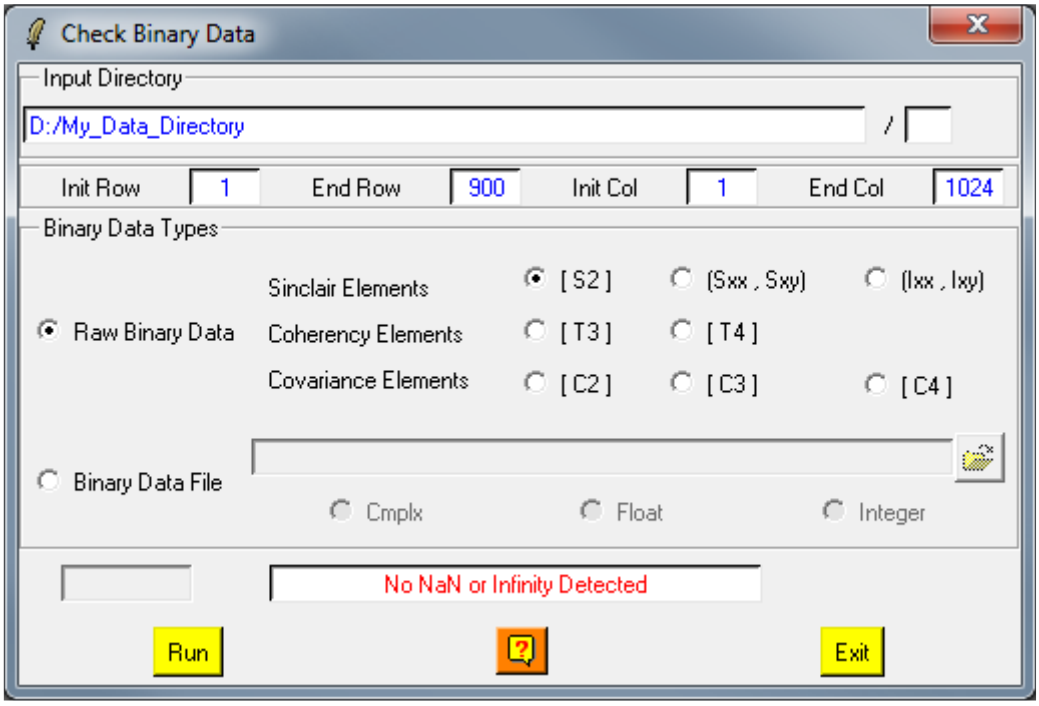
Data Set Management Tools

Description:

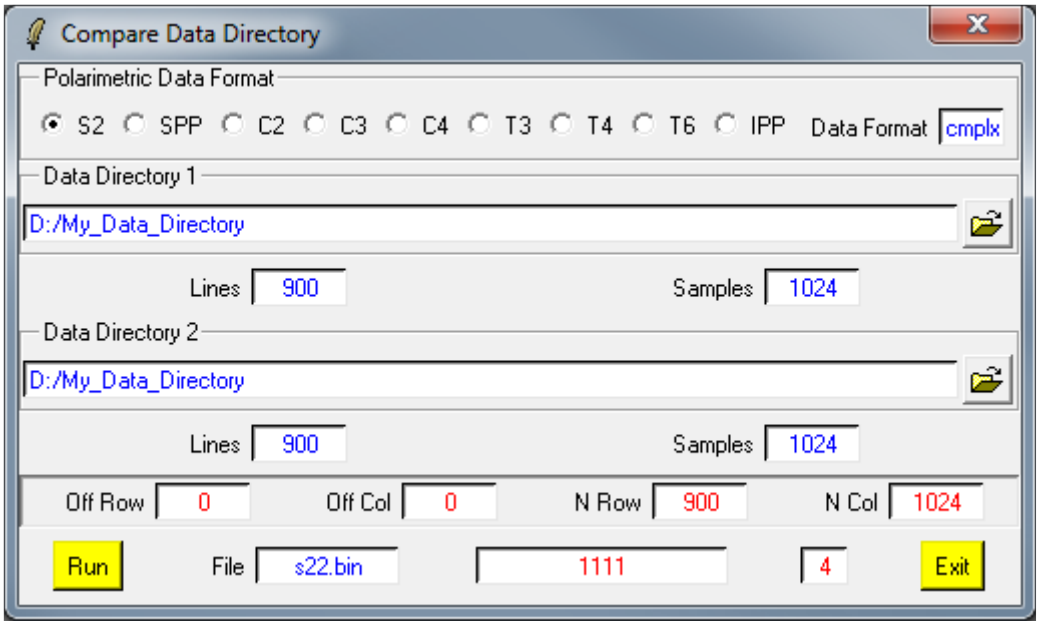
This menu proposes different Data Sets basic management functionalities.

