OpenPASS Questions



To be as specific as possible in what we would like to know, some of the questions are presented over the screenshot of the function in question

Please read carefully

Thank you

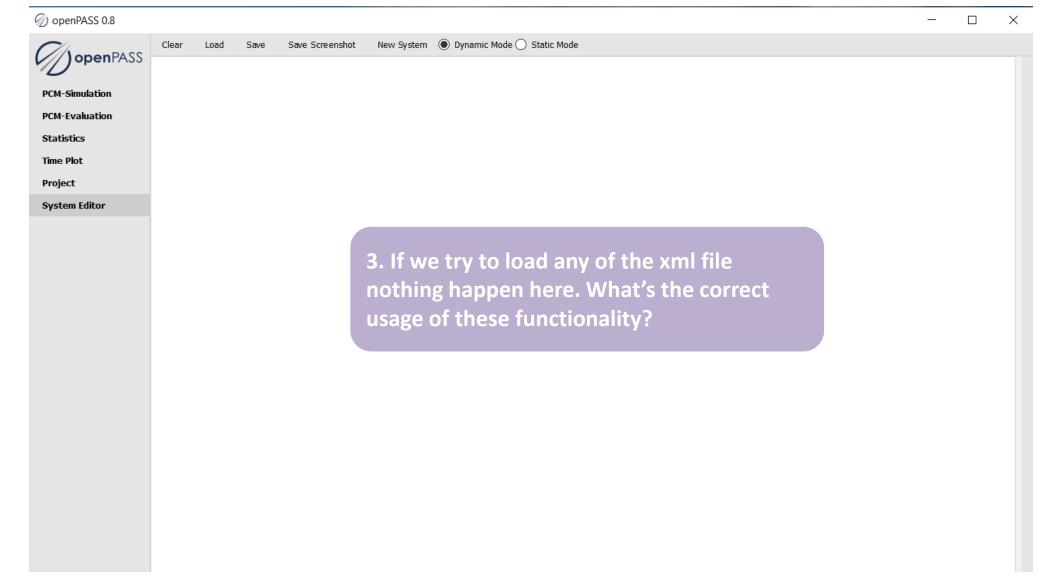
Fernando Chirici

Rewarded with a smile



GUI Plug-in – Project Settings

After loading Agent Follow.xml



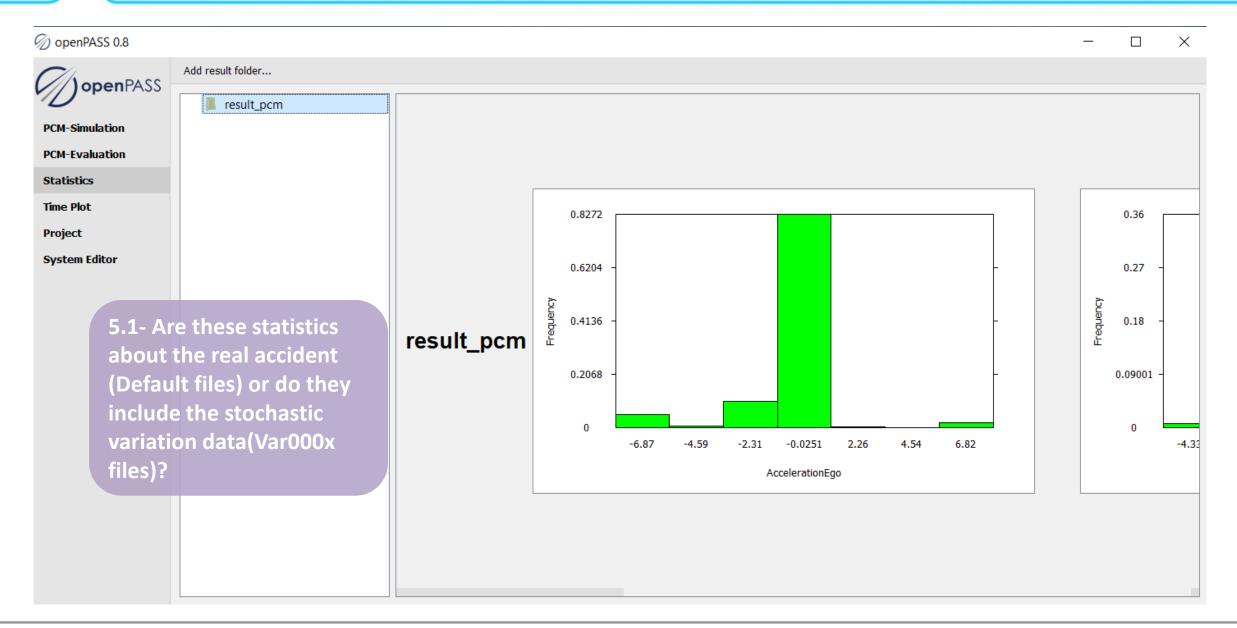
6 openPASS 0.8

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0/) openPASS	Browse Result Files								
	✓ 🖡 result_pcm	Cyclics_Run_000.cs	v_0 Cyclics_Run_	000.csv_1 Cyclics_	Run_000.csv_0	Cyclics_Run_000.csv_1	Cyclics_Run_00	0.csv_0 Cyclics_Run_000.	csv_1
PCM-Simulation	✓ 1060755	Timestep	AgentId	AccelerationEgo	VelocityEgo	XPosition	YPosition	YawAngle	
PCM-Evaluation	Default Default Var_00001 Var_00002	0	0	-0.000000	15.557300	70.992100	-29.417200	2.767000	
Statistics		10	0	-0.167841	15.557300	70.847315	-29.360277	2.767000	
Time Plot		20	0	-0.246399	15.555622	70.702530	-29.303354	2.767000	
Project	 ✓ ■ 1190874 ✓ ■ 0-0-0 	30	0	0.264036	15.553158	70.557764	-29.246429	2.766988	
System Editor	System Editor Default Var_00001 Var_00002	40	0	-0.079790	15.555798	70.413024	-29.189504	2.766963	
		50	0	-0.328122	15.555001	70.268263	-29.132559	2.766924	
		60	0	0.014435	15.551720	70.123514	-29.075608	2.766871	
	or-code: We don't know		0	0.359879	15.551864	69.978799	-29.018658	2.766802	
	ch agent and in case of		0	-0.107331	15.555463	69.834088	-28.961697	2.766719	
	now which line represe (default, var001, var00		0	-0.100397	15.554390	69.689347	-28.904710	2.766621	
	y to fix these?			````		\$			
4.2-Also w	hich one is Ego and wh	ich one is				*			
	from the PCM data?								
Is there a v	Is there a way to get this information?								

ΤΟΥΟΤΑ

GUI Plug-in -- statistics between results



OpenPASS GUI – outputs summarized

In the next slides there is a summary of the output parameters relative to the ExtendedCollisionInformation

Since we couldn't fin any documentation we try to understand these data

Please read it and tell us if there is something that has been wrongly interpretated

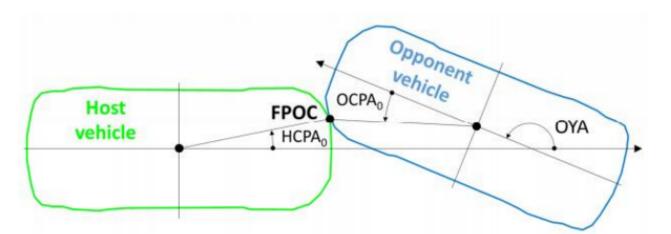
In particular please give us some feedback on the one marked in red:

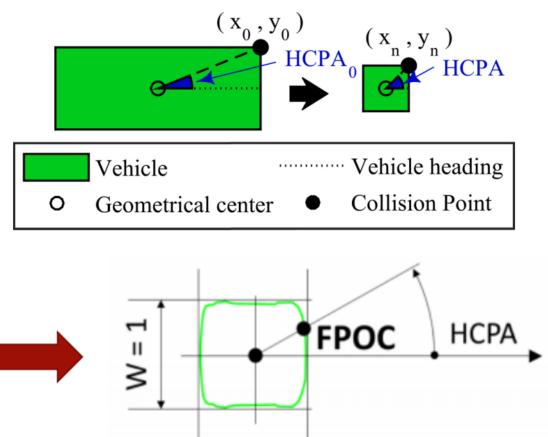
- Key="OYA" Why is there only the opponent yaw angle? Why not the Ego Yaw Angle?
