仿真运行过程说明

ACC 系统使用 Carsim(2019.0)联合 MATLAB/Simulink(2018b)仿真,

ACC_constant.cpar 文件表示使用定距离巡航,ACC_safe.cpar 文件基于安全距离巡航。求解结果包含于文件中(先定速巡航遇到前车后跟随巡航)。工况和环境设置均在 ACC_Adaptive 类下。

(1) 定距离巡航

Simulated Test Specifications		Run Control with Simulink	Analyze Results (Post Processing)		
Math Model: Ind_Ind	ve	Run Now Send to Simulink Models:	<u>V</u> ideo	Video + Plot	☑ Set color
C-Class, Hatchback	V	ACC_constant	180	deg. Azimuth, 15 deg. I	El., Veh. Ref.
Procedure	~	Do not set file type here 🔻 🗆 Write all outputs	Keep La	st 🔻 Most	Recent Output
vx=0	~	Output Variables:	Plot	More plots: 3 🔻	✓ Only these p
now more options on this screen				,	D Ti #4
Miscellaneous Data		Some buttons are dimmed because the data set is	Longitudinal Speed (Vxz_Fwd) vs. Time #1		
Miscellaneous: 3D Road	4	locked Set time step here	Distances for Closest 2 Objects, Sensor 1		
1200 m, One Lane, Mu = 0.85	~		Lor	ngitudinal Accel. of CG	s vs. Time
Miscellaneous: Generic Group	₹				
Adaptive Curise and Follow	v	Do not set time, station, or direction here			
Miscellaneous:	4				

选择 datasets 中 my_acc 类下的 ACC_constant, 具体设置如上图所示

(2) 安全距离巡航



选择 datasets 中 my_acc 类下的 ACC_safe, 具体设置如上图所示