Binary Data Check:



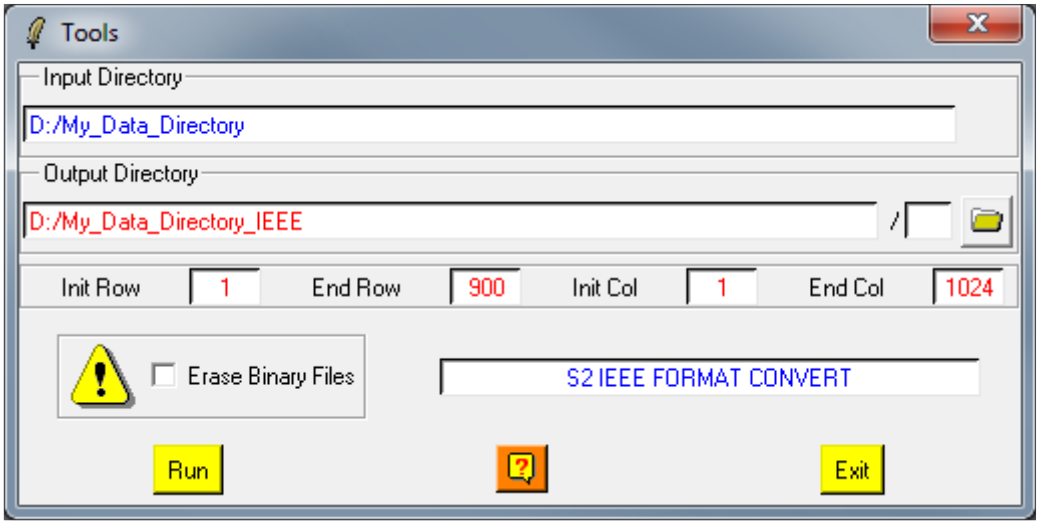
This program checks a polarimetric binary data set to detect if there exist NaN of Infinity values.

Compare Data Directory:



This program compares the values between two polarimetric binary data sets.

IEEE Format Convert:



This program permits to toggle Little Endian-Big Endian IEEE binary formats

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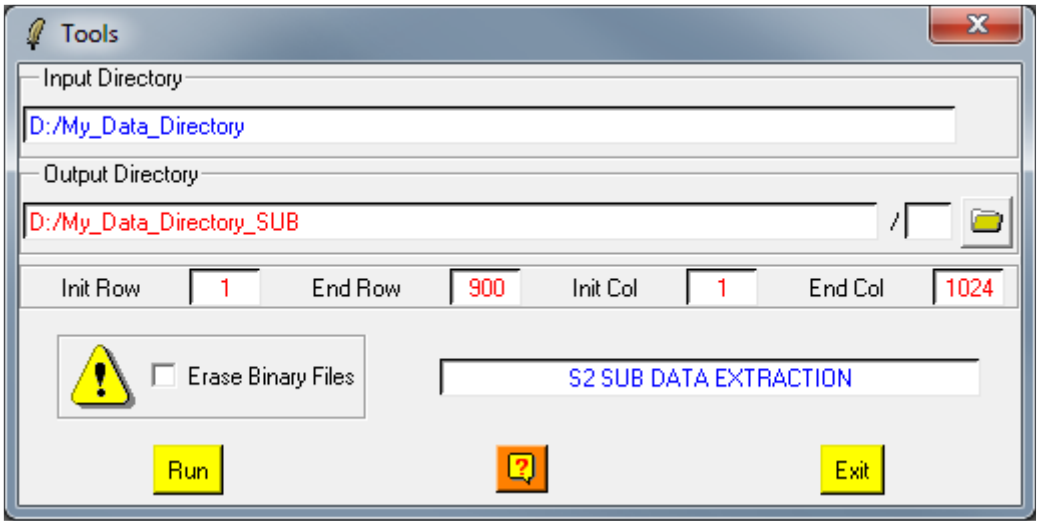
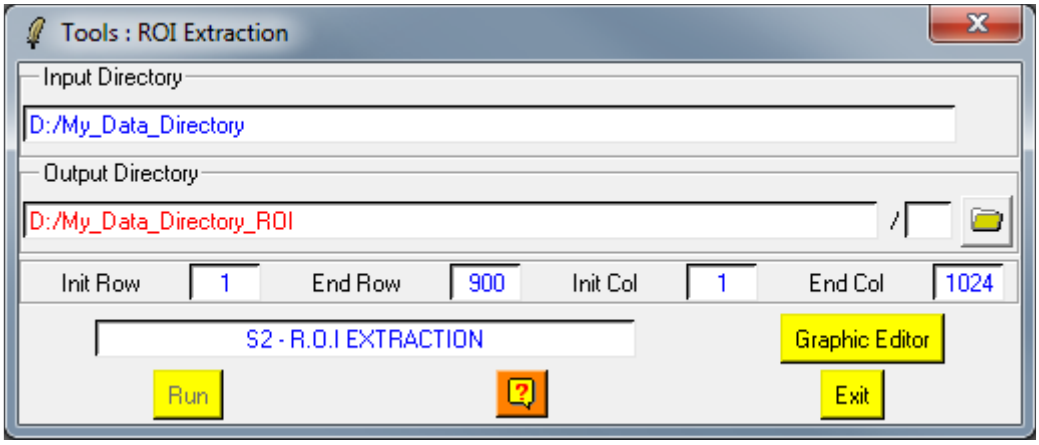
Sub Data Extraction:



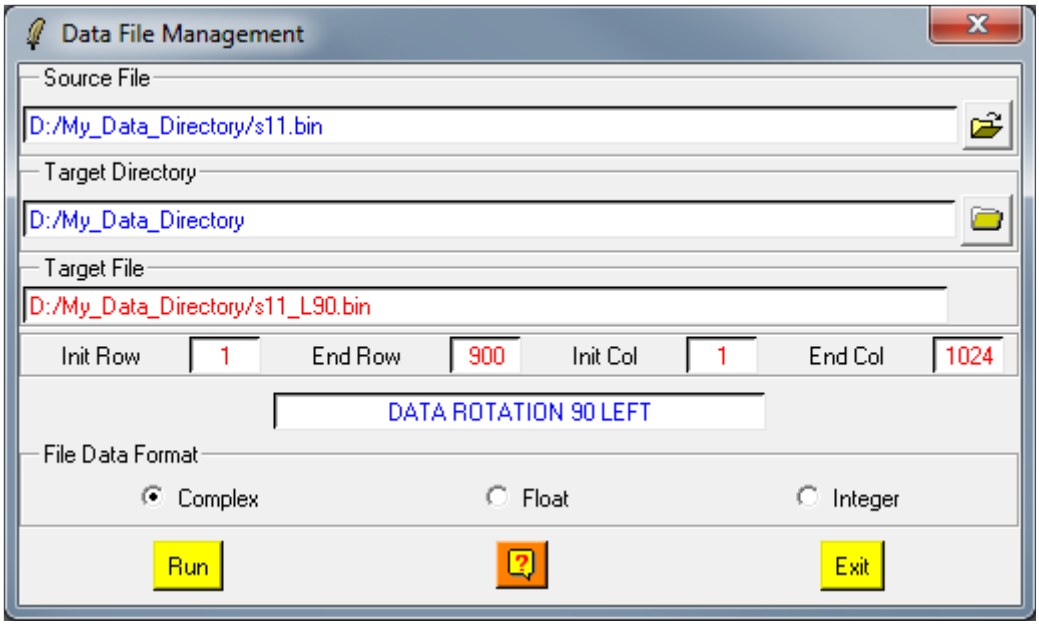
This program permits to extract a sub-data set from a polarimetric binary data set.

