

# Package ‘rjwsacruncher’

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**Title** Interface to the 'JWSACruncher' of 'JDemetra+'

**Version** 0.2.3

**Description** 'JDemetra+' (<<https://github.com/jdemetra/jdemetra-app>>) is the seasonal adjustment software officially recommended to the members of the European Statistical System and the European System of Central Banks. Seasonal adjustment models performed with 'JDemetra+' can be stored into workspaces. 'JWSACruncher' (<<https://github.com/jdemetra/jwsacruncher/releases>> for v2 and <<https://github.com/jdemetra/jdplus-main/releases>> for v3) is a console tool that re-estimates all the multi-processing defined in a workspace and to export the result. 'rjwsacruncher' allows to launch easily the 'JWSACruncher'.

**URL** <https://aqlt.github.io/rjwsacruncher/>,  
<https://github.com/AQLT/rjwsacruncher>

**BugReports** <https://github.com/AQLT/rjwsacruncher/issues>

**Imports** XML

**Suggests** knitr, rmarkdown

**License** GPL-3

**VignetteBuilder** knitr

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check\_cruncher\_configuration

*Check Cruncher configuration This function checks if the Cruncher configuration is valid by verifying the presence of the jwsacruncher executable in the specified cruncher\_bin\_directory.*

---

### Description

Check Cruncher configuration This function checks if the Cruncher configuration is valid by verifying the presence of the jwsacruncher executable in the specified cruncher\_bin\_directory.

### Usage

```
check_cruncher_configuration(
    cruncher_bin_directory = getOption("cruncher_bin_directory"),
    print_message = TRUE
)
```

### Arguments

`cruncher_bin_directory` Path to the "bin" directory of the 'JWSACruncher'. By default the value of the option "cruncher\_bin\_directory" is used.

`print_message` Logical. If TRUE, a message will be printed indicating whether the configuration is valid or not.

---

`configure_jwsacruncher`*Configure the 'JWSACruncher' with a portable version of 'Java'*

---

## Description

Function configure the 'JWSACruncher' with a portable version of 'Java'.

## Usage

```
configure_jwsacruncher(jwsacruncher_path, java_path)
```

## Arguments

<code>jwsacruncher_path</code>	Path to the file <code>jwsacruncher.bat</code> of the 'JWSACruncher' (see details).
<code>java_path</code>	Path to the file <code>java.exe</code> of the portable version of 'Java' (see details).

## Details

Since the version 2.2.0, the 'JWSACruncher' needs 'Java' 8 or higher to run. For versions 3.0.0 and higher, 'JWSACruncher' needs 'Java' 17 or higher. In 'Windows' versions 3.0.0 and higher of 'JWSACruncher' includes a portable version of 'Java'. For lower version of 'JWSACruncher', if you cannot install 'Java' (for example for security reasons) you can install a portable version of 'Java' (that does not require administrator rights) and configure the 'JWSACruncher' to use this portable version. To do it you have to:

1. Unzip the downloaded file of the 'JWSACruncher';
2. Open, with a Text Editor, the file `jwsacruncher.bat` that is in the sub-folder `/bin/` of the 'JWSACruncher';
3. Edit the line 71 that contains `if "%JAVACMD%"==" " set JAVACMD=java` and replace `java` by the path to the file `java.exe` of the portable version. For example, if the portable version of 'Java' is installed under `D:/Software/Java`, the path to `java.exe` should be at `D:/Software/Java/bin/java.exe` and the new line 71 would be `if "%JAVACMD%"==" " set JAVACMD="D:\Software\Java\bin\java.exe"`.

The function `configure_jwsacruncher()` does the steps 2 and 3.

## See Also

[download\\_cruncher\(\)](#).

---

create\_param\_file      *Create parameter file for the 'JWSACruncher'*

---

## Description

To run the 'JWSACruncher' needs a parameter file and create\_param\_file allows to create it.

