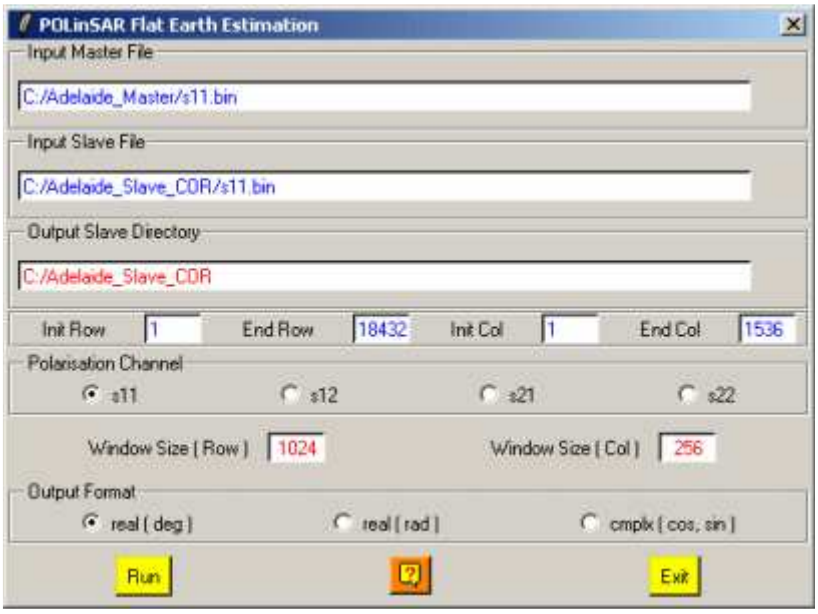
Flat Earth Estimation



Description:

This function applies a spectral analysis to estimate the flat Earth from the **2 x** (2x2) complex Sinclair **[S2]** raw binary data elements.
The Flat Earth estimation is based on a spectral analysis of the interfrogram phase over a patch located at the image centre.

Comments:

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

Input/Output Arguments:

Input Master Directory	Indicates the location of the considered **Master Main Directory (M-MD)** containing the polarimetric data sets to be processed.
Input Slave Directory	Indicates the location of the considered **Slave Main Directory (S-MD)** containing the polarimetric data sets to be processed.
Output Slave Directory	Indicates the location of the processed data output directory. The default value is set automatically to : **Slave-Main Directory (S-MD)**.

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.

Polarization Channels:

Users have to select the polarisation channel on which will be applied the flat Earth estimation procedure

Window size:

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

Output Format:

Data Format — Indicates the type of output data.

- Real (deg) : 4 bytes real data in degrees.
- Real (rad) : 4 bytes real data in radians.
- Cmplx (cos,sin) : 4 bytes interlaced real and imaginary parts.
