

Package ‘rhdf5client’

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as	<i>coercion for remote array to remote matrix</i>
----	---

Description

coercion for remote array to remote matrix

Coercion method from HSDSMatrix to its superclass HSDSArray

See Also

Other HSDSArray: [HSDSArray](#), [HSDSMatrix](#)

dataset	<i>Find a dataset on source from its name</i>
---------	---

Description

This function is deprecated and will be defunct in the next release.

Usage

```
dataset(h5s, tag)
```

Arguments

h5s	instance of H5S_source
tag	character string identifying a dataset

Value

object of type H5S_dataset

dim	<i>Obtain dimensions of an object of type HSDSArraySeed</i>
-----	---

Description

(required by DelayedArray seed contract) HDF server content is assumed transposed relative to R matrix layout. This anticipates H5 datasets on the server with rows for experimental samples and columns for *-omic features. The Bioconductor SummarizedExperiment requires *-omic features in rows and samples in columns.

Usage

```
## S4 method for signature 'HSDSArraySeed'
dim(x)
```

Arguments

x An object of type HSDSArraySeed

Value

A numeric vector of the dimensions

dim, H5S_ArraySeed-method

HDF Server content is assumed transposed relative to R matrix layout

Description

This function is deprecated and will be defunct in the next release.

Usage

```
## S4 method for signature 'H5S_ArraySeed'
dim(x)
```

Arguments

x instance of H5S_ArraySeed

Value

integer(2) vector of dimensions corresponding to R's layout, assuming 2-d data

dimnames

Obtain names of dimensions for an object of type HSDSArraySeed

Description

(required by DelayedArray seed contract, returns NULL list)

Usage

```
## S4 method for signature 'HSDSArraySeed'
dimnames(x)
```

Arguments

x An object of type HSDSArraySeed

Value

A NULL list of length equal to the array dimensionality

 dimnames,H5S_ArraySeed-method

dimnames not stored with H5S_source as of Jan 2018

Description

This function is deprecated and will be defunct in the next release.

Usage

```
## S4 method for signature 'H5S_ArraySeed'
dimnames(x)
```

Arguments

x instance of H5S_ArraySeed

Value

currently returns list(NULL, NULL) as we do not store dimnames in HDF5

 domains

HSDS server domains accessor

Description

This function is deprecated and will be defunct in the next release.

Usage

```
domains(object, ...)
```

Arguments

object H5S_source instance
 ... not used

Value

a data frame with domains name

Examples

```
## Not run:
hsdsCon = H5S_source(URL_hds()) # hds server connection
setPath(hsdsCon, "/home/stvjc/")-> hsds
domains(hsds)

## End(Not run)
```

dsmeta	<i>list information about datasets available in an H5S_source</i>
--------	---

Description

This function is deprecated and will be defunct in the next release.

Usage

```
dsmeta(src)
```

Arguments

src	H5S_source instance
-----	---------------------

Value

data frame with one row for each group and three columns. The second column has the list of datasets in the group.

Examples

```
## Not run:
bigec2 = H5S_source(URL_h5serv())
dsm <- dsmeta(bigec2)
dst <- unlist(dsm[1,2]) # all dataset candidates in group 1

## End(Not run)
```

extract_array	<i>Access dataset backed by an HSDSArraySeed</i>
---------------	--

Description

Access dataset backed by an HSDSArraySeed

Usage

```
## S4 method for signature 'HSDSArraySeed'
extract_array(x, index)
```

Arguments

x	An object of type HSDSArraySeed
index	A list of numeric vectors to be accessed, one vector for each dimension of the array object. A NULL vector indicates the entire range of indices in that dimension. A zero-length vector indicates no indices in the relevant dimension. (Accordingly, any zero-length vector of indices will result in an empty array being returned.)

Value

An array containing the data elements corresponding to the indices requested

fetchDatasets	<i>fetch datasets of a hdf5 file from the hsd server</i>
---------------	--

Description

This function is deprecated and will be defunct in the next release.