## Usage

```
create_param_file(
    dir_file_param,
    bundle = 10000,
    csv_layout = "list",
    csv_separator = ";",
    ndecs = 6,
    full_series_name = TRUE,
    short_column_headers = TRUE,
    rslt_name_level = 2,
    policy = "parameters",
    refreshall = TRUE,
    output = NULL,
    matrix_item = getOption("default_matrix_item"),
    tsmatrix_series = getOption("default_tsmatrix_series"),
    paths_path = NULL,
    v3 = getOption("is_cruncher_v3"),
    file_param = file.path(dir_file_param, "parameters.param")
)
```

## Arguments

dir_file_param	Path to the directory that will contains the parameter file "parameters.param" (if file_param not supplied).
bundle	Maximum size for a group of series (in output). By default bundle = 10000.
csv_layout	Layout of the CSV files (series only). By default csv_layout = "list". Other options: csv_layout = "vtable" (vertical table) or csv_layout = "htable" (horizontal table).
csv_separator	The field separator string used in the CSV file. By default csv_separator = ";".
ndecs	Number of decimals used in the output. By default ndec = 6.
full_series_name	Boolean indicating if the fully qualified name of the series will be used (the default full_series_name = TRUE) or if only the name of the series should be displayed. Only used when v3 = TRUE.

short_column_headers	Boolean indicating if the full column names should be printed (the default short_column_headers = TRUE) instead of always outputting shortened ones. Only used when v3 = TRUE (since v.3.4.0).
rslt_name_level	Only used when v3 = TRUE.
policy	Refreshing policy of the processing. By default policy = "parameters" (re-estimation of the coefficients of the reg-ARIMA model, see details).
refreshall	Boolean indicating if the data is refreshed (by default refreshall = TRUE).
output	Full path of the output folder. By default (output = NULL) a folder is create in the path to the workspace ([workspace]/Output).
matrix_item	Character containing the items of the matrix output (see the 'JDemetra+' manual for more information). By default, the items defined in the option getOption("default_matrix_item") are used (option initialized by the default output of the 'JWSACruncher' 2.2.2).
tsmatrix_series	Character containing the names of the times series to export (see the 'JDemetra+' manual for more information). By default, the items defined in the option getOption("default_tsmatrix_series") are used (option initialized by the default output of the 'JWSACruncher' 2.2.2).
paths_path	The paths used for relative addresses (see the "Demetra Paths" of the graphical interface of 'JDemetra+').
v3	Boolean indicating if the parameter file should be compatible with a version 3.0.0 and higher of 'JWSACRuncher' (v3 = TRUE) or a lower version (v3 = FALSE). By default the value of the option "is_cruncher_v3" is used.
file_param	Path to the parameters file. By default the file is named parameters.param and it is created at the fir_file_param directory.

## Details

When the 'JWSACruncher' is launched, the data is refreshed with a specific policy that is defined by the parameter policy. The available options are:

- policy = "current": all the estimations are fixed and AO added for new data (since v.2.2.3), short name policy = "n";
- policy = "fixed": all the estimations are fixed (since v.2.2.3), short name policy = "f";
- policy = "fixedparameters": re-estimation of the coefficients of the regression variables (but not the ARIMA coefficients), short name policy = "fp";
- policy = "fixedarparameters": re-estimation of the coefficients of the regression variables and of the MA coefficients of the ARIMA model (but not the AR coefficients), short name policy = "farp" (since v.3.4.0);
- policy = "parameters" (the default): policy = "fixedparameters" + re-estimation of ARIMA coefficients, short name policy = "p";
- policy = "lastoutliers": policy = "parameters" + re-identification of last outliers (on the last year), short name policy = "l";

- policy = "outliers": policy = "lastoutliers" + re-identification of all outliers, short name policy = "o";
- policy = "stochastic": policy = "outliers" + re-identification of ARIMA orders, short name policy = "s";
- policy = "complete" or policy = "concurrent": the model is completely re-identified and re-estimated, short name policy = "c".

### Value

Path to the parameter file.

### See Also

[read\\_param\\_file\(\)](#), [list2param\\_file\(\)](#), [default\\_param\\_file](#) [cruncher\\_and\\_param\(\)](#).

### Examples

```
## Not run:
dir = tempdir()
# Here a file parameters.param is created in the directory dir
# with default parameters of the different options
create_param_file(dir)
# to only export the raw and the seasonally adjusted series
create_param_file(dir,
                  tsmatrix_series = c("y", "sa"))

## End(Not run)
```

---

cruncher

*Run the 'JWSACruncher'*

---

### Description

Function to run the 'JWSACruncher' on a workspace from a parameter file.

