
Config files

Explanation of config files for running and processing TRNSYS files using PyTrnsys

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14st October of 2019

Abstract

This report explains the main functionalities included in the config files for the running and processing of TRNSYS results.

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1. Introduction

The idea of the config files is to include general functionality without having to type python code for the user. Thus, this config file will grow as long as users believe some functionality is used so often that its worth to implemente it within the config file. All the functionality not included in the config file will need to be implemented as python code and thus will be a bit limited to those knowing how to program in python.

There are several types of variables with scape separator:

- **bool** :with True/False as possible value
- **int** : with any interger as possible value
- **string** : with "any string" as possible value
- **deck** : with any float as possible value
- **STRING\$**: ddck file path. STRING\$ needs to define one path of the ddck folder.
- **fit** : ask Mattia
- **case** : ask Mattia
- **fitobs** : ask Mattia

2. Revision history

Date	Version	Author	Changes
Oct 14, 2019	v1.0	D. Carbonell	First version released

3. Config file for running TRNSYS cases

Type	Name	Description
bool	ignoreOnlinePlotter	It comments all online plotters
bool	runCases	if set to False it created all cases but do not execute TRNSYS
bool	parseFileCreated	to check
int	reduceCpu	uses the value to reduce the number of CPU. Suggested 1 or 2 if you would like to work when parallel simulations are running
string	runCase	"runFromCases" : runs the cases defined in a file and path defined by strings pathWithCasesToRun and fileWithCasesToRun. "runFromFolder" : It executes all the cases found in a specific folder defined by string pathFolderToRun. This used to execute failed cases that were moved to a specific folder. "runFromConfig" : it builds and executes the cases as defined in the config file
string	pathWithCasesToRun	"path" of file with cases to run. Only active if runFromCases=True
string	fileWithCasesToRun	"fileName" added to the pathWithCasesToRun defined. Only active if runFromCases=True
string	pathFolderToRun	"path" of the folder with all cases to run. Only active if runFromFolder=True
string	trnsysExePath	including the exe file, e.g. "C:/Trnsys17/Exe/TRNExe.exe"
string	addResultsFolder	False to deactivate. If defined as a "stringPath" it creates a folder on the main path and creates all simulations folders inside this folder path
string	STRING\$	the symbol \$ denotes a path used for find ddck files. The STRING\$ defined can be used as path to look for the ddck files.
variation	see format	It builds dck files using all variation given. By default all permutations are used. Format: variation nameFolderResults nameVariableDDck listOfvalues. Example: variation Ac AcolAp 100 200
deck	any ddck variable	It changes the value (only int or float accepted) of the variable
STRING\$	fileNamePath	The file path will be added to the STRING\$ path