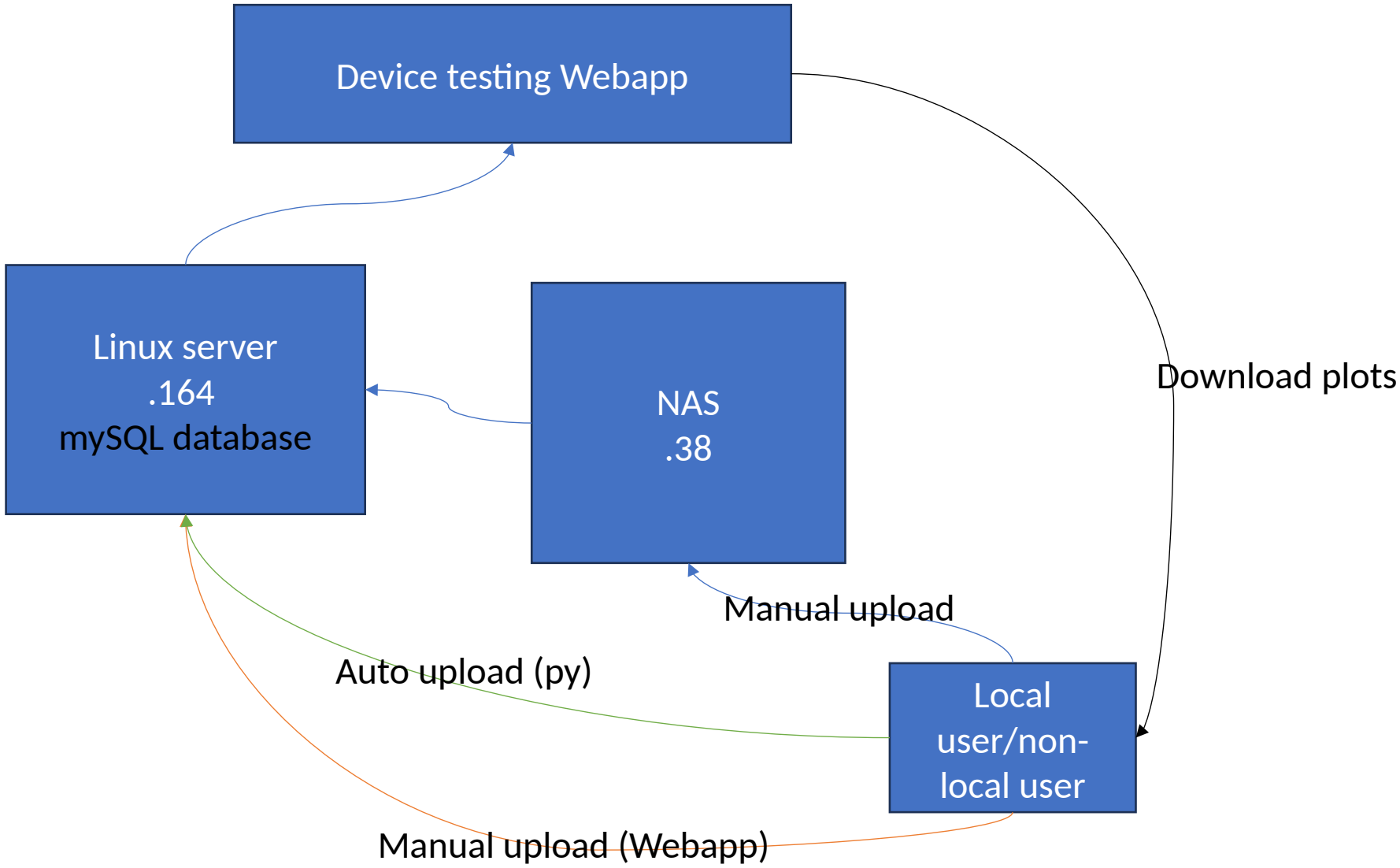
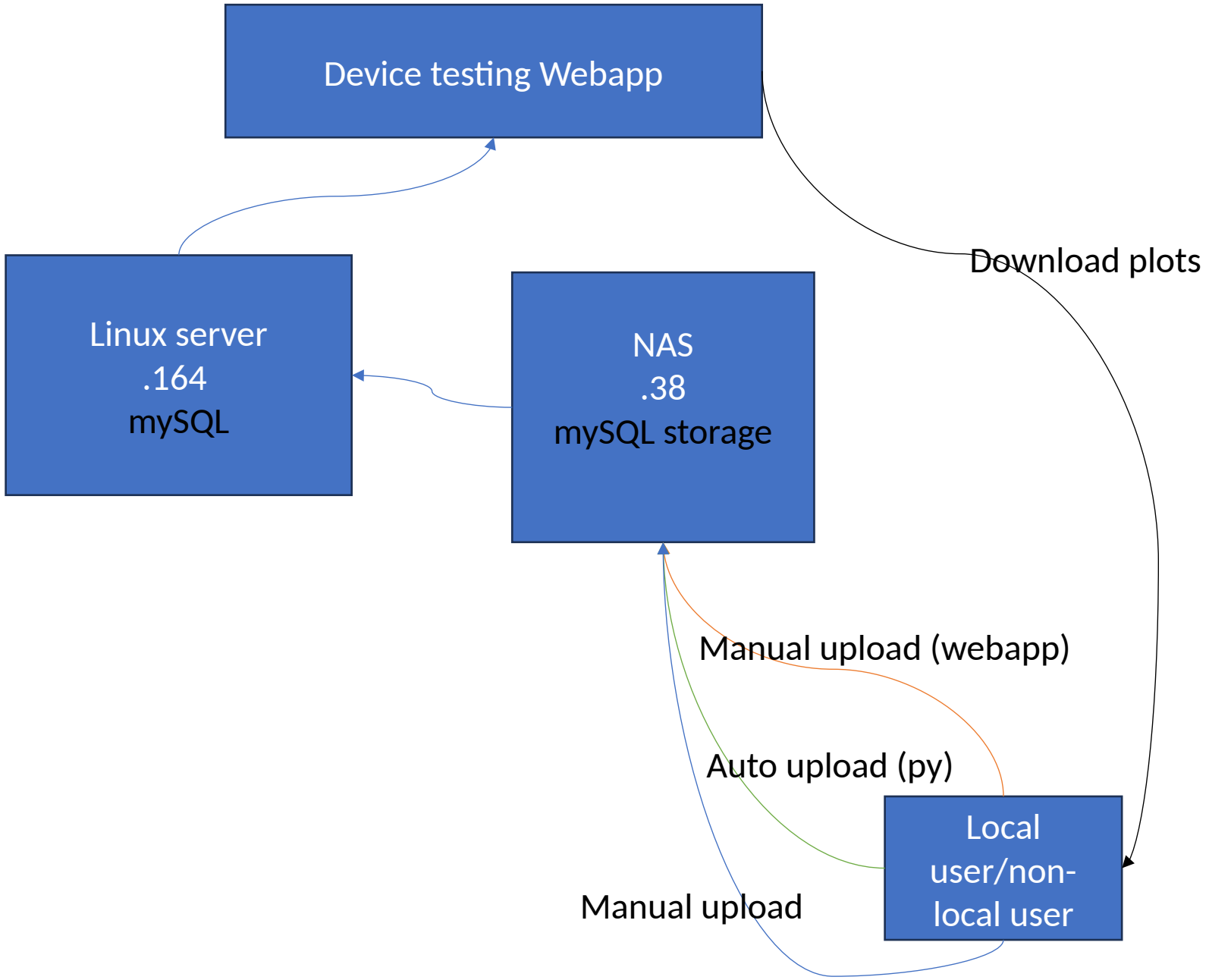
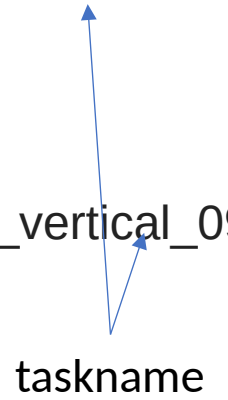