### Usage

```
cruncher(
  workspace,
  cruncher_bin_directory = getOption("cruncher_bin_directory"),
  param_file_path,
  log_file = NULL,
  rename_multi_documents = FALSE,
  delete_existing_file = FALSE
)
```

**Arguments**

workspace	Path to the workspace. By default a dialog box opens to choose the workspace.
cruncher_bin_directory	Path to the "bin" directory of the 'JWSACruncher'. By default the value of the option "cruncher_bin_directory" is used.
param_file_path	Path to the parameter file of the 'JWSACruncher'. By default a .params file is search in the save directory of the workspace.
log_file	Name of the log file of 'JWSACruncher'. By default the log isn't exported.
rename_multi_documents	Boolean indicating whether to rename the folders containing the outputs according to the names of the multi-documents of the workspace. By default rename_multi_documents = FALSE: the names of the XML files of the multi-documents are used.
delete_existing_file	Only used if rename_multi_documents = TRUE. Boolean indicating whether to delete existing folders when renaming them. By default (delete_existing_file = FALSE) they are not deleted.

**Value**

The path to the workspace.

**See Also**

Around the 'JWSACruncher': [cruncher\\_and\\_param\(\)](#), [update\\_workspace\(\)](#). To create the parameter file: [create\\_param\\_file\(\)](#) and [list2param\\_file\(\)](#).

**Examples**

```
## Not run:
dir = tempdir()
# First create a parameter file
# here a file parameters.param is created in the directory dir
# with default parameters of 'JWSACruncher' v2
list2param_file(dir, default_param_file(v3 = FALSE))
# If the option "cruncher_bin_directory" is correctly defined:
cruncher("workspace.xml",
        param_file_path = file.path(dir, "parameters.param"))

## End(Not run)
```

---

cruncher\_and\_param      *Run quickly the 'JWSACruncher'*

---

### Description

Function to run the 'JWSACruncher' on a workspace while creating the parameter file.

### Usage

```
cruncher_and_param(
    workspace = NULL,
    output = NULL,
    rename_multi_documents = FALSE,
    delete_existing_file = FALSE,
    log_file = NULL,
    cruncher_bin_directory = getOption("cruncher_bin_directory"),
    ...
)
```

### Arguments

workspace	Path to the workspace. By default a dialog box opens to choose the workspace.
output	Full path of the output folder. By default (output = NULL) a folder is create in the path to the workspace ([workspace]/Output).
rename_multi_documents	Boolean indicating whether to rename the folders containing the outputs according to the names of the multi-documents of the workspace. By default rename_multi_documents = FALSE: the names of the XML files of the multi-documents are used.
delete_existing_file	Only used if rename_multi_documents = TRUE. Boolean indicating whether to delete existing folders when renaming them. By default (delete_existing_file = FALSE) they are not deleted.
log_file	Name of the log file of 'JWSACruncher'. By default the log isn't exported.
cruncher_bin_directory	Path to the "bin" directory of the 'JWSACruncher'. By default the value of the option "cruncher_bin_directory" is used.
...	Other parameters of <a href="#">create_param_file()</a> .

### Value

Path to the workspace.

### See Also

[cruncher\(\)](#), [update\\_workspace\(\)](#), [create\\_param\\_file\(\)](#), [multiprocessing\\_names\(\)](#).

---

default\_param\_file     *Get default parameters of the 'JWSACruncher'*

---

### Description

Get default parameters of the 'JWSACruncher'

### Usage

```
default_param_file(  
    v3 = getOption("is_cruncher_v3"),  
    cruncher_bin_directory = NULL  
)
```

### Arguments

**v3**                    Boolean indicating if the parameters are the from a version 3.0.0 and higher of 'JWSACRuncher' (v3 = TRUE) or a lower version (v3 = FALSE). By default the value of the option "is\_cruncher\_v3" is used.

**cruncher\_bin\_directory**     Path to the directory that contains the 'JWSACruncher' binary. If defined, the parameter v3 is ignored and the 'JWSACruncher' is run without parameter to generate the default parameters file.

### See Also

[create\\_param\\_file\(\)](#), [read\\_param\\_file\(\)](#), [list2param\\_file\(\)](#), [cruncher\\_and\\_param\(\)](#).

---

download\_cruncher     *Download the 'JWSACruncher'*

---

### Description

Function to download the ZIP file of the 'JWSACruncher' ([download\\_cruncher\(\)](#)) or 'JDemetra+' ([download\\_jdemetra\(\)](#)).

### Usage

```
download_cruncher(  
    directory,  
    cruncher_version = NULL,  
    v3 = getOption("is_cruncher_v3"),  
    standalone = FALSE  
)
```

```
download_jdemetra(  
  directory,  
  cruncher_version = NULL,  
  v3 = getOption("is_cruncher_v3"),  
  standalone = FALSE  
)
```

## Arguments

directory	Directory where to save the file. In Windows, a dialog box opens by default to select the directory.
cruncher_version	Character of the version to download ("X.Y.Z" format). By default the last version is downloaded.
v3	Boolean indicating, when parameter cruncher_version is missing, if the last version of the 'JWSACruncher' should be a 3.x.y version or a 2.x.y. By default the value of the option "is_cruncher_v3" is used.
standalone	Boolean indicating if the standalone version should be downloaded (only available when v3 = TRUE).

