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Compute_Planar_Angle

This function computes a planar angle between three points as diagramed in the first dialog below, or four points as diagramed in the second dialog below. The location of the points displayed corresponds to the combo boxes containing the signal.

It is possible to compute a 3D angle, or to project the vectors onto one of the principal planes. If the user wants to project onto an arbitrary plane, transform the points into another coordinate system then project onto one of the principal planes of this new coordinate system.

The user can select to use a Right Hand or Left Hand Rule to define the sign of the angle.

The user can select the range 0 - 360 degrees or -180 to 180 degrees.

3D angles can only be computed to 0 - 180 degrees unless a normal vector is specified.

Compute_Planar_Angle /SIGNAL_TYPES=The type of signal to be processed ! /SIGNAL_NAMES=The names of the signals to be processed ! /SIGNAL_FOLDER=The name of the signal folder /RESULT_NAME=The name of the resulting signal. ! /RESULT_FOLDER=The name of the resulting folder. ! /COMPUTE_3PT_ANGLE= {TRUE=3PT, FLASE=4PT} ! /NORMALX= The normal vector to the 3D angle ! /NORMALY= ! /NORMALZ= ! /REFERENCE_SEGMENT=LAB ! /PROJECTION_PLANE=XY ! /USE_RIGHT_HAND_RULE=TRUE ! /USE_0_TO_360_DEGREES=TRUE ; 

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