## Subject: Helper function to help dealing with GUI thread related issues Posted by Didier on Thu, 01 May 2014 23:44:40 GMT

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Hi all,

Doiing some corrections to an application I ran into the classic GUI thread Vs other thread (triing to do GUI things) problem

My problem was the following: I have an import thread that imports data into a DB and from time to time it needs to ask questions in order to solve conflics ... so it creates dialogs ... and this can only be done in GUI thread ( as stated in documentation, GuiLock is not sufficient for this ). So I decided to do a helper function that can be used by others, it does the following:

- \* Puts the originating thread in wait state
- \* runs the dialog in the GUI thread
- \* Once the dialog finished, it releases the originating thread

All you need to use it is a Callback to the GUI action you need to be done, all the synchronisation is done automatically

```
void GuiExecWait(Callback cb, int execDelay_ms = 20) {
   Mutex mtx;
   mtx.Enter();
   {
      // enter new context to avoid mtx destruction before cond destruction ( due to bad compiler optimizations )
      ConditionVariable cond;
      cb << callback( &cond, &ConditionVariable::Signal );
      SetTimeCallback(execDelay_ms, cb);
      cond.Wait(mtx);
   }
}</pre>
```

Maybe this helper function can be added to core?