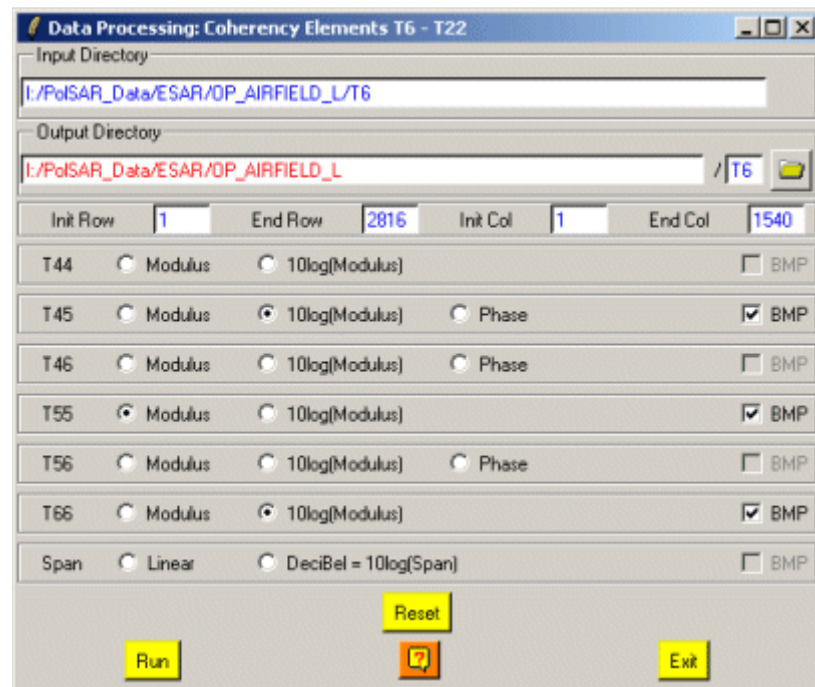


Coherency Matrix Elements Processing – T22



Description:

Creates binary files corresponding to the modulus and argument of the **T22 part** of the (6x6) complex Coherency matrix ([**T6**]) 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 / T6 (MD / T6) containing the [T6] matrix data to be processed.
Output Directory	Indicates the location of the processed data output directory. The default value is set automatically to : MainDirectory / T6 (MD / T6).

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 **[T6]** element amplitude. Output file name : Tij_mod.bin (.bmp)
 - **Modulus** : Element amplitude in dB= $10\log_{10}(\text{Modulus})$. Output file name : Tij_dB.bin (.bmp)
 - **Phase** : Argument of the considered complex **[T6]** element (Only available for off-diagonal elements). Output file name : Tij pha.bin (.bmp)

 - **Span** : Correspond to the sum of the diagonal elements of the **T22 part** of the **[T6] coherency matrix**, may also be processed (linear and dB) using this program.
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