Device testing Webapp
Linux server
.164
mySQL database
NAS
.38
Download plots
Manual upload
Auto upload (py)
Local
user/non-
local user
Manual upload (Webapp)


Device testing Webapp
Linux server
.164
mySQL
NAS
.38
mySQL storage
Download plots
Manual upload (webapp)
Auto upload (py)
Local
user/non-
local user
Manual upload

Manual upload (Webapp)

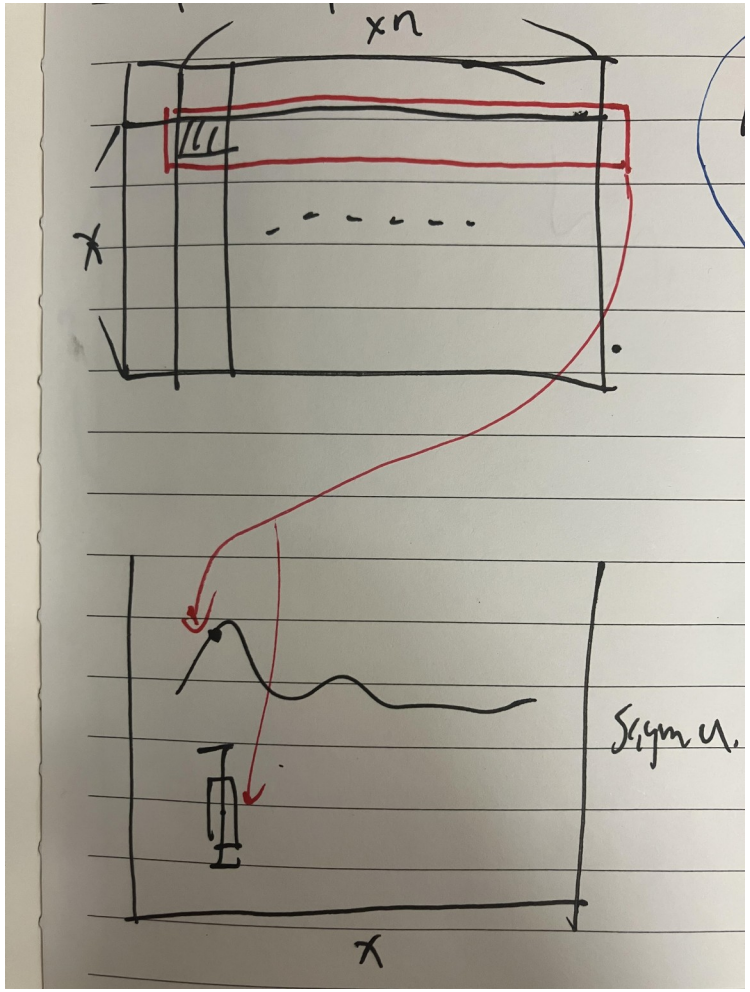
Csv Filename naming **Example:**
lot88_wafer44_die12_dut_d_tc_vertical_09021992.csv

Txt Filename naming (test related settings) **Example:**
lot88_wafer44_die12_dut_d_tc_vertical_09021992.txt



