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# 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**

```
ReadKitronyxCsv
 LICENSE
 README.md
-MatLAB
 +---SampleCode
         main.m
         Read_ConvertLogFile_1_dimension_data.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
     \---Sample_ConvertLogFilePage 01
             20240311T142511_AdcData-1d.csv
             20240311T142511_AdcData-2d.csv
             20240311T142511_ForceData-1d.csv
             20240311T142511_ForceData-2d.csv
 \---src
         Read_ConvertLogFile_1_dimension_data.m
         Read_snapshot_1_dimension_data.m
 Python
 +---SampleCode
         main.py
         ReadKitronyxCsv.py
     +---SampleSnapshotData
             20240227T170929_AdcData-1d.csv
             20240227T170929_AdcData-2d.csv
```

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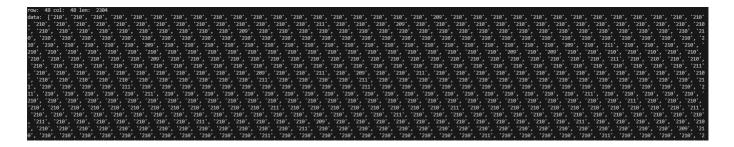
## Python

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
```

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#### **MathLAB**

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

#### **Code Description**

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

