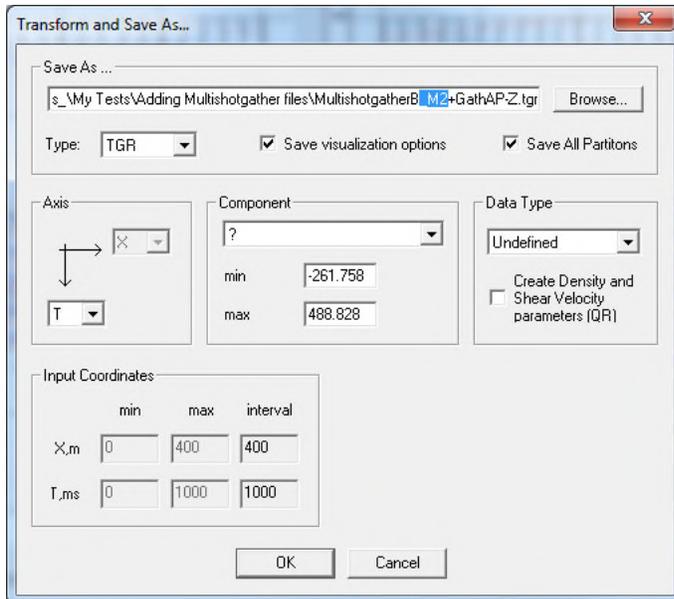


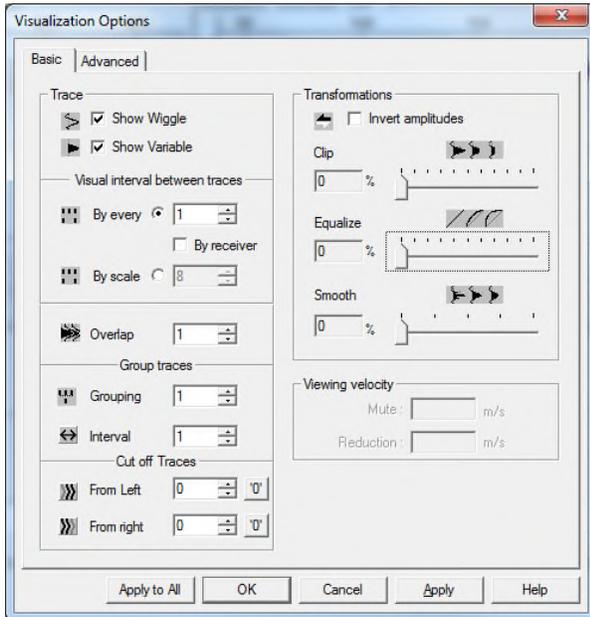
## Preprocessing

### How to save options applied in *Visualisation* dialog



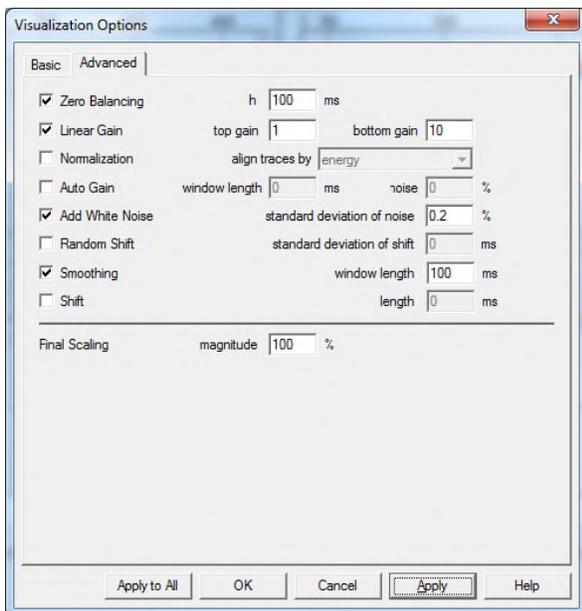
- **Take care to zero or uncheck visualisation options, which must not be used as preprocessing transformations.** Usually such options from “Transformations” group of controls as “Clip”, “Equalize” and “Smooth” are not used as preprocessing procedures.
- Go to menu **“File > Convert to > Complex”**
- In produced dialog **“Transform and Save As...”** :
- Select **format of file** - by default – internal format TGR, also SEG Y;
- Check box **“Save visualization options”**;
- Modify **name of file** to be saved, so you could differ it from other (preprocessing) variants;
- Click Ok and when transformation is done, **resulting file** will be automatically opened in next right panel.

## Capabilities to vary survey layout parameters using Group Traces controls



- Grouping – mixing traces for N of adjacent (to given traces) channels;
- Interval – taking each N-th trace.
- Cut off Traces controls:
  - From left – cuts off N traces (far offsets) from left;
  - From Right – cuts off N traces (far offsets) from right.

