

CSV Signal file format 2022

2022-03-11:

The signals csv files are stored in folder called Processed_Data under the Datafiles folder of the experiment. Note that before they were stored in Signals folder that was directly under the experiment folder.

A CSV file contains only signals of one group of signals with a common time sampling and length. The first signal in the group is the time signal if available. A group of signals is characterized by its Source, Elaboration, Sampling and Version. The number of notes is constant for all the signals in one file but it can be different from other files with other signals.

-----Source

CTRL: controller node

STD: standard acq node

PHYS: physical DoFs

HYBR: hybrid system DoFs

-----Elaboration

ORIG: measured (or controller computed)

DER: derived by posttreatment

IDEN: identified by posttreatment

-----Sampling

av: record average

ins: instantaneous

con: constant average

re: resampled

-----Version

"" (empty value): primary version

n: version number n

Csv file name example: **a15-CTRL-ORIG-av-2.csv**

Csv file content example (with 5 signals with 5 notes). Note that the first column is always the name of the field for every row. Content of the file:

```
groupName, CTRL-ORIG-av-2, CTRL-ORIG-av-2, CTRL-ORIG-av-2, CTRL-ORIG-av-2, CTRL-ORIG-av-2
source, CTRL, CTRL, CTRL, CTRL, CTRL
sourceDescr, controller acq, controller acq, controller acq, controller acq, controller acq
elaboration, ORIG, ORIG, ORIG, ORIG, ORIG
elaborationDescr, measured (or controller computed), measured (or controller computed), measured
(or controller computed), measured (or controller computed), measured (or controller computed)
sampling, av, av, av, av, av
samplingDescr, record average, record average, record average, record average, record average
version, 2, 2, 2, 2, 2
versionDescr, , , , ,
name, 001,002,003,004,005
description, ,Heidenhain,Heidenhain,Heidenhain,Heidenhain
magnitude, Time,Displacement,Displacement,Displacement,Displacement
unit, s,m,m,m,m
note1, ,Con 1,Con 2,Con 3,Con4
note2, ,S,S,N,N
note3, ,Level 1, Level 2 ,Level 2 ,Level 1
note4, , , , ,
note5, , , , ,
value, 0.002501250012,-1.163914148e-05,-6.639465224e-06,-6.347446237e-06,-1.888904604e-06
value, 0.007501250133,-3.175689606e-06,1.043145359e-05,1.2424591e-05,6.962066516e-06
```

value, 0.01250125002,7.343826583e-07,1.525757182e-05,2.320202626e-05,1.376422122e-05

value, 0.01750124991,-2.325660782e-06,-5.457458319e-07,1.45950662e-05,1.389453467e-05

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