Usage

```
fetchDatasets(object)
```

Arguments

object instance of H5S_source

Value

data.frame with information about the datasets in the file

Examples

```
## Not run:
hsdsCon = H5S_source(URL_hsd()) # hsd server
hsdsCon@folderPath="/home/stvjc/hdf5_mat.h5"
ds = fetchDatasets(hsdsCon)
ds

## End(Not run)
```

getData	<i>extract elements of a one or two-dimensional HSDSDataset</i>
---------	---

Description

Fetch data from a remote dataset

Usage

```
getData(dataset, indices, transfermode)
```

```
## S4 method for signature 'HSDSDataset,character,character'
getData(dataset, indices, transfermode)
```

```
## S4 method for signature 'HSDSDataset,character,missing'
getData(dataset, indices)
```

```
## S4 method for signature 'HSDSDataset,list,character'
```

```

getData(dataset, indices, transfermode)

## S4 method for signature 'HSDSDataset,list,missing'
getData(dataset, indices)

```

Arguments

dataset	An object of type HSDSDataset, the dataset to access.
indices	The indices of the data to fetch
transfermode	Either (default) 'JSON' or 'binary'

Details

The servers require data to be fetched in slices, i.e., in sets of for which the indices of each dimension are of the form start:stop:step. More complex sets of indices will be split into slices and fetched in multiple requests. This is opaque to the user, but may enter into considerations of data access patterns, e.g., for performance-tuning.

Value

an Array containing the data fetched from the server

Examples

```

s <- HSDSSource('http://hdsdshdflab.hdfgroup.org')
f <- HSDSFile(s, '/shared/bioconductor/tenx_full.h5')
d <- HSDSDataset(f, 'newassay001')
x <- getData(d, c('1:4', '1:27998'), transfermode='JSON')
# x <- getData(d, c(1:4, 1:27998), transfermode='JSON') # method missing?
x <- d[1:4,1:27998]

```

getDatasetAttrs	<i>getDatasetAttrs from hsd server</i>
-----------------	--

Description

This function is deprecated and will be defunct in the next release.

Usage

```
getDatasetAttrs(object, duid)
```

Arguments

object	instance of H5S_source(updated object with path to file set)
duid	character string with dataset uuid

Value

list of data obtained

Examples

```
## Not run:
hsdsCon = H5S_source(URL_hds()) # hds server
hsdsCon@folderPath="/home/stvjc/hdf5_mat.h5"
ds = fetchDatasets(hsdsCon)# Pick the ID of the dataset you are interested in
getDatasetAttrs(hsdsCon, "d-a9e4b71c-8ea2-11e8-9306-0242ac120022")

## End(Not run)
```

getDatasetSlice

getDatasetSlice from hds server

Description

This function is deprecated and will be defunct in the next release.

Usage

```
getDatasetSlice(object, dsindex = 1, selectionString, ...)
```

Arguments

object	instance of H5S_source(updated object with path to file set)
dsindex	dataset index
selectionString	character with selectionString
...	unused

Value

list of data obtained

Examples

```
## Not run:
hsdsCon = H5S_source(URL_hds()) # hds server
setPath(hsdsCon, "/home/stvjc/hdf5_mat.h5")-> hds
getDatasetSlice(hds,dsindex=1,selectionString="[1:2,1:5]")

## End(Not run)
```

getDatasetUUIDs *getDatasetUUIDs from hsds server*

Description

This function is deprecated and will be defunct in the next release.

Usage

```
getDatasetUUIDs(object)
```

Arguments

object instance of H5S_source(updated object with path to file set)

Value

character of dataset uuid obtained

Examples

```
## Not run:
hsdsCon = H5S_source(URL_hsds()) # hsds server
setPath(hsdsCon, "/home/stvjc/hdf5_mat.h5")-> hsds
getDatasetUUIDs(hsds)

## End(Not run)
```

getDims *getDims from hsds server*

Description

This function is deprecated and will be defunct in the next release.

Usage

```
getDims(object, duid)
```

Arguments

object instance of H5S_source(updated object with path to file set)
duid character string with dataset uuid

Value

numeric content of dimensions

Examples

```
## Not run:
hsdsCon = H5S_source(URL_hds()) # hds server
setPath(hsdsCon, "/home/stvjc/hdf5_mat.h5")-> hsds
duid <- 'd-a9e4b71c-8ea2-11e8-9306-0242ac120022'
getDims(hsds, duid)

## End(Not run)
```

getHRDF

getHRDF from hds server

Description

This function is deprecated and will be defunct in the next release.