ROI Extraction :



This program permits to define R.O.I (Regions Of Interest) using a graphic editor..

Rotation 90° Left:



This program applies a 90° left rotation to a polarimetric binary data sets

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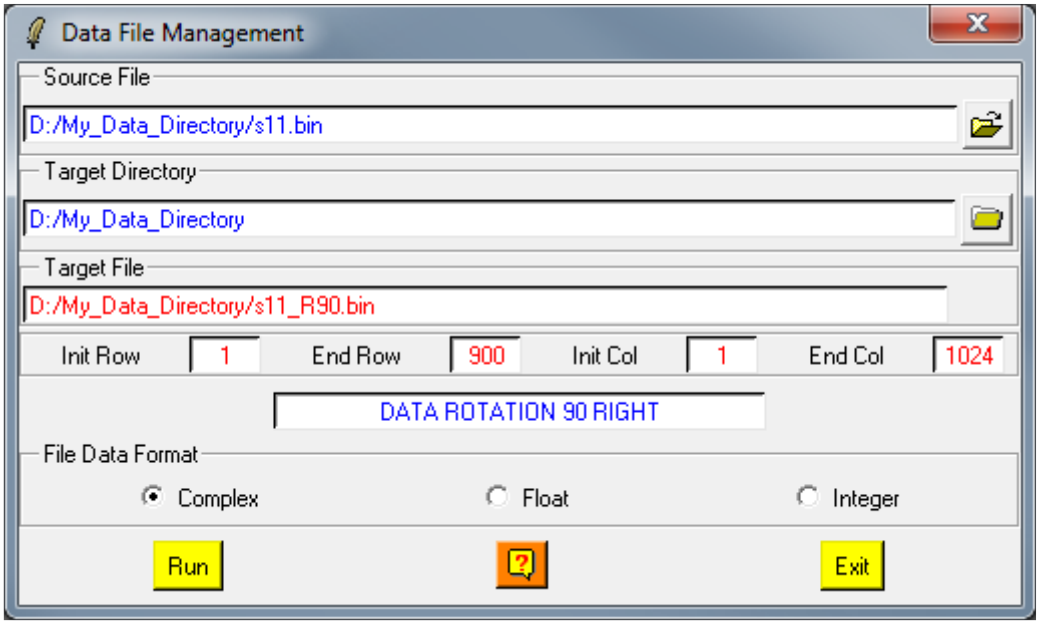
Rotation 90° Right:



This program applies a 90° right rotation to a polarimetric binary data sets

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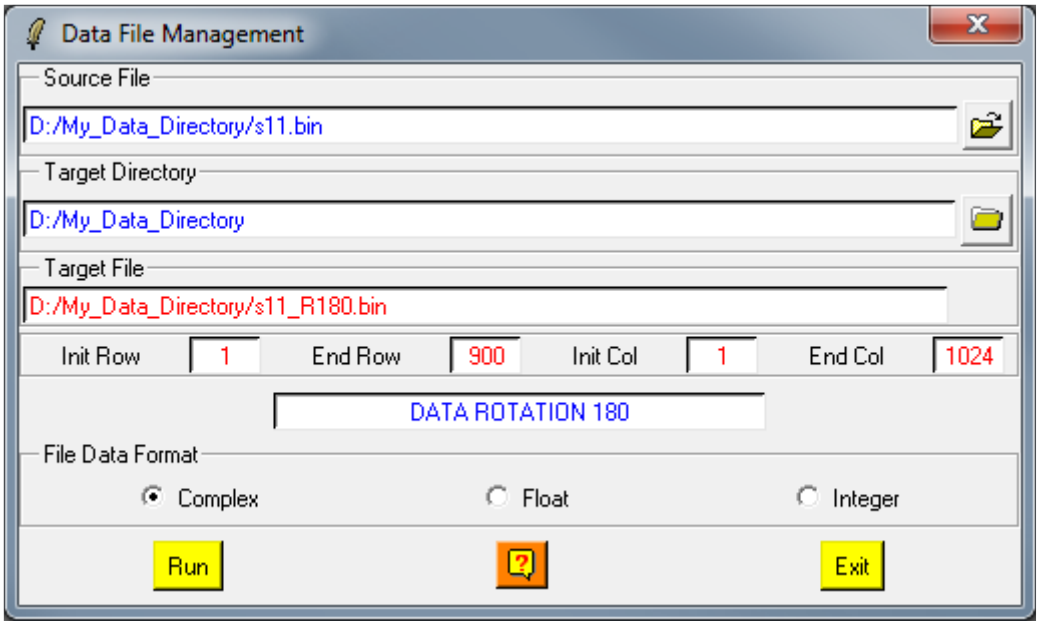
Rotation 180°:



This program applies a 180° rotation to a polarimetric binary data sets

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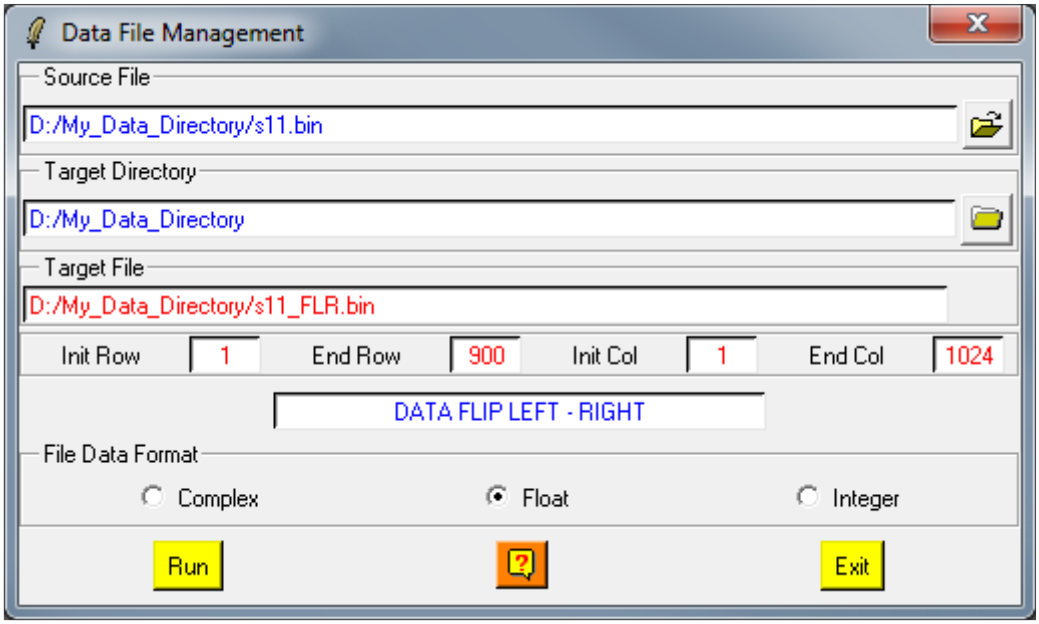
Flip Up-Down:



This program applies a flip up-down operation to a polarimetric binary data sets

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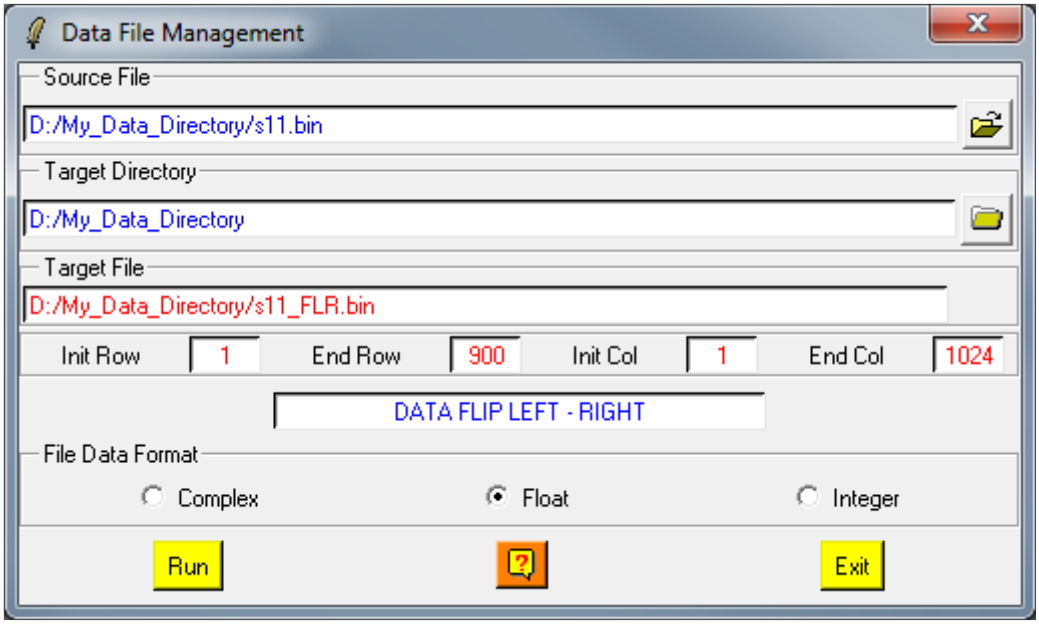
Flip Left-Right:



This program applies a flip left-right operation to a polarimetric binary data sets

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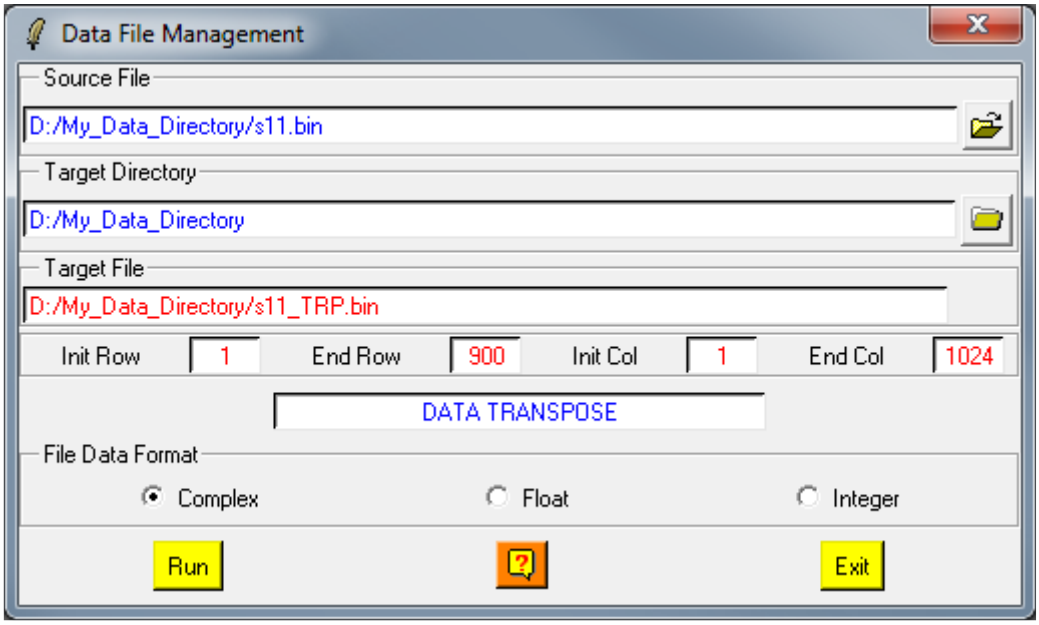
Transpose:



This program applies a transpose operation to a polarimetric binary data sets

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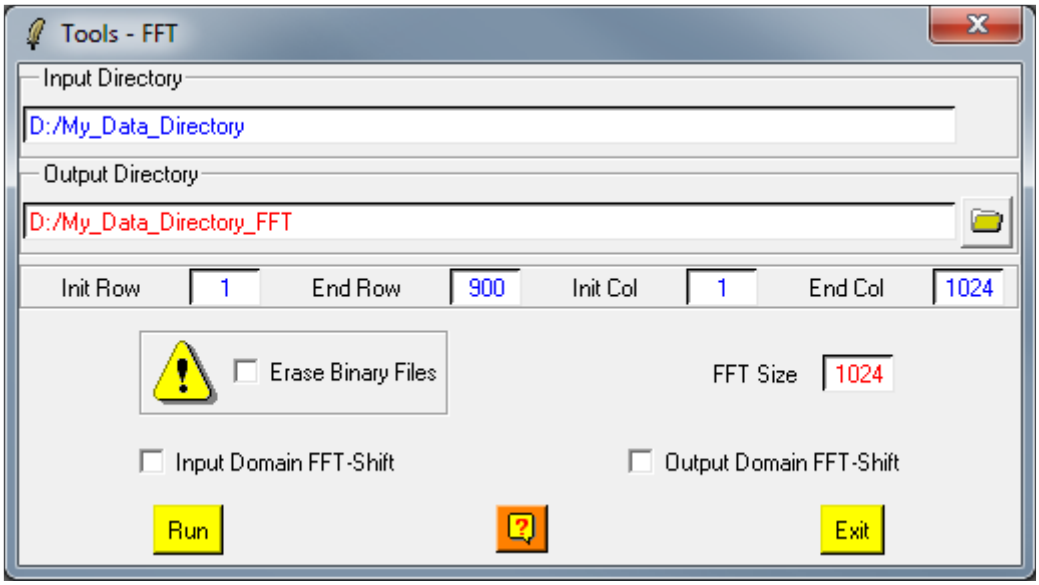
Apply FFT:



This program applies a row 1-D FFT to polarimetric binary data files.

Erase Binary Files If selected, input binary data files are erased during the conversion.

FFT Size The next higher power of 2 of the number of colums and indicates the size onto which the FFT is processed.
When the number of colums is not a power of 2, (FFT_size - Ncols) zeros are added at the end of each row vector (right hand side)

$$\underline{v} = [a, b, c, d, e, f] \implies \underline{v}_n = [a, b, c, d, e, f, 0, 0]$$

