Weekly Report

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Summary:
Almost finish combining tktable and pandas, and also make the code more easy to read and reused. Now the table can sort thing easily, and I also add one more row called 'Report Name' to show the which report does the data come from. The user can choose to show the 'Report Name' row or not.

Issue:
No big issue this week.

Data:
I run the code on fedora (a version of Linux) this time to give some visualize example that how does tktable look likes on Linux.
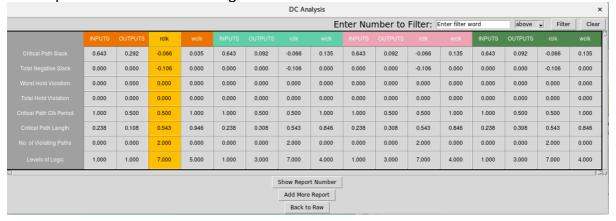
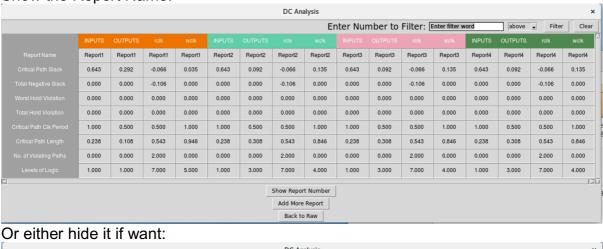Open four report: (just by click add more report)

User can either sort by title column or title row: (from low to high (a to z), vice versa)
Sort 'Critical Path Clk Period' from low to high
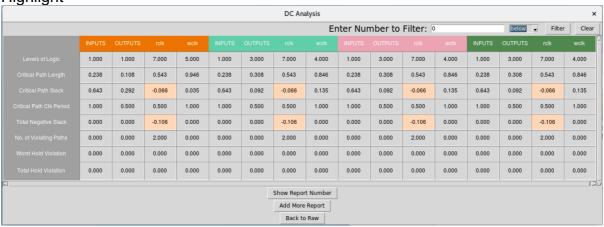
Sort report1 'rclk' from low to high:

DC Analysis

Enter Number to Filter: Enter filter word   above ▾   Filter   Clear

	INPUTS	OUTPUTS	rclk	wclk	INPUTS	OUTPUTS	rclk	wclk	INPUTS	OUTPUTS	rclk	wclk	INPUTS	OUTPUTS	rclk	wclk
Critical Path Slack	0.643	0.292	-0.066	0.035	0.643	0.092	-0.066	0.135	0.643	0.092	-0.066	0.135	0.643	0.092	-0.066	0.135
Total Negative Slack	0.000	0.000	-0.106	0.000	0.000	0.000	-0.106	0.000	0.000	0.000	-0.106	0.000	0.000	0.000	-0.106	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	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	0.000	0.000	0.000	0.000
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	1.000	0.500	0.500	1.000
Critical Path Length	0.238	0.108	0.543	0.946	0.238	0.308	0.543	0.846	0.238	0.308	0.543	0.846	0.238	0.308	0.543	0.846
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	0.000	0.000	2.000	0.000
Levels of Logic	1.000	1.000	7.000	5.000	1.000	3.000	7.000	4.000	1.000	3.000	7.000	4.000	1.000	3.000	7.000	4.000

Show Report Number
Add More Report
Back to Raw

Show the Report Name:

DC Analysis

Enter Number to Filter: Enter filter word   above ▾   Filter   Clear

	INPUTS	OUTPUTS	rclk	wclk	INPUTS	OUTPUTS	rclk	wclk	INPUTS	OUTPUTS	rclk	wclk	INPUTS	OUTPUTS	rclk	wclk
Report Name	Report1	Report1	Report1	Report1	Report2	Report2	Report2	Report2	Report3	Report3	Report3	Report3	Report4	Report4	Report4	Report4
Critical Path Slack	0.643	0.292	-0.066	0.035	0.643	0.092	-0.066	0.135	0.643	0.092	-0.066	0.135	0.643	0.092	-0.066	0.135
Total Negative Slack	0.000	0.000	-0.106	0.000	0.000	0.000	-0.106	0.000	0.000	0.000	-0.106	0.000	0.000	0.000	-0.106	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	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	0.000	0.000	0.000	0.000
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	1.000	0.500	0.500	1.000
Critical Path Length	0.238	0.108	0.543	0.946	0.238	0.308	0.543	0.846	0.238	0.308	0.543	0.846	0.238	0.308	0.543	0.846
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	0.000	0.000	2.000	0.000
Levels of Logic	1.000	1.000	7.000	5.000	1.000	3.000	7.000	4.000	1.000	3.000	7.000	4.000	1.000	3.000	7.000	4.000

Show Report Number
Add More Report
Back to Raw

Or either hide it if want:

DC Analysis

Enter Number to Filter: Enter filter word   above ▾   Filter   Clear

	INPUTS	OUTPUTS	rclk	wclk	INPUTS	OUTPUTS	rclk	wclk	INPUTS	OUTPUTS	rclk	wclk	INPUTS	OUTPUTS	rclk	wclk
Critical Path Slack	0.643	0.292	-0.066	0.035	0.643	0.092	-0.066	0.135	0.643	0.092	-0.066	0.135	0.643	0.092	-0.066	0.135
Total Negative Slack	0.000	0.000	-0.106	0.000	0.000	0.000	-0.106	0.000	0.000	0.000	-0.106	0.000	0.000	0.000	-0.106	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	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	0.000	0.000	0.000	0.000
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	1.000	0.500	0.500	1.000
Critical Path Length	0.238	0.108	0.543	0.946	0.238	0.308	0.543	0.846	0.238	0.308	0.543	0.846	0.238	0.308	0.543	0.846
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	0.000	0.000	2.000	0.000
Levels of Logic	1.000	1.000	7.000	5.000	1.000	3.000	7.000	4.000	1.000	3.000	7.000	4.000	1.000	3.000	7.000	4.000

Show Report Number
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Back to Raw

If the color for the title row is worthless, I can remove it.

Highlight

	INPUTS	OUTPUTS	rclk	wclk	INPUTS	OUTPUTS	rclk	wclk	INPUTS	OUTPUTS	rclk	wclk	INPUTS	OUTPUTS	rclk	wclk
Levels of Logic	1.000	1.000	7.000	5.000	1.000	3.000	7.000	4.000	1.000	3.000	7.000	4.000	1.000	3.000	7.000	4.000
Critical Path Length	0.238	0.108	0.543	0.946	0.238	0.308	0.543	0.846	0.238	0.308	0.543	0.846	0.238	0.308	0.543	0.846
Critical Path Slack	0.643	0.292	-0.066	0.035	0.643	0.092	-0.066	0.135	0.643	0.092	-0.066	0.135	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	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	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	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	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	0.000	0.000	0.000	0.000

DC Analysis

Enter Number to Filter: 0 below ▾ Filter Clear

Show Report Number
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The filter actually is highlighting. This is a mistake, will fix it later and also add the filter function later