Usage

```
getHRDF(object, duid)
```

Arguments

object	instance of H5S_source(updated object with path to file set)
duid	character string with dataset uuid

Value

DataFrame of data obtained

Examples

```
## Not run:
hsdsCon = H5S_source(URL_hds()) # hds server
hsdsCon@folderPath="/home/stvjc/hdf5_mat.h5"
ds = fetchDatasets(hsdsCon) #Pick the ID of the dataset you are interested in
getHRDF(hsdsCon, "d-a9e4b71c-8ea2-11e8-9306-0242ac120022")

## End(Not run)
```

getReq

list information about server content available in an H5S_source hds instance

Description

This function is deprecated and will be defunct in the next release.

Usage

```
getReq(src)
```

Arguments

src H5S_source instance

Value

data frame with 5 columns for one row for each user's data

groups *HDF5 server data groups accessor*

Description

HDF5 server data groups accessor

Usage

```
groups(object, index, ...)

## S4 method for signature 'H5S_source,missing'
groups(object, index, ...)

## S4 method for signature 'H5S_source,numeric'
groups(object, index, ...)
```

Arguments

object H5S_source instance
This function is deprecated and will be defunct in the next release.

index numeric, if present, extracts metadata about selected group (sequential ordering of groups as returned by server) access for group information for HDF5 server

... not used

Value

a data frame with group name and number of links for each group

Examples

```
## Not run:
bigec2 = H5S_source(URL_h5serv())
groups(bigec2)

## End(Not run)
```

H5S_Array	<i>create H5S_Array instance given url (filepath) and entity (host) name</i>
-----------	--

Description

This function is deprecated and will be defunct in the next release.

Usage

```
H5S_Array(endpoint, filepath, host)
```

Arguments

endpoint	a character(1) URL to port for HDF Server
filepath	path and name of the H5 file
host	a character(1) name of 'host' in server

Value

an instance of [DelayedArray-class](#)

Examples

```
# The true values from yriMulti data element 'banovichSE':
# > assay(banovichSE[c(1:5,329465:329469),c(1:3,63:64)])
#           NA18498  NA18499  NA18501 |  NA18489  NA18909
# cg00000029    0.47339629  1.2943041 -0.8084735 |  0.6708168 -0.86093022
# cg00000165    1.23640861  0.2099817 -0.2683763 |  0.4446088  0.99868231
# cg00000236   -0.22258183  1.6236857 -0.8654838 |  0.1958195 -0.06090929
# cg00000289    0.65720581  0.5527470 -1.8458295 | -0.4618782  0.34934164
# cg00000363   -0.15063083  0.7498020  0.3254333 |  0.7342878  0.12940774
# #-----
# ch.9.98936572R -0.07954958  0.2139431 -0.4719621 |  0.6835012  0.57758798
# ch.9.98937537R  0.04254705  1.0702770  1.7356387 | -0.1531732 -1.52889773
# ch.9.98959675F -1.59253143  0.2982456 -1.1954030 | -1.3703135  0.28974909
# ch.9.98989607R -1.80646652  0.4760022  1.4771808 |  0.9479602  0.49921375
# ch.9.991104F   0.08180195 -0.2434306  1.0281002 | -0.1653721  0.55612215
#
```

H5S_Array-class	<i>extension of DelayedArray for HDF Server content</i>
-----------------	---

Description

extension of DelayedArray for HDF Server content

H5S_ArraySeed-class *H5S_Array for HDF Server content*

Description

H5S_Array for HDF Server content

H5S_dataset *construct H5S_dataset object*

Description

This function is deprecated and will be defunct in the next release.

Slots

source instance of H5S_source instance
 simpleName character string naming dataset
 shapes list including dimension information
 hrefs DataFrame of hrefs as defined in the API
 allatts list of all attributes
 preselect string prepared for select operation in GET
 transfermode default "JSON" or "binary" for binary transfer

H5S_dataset2 *H5S_dataset2 for datasets in hsd server*

Description

This function is deprecated and will be defunct in the next release.