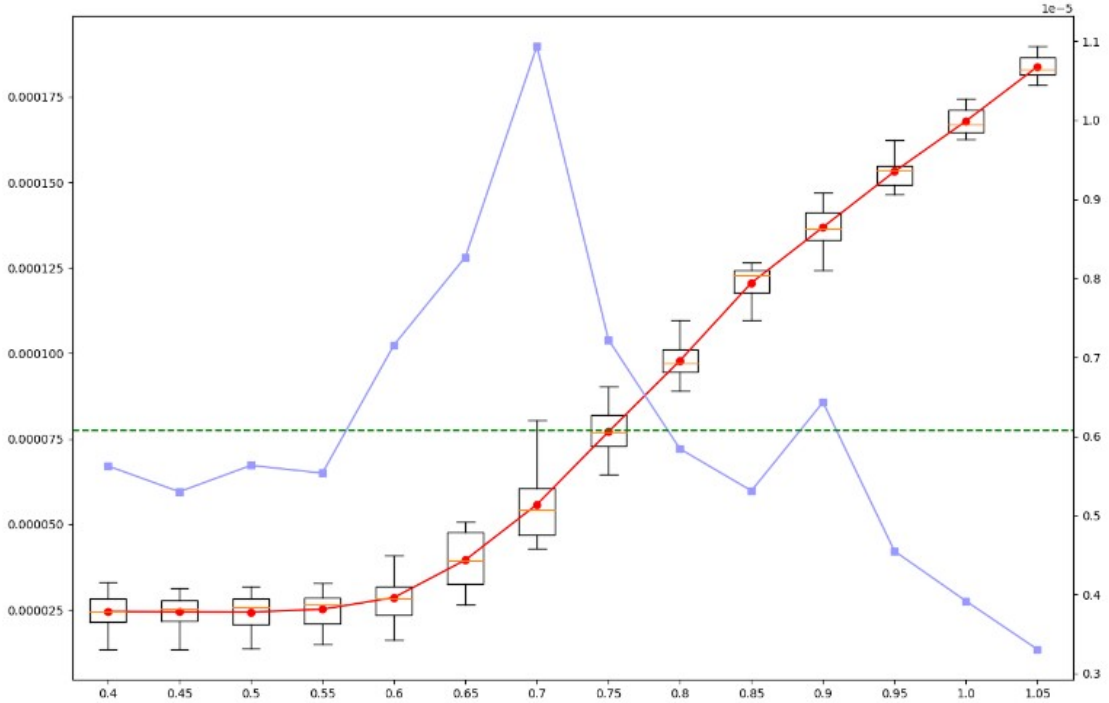
General allowed uploaded filename:
pattern = r"^lot[A-Za-z0-9]+_wafer[A-Za-z0-9]+_die[A-Za-z0-9]+_dut[A-Za-z0-9]*_[A-Za-z0-9]+_[A-Za-z0-9]+_[A-Za-z0-9]+_[A-Za-z0-9]+\.(csv|txt)$"

horizontal_boxplotsigma_xn (plot a graph based on a single sheet)
Taskname:boxplot

