

## How to import standard software experimental results into Expert.

It is possible to write a script to allow standard software experimental results to be imported and displayed in Expert. The process is complicated for a few reasons. First the standard software protocol names are not the same as in Expert, second the `acqu.par` produced by the standard software is often missing critical parameters, and finally it does not save the spectral information, just the FID. The import script must solve each of these issues.

The import script should be called `protocol_importStdData.mac` where `protocol` will be the equivalent Expert protocol name such as Proton or COSY. It should be stored in the same folder as the other experiment scripts such as `protocol.mac` and `protocol_pp.mac`.

The script requires 3 procedures:

`addMissingParameters`. This will add the parameters required to populate the Expert parameter list in the user interface.

`calcDuration`. This is needed to determine the length of the experiment in seconds. It is called by `addMissingParameters` and is not critical and can just return 0.

`loadProcessAndDisplayData`. This reads in the raw FID data, generates plot axes, Fourier transforms the data and displays it. The bulk of the code will be here.

To allow a standard software experiment to be imported it must first be added to the list of importable experiments. This is done using the procedure `gData->convertProtocolNames`. This simply replaces the standard software protocol name with the Expert name. Currently the following experiments are supported:

1D CARBON+ WALTZ => Carbon

1D PROTON => Proton

COSY 2D => COSY

PGSTE => PGSTE

PGSTE CDEC => PGSTEstandardCDEC

PGSTE WET SUP => PGSTEWetsup

Any new experiments will need to have this list in `gData-> convertProtocolNames` updated.

It is anticipated that the above importers can be used as templates for new importer.