

Package ‘ROpenFLUID’

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Type Package

Title R Interface to OpenFLUID Platform Framework for Modelling and Simulation of Landscapes

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Description Provides a collection of functions to load, parameterize, run and analyze OpenFLUID simulations within the GNU R environment.

URL <http://www.openfluid-project.org>

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Depends R (>= 2.6.2)

Suggests RUnit

LazyLoad yes

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OpenFLUID.addExtraObserversPaths

Adds paths to search for observers

Description

Adds paths to search for observers

Usage

OpenFLUID.addExtraObserversPaths(paths)

Arguments

paths the colon separated paths to add

See Also

```
OpenFLUID.getObserversPaths  
OpenFLUID.getExtraObserversPaths  
OpenFLUID.resetExtraObserversPaths
```

Examples

```
## Not run:  
OpenFLUID.addExtraObserversPaths("/first/path")  
OpenFLUID.addExtraObserversPaths("/second/path:/third/path") ## on unix system  
OpenFLUID.addExtraObserversPaths("/second/path;/third/path") ## on windows system  
OpenFLUID.addExtraObserversPaths(c("/fourth/path", "/fifth/path"))  
  
## End (Not run)
```

```
OpenFLUID.addExtraSimulatorsPaths  
Adds paths to search for simulators
```

Description

Adds paths to search for simulators

Usage

```
OpenFLUID.addExtraSimulatorsPaths(paths)
```

Arguments

paths the colon separated paths to add

See Also

```
OpenFLUID.getSimulatorsPaths  
OpenFLUID.getExtraSimulatorsPaths  
OpenFLUID.resetExtraSimulatorsPaths
```

Examples

```
## Not run:  
OpenFLUID.addExtraSimulatorsPaths("/first/path")  
OpenFLUID.addExtraSimulatorsPaths("/second/path:/third/path") ## on unix system  
OpenFLUID.addExtraSimulatorsPaths("/second/path;/third/path") ## on windows system  
OpenFLUID.addExtraSimulatorsPaths(c("/fourth/path", "/fifth/path"))  
  
## End (Not run)
```

```
OpenFLUID.addVariablesExportAsCSV
```

Adds export of simulation variables as CSV files for a given units class

Description

Adds export of simulation variables as CSV files for a given units class

Usage

```
OpenFLUID.addVariablesExportAsCSV(ofblob, unitclass, unitid = NULL,
    varname = "*", precision = 0)
```

Arguments

<code>ofblob</code>	the simulation definition blob
<code>unitclass</code>	the units class to add for simulation variables export
<code>unitid</code>	the unit ID (optional)
<code>varname</code>	the name of the variable(s) (optional)
<code>precision</code>	the number of digits of the variables (optional)

See Also

`OpenFLUID.loadResult`

Examples

```
## Not run:
OpenFLUID.addVariablesExportAsCSV(ofsim, "TU")
OpenFLUID.addVariablesExportAsCSV(ofsim, "TU", 1, "var1", precision=14)
OpenFLUID.addVariablesExportAsCSV(ofsim, "TU", 2, "var1;var2")
OpenFLUID.addVariablesExportAsCSV(ofsim, "TU", 2, c("var1", "var2"))
OpenFLUID.addVariablesExportAsCSV(ofsim, "TU", c(3, 5), c("var1", "var2"))
OpenFLUID.addVariablesExportAsCSV(ofsim, "TU", 1, "*")

## End(Not run)
```

```
OpenFLUID.createAttribute
```

Creates an attribute for all spatial units of a class, initialized with a default value

Description

Creates an attribute for all spatial units of a class, initialized with a default value

Usage

```
OpenFLUID.createAttribute(ofblob, unitclass, attrname, attrval)
```

Arguments

ofblob	the simulation definition blob
unitclass	the unit class
attrname	the attribute name
attrval	the default attribute value for alla units

See Also

```
OpenFLUID.getAttribute  
OpenFLUID.setAttribute  
OpenFLUID.removeAttribute
```

Examples

```
## Not run:  
OpenFLUID.createAttribute(ofsim, "SU", "area", 1.0)  
OpenFLUID.createAttribute(ofsim, "SU", "code", "NONE")  
  
## End(Not run)
```

```
OpenFLUID.getAttribute
```