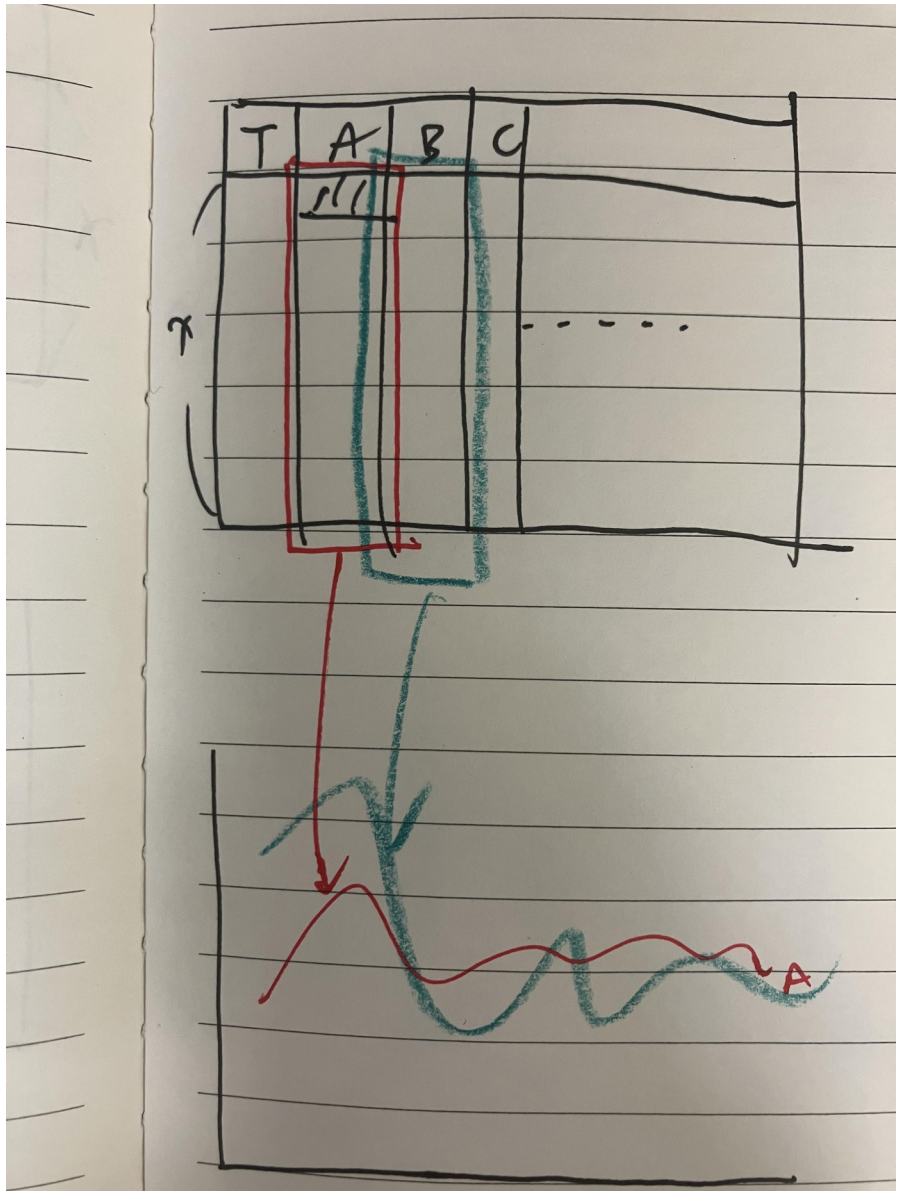


Left y axis: mean, boxplot…
Right y axis: Sigma

Leave the first row blank coz it takes data starting from the second row

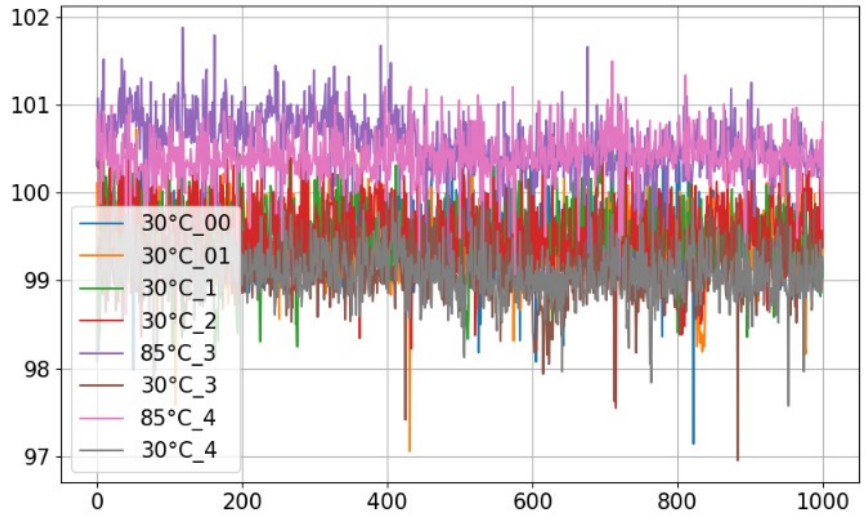


vetical_xn (plot a graph based on a single sheet)
Taskname: vertical

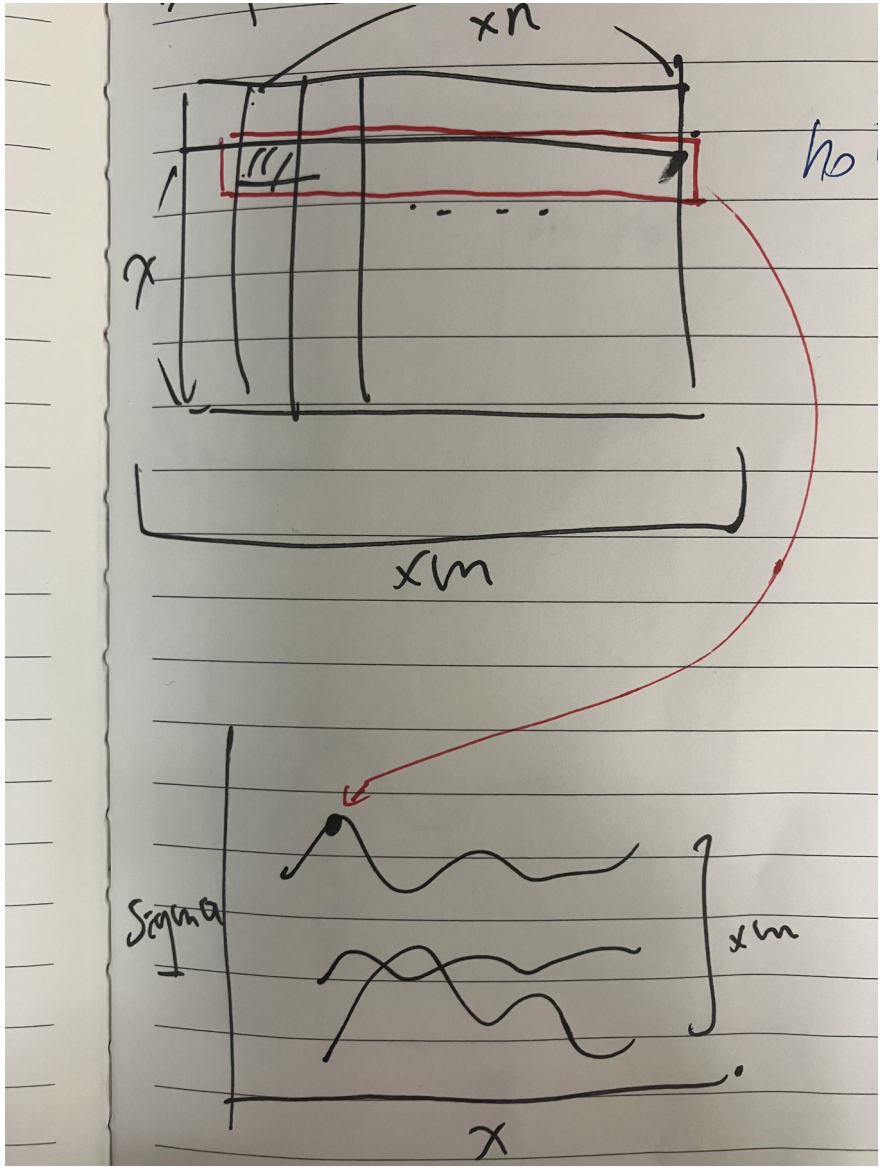


First row is the name for column, will be the legend on the plot

Time	30°C_00	30°C_01	30°C_1	30°C_2	85°C_3	30°C_3	85°C_4
0.00276	99.661	100.1075	98.9105	100.3785	100.30149999999998	99.286	100.8255
1.0007	98.3885	99.309	99.12749999999998	100.28799999999998	101.074	99.3765	100.372
2.00066	98.204	99.2875	98.737	100.451	100.7125	99.134	100.9075
3.0007	98.3765	99.2035	98.40149999999998	100.4205	100.694	99.49849999999998	100.897
4.00066	98.5215	99.3615	98.6675	99.566	100.7905	99.2665	100.7625
5.0007	99.346	99.221	100.208	100.098	100.694	98.98149999999998	99.8755
6.00066	99.7245	99.293	100.09449999999998	100.3085	100.972	99.42	100.4285
7.00066	99.85399999999998	99.6195	99.386	100.3165	101.159	98.88949999999998	100.6525
8.0007	99.3615	99.922	99.748	100.303	100.4365	98.846	100.1315
9.00066	99.1735	99.629	100.368	99.8925	101.518	99.215	100.9235
10.00066	99.2325	99.6015	100.078	99.7085	100.6605	99.34499999999998	100.835
11.0007	99.317	99.343	99.56049999999998	99.938	100.562	98.953	100.8885



