Python: module grads.query

grads.query

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/pcmdi/halliday1/cdat-4.0/lib/python2.4/site-packages/grads/query.py

Modules

MA	__main__	cdtime	types
PropertiedClasses	cdms	string	

Classes

PropertiedClasses.Properties.PropertiedClass
Query

class ***Query***(PropertiedClasses.Properties.PropertiedClass)

Methods defined here:

CdmsObjectId(self, obj)

VariableName(self, obj)

__init__(self)

comptime2DTG(self, obj, opt='dtg')

dim = dims(self, obj, opt=0)

dims(self, obj, opt=0)

```
grads dim query -- list dimension state of a variable

call: dim(obj,[opt])

obj    = variable object
[opt]  = [0] -- print to stdout
opt    = 1   -- return list with output, e.g., dd=q.dims(ps,1

X is varying   Lon = 0 to 360   X = 1 to 73
Y is varying   Lat = -90 to 90   Y = 1 to 46
Z is fixed     Lev = 1000  Z = 1
T is fixed     Time = 00Z02JAN1987  T = 1
```

file(self, obj, opt=0)

```
grads file query
file(obj,'l') to return output as list
otherwise just print to terminal
```

gaprnt(self, str, lstr, opt=0)

getVariableDimensions(self, obj)

isCdmsFile(self, obj)

isCdmsFileVariable(self, obj)

isCdmsMAonly(self, obj)

isCdmsTransientVariable(self, obj)

r(self)

Methods inherited from PropertiedClasses.Properties.PropertiedClass:

__delattr__(self, name)

__getattr__(self, name)

__setattr__(self, name, value)

get_property_d(self, name)

```
Return the 'del' property handler for name that self uses.
Returns None if no handler.
```

get_property_g(self, name)

```
Return the 'get' property handler for name that self uses.
Returns None if no handler.
```

get_property_s(self, name)

```
Return the 'set' property handler for name that self uses.
Returns None if no handler.
```

is_internal_attribute(self, name)

```
If is_internal_attribute(name), name does not use the
property handler. Default version: any name that starts with
```

set_property(self, name, actg=None, acts=None, actd=None, nowrite=None, nodelete=None)

```
Set attribute handlers for  name to methods actg, acts, actd
None means no change for that action.
nowrite = 1 prevents setting this attribute.
    nowrite defaults to 0.
nodelete = 1 prevents deleting this attribute.
    nodelete defaults to 1 unless actd given.
if nowrite and nodelete is None: nodelete = 1
```

Data

Dimensions = ('x', 'y', 'z', 't')
Months = ['jan', 'feb', 'mar', 'apr', 'may', 'jun', 'jul', 'aug', 'sep', 'oct', 'nov', 'dec']
WorldCoorName = {'t': 'Time', 'x': 'Lon', 'y': 'Lat', 'z': 'Lev'}
query = <grads.query.Query instance>