Returns an attribute value for a given spatial unit

Description

Returns an attribute value for a given spatial unit

Usage

```
OpenFLUID.getAttribute(ofblob, unitclass, unitid, attrname)
```

Arguments

ofblob	the simulation definition blob
unitclass	the unit class
unitid	the unit ID
attrname	the name of the attribute

Value

the attribute value

See Also

```
OpenFLUID.createAttribute  
OpenFLUID.setAttribute  
OpenFLUID.removeAttribute
```

Examples

```
## Not run:  
val = OpenFLUID.getAttribute(ofsim, "SU", 18, "length")  
  
## End(Not run)
```

```
OpenFLUID.getDefaultDeltaT
```

Returns the simulation time step

Description

Returns the simulation time step

Usage

```
OpenFLUID.getDefaultDeltaT(ofblob)
```

Arguments

ofblob	the simulation definition blob
--------	--------------------------------

Value

the time step value in seconds

See Also

OpenFLUID.setDefaultDeltaT

Examples

```
## Not run:  
deltat = OpenFLUID.getDefaultDeltaT(ofsim)  
  
## End(Not run)
```

OpenFLUID.getExtraObserversPaths

Returns the added paths to search for observers

Description

Returns the added paths to search for observers

Usage

```
OpenFLUID.getExtraObserversPaths()
```

Value

a vector of paths

See Also

OpenFLUID.addExtraObserversPaths

OpenFLUID.getObserversPaths

OpenFLUID.resetExtraObserversPaths

Examples

```
## Not run:  
paths = OpenFLUID.getExtraObserversPaths()  
  
## End(Not run)
```

```
OpenFLUID.getExtraSimulatorsPaths
```

Returns the added paths to search for simulators

Description

Returns the added paths to search for simulators

Usage

```
OpenFLUID.getExtraSimulatorsPaths()
```

Value

a vector of paths

See Also

```
OpenFLUID.addExtraSimulatorsPaths
```

```
OpenFLUID.getSimulatorsPaths
```

```
OpenFLUID.resetExtraSimulatorsPaths
```

Examples

```
## Not run:  
paths = OpenFLUID.getExtraSimulatorsPaths()  
  
## End(Not run)
```

```
OpenFLUID.getGeneratorParam
```

Returns a generator parameter value

Description

Returns a generator parameter value

Usage

```
OpenFLUID.getGeneratorParam(ofblob, unitclass, varname, paramname)
```


Arguments

ofblob	the simulation definition blob
unitclass	the unit class to which the generator is applied
varname	the variable name to which the generator is applied
paramname	the name of the parameter

Value

the parameter value

See Also

OpenFLUID.setGeneratorParam

Examples

```
## Not run:  
val = OpenFLUID.getGeneratorParam(ofsim, "SU", "var.flux", "fixedvalue")  
  
## End(Not run)
```

OpenFLUID.getModelGlobalParam

Returns a model global parameter value

Description

Returns a model global parameter value

Usage

```
OpenFLUID.getModelGlobalParam(ofblob, paramname)
```

Arguments

ofblob	the simulation definition blob
paramname	the name of the parameter

Value

the parameter value

See Also

OpenFLUID.setModelGlobalParam
OpenFLUID.removeModelGlobalParam

Examples

```
## Not run:  
val = OpenFLUID.getModelGlobalParam(ofsim, "gvalue")  
  
## End(Not run)
```

OpenFLUID.getObserverParam

Returns an observer parameter value

Description

Returns an observer parameter value

Usage

```
OpenFLUID.getObserverParam(ofblob, obsid, paramname)
```

Arguments

ofblob	the simulation definition blob
obsid	the observer ID
paramname	the name of the parameter

Value

the parameter value

See Also

```
OpenFLUID.setObserverParam  
OpenFLUID.removeObserverParam
```

Examples

```
## Not run:  
val = OpenFLUID.getObserverParam(ofsim, "my.observer", "value")  
  
## End(Not run)
```

```
OpenFLUID.getObserversPaths
```

Returns the paths to search for observers

Description

Returns the paths to search for observers

Usage

```
OpenFLUID.getObserversPaths ()
```

Value

a vector of paths

See Also

```
OpenFLUID.addExtraObserversPaths  
OpenFLUID.getExtraObserversPaths  
OpenFLUID.resetExtraObserversPaths
```