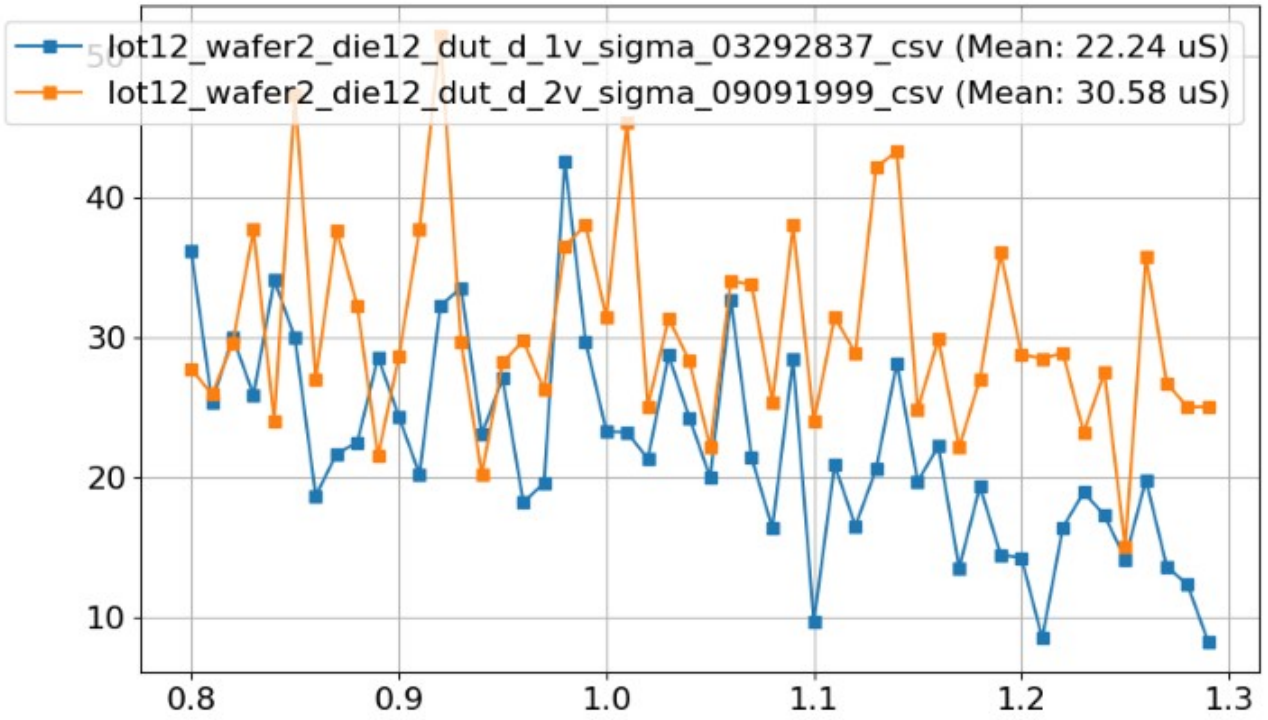
horizontal_sigma_xnxm (plot a graph based on multiple sheets)
Taskname: sigma



Leave the first row blank

Takes 5 fields for subfolder naming

- lot55_wafer1_die12_dut_d
  View CSV Files Delete
- lot23_wafer3_die23_dut_d
  View CSV Files Delete
- lot99_wafer2_die12_dut_d
  View CSV Files Delete
- lot99_wafer1_die12_dut_d
  View CSV Files Delete
- lot12_wafer2_die12_dut_d
  View CSV Files Delete
- lot01_wafer2_die12_dut_d
  View CSV Files Delete



forming_voltage_map (plot a graph based on multiple sheets)
Taskname: forming

- lot339_wafer23
  View CSV Files Delete
- lot342_wafer23
  View CSV Files Delete
- lot350_wafer23
  View CSV Files Delete
- lot340_wafer23
  View CSV Files Delete

	A	B	C	D	E	F
1	Test date	7/17/2023				
2	Test time	20:59:27				
3	Device ID	Die12 DUT2				
4	V1	IBL	conductan	V2	V3	V4
5	0	3.77E-13		0	0.5	0
6	0.03	1.65E-12	5.49E-11	0	0.5	0
7	0.06	4.04E-12	6.73E-11	0	0.5	0
8	0.09	7.40E-12	8.22E-11	0	0.5	0
9	0.12	1.25E-11	1.04E-10	0	0.5	0
10	0.15	2.02E-11	1.35E-10	0	0.5	0
11	0.18	3.13E-11	1.74E-10	0	0.5	0
12	0.21	4.79E-11	2.28E-10	0	0.5	0
13	0.24	7.25E-11	3.02E-10	0	0.5	0
14	0.27	1.07E-10	3.97E-10	0	0.5	0

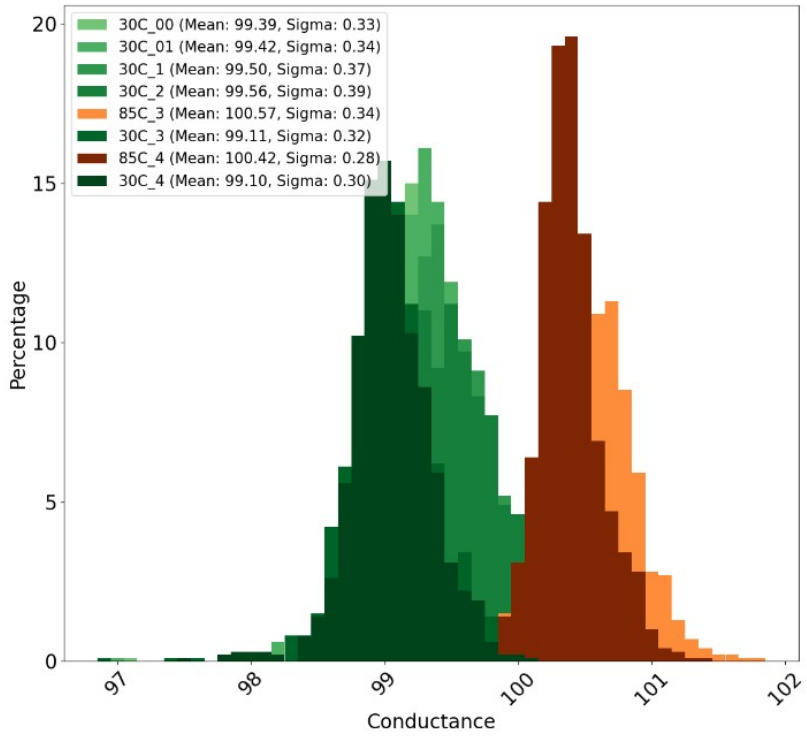
Takes 2 fields for subfolder naming

Require first 4 useless rows for skipping

Calculate forming voltage from first col and second col starting from the fifth row