## Other useful preprocessing procedures are presented in page *Advanced*

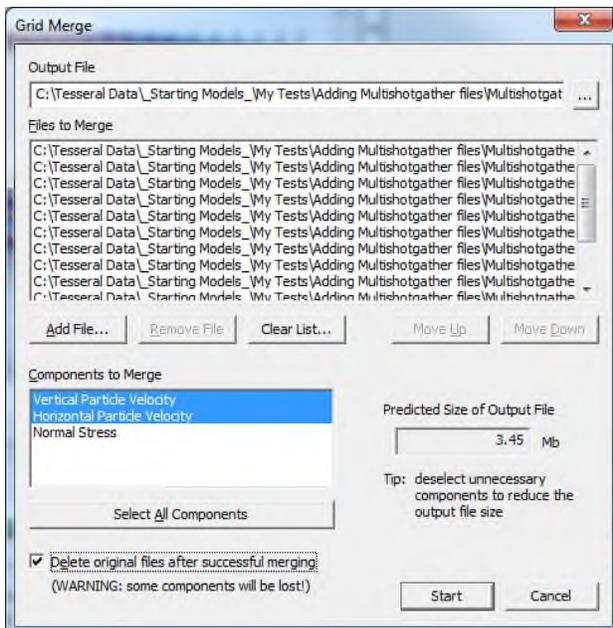


- Zero Balancing – allows filtering out (very) low frequency noise, sometimes present in synthetic gathers when Q-factor attenuation was used in modeling;
- Linear Gain – allows to (linearly) increase amplitudes (usually at bigger times);
- Add White Noise – allows to make synthetic gathers looking “more realistic”;
- Smoothing – allows to filter out high frequency noise.
- ... and others.

## Merging synthetic separate shotgather files into multi-shotgather file

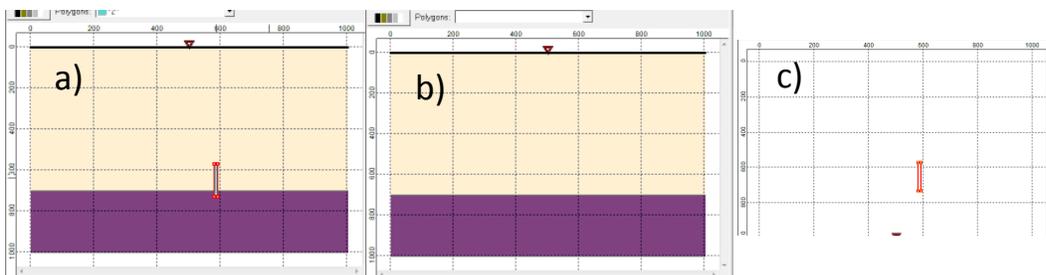
Activate panel with synthetic shotgather (file name “....-n.tgr”, n=1,2,3, ...). Select menu item “Run>Grid Merge”.

In produced dialog “Grid Merge: select component(s), which may be used in following processing and interpretation:



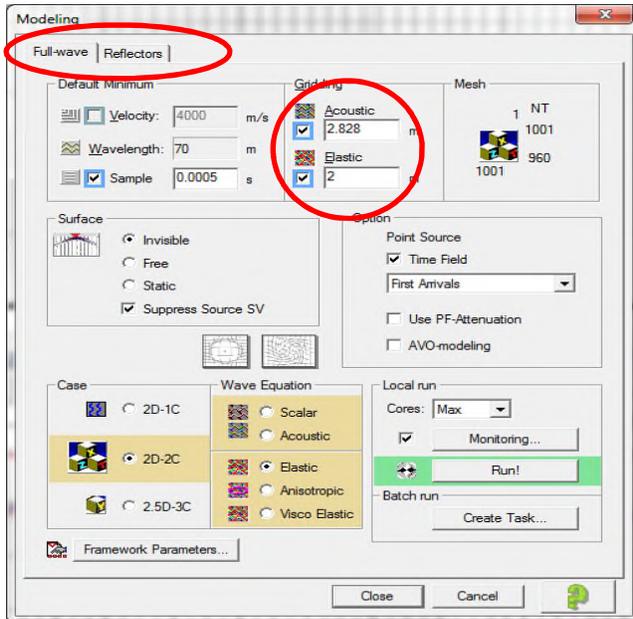
- ✓ After merging is done multi-shotgather file is automatically loaded in active panel.
- ✓ This multi-partition file can be exported in SEG Y format or/and used in the package internal processing procedures.

## Subtracting Gathers

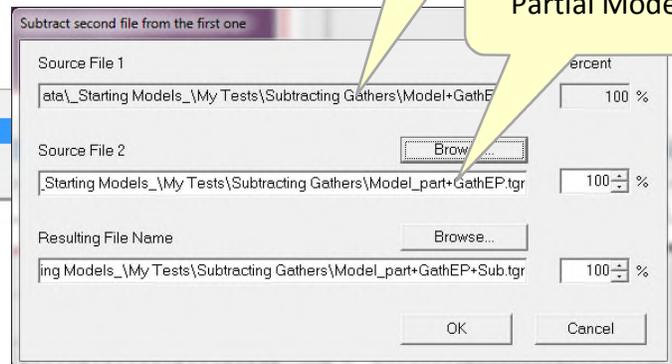
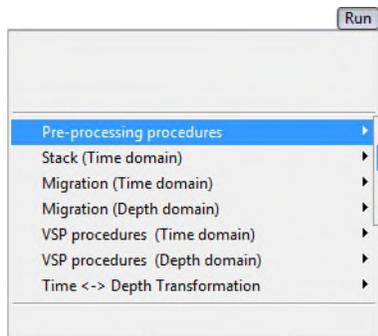


Models: a) complete; b) partial; c) shown is difference between complete and partial models

- Produce gathers for complete and partial models. Don't forget for fix computation parameters as same for both models (otherwise there can be significant difference in absolute values of calculated amplitudes):



- Subtract gathers:



- See results:

