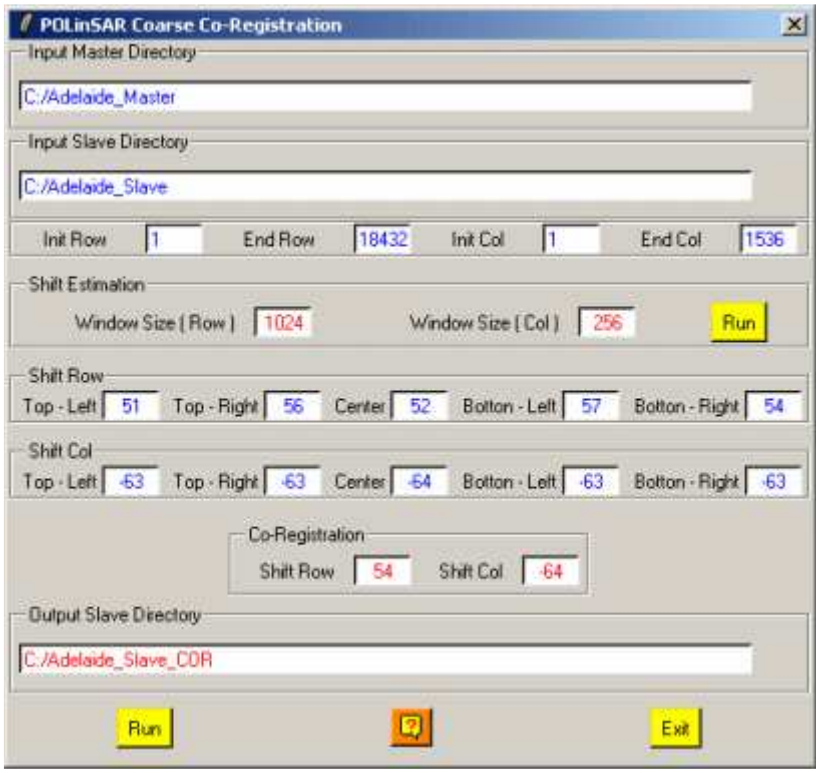
Coarse Coregistration



Description:

This function applies a spectral analysis to estimate the shift, in rows and cols, between time-series **2 x** (2x2) complex Sinclair **[S2]** raw binary data elements.
The Coarse Coregistration is based on amplitude correlation, using five patches over the image (Top-Left, Bottom-Left, Center, Top-Right, Bottom-Right).
This function then applies the coarse coregistration on the time-series (2x2) complex Slave Sinclair **[S2]** raw binary data elements.

Comments:

Parameters written in Red can be modified directly by the user from the keyboard.

Input/Output Arguments:

Input Reference Directory	Indicates the location of the considered **Reference Main Directory (M-MD)** containing the polarimetric data sets to be processed.
Input Next Directory	Indicates the location of the considered **Next Main Directory (S-MD)** containing the polarimetric data sets to be processed.

Output Image Number of Rows/Columns:

The output image numbers of rows and columns are initialised to the input data set dimensions.
Users wishing to process a sub-part of the initial image can modify the **Init** and **End** values of the converted images rows and columns.
Note: init and end values have to remain within the range defined by the input image dimensions.

Shift Estimation:

Window Size Row — Users have to set the size of the analysis window along the **Row direction** used to compute the shift estimation.
The default value is set to **1024**.

Window Size Col — Users have to set the size of the analysis window along the **Col direction** used to compute the shift estimation.
The default value is set to **256**.

Shift Row / Shift Col:

Display the results of the shift estimation over the five patches used during the spectral analysis

Co-Registration:

Shift Row — Users have to set the value of the shift along the **Row direction** that will be used during the coarse coregistration procedure.
The default value is set to the mean value between the estimated values over the five patches.

Shift Col — Users have to set the value of the shift along the **Col direction** that will be used during the coarse coregistration procedure.
The default value is set to the mean value between the estimated values over the five patches.

Input/Output Arguments:

Output Next Directory — Indicates the location of the processed data output directory.
The default value is set automatically to :
Next-MD_COR (S-MD_COR).