Examples

```
## Not run:  
paths = OpenFLUID.getObserversPaths ()  
  
## End (Not run)
```

```
OpenFLUID.getPeriodBeginDate
```

Returns the simulation period begin date

Description

Returns the simulation period begin date

Usage

```
OpenFLUID.getPeriodBeginDate (ofblob)
```

Arguments

ofblob the simulation definition blob

Value

the begin date as an ISO datetime string (%Y-%m-%d %H:%M:%S)

See Also

OpenFLUID.setPeriodBeginDate

OpenFLUID.getPeriodEndDate

OpenFLUID.setPeriodEndDate

Examples

```
## Not run:
bdate = OpenFLUID.getPeriodBeginDate(ofsim)

## End (Not run)
```

```
OpenFLUID.getPeriodEndDate
```

Returns the simulation period end date

Description

Returns the simulation period end date

Usage

```
OpenFLUID.getPeriodEndDate(ofblob)
```

Arguments

ofblob the simulation definition blob

Value

the end date as an ISO datetime string (%Y-%m-%d %H:%M:%S)

See Also

OpenFLUID.setPeriodEndDate

OpenFLUID.getPeriodBeginDate

OpenFLUID.setPeriodBeginDate

Examples

```
## Not run:  
edate = OpenFLUID.getPeriodEndDate(ofsim)  
  
## End(Not run)
```

```
OpenFLUID.getSimulatorParam
```

Returns a simulator parameter value

Description

Returns a simulator parameter value

Usage

```
OpenFLUID.getSimulatorParam(ofblob, simid, paramname)
```

Arguments

ofblob	the simulation definition blob
simid	the simulator ID
paramname	the name of the parameter

Value

the parameter value

See Also

```
OpenFLUID.setSimulatorParam  
OpenFLUID.removeSimulatorParam
```

Examples

```
## Not run:  
val = OpenFLUID.getSimulatorParam(ofsim, "my.simulator", "coeff")  
  
## End(Not run)
```

```
OpenFLUID.getSimulatorsPaths
```

Returns the paths to search for simulators

Description

Returns the paths to search for simulators

Usage

```
OpenFLUID.getSimulatorsPaths()
```

Value

a vector of paths

See Also

```
OpenFLUID.addExtraSimulatorsPaths
```

```
OpenFLUID.getExtraSimulatorsPaths
```

```
OpenFLUID.resetExtraSimulatorsPaths
```

Examples

```
## Not run:  
paths = OpenFLUID.getSimulatorsPaths()  
  
## End(Not run)
```

```
OpenFLUID.getUnitsClasses
```

Returns the existing units classes

Description

Returns the existing units classes

Usage

```
OpenFLUID.getUnitsClasses(ofblob)
```

Arguments

ofblob the simulation definition blob

Value

a vector of units classes

See Also

OpenFLUID.getUnitsIDs

Examples

```
## Not run:  
cls = OpenFLUID.getUnitsClasses(ofsim)  
  
## End(Not run)
```

OpenFLUID.getUnitsIDs

Returns the existing units IDs for a given units class

Description

Returns the existing units IDs for a given units class

Usage

```
OpenFLUID.getUnitsIDs(ofblob, unitclass)
```

Arguments

ofblob	the simulation definition blob
unitclass	the units class

Value

a vector of units IDs

See Also

OpenFLUID.getUnitsClasses

Examples

```
## Not run:  
ids = OpenFLUID.getUnitsIDs(ofsim, "SU")  
  
## End(Not run)
```

```
OpenFLUID.getVersion
```

Returns the OpenFLUID version

Description

Returns the OpenFLUID version

Usage

```
OpenFLUID.getVersion()
```

Value

the OpenFLUID version number

Examples

```
## Not run:  
v = OpenFLUID.getVersion()  
  
## End(Not run)
```

```
OpenFLUID.loadResult
```

Loads results as a dataframe, giving dataset informations

Description

Loads results as a dataframe, giving dataset informations

Usage

```
OpenFLUID.loadResult(ofblob, unitclass, unitid, varname)
```

Arguments

ofblob	the simulation definition blob
unitclass	the unit class
unitid	the unit ID
varname	the variable name

Value

a dataframe containing the simulation results

See Also

OpenFLUID.loadResultFile

Examples

```
## Not run:
resSU18 = OpenFLUID.loadResult(ofsim, "SU", 18, "runoff")
resRS1 = OpenFLUID.loadResult(ofsim, "RS", 1, "waterlevel")

## End(Not run)
```

OpenFLUID.loadResultFile

Loads results as a dataframe, giving output file name

Description

Loads results as a dataframe, giving output file name

Usage

```
OpenFLUID.loadResultFile(filepath)
```

Arguments

filepath the full path of file to load

Value

a dataframe containing the simulation results

See Also

OpenFLUID.loadResult

Examples

```
## Not run:
resSU18 = OpenFLUID.loadResultFile("/path/to/output/SU18_full.out")
resRS1 = OpenFLUID.loadResultFile("/path/to/output/RS1_waterlevel.out")

## End(Not run)
```

OpenFLUID.openDataset

Opens a dataset and returns a simulation definition blob

Description

Opens a dataset and returns a simulation definition blob

Usage

```
OpenFLUID.openDataset (path)
```

Arguments

path the full path of the dataset to open

Value

a simulation definition blob

See Also

OpenFLUID.openProject

OpenFLUID.runSimulation

Examples

```
## Not run:  
ofsim = OpenFLUID.openDataset("/path/to/dataset")  
  
## End(Not run)
```

OpenFLUID.openProject

Opens a project and returns a simulation definition blob

Description

Opens a project and returns a simulation definition blob

Usage

```
OpenFLUID.openProject (path)
```

Arguments

path the full project to open

Value

a simulation definition blob

See Also

OpenFLUID.openDataset

OpenFLUID.runProject

Examples

```
## Not run:
ofsim = OpenFLUID.openProject("/path/to/project")

## End(Not run)
```

```
OpenFLUID.printSimulationInfo
```

Prints informations to screen about simulation definition blob

Description

Prints informations to screen about simulation definition blob

Usage

```
OpenFLUID.printSimulationInfo(ofblob)
```

Arguments

ofblob the simulation definition blob

Examples

```
## Not run:
OpenFLUID.printSimulationInfo(ofsim)

## End(Not run)
```

OpenFLUID.removeAttribute

Removes an attribute value for a given spatial unit

Description

Removes an attribute value for a given spatial unit

Usage

```
OpenFLUID.removeAttribute(ofblob, unitclass, attrname)
```

Arguments

ofblob	the simulation definition blob
unitclass	the unit class
attrname	the name of the attribute

See Also

OpenFLUID.createAttribute

OpenFLUID.getAttribute

OpenFLUID.setAttribute

Examples

```
## Not run:  
OpenFLUID.removeAttribute(ofsim, "SU", "length")  
  
## End(Not run)
```

OpenFLUID.removeModelGlobalParam

Removes a model global parameter value

Description

Removes a model global parameter value

Usage

```
OpenFLUID.removeModelGlobalParam(ofblob, paramname)
```

Arguments

ofblob	the simulation definition blob
paramname	the name of the parameter

See Also

OpenFLUID.getModelGlobalParam
 OpenFLUID.setModelGlobalParam

Examples

```
## Not run:
OpenFLUID.removeModelGlobalParam(ofsim, "gvalue")

## End (Not run)
```

```
OpenFLUID.removeObserverParam
Removes a observer parameter
```

Description

Removes a observer parameter

Usage

```
OpenFLUID.removeObserverParam(ofblob, obsid, paramname)
```

Arguments

ofblob	the simulation definition blob
obsid	the simulation observer id
paramname	the name of the parameter

See Also

OpenFLUID.getObserverParam
 OpenFLUID.setObserverParam

Examples

```
## Not run:
OpenFLUID.removeObserverParam(ofsim, "my.observer", "value")

## End (Not run)
```

```
OpenFLUID.removeSimulatorParam  
Removes a simulator parameter
```

Description

Removes a simulator parameter

Usage

```
OpenFLUID.removeSimulatorParam(ofblob, simid, paramname)
```

Arguments

ofblob	the simulation definition blob
simid	the simulation simulator id
paramname	the name of the parameter

See Also

```
OpenFLUID.getSimulatorParam  
OpenFLUID.setSimulatorParam
```

Examples

```
## Not run:  
OpenFLUID.removeSimulatorParam(ofsim, "my.simulator", "coeff")  
  
## End (Not run)
```

```
OpenFLUID.resetExtraObserversPaths  
Resets list of added paths to search for observers
```

