot be specified. srconc is the user-specified initial
   concentration of the first species for the immobile liquid phase if isothm = 5 or 6 (unit,
   m1-3). if srconc is not user-specified and isothm = 4, 5, or 6 then srconc is set to 0.
   (default is none).
srconc2 = 0.0
rct = flopy.mt3d.mtrct.Mt3dRct(model=model, isothm=isothm, ireact=ireact, igetsc=igetsc, rhob=rhob,
```

flopy.seawat

```
In [ ]: \# Name of model. this string will be used to name the seawat input that are created with
        # write_model. (the default is 'swttest')
        modelname = 'BW'
        \# Extension for the namefile (the default is 'nam')
        namefile_ext = 'nam'
        modflowmodel = modflow
        mt3dmodel = mt3d
        # Version of seawat to use (the default is 'seawat').
        version = 'seawat'
        # The name of the executable to use (the default is 'swt_v4.exe').
        exe_name = 'swt_v4'
        structured = True
        # Unit number for the list file (the default is 2).
        listunit = 2
        # Model workspace. directory name to create model data sets. (default is the present working
        # directory).
        model_ws = '.
        # Location for external files (default is none).
        external_path = None
        # Print additional information to the screen (default is false).
        verbose = False
        # (default is true).
        load = True
        # (default is 0)
        silent = 0
        seawat = flopy.seawat.swt.Seawat(modelname=modelname, namefile_ext=namefile_ext,
                                         modflowmodel=modflowmodel, mt3dmodel=mt3dmodel, version=version,
                                         exe_name=exe_name, structured=structured, listunit=listunit,
                                         model_ws=model_ws, external_path=external_path, verbose=verbose,
                                         load=load, silent=silent)
```



```
In [ ]: # The model object (of type :class:`flopy.seawat.swt.seawat`) to which this package will be added.
        model = seawat
        mt3dmuflg = -1
        # Is the minimum fluid viscosity. if the resulting viscosity value calculated with the equation is
           less than viscmin, the viscosity value is set to viscmin. if viscmin = 0, the computed fluid
            viscosity is not limited by viscmin (this is the option to use for most simulations). if
           viscmin > 0, a computed fluid viscosity less than viscmin is automatically reset to viscmin.
        viscmin = 0.0
        # Is the maximum fluid viscosity. if the resulting viscosity value calculated with the equation is
            greater than viscmax, the viscosity value is set to viscmax. if viscmax = 0, the computed fluid
           viscosity is not limited by viscmax (this is the option to use for most simulations). if
           viscmax > 0, a computed fluid viscosity larger than viscmax is automatically reset to viscmax.
        viscmax = 0.0
        # Is the fluid viscosity at the reference concentration and reference temperature. for most
            simulations, viscref is specified as the viscosity of freshwater.
        viscref = 0.001266
        nsmueos = 1
        # Is a flag that specifies the option for including the effect of temperature on fluid viscosity.
            if mutempopt = 0, the effect of temperature on fluid viscosity is not included or is a simple
            linear relation that is specified in item 3c. if mutempopt = 1, fluid viscosity is calculated
            using equation 18. the size of the amucoeff array in item 3e is 4 (muncoeff = 4). if mutempopt
            = 2, fluid viscosity is calculated using equation 19. the size of the amucoeff array in item 3e
           is 5 (muncoeff = 5). if mutempopt = 3, fluid viscosity is calculated using equation 20. the
            size of the amucoeff array in item 3e is 2 (muncoeff = 2). if nsmueos and mutempopt are both
            set to zero, all fluid viscosities are set to viscref.
        mutempopt = 2
        # Is the mt3dms species number corresponding to the adjacent dmudc and cmuref.
        mtmuspec = 1
        # Is the slope of the linear equation that relates fluid viscosity to solute concentration.
        dmudc = 1.923e-06
        # Is the reference concentration.
        cmuref = 0.0
        mtmutempspec = 2
        # Is the coefficient array of size muncoeff. amucoeff is a in equations 18, 19, and 20.
        amucoeff = [0.001, 1.0, 0.015512, -20.0, -1.572]
        # Is a flag. invisc is read only if mt3dmuflg is equal to zero. if invisc < 0, values for the visc
           array will be reused from the previous stress period. if it is the first stress period, values
           for the visc array will be set to viscref. if invisc = 0, values for the visc array will be set
            to viscref. if invisc >= 1, values for the visc array will be read from item 5. if invisc = 2,
           values read for the visc array are assumed to represent solute concentration, and will be
           converted to viscosity values.
        invisc = None
        # Is the fluid viscosity array read for each layer using the modflow-2000 u2drel array reader. the
           visc array is read only if mt3dmuflg is equal to zero. the visc array may also be entered in
            terms of solute concentration (or any other units) if invisc is set to 2, and the simple linear
           expression in item 3 can be used to represent the relation to viscosity.
        vsc = flopy.seawat.swtvsc.SeawatVsc(model=model, mt3dmuflg=mt3dmuflg, viscmin=viscmin,
                                            viscmax=viscmax, viscref=viscref, nsmueos=nsmueos,
                                            mutempopt=mutempopt, mtmuspec=mtmuspec, dmudc=dmudc,
                                            cmuref=cmuref, mtmutempspec=mtmutempspec, amucoeff=amucoeff,
                                            invisc=invisc, visc=visc)
```

Run this thing!

```
In [ ]: seawat.write_input()
# seawat.run_model()
```