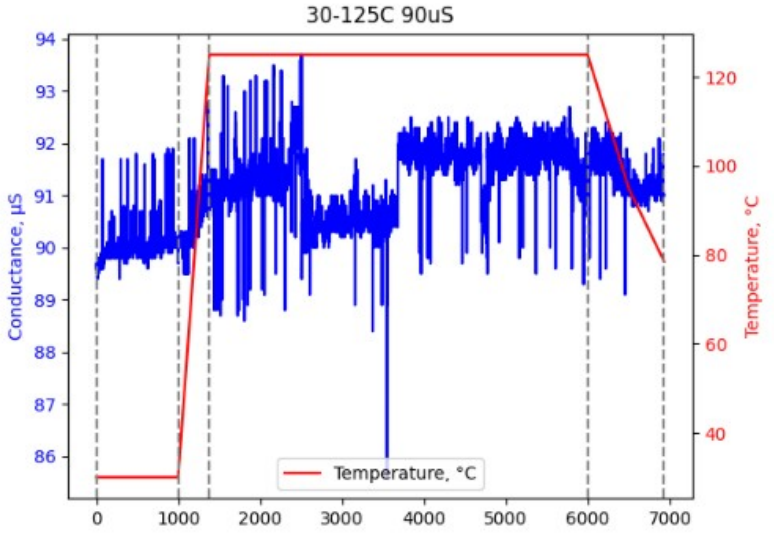
Percentage bars (plot a graph based on a single sheet)
Taskname: percentage

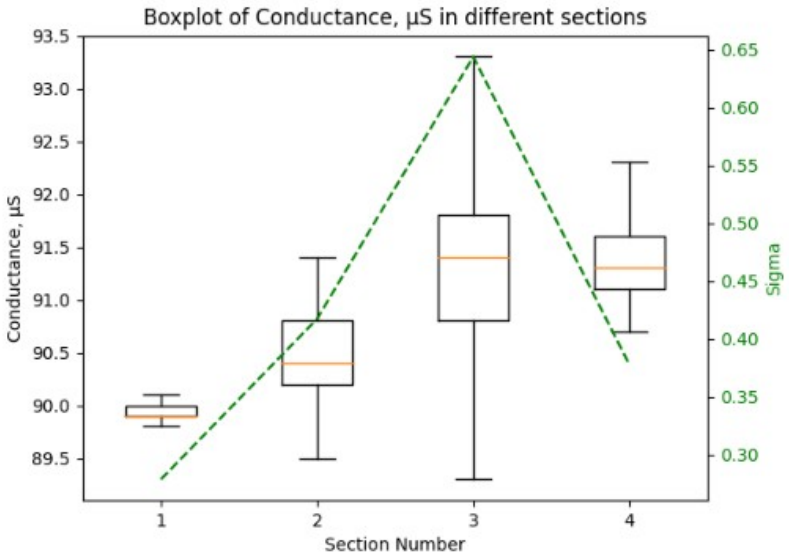
Time	30C_00	30C_01	30C_1	30C_2	85C_3	30C_3	85C_4	30C_4
0.00276	99.661	100.1075	98.9105	100.3785	100.3015	99.286	100.8255	98.0805
1.0007	98.3885	99.309	99.1275	100.288	101.074	99.3765	100.372	99.2255
2.00066	98.204	99.2875	98.737	100.451	100.7125	99.134	100.9075	99.0295
3.0007	98.3765	99.2035	98.4015	100.4205	100.694	99.4985	100.897	98.8535
4.00066	98.5215	99.3615	98.6675	99.566	100.7905	99.2665	100.7625	98.906
5.0007	99.346	99.221	100.208	100.098	100.694	98.9815	99.8755	99.0485
6.00066	99.7245	99.293	100.0945	100.3085	100.972	99.42	100.4285	99.104
7.00066	99.854	99.6195	99.386	100.3165	101.159	98.8895	100.6525	99.121
8.0007	99.3615	99.922	99.748	100.303	100.4365	98.846	100.1315	99.513
9.00066	99.1735	99.629	100.368	99.8925	101.518	99.215	100.9235	99.4055
10.00066	99.2325	99.6015	100.078	99.7085	100.6605	99.345	100.835	98.8355
11.0007	99.317	99.343	99.5605	99.938	100.562	98.953	100.8885	99.1025



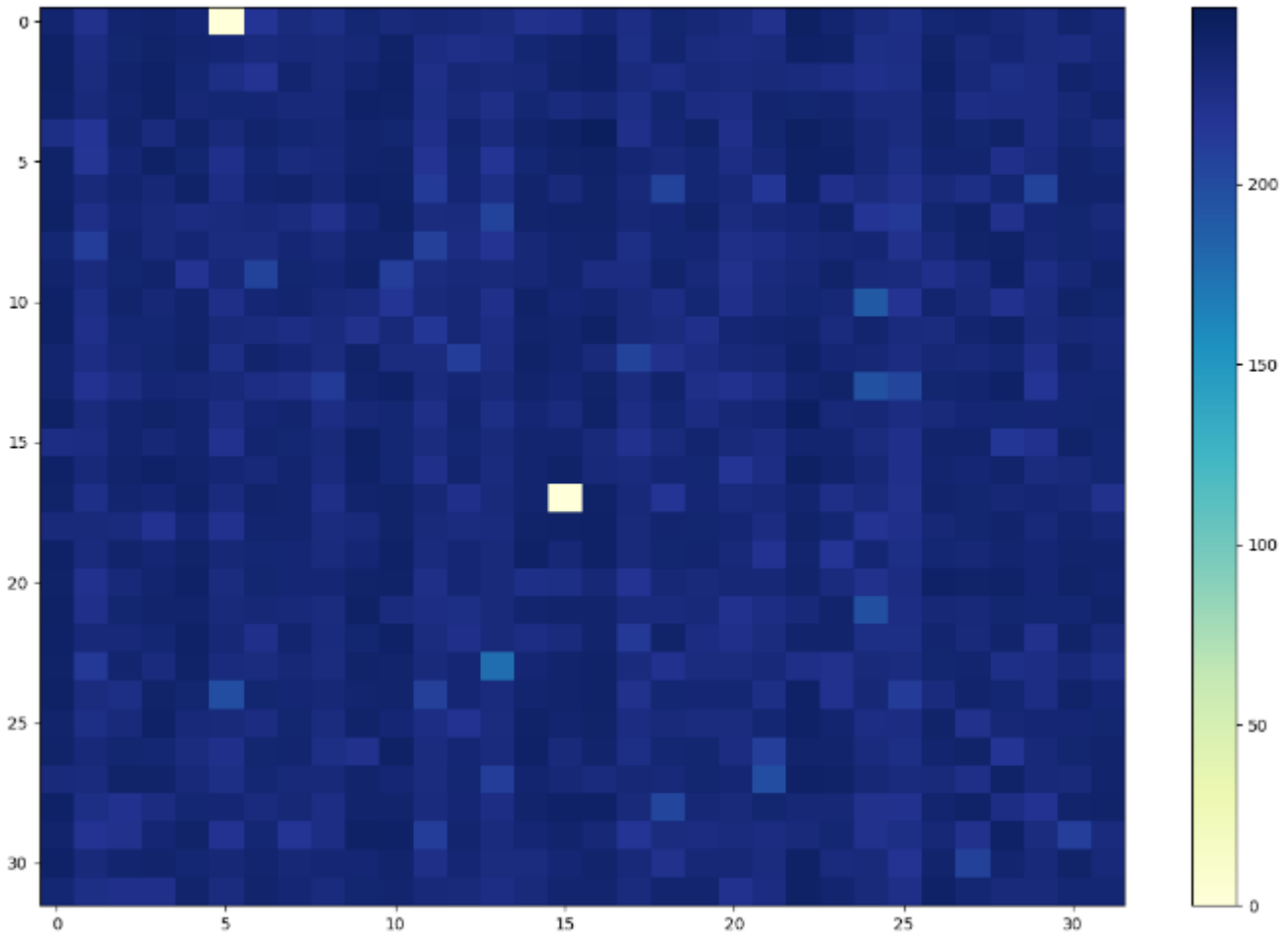
ttc (plot a graph based on a single sheet)
Taskname: ttc

