



Using NXmap within a Python IDE

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1 Introduction

The NXmap wrapper has been modified to allow users to import NXmap module from a Python IDE such as Spyder.

This short documentation will show the user how to use it. NXmap is considered already installed and well configured (FlexNet license).

The following documentation considers that user is using Bash shell. The provided env.sh file is written for Bash.

Although not provided, it is quite simple to adapt the env.sh script to another shell.

Although this documentation presents how to use NXmap within Spyder 2.3.8 and PyCharm 2018.2, it should work with any Python IDE.

2 Spyder

First, identify the path to the env.sh file in the NanoXplore installation directory. Basically:
/opt/NanoXplore/NXmap/2.9.5/install/bin/env.sh

Before launching Spyder, the user must source this file using the following command:

```
$> source /opt/NanoXplore/NXmap/2.9.5/install/bin/env.sh
```

Once env.sh has been sourced, user can launch Spyder from the same terminal.

User can then edit and execute any NanoXpython script in Spyder.

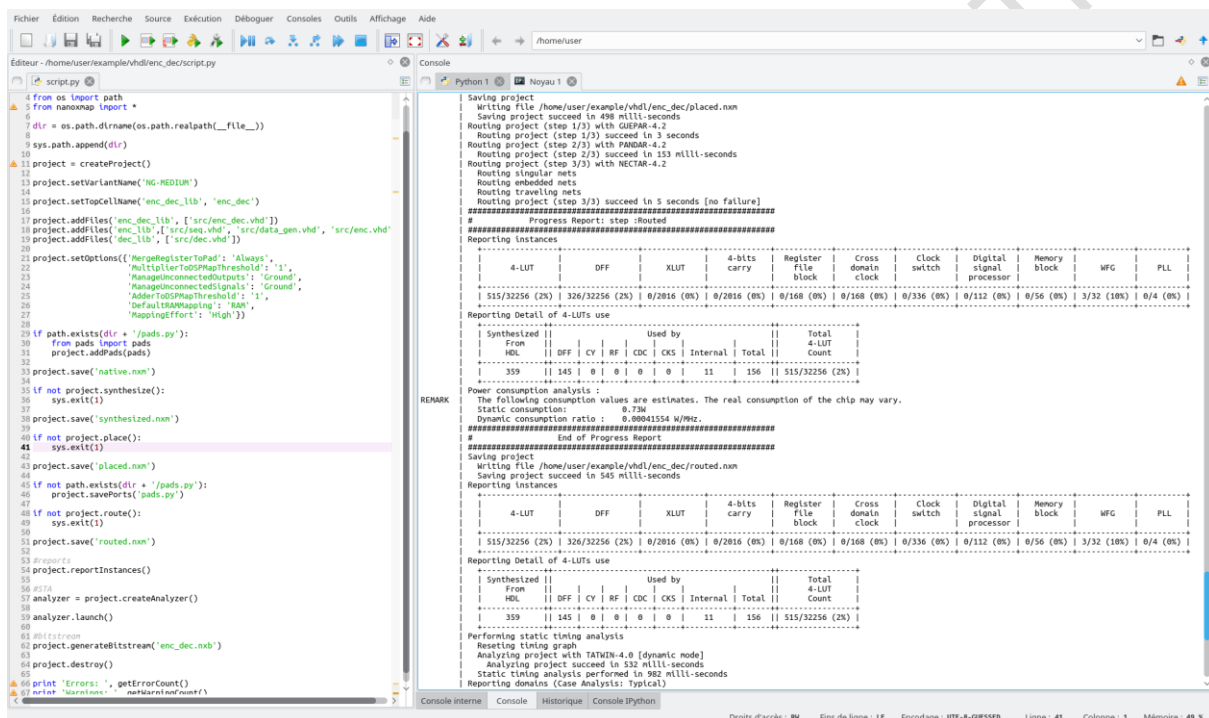


Figure 1: enc_dec example launched in Spyder (v2.3.8)

Figure 1 presents an example of edition and execution of the provided 'enc_dec' example within Spyder 2.3.8 on Ubuntu 16.04.

Note:

A more convenient way to launch Spyder without having to source env.sh each time would be to source it in your .bashrc file by adding a line such as:

```
. /opt/NanoXplore/NXmap/2.9.5/install/bin/env.sh
```

Note:

Since Spyder 3.2, the Python console has been removed from Spyder. Now, there is only an IPython console. Unfortunately, the IPython console does not catch the output of C algorithms, so you will not be able to see nxpython output in Spyder.

