

# SPIRou Quick Installation Guide

Version 0.0.59

For DRS SPIRou 0.1.043 (alpha pre-release)

## 0.1 Linux

This is a quick guide to installation, for a more full description please see the full documentation . This assumes you have the latest version of Anaconda for python 3 (or python 2) and are using BASH.

1. Get the latest version of the DRS (for SPIRou version 0.1.043 (alpha pre-release)). from here: [https://github.com/njcuk9999/spirou\\_py3](https://github.com/njcuk9999/spirou_py3)
2. Download the test data from here: [http://genesis.astro.umontreal.ca/neil/spirou\\_test\\_data\\_alpha0.1.003.zip](http://genesis.astro.umontreal.ca/neil/spirou_test_data_alpha0.1.003.zip) (if required).
3. Extract the DRS (make a note of the path, hereinafter DRS\_ROOT)
4. Add the following paths to your PATH and PYTHON PATH environmental variables

e.g. in ~/.bashrc

```
export PATH="DRS_ROOT/bin/:${PATH}"
export PYTHONPATH="DRS_ROOT:DRS_ROOT/bin/:${PYTHONPATH}"
```

5. make sure your paths are set

```
>> source ~/.bashrc
>> echo $PATH
```

6. Make recipes executable (found in the DRS\_ROOT/bin folder) - to use from the command line.
7. Setup the DRS paths (edit the file: './config /config.py'):

TDATA	=	/drs/data/	/	Define the DATA directory
DRS_ROOT	=	/drs/INTROOT/	/	Define the installation directory
DRS_DATA_RAW	=	/drs/data/raw	/	Define the folder with the raw data files in
DRS_DATA_REDUCE	=	/drs/data/reduced	/	Define the directory that the reduced data should be saved to/read from
DRS_CALIB_DB	=	/drs/data/calibDB	/	Define the directory that the calibration files should be saved to/read from
DRS_DATA_MSG	=	/drs/data/msg	/	Define the directory that the log messages are stored in
DRS_DATA_WORKING	=	/drs/data/tmp/	/	Define the working directory

8. Make sure USER\_CONFIG and DRS\_DEBUG are set to a value of 0 (or False) and that ICDP\_NAME is set to 'constants\_SPIROU.py'.
9. validate the DRS installation:

```
>> cal_validate_spirou
```

or

```
>> python cal_validate_spirou
```

The DRS is now installed and set-up. To run see the full documentation .

## 0.2 Mac

This is a quick guide to installation, for a more full description please see the full documentation . This assumes you have the latest version of Anaconda for python 3 (or python 2) and are using **BASH**.

1. Get the latest version of the DRS (for SPIROU version 0.1.043 (alpha pre-release)). from here: [https://github.com/njcuk9999/spirou\\_py3](https://github.com/njcuk9999/spirou_py3)
2. Download the test data from here: [http://genesis.astro.umontreal.ca/neil/spirou\\_test\\_data\\_alpha0.1.003.zip](http://genesis.astro.umontreal.ca/neil/spirou_test_data_alpha0.1.003.zip) (if required).
3. Extract the DRS (make a note of the path, hereinafter DRS\_ROOT)
4. Add the following paths to your PATH and PYTHON PATH environmental variables

e.g. in ~/.bashrc or ~/.bash\_profile

```
export PATH=".:DRS_ROOT/bin/:${PATH}"
export PYTHONPATH=".:DRS_ROOT:DRS_ROOT/bin/:${PYTHONPATH}"
```

5. make sure your paths are set

```
>> source ~/.bashrc
>> echo $PATH
```

6. Make recipes executable (found in the DRS\_ROOT/bin folder) - to use from the command line.
7. Setup the DRS paths (edit the file: './config /config.py'):

TDATA	= /drs/data/	/ Define the DATA directory
DRS_ROOT	= /drs/INTROOT/	/ Define the installation directory
DRS_DATA_RAW	= /drs/data/raw	/ Define the folder with the raw data files in
DRS_DATA_REDUCE	= /drs/data/reduced	/ Define the directory that the reduced data should be saved to/read from
DRS_CALIB_DB	= /drs/data/calibDB	/ Define the directory that the calibration files should be saved to/read from
DRS_DATA_MSG	= /drs/data/msg	/ Define the directory that the log messages are stored in
DRS_DATA_WORKING	= /drs/data/tmp/	/ Define the working directory

8. Make sure USER\_CONFIG and DRS\_DEBUG are set to a value of 0 (or False) and that ICDP\_NAME is set to 'constants\_SPIROU.py'.
9. validate the DRS installation:

```
>> cal_validate_spirou*.py)
```

or

```
>> python cal_validate_spirou
```

The DRS is now installed and set-up. To run see the full documentation .

## 0.3 Windows

This is a quick guide to installation, for a more full description please see the full documentation . This assumes you have the latest version of Anaconda for python 3 (or python 2)

1. Get the latest version of the DRS (for SPIROU version 0.1.043 (alpha pre-release)). from here: [https://github.com/njcuk9999/spirou\\_py3](https://github.com/njcuk9999/spirou_py3)
2. Download the test data from here: [http://genesis.astro.umontreal.ca/neil/spirou\\_test\\_data\\_alpha0.1.003.zip](http://genesis.astro.umontreal.ca/neil/spirou_test_data_alpha0.1.003.zip) (if required).
3. Extract the DRS (make a note of the path, hereinafter DRS\_ROOT )
4. Add the following paths to your PATH environmental variable

In "Environmental Variables"

```
DRS_ROOT\bin\;
```

5. Add the following paths to your PYTHONPATH environmental variable

In "Environmental Variables"

```
%PYTHONPATH%;DRS_ROOT;DRS_ROOT\bin\;
```

6. Setup the DRS paths (edit the file: ‘../config /config.py’):

```

TDATA          = C:\\Users\\User\\          / Define the DATA directory
                \\Documents\\drs\\data
DRS_ROOT        = C:\\Users\\User\\          / Define the installation directory
                \\Documents\\drs\\INTROOT
DRS_DATA_RAW    = C:\\Users\\User\\          / Define the folder with the raw data files
                \\Documents\\drs\\data\\raw  in
DRS_DATA_REDUCE = C:\\Users\\User\\          / Define the directory that the reduced
                \\Documents\\drs\\data\\     data should be saved to/read from
                \\reduced
DRS_CALIB_DB    = C:\\Users\\User\\          / Define the directory that the calibra-
                \\Documents\\drs\\data\\     tion files should be saved to/read from
                \\calibDB
DRS_DATA_MSG    = C:\\Users\\User\\          / Define the directory that the log mes-
                \\Documents\\drs\\data\\msg  sages are stored in
DRS_DATA_WORKING = C:\\Users\\User\\         / Define the working directory
                \\Documents\\drs\\data\\tmp

```

**Note:** Note paths in windows must have a ‘\\’ also the python files must be open with a valid editor such as Sublime Text, Notepad++, Spyder or Pycharm for example

7. Make sure USER\_CONFIG and DRS\_DEBUG are set to a value of 0 (or False) and that ICDP\_NAME is set to ‘constants\_SPIROU.py’.
8. validate the DRS installation:

```
>> python cal_validate_spirou
```

The DRS is now installed and set-up. To run see the full documentation .