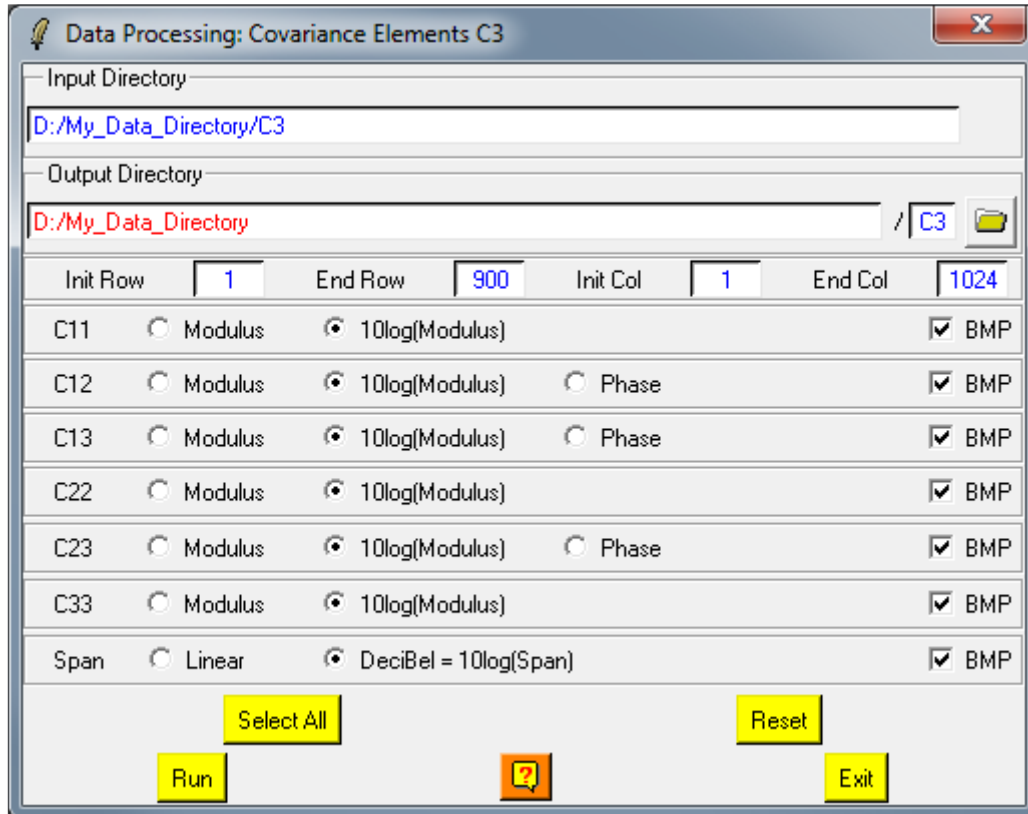


Covariance [C3] matrix Elements Processing



Data Processing: Covariance Elements C3

Input Directory:

Output Directory: /

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

C11	<input type="radio"/> Modulus	<input checked="" type="radio"/> 10log(Modulus)	<input checked="" type="checkbox"/> BMP
C12	<input type="radio"/> Modulus	<input checked="" type="radio"/> 10log(Modulus) <input type="radio"/> Phase	<input checked="" type="checkbox"/> BMP
C13	<input type="radio"/> Modulus	<input checked="" type="radio"/> 10log(Modulus) <input type="radio"/> Phase	<input checked="" type="checkbox"/> BMP
C22	<input type="radio"/> Modulus	<input checked="" type="radio"/> 10log(Modulus)	<input checked="" type="checkbox"/> BMP
C23	<input type="radio"/> Modulus	<input checked="" type="radio"/> 10log(Modulus) <input type="radio"/> Phase	<input checked="" type="checkbox"/> BMP
C33	<input type="radio"/> Modulus	<input checked="" type="radio"/> 10log(Modulus)	<input checked="" type="checkbox"/> BMP
Span	<input type="radio"/> Linear	<input checked="" type="radio"/> DeciBel = 10log(Span)	<input checked="" type="checkbox"/> BMP

Buttons: Run, Select All, Reset, Exit

Description:

Creates binary files corresponding to the modulus and argument of the (3x3) complex Covariance matrix ([C3]) 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 Directory	Indicates the complete location of the considered MainDirectory / C3 (MD / C3) containing the [C3] matrix data to be processed.
Output Directory	Indicates the location of the processed data output directory. The default value is set automatically to : MainDirectory / C3 (MD / C3) .

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 **[C3]** element amplitude. Output file name : Cij_mod.bin (.bmp)
 - **Modulus** : Element amplitude in dB= $10\log_{10}(\text{Modulus})$. Output file name : Cij_dB.bin (.bmp)
 - **Phase** : Argument of the considered complex **[C3]** element (Only available for off-diagonal elements). Output file name : Cij pha.bin (.bmp)

 - **Span** : Corresponds to the sum of the diagonal elements of **[C3]**, may also be processed (linear and dB) using this program.
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