30-125C 90uS	Unnamed: 1	Unnamed: 2	Unnamed: 3	30-125C 100uS	Unnamed: 5	Unnamed: 6	Unnamed: 7	30-85C, 120uS	Unnamed: 9	Unnamed: 10
Time	Conductance, µS	Temperature, °C	None	Time	Conductance, µS	Temperature, °C	None	Time	Conductance, µS	Temperature, °C
0.00285	89.6	30	None	0.00292	99.996	30	None	0.00285	120.715	30
1.00066	89.7	30	None	1.00066	99.6285	30	None	1.00074	120.817	30
2.0007	89.7	30	None	2.0007	99.713	30	None	2.0007	120.411	30
3.0007	89.6	30	None	3.0007	100.0855	30	None	3.00074	120.91	30
4.00066	89.5	30	None	4.00066	99.829	30	None	4.00069	120.8375	30
5.00066	89.5	30	None	5.00074	99.9955	30	None	5.0007	120.512	30
6.0007	89.5	30	None	6.0007	99.859	30	None	6.00066	120.2685	30



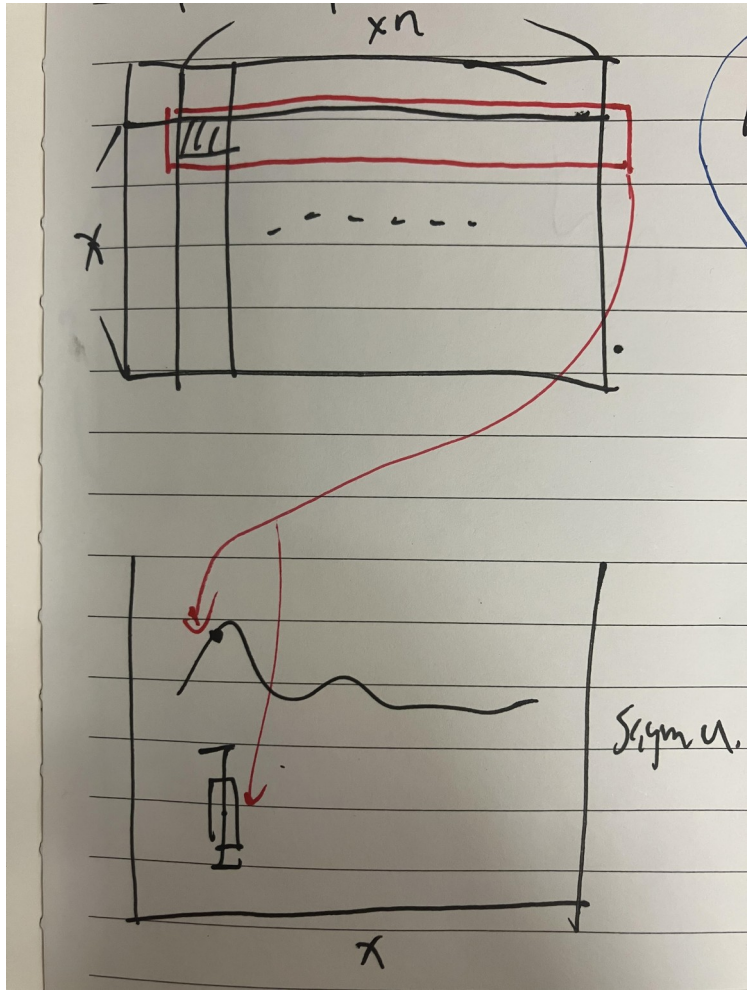


endurance (plot graphs based on a single sheet)
Taskname: endurance



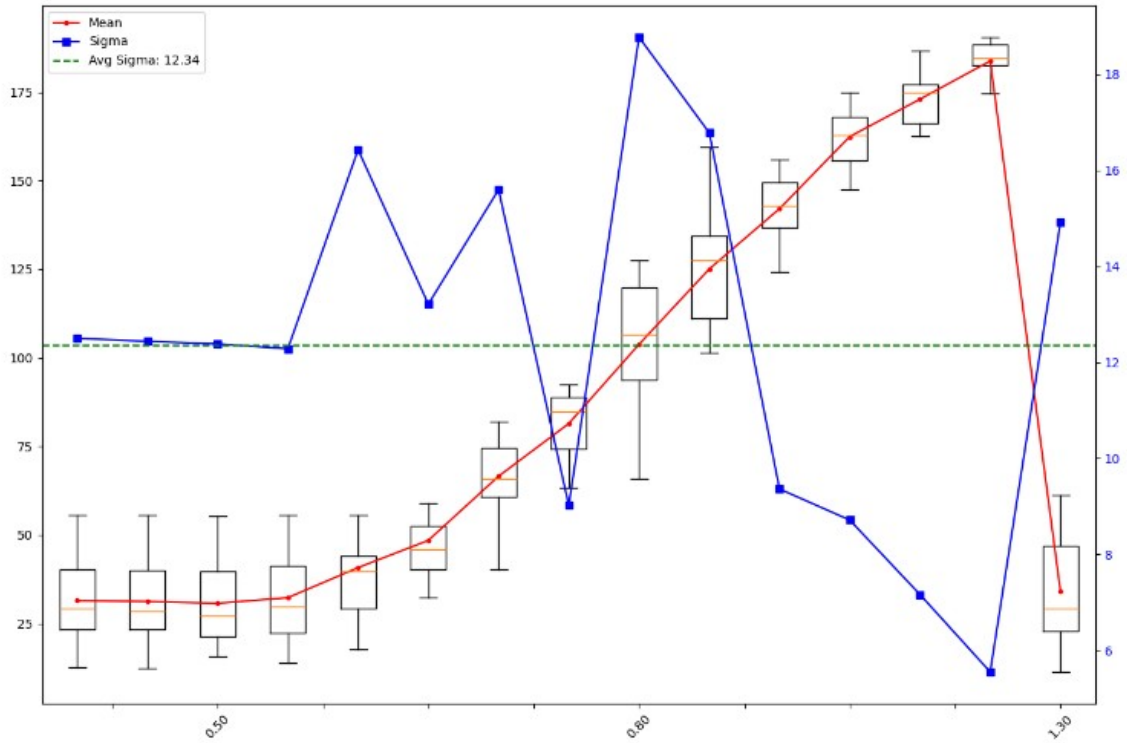
Require npy fileformat for upload

horizontal_boxplotsigma_xnxm (plot a graph based on multiple sheets)
Taskname:boxplot2

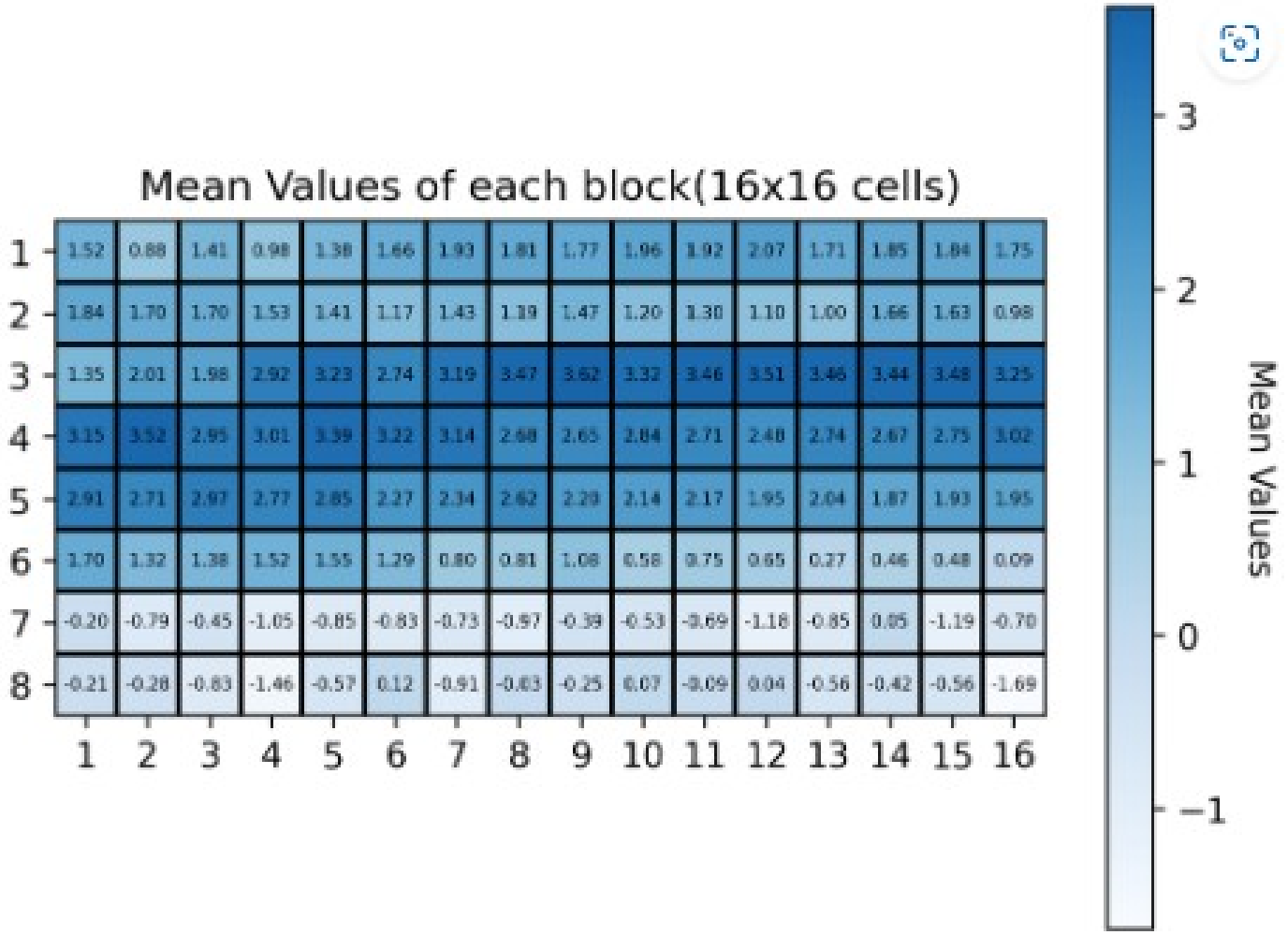


Leave the first row blank coz it takes data starting from the second row

Similar to horizontal_boxplotsigma_xn, but allow multiple sheets to plot together



Checkerboard (plot a graph based one sheets)
Taskname: checkerboard



128x256 cells
16x16 a block mean

Delta = target-programmed