

Weekly Report

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Week17

Summary:

Since we decided to use another GUI library for better performance and install procedure, I start transfer the code into wxpython.

The wxpython version is wxpython phoenix 4.0.1

The wxpython now is available on MCECS's RHEL7(mo.ece.pdx.edu) system (only on python3.4 version).

Done the Task3_4_5 code transfer. The code is share on schools Linux system, the folder path is /u/linyi/Documents/Capstone_wxpython.

Append the way to install wxpython at the end.

Issue:

The layout part of wxpython make me confusing now, need more explore on that one, but it should not be a big deal.

Since the wxpython use some C,C++ code, and even more, the installation of wxpython need some basic prerequisites packages on Linux, but all of them can be install easily.

Data:

Run the code on RHEL7

Development Tools

Filter: Enter Filter Words

Search: Enter Value

	INPUTS	OUTPUTS	rclk	wclk	INPUTS	OUTPUTS	rclk	wclk
ReportName	Report1	Report1	Report1	Report1	Report2	Report2	Report2	Report2
Levels of Logic	1.000	1.000	7.000	5.000	1.000	1.000	7.000	5.000
Critical Path Length	0.238	0.108	0.543	0.946	0.238	0.108	0.543	0.946
Critical Path Slack	0.643	0.292	-0.066	0.035	0.643	0.292	-0.066	0.035
Critical Path Clk Period	1.000	0.500	0.500	1.000	1.000	0.500	0.500	1.000
Total Negative Slack	0.000	0.000	-0.106	0.000	0.000	0.000	-0.106	0.000
No. of Violating Paths	0.000	0.000	2.000	0.000	0.000	0.000	2.000	0.000
Worst Hold Violation	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total Hold Violation	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
No. of Hold Violations	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

The GUI have all functions that the old one own.

Development Tools

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Search:

	INPUTS	OUTPUTS	rclk	wclk	INPUTS	OUTPUTS	rclk	wclk
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Total Hold Violation	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
No. of Hold Violations	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Append Installation of WxPython

Wxpython can be installed easily by PYPI. Type the follow script in the terminal and the wxpython should be installed into the computer.

Window and MacOS:

```
pip install -U wxPython          # use pip3 if need
```

Linux:

```
pip install -U -f
https://extras.wxpython.org/wxPython4/extras/linux/gtk3/ubuntu-16.04 wxPython
```

Or check the following website if the install command update.

<https://www.wxpython.org/pages/downloads/>

Linux based system still need to fit the prerequisites since there may not have basic library to use the C and C++ code. Type the following script in terminal

```
pip install SIP
```

and the prerequisites:

<https://github.com/wxWidgets/Phoenix/blob/master/README.rst>