Description

Resets list of added paths to search for observers

Usage

```
OpenFLUID.resetExtraObserversPaths()
```

See Also

```
OpenFLUID.addExtraObserversPaths  
OpenFLUID.getObserversPaths  
OpenFLUID.getExtraObserversPaths
```

Examples

```
## Not run:  
OpenFLUID.resetExtraObserversPaths()  
  
## End(Not run)
```

```
OpenFLUID.resetExtraSimulatorsPaths
```

Resets list of added paths to search for simulators

Description

Resets list of added paths to search for simulators

Usage

```
OpenFLUID.resetExtraSimulatorsPaths()
```

See Also

```
OpenFLUID.addExtraSimulatorsPaths  
OpenFLUID.getSimulatorsPaths  
OpenFLUID.getExtraSimulatorsPaths
```

Examples

```
## Not run:  
OpenFLUID.resetExtraSimulatorsPaths()  
  
## End(Not run)
```

OpenFLUID.runProject

Runs a project and returns a simulation definition blob

Description

Runs a project and returns a simulation definition blob

Usage

```
OpenFLUID.runProject(path, verbose = FALSE)
```

Arguments

path	the full path of the dataset to open
verbose	enable/disable verbose mode

Value

a simulation definition blob

See Also

OpenFLUID.runSimulation

OpenFLUID.openProject

Examples

```
## Not run:  
ofsim = OpenFLUID.runProject("/path/to/dataset")  
ofsim = OpenFLUID.runProject("/path/to/dataset", verbose=TRUE)  
  
## End(Not run)
```

OpenFLUID.runSimulation

Runs a simulation from a simulation definition blob

Description

Runs a simulation from a simulation definition blob

Usage

```
OpenFLUID.runSimulation(ofblob, verbose = FALSE)
```


Arguments

ofblob	the simulation definition blob
verbose	enable/disable verbose mode

See Also

OpenFLUID.runProject
 OpenFLUID.openProject
 OpenFLUID.openDataset

Examples

```
## Not run:
OpenFLUID.runSimulation(ofsim)
OpenFLUID.runSimulation(ofsim, verbose=TRUE)

## End(Not run)
```

OpenFLUID.setAttribute

Sets an attribute value for a given spatial unit

Description

Sets an attribute value for a given spatial unit

Usage

```
OpenFLUID.setAttribute(ofblob, unitclass, unitid, attrname, attrval)
```

Arguments

ofblob	the simulation definition blob
unitclass	the unit class
unitid	the unit ID
attrname	the name of the attribute
attrval	the value of the attribute

See Also

OpenFLUID.createAttribute
 OpenFLUID.getAttribute
 OpenFLUID.removeAttribute

Examples

```
## Not run:
OpenFLUID.setAttribute(ofsim, "SU", 18, "length", 12.3)
OpenFLUID.setAttribute(ofsim, "SU", 18, "CODE", "ABC")

## End(Not run)
```

```
OpenFLUID.setCurrentOutputDir
```

Sets the current output directory for simulations

Description

Sets the current output directory for simulations

Usage

```
OpenFLUID.setCurrentOutputDir(path)
```

Arguments

path the output directory path

Examples

```
## Not run:
OpenFLUID.setCurrentOutputDir("/path/to/output")

## End(Not run)
```

```
OpenFLUID.setDefaultDeltaT
```

Sets the simulation time step

Description

Sets the simulation time step

Usage

```
OpenFLUID.setDefaultDeltaT(ofblob, deltat)
```

Arguments

ofblob the simulation definition blob
deltat the time step value in seconds

See Also

OpenFLUID.getDefaultDeltaT

Examples

```
## Not run:
OpenFLUID.setDefaultDeltaT(60)
OpenFLUID.setDefaultDeltaT(86400)

## End(Not run)
```

OpenFLUID.setGeneratorParam

Sets a generator parameter value

Description

Sets a generator parameter value

Usage

```
OpenFLUID.setGeneratorParam(ofblob, unitclass, varname, paramname, paramval)
```

Arguments

ofblob	the simulation definition blob
unitclass	the unit class to which the generator is applied
varname	the variable name to which the generator is applied
paramname	the name of the parameter
paramval	the value of the parameter