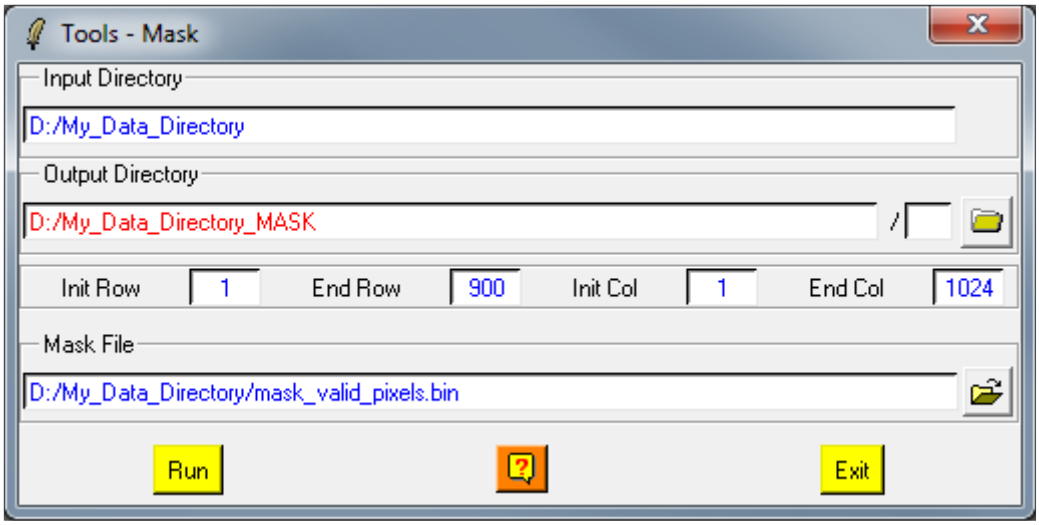
Input Domain FFT-Shift If selected, input row vectors are separated in symmetrical parts (with respect to their middle), swapped and shifted.

$$\underline{v} = [a, b, c, d, e, f] \implies \underline{v}_n = [d, e, f, 0, 0, a, b, c]$$

Output Domain FFT-Shift If selected, output row vectors are separated in symmetrical parts (with respect to their middle), swapped and shifted.

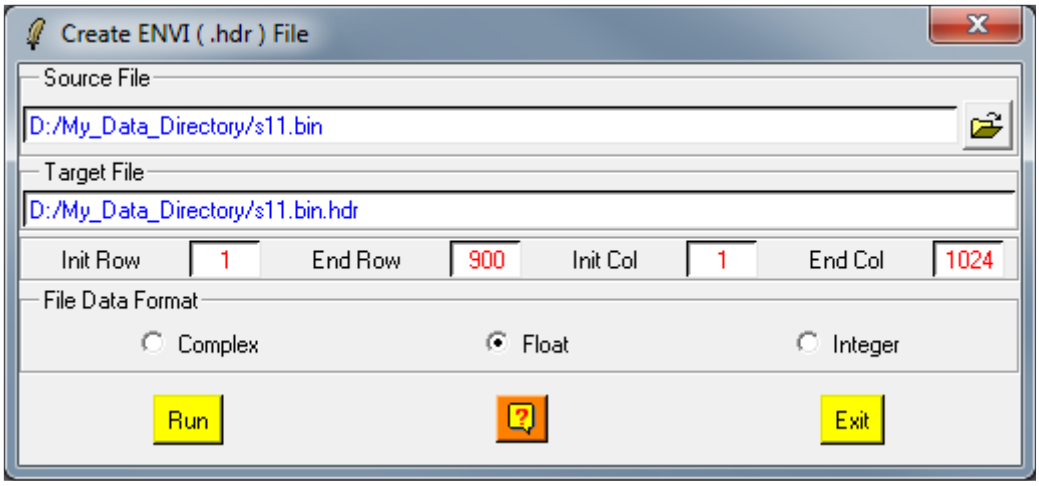
$$\underline{v}_n = [d, e, f, 0, 0, a, b, c] \implies \underline{v} = [0, a, b, c, d, e, f, 0]$$

Apply Mask:



This program applies a mask file on the polarimetric binary data set.

Create ENVI (.hdr) File:



This program creates an ENVI configuration (.hdr) file used to export to ENVI GIS software.