Usage

H5S_dataset2(object, duid)

Arguments

object instance of H5S_source(updated object with path to file set)
 duid character vector with dataset uuid of interest

Value

H5S_dataset object

Examples

```
## Not run:
hsdsCon = H5S_source(URL_hds()) # hsds server
hsdsCon@folderPath="/home/stvjc/hdf5_mat.h5"
ds = fetchDatasets(hsdsCon) #Pick the dataset id of interest
H5S_dataset2(hsdsCon, "d-a9e4b71c-8ea2-11e8-9306-0242ac120022")

## End(Not run)
```

H5S_Matrix-class	<i>extension of DelayedMatrix for HDF Server content</i>
------------------	--

Description

extension of DelayedMatrix for HDF Server content

H5S_source	<i>H5S_source identifies an HDF5/HSDS server and manages some metadata about contents</i>
------------	---

Description

This class is deprecated and will be defunct in the next release.

This function is deprecated and will be defunct in the next release.

Usage

```
H5S_source(serverURL, domain, ...)
```

Arguments

serverURL	a URL for a port for HDF5Server
domain	character string with path to file for HSDS
...	not used

Value

an initialized object of type H5S_source

Slots

serverURL	character string with a URL
dsmeta	DataFrame instance with metadata about content of h5serv server
dmains	DataFrame instance with metadata about the content of hsds server
getReq	DataFrame instance with metadata about hsds server
folderPath	character string with path to user's folder/file on hsds server

Note

The `dsmeta` slot holds a `DataFrame` with a column `dsnames` that is a list with `ith` element a character vector of all `dsnames` available for the `ith` group. There is no effort at present to search all groups for candidate datasets.

If the domain for the HSDS server is known, pass the domain path as a character string along with the `serverURL`

Examples

```
## Not run:
bigec2 = H5S_source(URL_h5serv()) # h5serv
bigec2
dsmeta(bigec2)[1:2,]          # two groups
dsmeta(bigec2)[1,2][[1]]     # all dataset candidates in group 1
hsdsCon = H5S_source(URL_hds()) # hsds server connection
hsdsCon
getReq(hsdsCon)
setPath(hsdsCon, "/home/stvjc/hdf5_mat.h5") -> hsds
fetchDatasets(hsds)         # grab the dataset id of interest
H5S_dataset2(hsds, "d-a9e4b71c-8ea2-11e8-9306-0242ac120022")

## End(Not run)
```

HSDSArray

A DelayedArray backend for accessing a remote HDF5 server.

Description

A `DelayedArray` backend for accessing a remote HDF5 server.

Construct an object of type `HSDSArray` directly from the data members of its seed

Usage

```
HSDSArray(endpoint, svrtype, domain, dsetname)
```

Arguments

<code>endpoint</code>	URL of remote server
<code>svrtype</code>	type of server, must be either 'hsds' or 'h5serv'
<code>domain</code>	HDF5 domain of H5 file on server
<code>dsetname</code>	complete internal path to dataset in H5 file

Value

An initialized object of type `HSDSArray`

See Also

Other `HSDSArray`: [HSDSMatrix](#), [as\(\)](#)

Examples

```
HSDSArray(URL_hsd(),
          "hsds", "/shared/bioconductor/darmgcls.h5", "/assay001")
```

HSDSArraySeed

HSDSArraySeed for HSDSArray backend to DelayedArray

Description

HSDSArraySeed for HSDSArray backend to DelayedArray

Construct an object of type HSDSArraySeed

Usage

```
HSDSArraySeed(endpoint, svrtype, domain, dsetname)
```

Arguments

endpoint	URL of remote server
svrtype	type of server, must be either 'hsds' or 'h5serv'
domain	HDF5 domain of H5 file on server
dsetname	complete internal path to dataset in H5 file

Value

An initialized object of type HSDSArraySeed

Slots

endpoint	URL of remote server
svrtype	type of server, must be either 'hsds' or 'h5serv'
domain	HDF5 domain of H5 file on server
dsetname	complete internal path to dataset in H5 file
dataset	object of type HSDSDataset for access to the H5 dataset

HSDSDataset	<i>Construct an object of type HSDSDataset A HSDSDataset is a representation of a dataset in a HDF5 file.</i>
-------------	---

Description

Construct an object of type HSDSDataset A HSDSDataset is a representation of a dataset in a HDF5 file.