See Also

OpenFLUID.getGeneratorParam

Examples

```
## Not run:
OpenFLUID.setGeneratorParam(ofsim, "SU", "var.flux", "fixedvalue", 12.3)

## End(Not run)
```

```
OpenFLUID.setModelGlobalParam
```

Sets a model global parameter value

Description

Sets a model global parameter value

Usage

```
OpenFLUID.setModelGlobalParam(ofblob, paramname, paramval)
```

Arguments

ofblob	the simulation definition blob
paramname	the name of the parameter
paramval	the value of the parameter

See Also

```
OpenFLUID.getModelGlobalParam
```

```
OpenFLUID.removeModelGlobalParam
```

Examples

```
## Not run:  
OpenFLUID.setModelGlobalParam(ofsim, "gvalue", 37.2)  
  
## End(Not run)
```

```
OpenFLUID.setObserverParam
```

Sets an observer parameter value

Description

Sets an observer parameter value

Usage

```
OpenFLUID.setObserverParam(ofblob, obsid, paramname, paramval)
```

Arguments

ofblob	the simulation definition blob
obsid	the simulation observer id
paramname	the name of the parameter
paramval	the parameter value

See Also

OpenFLUID.getObserverParam
OpenFLUID.removeObserverParam

Examples

```
## Not run:  
OpenFLUID.setObserverParam(ofsim, "my.observer", "value", 3)  
  
## End(Not run)
```

```
OpenFLUID.setPeriodBeginDate  
    Sets the simulation period begin date
```

Description

Sets the simulation period begin date

Usage

```
OpenFLUID.setPeriodBeginDate(ofblob, begindate)
```

Arguments

ofblob	the simulation definition blob
begindate	the begin date as an ISO datetime string (%Y-%m-%d %H:%M:%S)

See Also

OpenFLUID.getPeriodBeginDate
OpenFLUID.setPeriodEndDate
OpenFLUID.getPeriodEndDate

Examples

```
## Not run:
OpenFLUID.setPeriodBeginDate(ofsim, "1997-06-05 04:00:00")

## End(Not run)
```

OpenFLUID.setPeriodEndDate
Sets the simulation period end date

Description

Sets the simulation period end date

Usage

```
OpenFLUID.setPeriodEndDate(ofblob, enddate)
```

Arguments

ofblob	the simulation definition blob
enddate	the end date as an ISO datetime string (%Y-%m-%d %H:%M:%S)

See Also

```
OpenFLUID.getPeriodEndDate
OpenFLUID.setPeriodBeginDate
OpenFLUID.getPeriodBeginDate
```

Examples

```
## Not run:
OpenFLUID.setPeriodEndDate(ofsim, "1997-06-05 16:07:17")

## End(Not run)
```

```
OpenFLUID.setSimulatorParam
```

Sets a simulator parameter value

Description

Sets a simulator parameter value

Usage

```
OpenFLUID.setSimulatorParam(ofblob, simid, paramname, paramval)
```

Arguments

ofblob	the simulation definition blob
simid	the simulation simulator id
paramname	the name of the parameter
paramval	the parameter value

See Also

```
OpenFLUID.getSimulatorParam
```

```
OpenFLUID.removeSimulatorParam
```

Examples

```
## Not run:  
OpenFLUID.setSimulatorParam(ofsim, "my.simulator", "coeff", 3)  
  
## End (Not run)
```

```
ROpenFLUID
```

R Interface to OpenFLUID Platform Framework for Modelling and Simulation of Landscapes

Description

Provides a collection of functions to load, parameterize, run and analyze OpenFLUID simulations within the GNU R environment.

Details

Package: ROpenFLUID
Type: Package
Version:
Date:
License: GPLv3 with special exception
LazyLoad: yes

Author(s)

Jean-Christophe Fabre <fabrejc@supagro.inra.fr>

Examples

```
## Not run:  
# load OpenFLUID library  
library("ROpenFLUID")  
  
# add optional paths to search for simulators  
OpenFLUID.addExtraSimulatorsPaths("/path/to/simulators")  
  
# open an input dataset  
ofsim = OpenFLUID.openDataset("/path/to/dataset")  
  
# set the output dir  
OpenFLUID.setCurrentOutputDir("/path/to/output")  
  
# run the simulation  
OpenFLUID.runSimulation(ofsim)  
  
## End(Not run)
```