## Details

The 'JWSACruncher' is downloaded from <https://github.com/jdemetra/jwsacruncher/releases> for versions lower than 3.0.0 and from <https://github.com/jdemetra/jdplus-main/releases> for the other versions. To use it, it has to be unzip.

## See Also

[configure\\_jwsacruncher\(\)](#).

## Examples

```
## Not run:  
# On Windows opens a dialog box to choose the directory where to  
# download the last version of the 'JWSACruncher'  
download_cruncher()  
  
dir <- tempdir()  
# To download the last release:  
download_cruncher(dir)  
  
# To download the release of the version 2.2.2:  
download_cruncher(dir, "2.2.2")  
  
## End(Not run)
```

---

list2param_file	<i>Create parameter file from list</i>
-----------------	--

---

## Description

Create parameter file from list

## Usage

```
list2param_file(  
  dir_file_param,  
  x,  
  file_param = file.path(dir_file_param, "parameters.param")  
)
```

## Arguments

`dir_file_param` Path to the directory that will contains the parameter file "parameters.param" (if `file_param` not supplied).

`x` A list, for example create by [read\\_param\\_file\(\)](#) or [default\\_param\\_file\(\)](#).

`file_param` Path to the parameters file. By default the file is named `parameters.param` and it is created at the `dir_file_param` directory.

## See Also

[create\\_param\\_file\(\)](#), [read\\_param\\_file\(\)](#), [default\\_param\\_file\(\)](#) [cruncher\\_and\\_param\(\)](#).

## Examples

```
## Not run:  
dir = tempdir()  
# Here a file parameters.param is created in the directory dir  
# with default parameters of 'JWSACruncher' v2  
list_param <- default_param_file(v3 = FALSE)  
list2param_file(dir, list_param)  
# to only export the raw and the seasonally adjusted series  
list_param$tsmatrix_series <- c("y", "sa")  
list2param_file(dir, list_param)  
  
## End(Not run)
```

---

`multiprocessing_names` *Get the names of the multiprocessings of a workspace*

---

**Description**

Function to get the name of the multiprocessings that appears on 'JDemetra+' and the name of the corresponding XML file.

**Usage**

```
multiprocessing_names(workspace)
```

**Arguments**

`workspace` Path to the workspace. By default a dialog box opens to choose the workspace.

**Value**

A `data.frame` containing the name of the multiprocessings that appears on 'JDemetra+' (column name) and the name of the associated XML files (column file).

**See Also**

[cruncher\\_and\\_param\(\)](#).

---

`read_param_file` *Read parameter file of the 'JWSACruncher'*

---

**Description**

Read parameter file of the 'JWSACruncher'

**Usage**

```
read_param_file(file)
```

**Arguments**

`file` Path to the parameter file.

**See Also**

[create\\_param\\_file\(\)](#), [list2param\\_file\(\)](#), [default\\_param\\_file\(\)](#) [cruncher\\_and\\_param\(\)](#).

**Examples**

```
dir = tempdir()
list_param <- default_param_file(v3 = FALSE)
list2param_file(dir, list_param)
list_param_2 <- read_param_file(file.path(dir, "parameters.param"))
all.equal(list_param, list_param_2)
```

---

update_workspace	<i>Update a workspace</i>
------------------	---------------------------

---

**Description**

Function to update a workspace without exporting the results.

**Usage**

```
update_workspace(  
  workspace = NULL,  
  policy = "parameters",  
  cruncher_bin_directory = getOption("cruncher_bin_directory"),  
  log_file = NULL  
)
```

**Arguments**

workspace	Path to the workspace. By default a dialog box opens to choose the workspace.
policy	Refreshing policy of the processing. By default policy = "parameters" (re-estimation of the coefficients of the reg-ARIMA model, see details).
cruncher_bin_directory	Path to the "bin" directory of the 'JWSACruncher'. By default the value of the option "cruncher_bin_directory" is used.
log_file	Name of the log file of 'JWSACruncher'. By default the log isn't exported.

**Value**

Path to the workspace.

**See Also**

[cruncher\(\)](#), [cruncher\\_and\\_param\(\)](#).

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