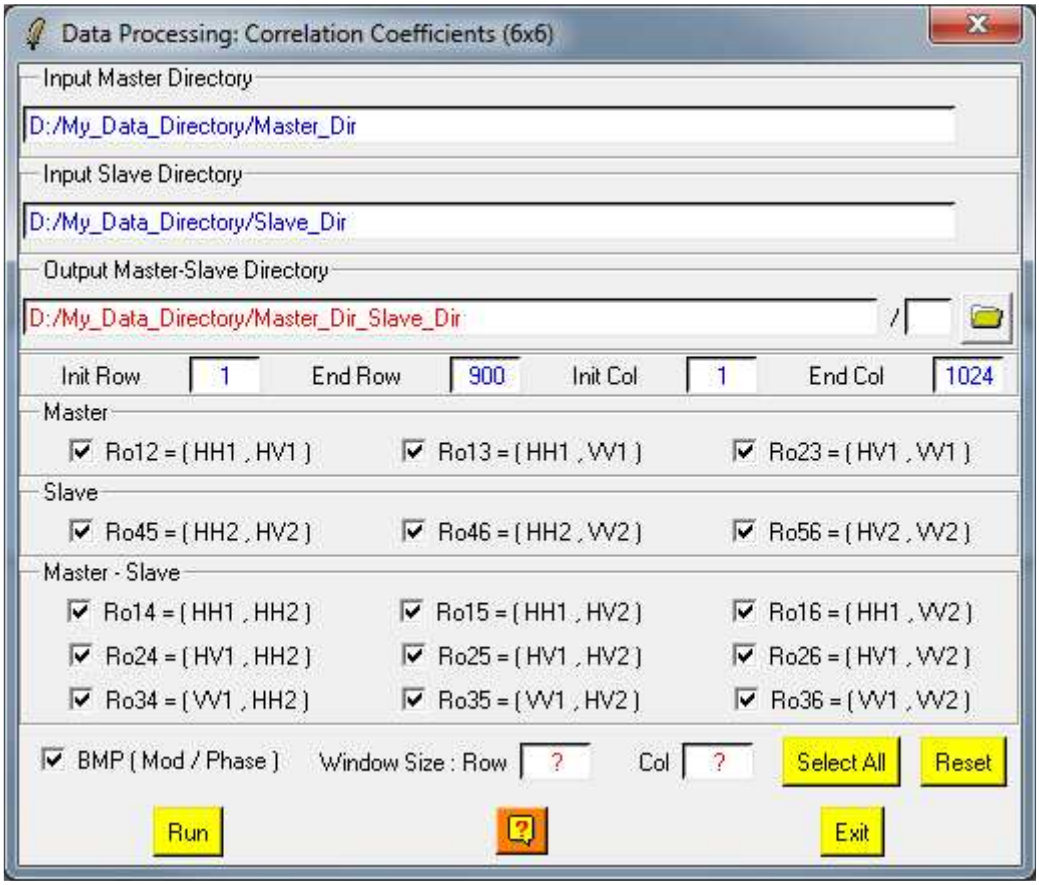
Correlation Coefficients



Description:

Creates complex binary files corresponding to the correlation coefficient constructed from the off-diagonal elements of the Pol-InSAR Coherency matrix [T4] or [T6].

An option may be set to simultaneously create the modulus and argument corresponding bitmap image files.

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	Indicates the location of the processed data output directory.

Master-Slave Directory The default value is set automatically to : **Master-MD_Slave-MD (M-MD_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.

Selection of the Channels to be Processed:

Several channels may be processed at a time. The selection of the BMP options enables the creation of output bmp files. Users may choose between two types of bmp outputs :

- BMP Modulus : Linear representation of the considered complex correlation coefficient element amplitude. Ouput file name: RoXX_mod.bmp
- BMP Phase : Argument of the considered complex correlation element. Ouput file name: RoXX_pha.bmp

The output complex binary data file is : RoXX.bin.
Note: Complex format corresponds to 4 bytes interlaced real and imaginary parts.

Processing parameters:

Data to be decomposed may be processed through an additional filtering procedure consisting of a boxcar filter. Users have then to set the size of the (N*N) sliding window used to compute the local estimate of the average matrix.
The default value of N is set to **1** (avoiding any additional filtering).
