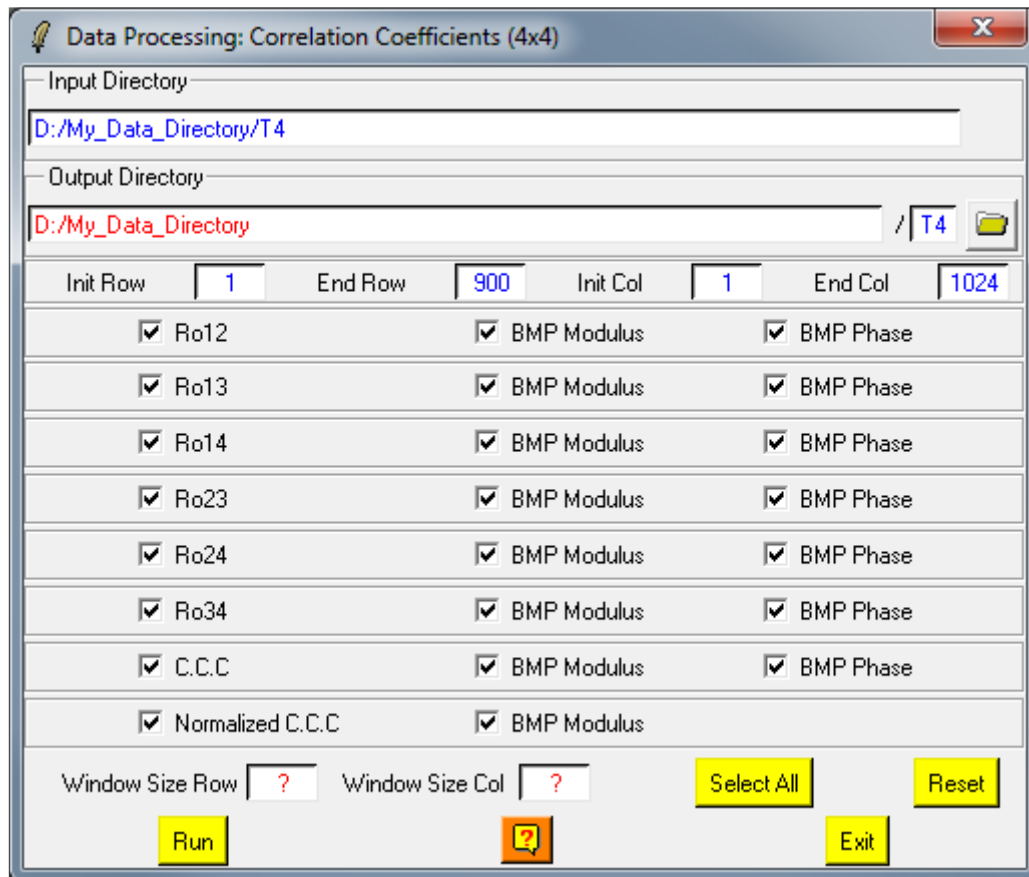


Correlation Coefficients



Data Processing: Correlation Coefficients (4x4)

Input Directory:

Output Directory: /

Init Row: End Row: Init Col: End Col:

<input checked="" type="checkbox"/> Ro12	<input checked="" type="checkbox"/> BMP Modulus	<input checked="" type="checkbox"/> BMP Phase
<input checked="" type="checkbox"/> Ro13	<input checked="" type="checkbox"/> BMP Modulus	<input checked="" type="checkbox"/> BMP Phase
<input checked="" type="checkbox"/> Ro14	<input checked="" type="checkbox"/> BMP Modulus	<input checked="" type="checkbox"/> BMP Phase
<input checked="" type="checkbox"/> Ro23	<input checked="" type="checkbox"/> BMP Modulus	<input checked="" type="checkbox"/> BMP Phase
<input checked="" type="checkbox"/> Ro24	<input checked="" type="checkbox"/> BMP Modulus	<input checked="" type="checkbox"/> BMP Phase
<input checked="" type="checkbox"/> Ro34	<input checked="" type="checkbox"/> BMP Modulus	<input checked="" type="checkbox"/> BMP Phase
<input checked="" type="checkbox"/> C.C.C	<input checked="" type="checkbox"/> BMP Modulus	<input checked="" type="checkbox"/> BMP Phase
<input checked="" type="checkbox"/> Normalized C.C.C	<input checked="" type="checkbox"/> BMP Modulus	

Window Size Row: Window Size Col:

Description:

Creates complex binary files corresponding to the correlation coefficient constructed from the (4x4) complex Coherency matrix ([T4]) raw binary data off-diagonal elements.

Note : "CCC" corresponds to the **Circular Correlation Coefficient RR-LL**, and "Normalized (CCC)" corresponds to the **Normalized Circular-Pol Correlation Coefficient RR-LL**.

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 Directory	Indicates the complete location of the considered MainDirectory / T4 (MD / T4) containing the [T4] matrix data to be processed.
Output Directory	Indicates the location of the processed data output directory. The default value is set automatically to : MainDirectory / T4 (MD / T4) .

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. Output file name: RoXX_mod.bmp or CCC_mod.bmp or CCCnorm_db.bmp
- **BMP Phase** : Argument of the considered complex correlation element. Output file name: RoXX pha.bmp or CCC pha.bmp

The output complex binary data file is : RoXX.bin or CCC.bin or CCCnorm.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).
