

# 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

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|   README.md
|
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|   +---SampleCode
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|   |   |   Read_snapshot_1_dimension_data.m
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|   |   |       20240227T170929_ForceData-1d.csv
|   |   |       20240227T170929_ForceData-2d.csv
|   |   |       20240227T170929_snapshot-frame.jpg
|   |   |       20240227T170929_snapshot-real_time_analyzer.jpg
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|       Read_snapshot_1_dimension_data.m
|
+---Python
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|   |   |   main.py
|   |   |   ReadKitronyxCsv.py
|   |   |
|   |   +---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
|   |   |
|   |   +---Sample_ConvertLogFilePage 01
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|   |   |   20240311T142511_ForceData-1d.csv
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|   |   |
|   |   \---__pycache__
|   \---src
|           ReadKitronyxCsv.py
|
\---res
        MatLABSampleResult.png
        PythonSampleResult.png

```

## Python

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Program tools : Vs Code (Vesion 1.87.1)

Vs code Python Version: v2024.2.1

## Code Description

```

ReadKitronyxCsv.py
-Collection of functions to read Kitronyx snapshot and log CSV files

def Read_snapshot_1_dimension_data(path):
- Function to read snapshot 1D files
- Takes a 1D CSV path as a parameter and returns [row, col, data]
- row: ROW - number of columns
- col: COL - number of rows
- data: Matrix data of size ROW*COL

def Read_ConvertLogFile_1_dimension_data(path):
- Function to read log 1D files
- Takes a 1D CSV path as a parameter and returns [row, col, data_dict]
- row: ROW - number of columns
- col: COL - number of rows
- data_dict: Dictionary format data
  - keys: Time values
  - values: Matrix data of size ROW*COL

```

[illegible]

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

```
Read_snapshot_1_dimension_data.m
```

- MATLAB file containing a function to read snapshot 1D files
- Returns [row, col, data] when given a 1D CSV path as a parameter.
- row: ROW - number of columns
- col: COL - number of rows
- data: Cell array data of size ROW\*COL

```
Read_ConvertLogFile_1_dimension_data.m
```

- MATLAB file containing a function to read log 1D files
- Returns [row, col, data\_dict] when given a 1D CSV path as a parameter.
- row: ROW - number of columns
- col: COL - number of rows
- data\_dict: Map format data
  - keys: Time values
  - values: Cell array data of size ROW\*COL