Usage

```
HSDSDataset(file, path)
```

Arguments

file	An object of type HSDSFile which hosts the dataset
path	The complete intrafile path to the dataset

Value

An initialized object of type HSDSDataset

Examples

```
src <- HSDSSource('http://hdsdhdf1ab.hdfgroup.org')
f <- HSDSFile(src, '/home/spollack/testzero.h5')
d <- HSDSDataset(f, '/grpA/grpAB/dsetX')
```

HSDSDataset-class	<i>An S4 class to represent a dataset in a HDF5 file.</i>
-------------------	---

Description

An S4 class to represent a dataset in a HDF5 file.

Slots

file	An object of type HSDSFile; the file in which the dataset is resident.
path	The dataset's path in the internal HDF5 hierarchy.
uuid	The unique unit ID by which the dataset is accessed in the server database system.
shape	The dimensions of the dataset
type	The dataset's HDF5 datatype

HSDSFile	<i>Construct an object of type HSDSFile</i>
----------	---

Description

A HSDSFile is a representation of an HDF5 file the contents of which are accessible exposed by a HDF5 server.

Usage

```
HSDSFile(src, domain)
```

Arguments

src	an object of type HSDSSource, the server which exposes the file
domain	the domain string; the file's location on the server's file system.

Details

This function is deprecated and will be defunct in the next release.

Value

an initialized object of type HSDSFile

Examples

```
src <- HSDSSource('http://hdsdshflab.hdfgroup.org')
f10x <- HSDSFile(src, '/shared/bioconductor/tenx_full.h5')
```

HSDSFile-class	<i>An S4 class to represent an HDF5 file accessible from a server.</i>
----------------	--

Description

An S4 class to represent an HDF5 file accessible from a server.

Slots

HSDSSource	an object of type HSDSSource
domain	the file's domain on the server; more or less, an alias for its location in the external server file system
dsetdf	a data.frame that caches often-used information about the file

hsdsInfo *HSDS server get request accessor*

Description

This function is deprecated and will be defunct in the next release.

Usage

```
hsdsInfo(object)
```

Arguments

object H5S_source instance

Value

a data frame with response

Examples

```
## Not run:  
hsdsCon = H5S_source(URL_hsdS()) # hsdS server connection  
hsdsInfo(hsdsCon)  
  
## End(Not run)
```

HSDSMatrix *DelayedMatrix subclass for a two-dimensional HSDSArray*

Description

DelayedMatrix subclass for a two-dimensional HSDSArray

See Also

Other HSDSArray: [HSDSArray](#), [as\(\)](#)

HSDSSource	<i>Construct an object of type HSDSSource.</i>
------------	--

Description

A HSDSSource is a representation of a URL which provides access to a HDF5 server (either h5serv or hds.)

Usage

```
HSDSSource(endpoint, type = "hds")
```

Arguments

endpoint	URL for server
type	Type of server software at the source; must be

Details

This function is deprecated and will be defunct in the next release.

Value

An object of type HSDSSource

Examples

```
src.hds <- HSDSSource('http://hds.hdfgroup.org')
```

HSDSSource-class	<i>An S4 class to represent a HDF5 server listening on a port.</i>
------------------	--

Description

This class is deprecated and will be defunct in the next release.

Slots

endpoint	URL for server
type	Type of server software at the source; must be either 'h5serv' or (default) 'hds'

HSDS_Matrix	<i>simplify construction of DelayedMatrix from url and path in HSDS</i>
-------------	---

Description

This class is deprecated and will be defunct in the next release.

Usage

```
HSDS_Matrix(url, path, title)
```

Arguments

url	character(1) URL for HSDS object store with port
path	character(1) path from root defining HDF Cloud resource
title	character(1) name of dataset to use

Value

instance of DelayedArray

Examples

```
## Not run:
HSDS_Matrix(URL_hsd(), "/shared/bioconductor/darmgcls.h5")

## End(Not run)
```

HSDS_Matrix_OLD	<i>simplify construction of DelayedMatrix from url and path in HSDS</i>
-----------------	---

Description

This class is deprecated and will be defunct in the next release.

Usage

```
HSDS_Matrix_OLD(url, path)
```

Arguments

url	character(1) URL for HSDS object store with port
path	character(1) path from root defining HDF Cloud resource

Value

instance of DelayedArray

Examples

```
## Not run:
HSDS_Matrix

## End(Not run)
```

internalDim	<i>acquire internal HDF5 dimension information for matrix</i>
-------------	---

Description

This function is deprecated and will be defunct in the next release.