- Key= "Velocity" and "Opponent Velocity" -- At what time steps are these parameters referring to?
- Key= "VelocityDirection" and "OpponentVelocityDirection" -- What exactly does these parameters represent?

<Event Time="xxxx" Source="OpenPASS" Name="ExtendedCollisionInformation">

Parameter	Example	Notes
Key="HCPA"	Value="173.412230"	Host Collision Point Angle relative to vehicle
Key="OCPA"	Value="-45.002738"	Opponent Collision Point Angle relative to vehicle
Key="HCPAo"	Value="177.245061"	HCPA at first point of contact
Key="OCPAo"	Value="-22.621809"	OCPA at first point of contact
Key="OYA"	Value="68.501194"	Opponent Yaw Angle. Why not for Ego?
Key="OpponentCollisionVelocity"	Value="8.280934"	m/s
Key="CollisionVelocity"	Value="4.119117"	m/s
Key="OpponentPointOfContactLocalX"	Value="1.781848"	Coordinate
Key="OpponentPointOfContactLocalY"	Value="-0.749684"	Coordinate

- FPOC: first point of contact
- HCPA: Host Collision Point Angle
- OCPA: Opponent Collision Point Angle
- OYA: Opponent Yaw Angle





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The vehicle is scaled to a unit-size, allowing for comparison of crash configurations between vehicles of different dimensions. The first point of contact (x0,y0) is scaled to generate the normalized coordinates (xn, yn), which, in return, defines the HCPA relative to the vehicle's heading.

<Event Time="xxxx" Source="OpenPASS" Name="ExtendedCollisionInformation">

Parameter	Example	Notes
Key="PointOfContactLocalX"	Value="-1.983403"	Coordinate
Key="PointOfContactLocalY"	Value="-0.194611"	Coordinate
Key="Velocity"	Value="4.901951"	Velocity at which TS?
Key="OpponentVelocity"	Value="6.325802"	Velocity at which TS?
Key="OpponentSliding"	Value="1"	Boolean
Key="Sliding"	Value="1"	Boolean
Key="OpponentYawVelocity"	Value="-1.242858"	m/s
Key="YawVelocity"	Value="-2.219941"	m/s
Key="VelocityChange"	Value="2.001956"	m/s
Key="OpponentVelocityChange"	Value="2.001956"	m/s

<Event Time="xxxx" Source="OpenPASS" Name="ExtendedCollisionInformation">

Parameter	Example	Notes
Key="CollisionWithAgent"	Value="1"	Boolean
Key="OpponentVelocityDirection"	Value="-1.637885"	Vector?
Key="VelocityDirection"	Value="-2.360998"	Vector?

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Thank you for your time!

