Weekly Report

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Summary:

This Week I focus more on studying how to use tktable. I have discovered some problems, and build another example. In the example, user can import the first report. After import first one, they can add more if they want. when they double click title, the data will be sorted by the row that user select, from high to low, low to high or back to raw data. First report will be color by blue, second one is green, third is pink, and more. It is not full done, such as resize the column, and report should be in .txt file.

Issue:

The problem here is important!

Tktable is the best tool I found to build table, but I discovered more problems this week:

- When I change the data in table, the table will refresh, and the way it refresh will turn cell's background to red! (the way I insert data is set the whole table, so all cell will turn red for a short moment!)
- I cannot use tktable on windows! I don't know the answer for this problem now, some people get it works on windows but it is rarely hard to find how to do. I don't have so much knowledge about Tcl/Tk. But the reason why it cannot use on windows is because Tcl/Tk lib on windows. (Somebody said update it then it is ok, but I tried and it didn't work). I will try to install a virtual Linux to verified that if tktable works on Linux. Pretty sure it's ok on Linux, because it is fine on Mac.

For the python3.5 on PSU's redhat system, I don't know how to use it. I add the pkg to my computer but there is only python2. Although I list the file under my root path, nothing called python3 or python35.

And I don't know if we can install lib via PYPI or not on PSU's redhat system.

Data:

Open first report:

Open another report:

DC Analysis

Open File

Timing Path Group	INPUTS	OUTPUTS	rclk	wclk	INPUTS	OUTPUTS	rclk	wclk
Levels of Logic	1.000	1.000	7.000	5.000	2.000	1.000	9.000	5.000
Critical Path Length	0.238	0.108	0.543	0.946	0.338	0.108	0.643	0.946
Critical Path Slack	0.643	0.292	-0.066	0.035	0.543	0.292	-0.166	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	-0.206	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

Compare More report

Open third report:

DC Analysis

Open File

Timing Path Group	INPUTS	INPUTS	rclk	wclk	INPUTS	OUTPUTS	rclk	wclk	INPUTS	OUTPUTS	rclk	wclk
Levels of Logic	1.000	1.000	7.000	5.000	2.000	1.000	9.000	5.000	1.000	3.000	7.000	4.000
Critical Path Length	0.238	0.108	0.543	0.946	0.338	0.108	0.643	0.946	0.238	0.308	0.543	0.846
Critical Path Slack	0.643	0.292	-0.066	0.035	0.543	0.292	-0.166	0.035	0.643	0.092	-0.066	0.135
Critical Path Clk Period	1.000	0.500	0.500	1.000	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	-0.206	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	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	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	0.000	0.000	0.000	0.000

Compare More report

Sort Critical Path Slack from high to low:

DC Analysis

Open File

Timing Path Group	INPUTS	INPUTS	INPUTS	OUTPUTS	OUTPUTS	wclk	OUTPUTS	wclk	wclk	rclk	rclk	rclk
Levels of Logic	1.000	1.000	2.000	1.000	1.000	4.000	3.000	5.000	5.000	7.000	7.000	9.000
Critical Path Length	0.238	0.238	0.338	0.108	0.108	0.846	0.308	0.946	0.946	0.543	0.543	0.643
Critical Path Slack	0.643	0.643	0.543	0.292	0.292	0.135	0.092	0.035	0.035	-0.066	-0.066	-0.166
Critical Path Clk Period	1.000	1.000	1.000	0.500	0.500	1.000	0.500	1.000	1.000	0.500	0.500	0.500
Total Negative Slack	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.106	-0.106	-0.206
No. of Violating Paths	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000	2.000	2.000
Worst Hold Violation	0.000	0.000	0.000	0.000	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	0.000	0.000	0.000	0.000

Compare More report

Sort Levels of Logic from low to high:

DC Analysis

Open File

Timing Path Group	INPUTS	OUTPUTS	OUTPUTS	INPUTS	INPUTS	OUTPUTS	wclk	wclk	wclk	rclk	rclk	rclk
Levels of Logic	1.000	1.000	1.000	1.000	2.000	3.000	4.000	5.000	5.000	7.000	7.000	9.000
Critical Path Length	0.238	0.108	0.108	0.238	0.338	0.308	0.846	0.946	0.946	0.543	0.543	0.643
Critical Path Slack	0.643	0.292	0.292	0.643	0.543	0.092	0.135	0.035	0.035	-0.066	-0.066	-0.166
Critical Path Clk Period	1.000	0.500	0.500	1.000	1.000	0.500	1.000	1.000	1.000	0.500	0.500	0.500
Total Negative Slack	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.106	-0.106	-0.206
No. of Violating Paths	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000	2.000	2.000
Worst Hold Violation	0.000	0.000	0.000	0.000	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	0.000	0.000	0.000	0.000

Compare More report

Back to raw data:

DC Analysis

Open File

Timing Path Group	INPUTS	OUTPUTS	rclk	wclk	INPUTS	OUTPUTS	rclk	wclk	INPUTS	OUTPUTS	rclk	wclk
Levels of Logic	1.000	1.000	7.000	5.000	2.000	1.000	9.000	5.000	1.000	3.000	7.000	4.000
Critical Path Length	0.238	0.108	0.543	0.946	0.338	0.108	0.643	0.946	0.238	0.308	0.543	0.846
Critical Path Slack	0.643	0.292	-0.066	0.035	0.543	0.292	-0.166	0.035	0.643	0.092	-0.066	0.135
Critical Path Clk Period	1.000	0.500	0.500	1.000	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	-0.206	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	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	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	0.000	0.000	0.000	0.000

Compare More report

Short Moment data refresh:

DC Analysis

Open File

Timing Path Group	rclk	rclk	rclk	wclk	wclk	wclk	OUTPUTS	INPUTS	INPUTS	OUTPUTS	OUTPUTS	INPUTS
Levels of Logic	9.000	7.000	7.000	5.000	5.000	4.000	3.000	2.000	1.000	1.000	1.000	1.000
Critical Path Length	0.643	0.543	0.543	0.946	0.946	0.846	0.308	0.338	0.238	0.108	0.108	0.238
Critical Path Slack	-0.166	-0.066	-0.066	0.035	0.035	0.135	0.092	0.543	0.643	0.292	0.292	0.643
Critical Path Clk Period	0.500	0.500	0.500	1.000	1.000	1.000	0.500	1.000	1.000	0.500	0.500	1.000
Total Negative Slack	-0.206	-0.106	-0.106	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
No. of Violating Paths	2.000	2.000	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Worst Hold Violation	0.000	0.000	0.000	0.000	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	0.000	0.000	0.000	0.000

Compare More report