Deprecated Solver Keywords

As with all software, over time features are re-worked or removed from VehicleSim. Instead of simply removing the features without warning, there is a deprecation grace-period where the functionality still exists to provide ample time to transition to the new methods.

With solver keywords, we provide a series of aliases for working with VehicleSim solver keywords when old ones are deprecated. This provides backwards compatibility for old models while allowing the support of the current keywords.

When a deprecated keyword is invoked, it prints a message into the Log File so that it is known it is being used.

In the following table, the dates indicate when each alias was introduced. The aliases are identified as applying for parameters (PAR), Configurable Function components (CF), state variables (SV), or import variables (IMP).

Some of the keywords are indexed. In these cases, %d indicates a digital value of 1 or greater, and %s indicates an optional string of text, which might be a blank, a letter, a digit, or a set of indices.

Table 1. Deprecated keywords

Old Keyword (Alias)	Current Keyword	Date	Type	Removal
CS_OPT(%s)	OPT_CS(%s)	2019	PAR	2023.0
H_CG_PL(%d)	Z_CG_PL(%d)	2015		
H_RP(%d)	Z_RP(%d)	2014		
H_S(%d)	Z_S(%d)	2014		
IMP_FX_EXT_%d	IMP_FX_RP_%d	2014	IMP	
IMP_FXGEXT_%d	IMP_FX_RP_%d			
IMP_FY_EXT_%d	IMP_FY_RP_%d			
IMP_FYGEXT_%d	IMP_FY_RP_%d			
IMP_FZ_EXT_%d	IMP_FZ_RP_%d			
IMP_FZGEXT_%d	IMP_FZ_RP_%d			

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Old Keyword (Alias)	Current Keyword	Date	Type	Removal
IREFPT	IREF_PT	2014	PAR	
LTARG_DM	LTARG_ID_DM	2019		
LX_CG_PL(%d)	X_CG_PL(%d)	2015		
LY_CG_MAIN	Y_CG_MAIN	2019		
OPT_DRIVER_LOOP	OPT_PATH_LOOP	2014		
OPT_DRIVER_MODEL	OPT_DM	2018		
OPT_ID_PATH_DM	PATH_ID_DM	2019		
OPT_INIT_ROAD	OPT_INIT_PATH	2019		
OPT_PT	INSTALL_POWERTRAIN	2021		
OPT_RECT_OBJ(%d)	SHAPE_TYPE_OBJ(%d)	2019		
OPT_ROAD	CURRENT_ROAD_ID	2015		
OPT_ROAD_LOOP	OPT_PATH_LOOP	2014		
OPT_ROLL_MAX	ROLL_MAX_STOP	2017		
OPT_SENSOR	OPT_DRIVER_PREVIEW_SENSORS	2014		
OPT_SSTOP	OPT_STOP	2014		
OPT_STEER	OPT_STR_BY_TRQ	2019		
OPT_VMAX	VMAX_STOP	2019		
OPT_VMIN	VLOW_STOP	2017		
SPATH	SPATH_START	2014	CF	
SPEED	SPEED_TARGET_CONSTANT			2023.0
SPEED_STATION_COEFFICIENT	SPEED_TARGET_S_COEFFICIENT			
SPEED_STATION_CONSTANT	SPEED_TARGET_CONSTANT			
SPEED_STATION_EQUATION	SPEED_TARGET_EQUATION			
SPEED_STATION_GAIN	SPEED_TARGET_GAIN			
SPEED_STATION_OFFSET	SPEED_TARGET_OFFSET			
SPEED_STATION_TABLE	SPEED_TARGET_S_TABLE			
SPEED_TIME_COEFFICIENT	SPEED_TARGET_COEFFICIENT	2014	CF	
SPEED_TIME_CONSTANT	SPEED_TARGET_CONSTANT			
SPEED_TIME_EQUATION	SPEED_TARGET_EQUATION			
SPEED_TIME_GAIN	SPEED_TARGET_GAIN			
SPEED_TIME_OFFSET	SPEED_TARGET_OFFSET			
SPEED_TIME_TABLE	SPEED_TARGET_TABLE			
SSCALE_SPEED_CTRL	SSCALE_SPEED_TARGET			
SSTART_SPEED_CTRL	SSTART_SPEED_TARGET			
SV_A_COL%s	SV_SWA%s			
SV_A_IN_GR%d	SV_STR_IN_GR_A%d			
SV_DA_COL%s	SV_AV_SW%s	2018	SV	
SV_DA_IN_GR%d	SV_STR_IN_DGR_A%d			
SV_THR_DEL	SV_THROTTLE			
T_EVENT_START	TSTART_T_EVENT	2014	PAR	
TC_THR_APP	TC_TH_APP	2018		
TC_THR_REL	TC_TH_RELEASE			
TSCALE_SPEED_CTRL	TSCALE_SPEED_TARGET	2014	CF	
TSTART_BRAKES	TSTART_PBK_CON	2020		
TSTART_SPEED_CTRL	TSTART_SPEED_TARGET	2014		
VLOW_DRIVER	VLOW_DM	2018	PAR	

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Old Keyword (Alias)	Current Keyword	Date	Type	Removal
`X_RdS_%d`	`X_Targ%d`	2017		2023.0
`Y_CG_FORK(1)`	`LY_CG_FORK(1)`	2019		
`Y_CG_FORK(3)`	`LY_CG_FORK(3)`	2019		
`Y_RdS_%d`	`Y_Targ%d`	2017		