Well Loading for GeoFrame, using WLExchange

HRS-9
Stephan Ackerman
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First Steps

Before doing anything else, make sure that there is no HRS program running, and please ensure that the following two environment variables are being set:

- GF_PATH
- TWO_TASK

The setting of the above two environment variables is crucial. If they are not set, **WLExchange for GeoFrame** will not start up!

Note: For a future release, we will change this behavior, but for now it needs to be done.
Starting up WLExchange for GeoFrame

Start the **Geoview** program.

This is normally done by typing in “geoview” at the command prompt, but can also be done through company-specific scripts.

Whichever way is used, the result brings the **Geoview** program up, as shown below:
1. Select the **Import Wells > From GeoFrame** menu option, as shown below.
Starting up WLExchange for GeoFrame

The following **GeoFrame Configuration** dialog should appear. *If you do not see this dialog, go to Trouble Shooting.*

2. Make sure that the environment variables are correct. They are set by default from the environment settings of the Unix or Linux shell or terminal window where you started **GEOVIEW**.

If they were not set, the text fields will be blank, and you can enter the correct values at this time.

Once all the values have been entered, click the **OK** button. Should the **OK** button be disabled, press the **TAB** key several times to enable it.
This program will create the following file in your `<home>/hrs` directory:

```
geoframenvironfile
```

This file will contain the information you provided in the previous step:

- `setenv GF_PATH /space/gf43_admin_sol/geoframe_43_sun`
- `setenv ORACLE_HOME /net/disk35/oracle/OraHome1`
- `setenv ORACLE_SID owhalo`
- `setenv TWO_TASK oragfstef`
- `setenv TNS_ADMIN ggg`
- `setenv WLEXGF_FILES wlexchangegf43_files`
- `setenv LD_LIBRARY_PATH ${GF_PATH}/lib:${ORACLE_HOME}/lib`

The `WLEExchange` program will read this file to obtain the environment variables.
3. Select the **GeoFrame** project.
4. From the **GeoFrame Well Exchange** window, select **File > Load GeoFrame Logs**. Then choose the wells, log curves and tops you want to import.
5. The two “clocks”, **Updating Wells** and **Store Wells**, will run through a count of all the selected wells. Some dialogs may pop up to ask you how to tie time-depth curves or how to rename some logs.
6. Afterwards, on the **Well Explorer** window, reload the well database from disk.
7. All wells, logs and tops selected are imported to Geoview.
GeoFrame Well Exchange Program

If any wells, curves or tops have been edited in Hampson-Russell, those edited wells, curves and tops can be exported back to GeoFrame. Here is how to export wells back to GeoFrame:

1. From the Well Log Exchange window, choose File > Export GeoFrame Logs.
2. A dialog will appear that allows you to choose wells, curves or tops to export to GeoFrame. Highlight the wells and curves you wish to export, and click OK.

3. QC and view the exported logs using tools available with GeoFrame.
Conclusion

1. The **HRS – GeoFrame** link simplifies the importing of well logs from and exporting back to an existing **GeoFrame** database.

2. Setting the **GeoFrame** environment must be taken carefully at runtime in order to get the **GeoFrame Well Exchange** program to run perfectly.

3. We need to QC in both **HRS** and **GeoFrame** after importing data from or exporting data to **GeoFrame**.
1. Ensure that the *GF_PATH* and *TWO_TASK* environment variables are still defined. If they are not, close the HR programs, reset the variables and try again.

2. If you are sure that they are set, and you still do not see the GeoFrame Configuration program, look at the console window from where you launched the programs. There should be messages starting with the following:

   *** Please wait. Starting the GeoFrame WLEExchange program…. ***

Please copy this message and email it to your Hampson-Russell support representative.

If the console window is clear, the program may be set to output all the messages to a file. In this case, check the runtime messages file directory (*<home>/hrs/messages*) and send all the latest files to Hampson-Russell support.
3. Also send a copy of the `<HRS_Install>/wlexgf` script, as well as copy of the `<HRS_Install/environ` file to Hampson-Russell Software support.

4. Finally, indicate your operating system as well as the GeoFrame version.

In most cases, the problem is related to the fact that the GeoFrame environment variables were not set, or the `LD_LIBRARY_PATH` was edited in some way.
Known Issues

1. Looking at the error log files, you might see an entry as follows:

   ** Please wait. Starting the GeoFrame WLExchange program... **
   bin/geoframesettings: Command not found
   /home/thisuser/.hrs/geoframeenvironmentfile: No such file or directory.

   A solution is to edit the `<HR_Install>/wlexgf` script, and replace the following line (marked in red)

   echo "** Please wait. Starting the GeoFrame WLExchange program... **"
   bin/geoframesettings

   with the following:

   `<HRS_Install>/bin/geoframesettings`

   We are fixing this issue.
2. Upon starting the **WLExchange for GF4.3** program, you may see the following error messages:

** Please wait. Starting the GeoFrame WLExchange program... **
bin/geoframesettings: Command not found.
/apps/Hampson/CE8-R2/wlexchangegf43_files/files/wlexgf: symbol lookup error:
/apps/Hampson/CE8-R2/lib/libpgc.so: undefined symbol: __pgi_trace
** GeoFrame WLExchange Window Aborted! **
** Please wait: GeoFrame WLExchange is restarting! **
/apps/Hampson/CE8-R2/wlexchangegf43_files/files/wlexgf: symbol lookup error:
/apps/Hampson/CE8-R2/lib/libpgc.so: undefined symbol: __pgi_trace
** GeoFrame WLExchange Window Aborted! **
** GeoFrame WLExchange can be started from the following GEOVIEW button: File/Start GeoFrame Exchange. **
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The reason for this is that **wlexgf** is looking at the **HR_Install/lib** directory first upon startup. The version of **libpgc.so** that we supply there is incompatible with the one that **wlexgf** needs.
Known Issues

**SOLUTION / WORKAROUND**

1. Close all the Hampson-Russell programs.

2. Open a console window, and copy the directory to the HR_Install 32/64 exe directory.

3. Edit the wlexgf script, as follows: (The line in red)

   ```bash
   echo "** Please wait. Starting the GeoFrame WLExchange program... **"
   bin/geoframesettings
   set returnValue = $status
   if($returnValue == 0) then
       exit
   endif
   source ~/.hrs/geoframeenvironfile
   source /net/disk39/testReleases/CE8R2/linux64/32/environ
   setenv LD_LIBRARY_PATH ${GF_PATH}/lib:${LD_LIBRARY_PATH}
   
   4. Save the file.
   5. Start the HR programs again, and see if they can connect to GeoFrame.