Language and its modules used



the Since code for Subchannel Analysis was written in Python, and Python provides good libraries for numerical computations, graph plotting and user interface designing, used Python. It is a great general-purpose high-level language.



Used to plot and embed curves in the GUI



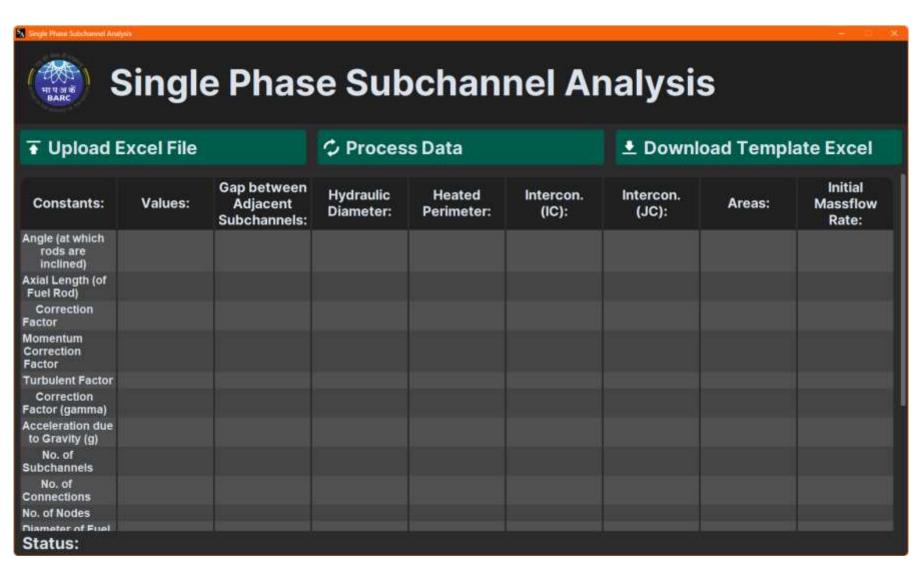


Modern version of Tkinter, used to make and enhanced GUI (cross compatible with Tkinter elements). (Poor documentation!)

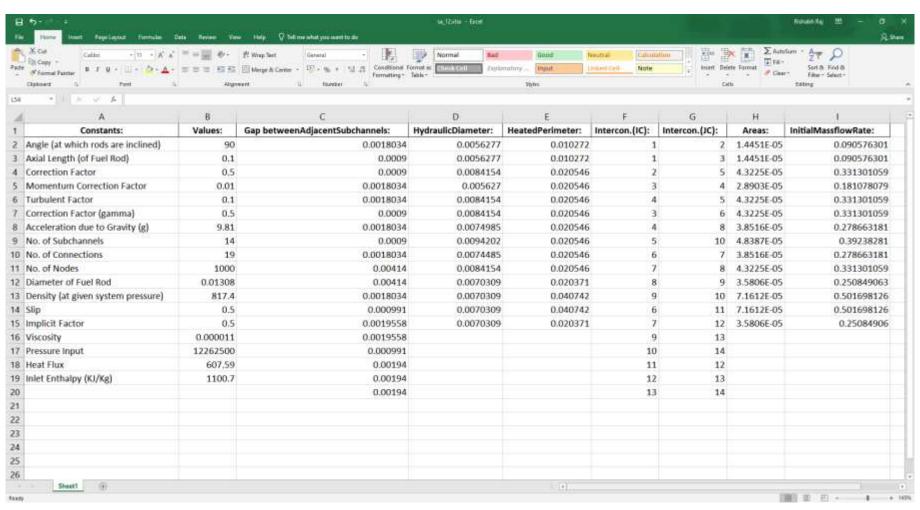


Used to Read and write the result

Opening Interface:

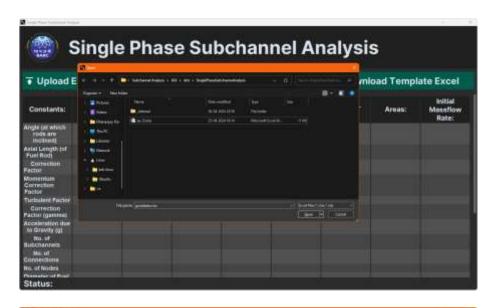


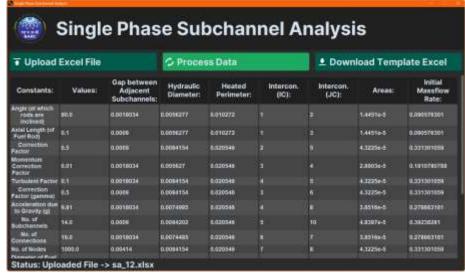
Template standardized data:

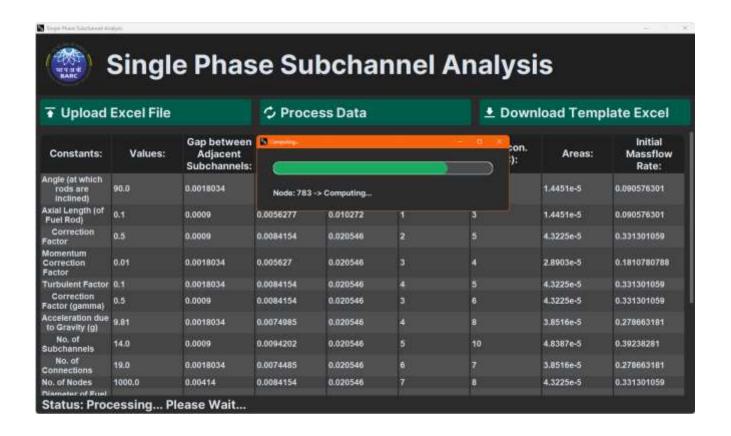


(verified input data)

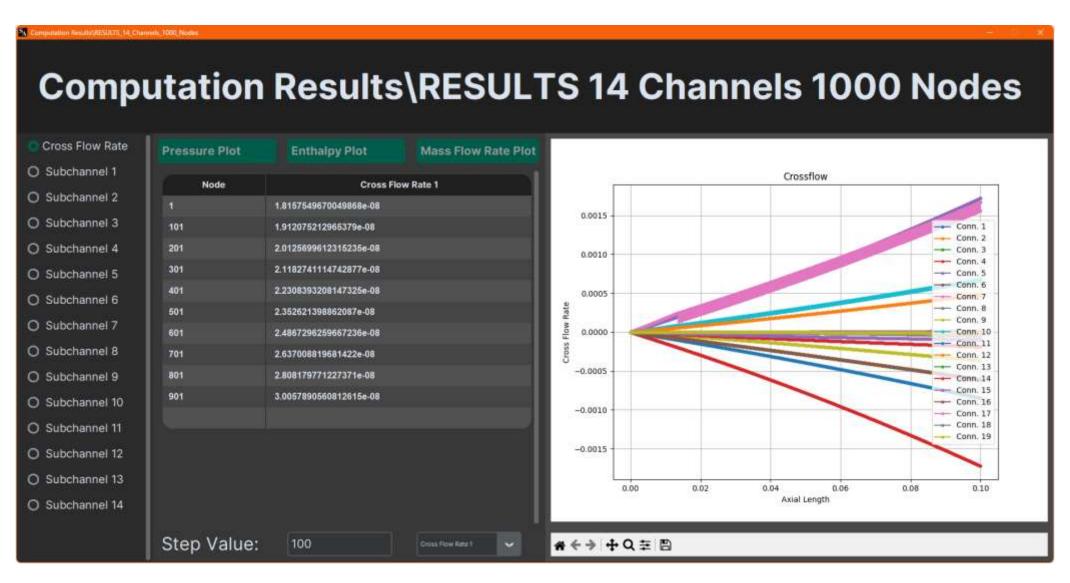
Data file uploading, preview and computation:



