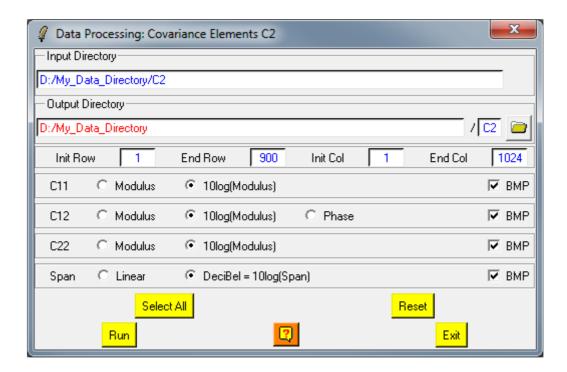


Covariance [C2] matrix Elements Processing



Description:

Creates binary files corresponding to the modulus and argument of the (2x2) complex Covariance matrix (**[C2]**) raw binary data.

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

Comments:

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

Input/Output Arguments:

Input Indicates the complete location of the considered MainDirectory / C2 (MD / C2) containing the [C2] matrix data to be processed.

Output Indicates the location of the processed data output directory.

Directory The default value is set automatically to:

MainDirectory / C2 (MD / C2).

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 three types of output binary data:

- Modulus : Linear representation of the considered [C2] element amplitude. Ouput file name : Cij_mod.bin (.bmp)
- Modulus : Element amplitude in dB=10log10(Modulus). Ouput file name : Cij_dB.bin (.bmp)
- Phase : Argument of the considered complex [C2] element (Only available for off-diagonal elements). Ouput file name : Cij_pha.bin (.bmp)
- Span: Corresponds to the sum of the diagonal elements of [C2], may also be processed (linear and dB) using this program.