Usage

```
internalDim(h5d)
```

Arguments

h5d instance of H5S_dataset

Value

vector with dimensions of dataset

Examples

```
## Not run:
bigec2 = H5S_source(URL_h5serv())
tex <- bigec2[["tenx_100k_sorted"]]
internalDim(tex)

## End(Not run)
```

isplit	<i>This function is deprecated and will be defunct in the next release.</i>
--------	---

Description

isplit converts a numeric vector into a list of sequences for compact reexpression

Usage

```
isplit(x)

sproc(spl)
```

Arguments

x a numeric vector (should be integers)
spl output of isplit

Value

list of vectors of integers which can be expressed as initial/final/stride triplets

list of colon-delimited strings each with initial/final/stride triplet

Examples

```
inds = c(1:10, seq(25,50,2), seq(200,150,-2))
sproc(isplit(inds))
```

links	<i>access for link metadata for HDF5 server groups</i>
-------	--

Description

This function is deprecated and will be defunct in the next release.

Usage

```
links(object, index, ...)
```

Arguments

object	H5S_source instance
index	numeric group index
...	not used

Value

an object of type H5S_linkset with the linkset of the group

Examples

```
## Not run:
bigec2 = H5S_source(URL_h5serv())
lks <- links(bigec2, 1) # linkset for root group
urls <- targets(lks)   # URLs of datasets in linkset

## End(Not run)
```

listDatasets	<i>Search inner file hierarchy for datasets</i>
--------------	---

Description

The datasets in an HDF5 file are organized internally by groups. This routine traverses the internal group hierarchy, locates all datasets and prints a list of them. Note that if the file's group hierarchy is complex, this could be time-consuming.

Usage

```
listDatasets(file)
```

Arguments

file an object of type HSDSFile to be searched

Details

This function is deprecated and will be defunct in the next release.

Value

a list of inner-paths

Examples

```
src <- HSDSSource('http://hdsdhdf1ab.hdfgroup.org')
f <- HSDSFile(src, '/home/spollack/testzero.h5')
listDatasets(f)
```

listDomains	<i>List files and subdirectories of a domain</i>
-------------	--

Description

The user needs to give the domain to start in. The search will be non-recursive. I.e., output for domain '/home/jreadey/' will not return the files in '/home/jreadey/HDFLabTutorial/'

Usage

```
listDomains(object, rootdir)

## S4 method for signature 'HSDSSource,character'
listDomains(object, rootdir)

## S4 method for signature 'HSDSSource,missing'
listDomains(object)
```

Arguments

object An object of type HSDSSource
 rootdir A slash-separated directory in the HSDSSource file system.

Details

This function is deprecated and will be defunct in the next release.

Value

a vector of domains in the rootdir

Examples

```
src.hsds <- HSDSSource('http://hsdshdf1lab.hdfgroup.org')
src.chan <- HSDSSource('http://h5s.channingremotedata.org:5000', 'h5serv')
listDomains(src.chan)
listDomains(src.hsds, '/home/jreadey')
```

rhdf5client	<i>rhdf5client: A package for accessing HDFGroup HDF5 servers from R.</i>
-------------	---

Description

The rhdf5client package provides read-only access to HDF5 files maintained on a server. The HDFGroup provides two servers, an obsolescent one called 'h5serv' and the newer prototype called 'hsds'.

rhdf5client-deprecated	<i>Deprecated functions in package 'rhdf5client'</i>
------------------------	--

Description

These functions are provided for compatibility with older versions of 'rhdf5client' only, and will be defunct at the next release.

Details

The following functions are deprecated and will be made defunct in the next release:

- URL_h5serv
- URL_hsds
- dsmeta
- getReq
- groups
- setPath

- links
- transfermode
- dataset
- internalDim
- hsdsInfo
- domains
- getDatasetUUIDs
- getDatasetAttrs
- getDims
- getHRDF
- H5S_dataset2
- getDatasetSlice
- fetchDatasets
- isplit
- sproc
- listDomains
- listDatasets
- getData

The following classes are deprecated and will be made defunct in the next release:

- H5S_source
- H5S_dataset
- H5S_Array
- H5S_Matrix
- HSDSSource
- HSDSFile
- HSDSDataset

setPath	<i>set path for hsds server resource</i>
---------	--

Description

This function is deprecated and will be defunct in the next release.