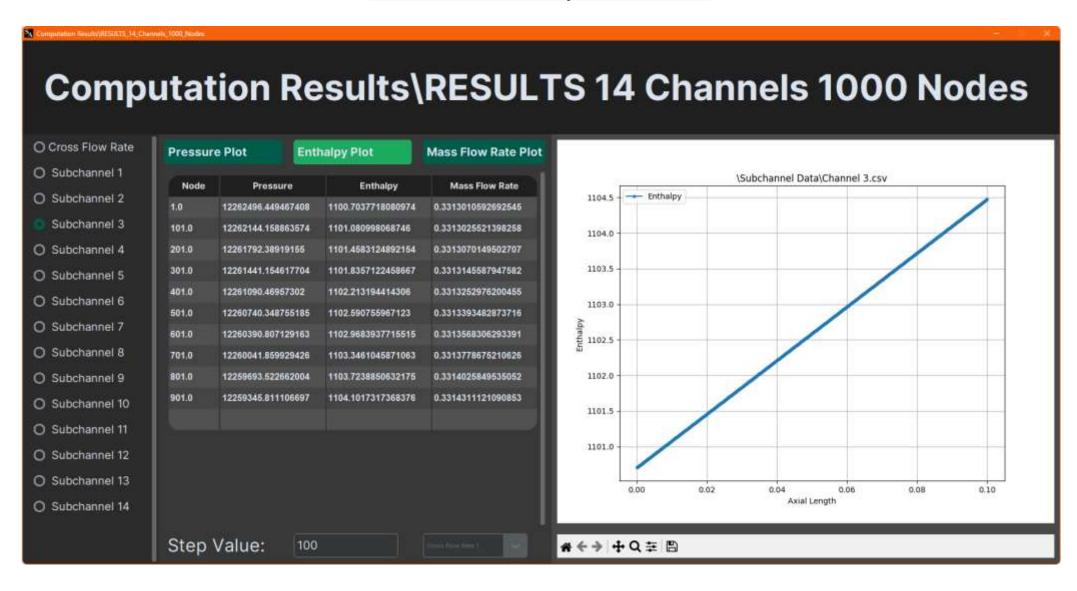




Final result preview:

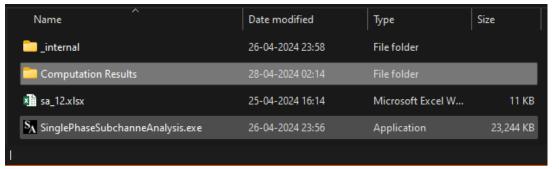


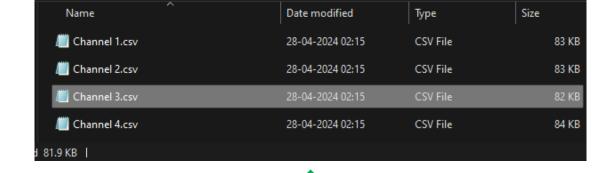
Final result preview:



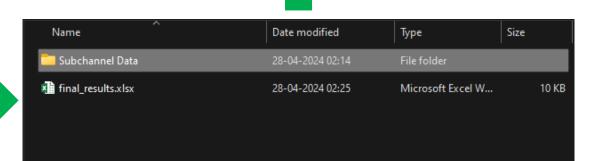
The GUI

File tree:





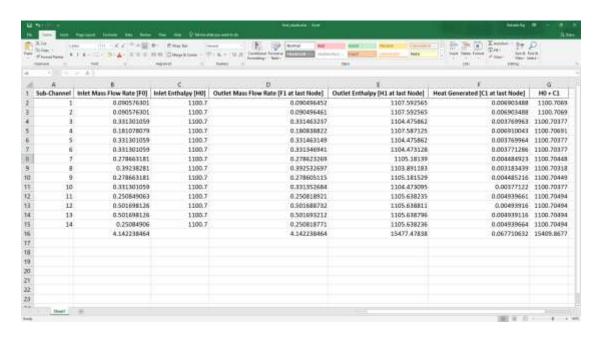


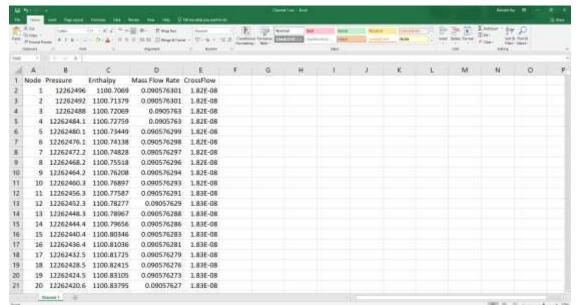


Name	Date modified	Туре	Size
RESULTS_14_Channels_500_Nodes	28-04-2024 04:39	File folder	
RESULTS_14_Channels_1000_Nodes	28-04-2024 02:25	File folder	
RESULTS_14_Channels_25000_Nodes	28-04-2024 04:39	File folder	
I .			

The GUI

Results in Excel sheet:





(Final results)

(Results for each node for every subchannel)