

klib2-ReadKitronyxCsv

GitHub repository for reading Kitronyx snapshot files and log files

Code Purpose

Collection of sample code and source code in various programming languages for aggregating data from Snapshot and Log folders' converted CSV files using Kitornyx products

FolderTree

```
DataStatistics
|
| README.md
| README.pdf
|
├── res
|   └── MatLABSampleResult.png
|
├── SampleCode
|   ├── calc_node_rsd.m
|   ├── calc_node_SumMaxMinAvg.m
|   ├── calc_node_XRAD.m
|   ├── main.m
|   └── Read_snapshot_1_dimension_data.m
|
|   └── SampleSnapshotData
|       ├── 20240227T170929_AdcData-1d.csv
|       ├── 20240227T170929_AdcData-2d.csv
|       ├── 20240227T170929_ForceData-1d.csv
|       ├── 20240227T170929_ForceData-2d.csv
|       ├── 20240227T170929_snapshot-frame.jpg
|       └── 20240227T170929_snapshot-real_time_analyzer.jpg
|
└── src
    ├── calc_node_rsd.m
    ├── calc_node_SumMaxMinAvg.m
    └── calc_node_XRAD.m
```

MATLAB

Version: R2023b Update 7 (23.2.0.2515942) 64bit January 30, 2024

Code Description

calc_node_SumMaxMinAvg.m

- MATLAB file containing a function to calculate sum, average, maximum, and minimum values for all nodes.
- Returns [node_sum, node_max,node_min,node_avg] when given a 1D matrix data as a parameter.
- node_sum: Sum of all nodes
- node_avg: Average of all nodes
- node_max: Max value of all nodes
- node_min: Min value of all nodes

calc_node_rsd.m

- MATLAB file containing a function to calculate Standard deviation and Relative Standard deviation values for all nodes.
- Returns [node_std, node_rsd] when given a 1D matrix data as a parameter.
- node_std: Standard deviation of all nodes
- node_rsd: %RSD of all nodes

calc_node_XRAD.m

- MATLAB file containing a function to calculate %XRAD values for all nodes.
- Returns [node_XRAD] when given a 1D matrix data as a parameter.
- node_XRAD: %XRAD of all nodes

main.m		이름	값	클래스
명령 창	sum of all nodes:	col	48	double
	483883	data	1x2304 do...	double
	max value of all nodes:	node_avg	210.0187	double
	211	node_max	211	double
	min value of all nodes:	node_min	209	double
	209	node_rsd	0.1191	double
	average of all nodes:	node_std	0.2502	double
	210.0187	node_sum	483883	double
	Standard deviation of all nodes:	node_XRAD	0.4673	double
	0.2502	row	48	double
	%RSD of all nodes:			
	0.1191			
	%XRAD of all nodes:			
	0.4673			