

TVC Profile definition

A TVC Profile is loaded by EGSE SW through definition of a CSV file.

CSV file must fullfil the following definition:

Name	def init ion	typ e	id	delay _or_s tep_d urati on	axi s	of fs et	is_2 00H z_c md	ampl_ or_ste pinc_o r_final pos1	fin alp os2	nb_ite m_or_ first_p att_nu m	nb_re pet_or _last_ patt_n um	slo pe	inte rval _du rati on
Type of data	<i>enu me rate</i>	<i>en um erate</i>	<i>int</i>	<i>float</i>	<i>en um erate</i>	<i>fl o at</i>	<i>bool</i>	<i>float</i>	<i>flo at</i>	<i>int</i>	<i>int</i>	<i>flo at</i>	<i>floa t</i>
Field numbe r	<i>0</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>	<i>12</i>
Definiti on of 1 sinus patter n	pat ter n	sin us	sinu s_nu m	delay	-	of fs et	true	amplit ude	-	nb_poi nts	nb_rep et	-	-
Definiti on of 1 squar e patter n	pat ter n	squ are	squa re_n um	step_ durati on	-	of fs et	true	step_in cremen t	-	nb_ste ps	-	-	-
Definiti on of 1 bang bang patter n	pat ter n	ban gba ng	ban gba ng_ num	delay	-	of fs et	true	final_p osition	-	-	-	slo pe	-
Definiti on of 1 trape zoid patter n	pat ter n	tra pez oid	trap ezoi d_n um	step_ durati on	-	of fs et	true	final_p osition 1	fin al_p osit ion 2	-	-	slo pe	inte rval _du rati on

Definition of 1 sinus bloc	blo c	sin us	seq_ num	delay	axis	-	-	-	-	first_p attern _num	last_p attern _num	-	-
Definition of 1 square bloc	blo c	squ are	seq_ num	delay	axis	-	-	-	-	first_p attern _num	last_p attern _num	-	-
Definition of 1 bang bang bloc	blo c	ban gba ng	seq_ num	delay	axis	-	-	-	-	first_p attern _num	last_p attern _num	-	-
Definition of 1 trapezoid bloc	blo c	tra pez oid	seq_ num	delay	axis	-	-	-	-	first_p attern _num	last_p attern _num	-	-

Readability

- blank lines are allowed to improve readability of file
- comment lines beginning with # are allowed to improve readability of file

Constraints

- *type* column only contains items of {*sinus*, *square*, *bangbang*, *trapezoid*} list
- *delay_or_step_duration* >= 0
- *is_200Hz_cmd* column = True
- within same pattern definition, id's must be unique (for example, two sinus pattern shall not have the same id's)

sinus patterns

- *amplitude* must be > 0
- *nb_points* must be > 0
- *nb_repet* must be > 0

square patterns

- *step_duration* > 0
- *step_increment* > 0
- *nb_steps* >= 2
- *nb_steps* is even
- *nb_steps* <= 30

- *step_duration* > 0

trapezoid pattern

- *slope* > 0
- *step_duration* >= 0
- *interval_duration* >= 0

bangbang pattern

- *slope* > 0

bloc definition

- id's must be unique
- *seq_num* >= 1
- *axis* is in {« *U* », « *V* », « *+U+V* », « *+U-V* »} list
- *fisrt_pattern_num* >= 0
- *last_pattern_num* >= 0
- sinus bloc: *fisrt_pattern_num* and *last_pattern_num* must exist in sinus patterns
- square bloc: *fisrt_pattern_num* and *last_pattern_num* must exist in square patterns
- bangbang bloc: *fisrt_pattern_num* and *last_pattern_num* must exist in bangbang patterns
- trapezoid bloc: *fisrt_pattern_num* and *last_pattern_num* must exist in trapezoid patterns

Fichier

Verrouillé par Modifié(e)