Usage

```
setPath(object, folderPath, ...)
```

Arguments

object	H5S_source instance
folderPath	character string with path to user's folder on hsds server
...	not used

Value

an updated object with folderPath set

Examples

```
## Not run:
hsdsCon = H5S_source(URL_hds()) # hsds server connection
setPath(hsdsCon, "/home/stvjc/hdf5_mat.h5")-> hsds

## End(Not run)
```

targets	<i>provide the full URLs for link members</i>
---------	---

Description

This function is deprecated and will be defunct in the next release.

Usage

```
targets(h5linkset, index)
```

Arguments

h5linkset	instance of H5S_linkset
index	numeric index into link vector - ignored

Value

a vector of dataset tags

Examples

```
## Not run:
bigec2 = H5S_source(URL_h5serv())
lks <- links(bigec2, 1) # linkset for root group
urls <- targets(lks)   # URLs of datasets in linkset

## End(Not run)
```

transfermode<-	<i>replace transfer mode</i>
----------------	------------------------------

Description

This function is deprecated and will be defunct in the next release.

Usage

```
transfermode(object) <- value
```

Arguments

object	instance of H5S_linkset
value	either "JSON" (default) or "binary"

Value

updated object of type H5S_dataset

URL_h5serv	<i>manage h5serv URL</i>
------------	--------------------------

Description

This function is deprecated and will be defunct in the next release.

Usage

```
URL_h5serv()
```

Value

URL of h5serv server

Examples

```
URL_h5serv()
```

URL_hsts	<i>manage hsts URL</i>
----------	------------------------

Description

manage hsts URL

Usage

URL_hsts()

Value

URL of hsts server

Examples

URL_hsts()

[,H5S_dataset,character,character,ANY-method	<i>extract elements from H5S_dataset</i>
--	--

Description

extract elements from H5S_dataset

Usage

```
## S4 method for signature 'H5S_dataset,character,character,ANY'
x[i, j, ..., drop = FALSE]
```

Arguments

x	instance of H5S_dataset
i	character vector of row selections
j	character vector of column selections
...	not used
drop	logical(1) set TRUE to drop array character

```
[,H5S_dataset,numeric,numeric,ANY-method
      extract elements from H5S_dataset
```

Description

This function is deprecated and will be defunct in the next release.

Usage

```
## S4 method for signature 'H5S_dataset,numeric,numeric,ANY'
x[i, j, ..., drop = FALSE]
```

Arguments

x	instance of H5S_dataset
i	select option for first matrix index in HDF5 server value API
j	select option for second matrix index in HDF5 server value API
...	unused
drop	logical defaults to FALSE

Value

matrix of data obtained

```
[,HSDSDataset,numeric,ANY,ANY-method
      bracket method for 1d request from HSDSDataset
```

Description

bracket method for 1d request from HSDSDataset

Usage

```
## S4 method for signature 'HSDSDataset,numeric,ANY,ANY'
x[i, j, ..., drop = TRUE]
```

Arguments

x	object of type HSDSDataset
i	vector of indices (first dimension)
j	not used
...	not used
drop	logical(1) if TRUE return has no array character

Value

an array with the elements requested from the HSDSDataset

```
[,HSDSDataset,numeric,numeric,ANY-method
    bracket method for 2d request from HSDSDataset
```

Description

bracket method for 2d request from HSDSDataset

Usage

```
## S4 method for signature 'HSDSDataset,numeric,numeric,ANY'
x[i, j, ..., drop = TRUE]
```

Arguments

x	object of type HSDSDataset
i	vector of indices (first dimension)
j	vector of indices (second dimension)
...	not used
drop	logical(1) if TRUE return has no array character

Value

an array with the elements requested from the HSDSDataset

```
[[
    Subscript operator
```

Description

This function is deprecated and will be defunct in the next release.

Usage

```
## S4 method for signature 'H5S_source,character'
x[[i, j]]
```

Arguments

x	instance of H5S_source
i	character string intended to identify dataset on server
j	not used

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