

MODFLOW 6 Input and Output Guide

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Structure of Blocks

BEGIN OPTIONS

[LENGTH_UNITS <length_units>]

[NODIRB]

[XORIGIN <xorigin>]

[YORIGIN <yorigin>]

[LANGRT <langrot>]

END OPTIONS

Groundwater Flow (GWF) Model Input 33

BEGIN DIMENSIONS

NLAY <nlay>

NCPL <ncpl>

NVERT <nvert>

END DIMENSIONS

BEGIN GRIDDATA

TOP

<top(ncpl)> -- READARRAY

BOTM (LAYERED)

<botm(nlay, ncpl)> -- READARRAY

[IDOMAIN (LAYERED)]

<idomain(nlay, ncpl)> -- READARRAY

END GRIDDATA

BEGIN VERTICES

<lv <x> <y>

<lv <x> <y>

...

END VERTICES

BEGIN CELLS

<icell12d> <cc> <yc> <acvert> <icvert(nacvert)>

<icell12d> <cc> <yc> <acvert> <icvert(nacvert)>

...

END CELLS

Definition Files

dfn

common.dfn

exg-gwfgwf.dfn

exg-gwfgwt.dfn

gwf-api.dfn

gwf-buy.dfn

gwf-chd.dfn

gwf-csub.dfn

gwf-dis.dfn

gwf-disu.dfn

gwf-disv.dfn

gwf-drn.dfn

gwf-evt.dfn

gwf-evta.dfn

gwf-ghb.dfn

gwf-gnc.dfn

gwf-hfb.dfn

gwf-ic.dfn

gwf-lak.dfn

gwf-maw.dfn

gwf-mvr.dfn

gwf-nam.dfn

gwf-npf.dfn

gwf-oc.dfn

gwf-rch.dfn

gwf-rcha.dfn

gwf-riv.dfn

gwf-sfr.dfn

gwf-sto.dfn

gwf-uzf.dfn

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----- gwf disv options -----

block options

name length_units

type string

reader urword

optional true

longname model length units

description is the length units used for this model. Values can be 'FEET', 'METERS', or 'CENTIMETERS'. If not specified, the default is 'UNKNOWN'.

block options

name nogrb

type keyword

reader urword

optional true

longname do not write binary grid file

description keyword to deactivate writing of the binary grid file.

block options

name xorigin

type double precision

reader urword

optional true

longname x-position origin of the model grid coordinate system

description x-position of the origin used for model grid vertices. This value should be provided in a real-world coordinate system. A default value of zero is assigned if not specified. The value for XORIGIN does not affect the model simulation, but it is

FloPy Python Classes for MODFLOW 6

data

modflow

__init__.py

mfgnc.py

mfgwf.py

mfgwfapi.py

mfgwfbuy.py

mfgwfchd.py

mfgwfcsub.py

mfgwfdis.py

mfgwfdisu.py

mfgwfdisv.py

mfgwfdrn.py

mfgwfevt.py

mfgwfevta.py

mfgwghb.py

mfgwgnc.py

mfgwgf.py

mfgwgt.py

mfgwhfb.py

mfgwic.py

mfgwflak.py

mfgwmaw.py

mfgwmvr.py

mfgwnam.py

mfgwnpf.py

mfgwfoc.py

mfgwfrch.py

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DO NOT MODIFY THIS FILE DIRECTLY. THIS FILE MUST BE CREATED BY

mf6/utils/createpackages.py

FILE created on October 19, 2021 13:36:35 UTC

import ...

class ModflowGwfdisv(mfpackage.MFPackage):

"""

ModflowGwfdisv defines a disv package within a gw6 model.

Parameters

model : MFModel

Model that this package is a part of. Package is automatically added to model when it is initialized.

loading_package : bool

Do not set this parameter. It is intended for debugging and internal processing purposes only.

length_units : string

* length_units (string) is the length units used for this model. Values can be "FEET", "METERS", or "CENTIMETERS". If not specified, the default is "UNKNOWN".

nogrb : boolean

* nogrb (boolean) keyword to deactivate writing of the binary grid file.

xorigin : double

* xorigin (double) x-position of the origin used for model grid