3 PyCharm

First, identify the path to the env.sh file in the NanoXplore installation directory. Basically:
/opt/NanoXplore/NXmap/2.9.5/install/bin/env.sh

Before launching PyCharm, the user must source this file using the following command:

```
$> source /opt/NanoXplore/NXmap/2.9.5/install/bin/env.sh
```

Once env.sh has been sourced, user can launch PyCharm from the same terminal.

User can then edit and execute any NanoXpython script in PyCharm.

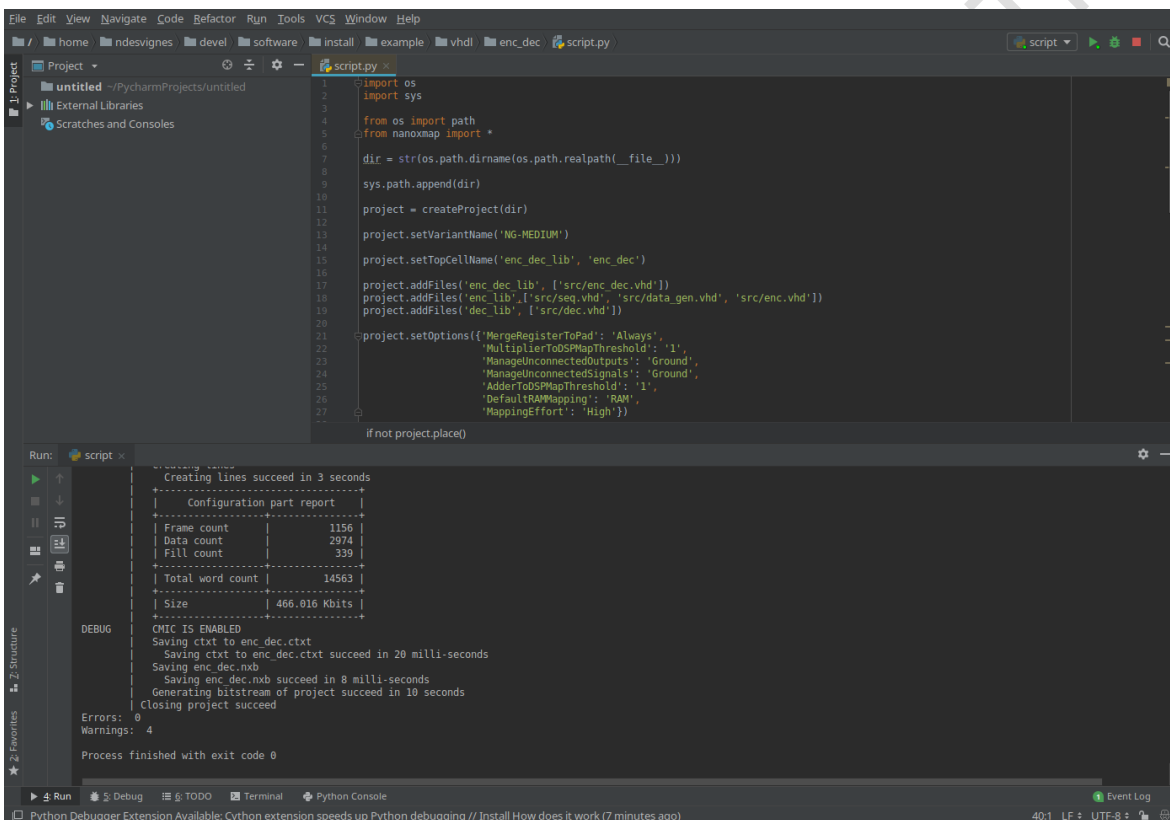


Figure 2: enc_dec example launched in PyCharm (v2018.2)

Figure 2 presents an example of edition and execution of the provided 'enc_dec' example within PyCharm 2018.2 on Ubuntu 18.04.

Note:

A more convenient way to launch PyCharm without having to source env.sh each time would be to source it in your .bashrc file by adding a line such as:

```
./opt/NanoXplore/NXmap/2.9.5/install/bin/env.sh
```

Do not hesitate to contact support@nanoxplore.com for any problem or question.