## Subject: Need a suggestion about mouse processing inside threads Posted by mdelfede on Mon, 12 Dec 2011 23:53:47 GMT

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Hi, I've a multi-document application, on which each document runs a threaded command loop:

```
// document command loop
void UppCadDocument::commandLoop(void)
{
// loop not ended
INTERLOCKED (mutex)
 loopEnded = false;
while(!Thread::IsShutdownThreads())
 if(commandLine.HasCommand())
 String cmd = commandLine.GetCommand();
 if(cmd != "<ESC>" && cmd != "")
  SendCommand(cmd);
 Sleep(100);
// loop ended
INTERLOCKED (mutex)
 loopEnded = true;
}
```

Here, handling of commandLine (some sort of InputField) is simple; the problem arise when I've to react to mouse events; main thread can call, for example, MouseMove() on any time in the middle of anything of my document's loop.

How to synchronize it? I can't stop my main thread waiting for a document's one is ready for event, of course... I think I'd need some sort of event-loop inside document's threads, and main thread should inject its events on it, instead executing calls directly, but how? This is exactly the opposite problem as the one solvable with Guilock....

My idea would be something like this:

Main thread:

void SomeEventHandler(somedata)

```
{
    GetActiveDocument().InjectEvent(eventtype, somedata);
}

Document thread :
while(true)
{
    WaitForInjectedEventsWithoutEatingCpu();
    while(eventsInQueue)
        ProcessPendingEvents()
}

Is there something in upp that can help for all that, or I should code it using arrays of callbacks or something like that ?
```

Max

Or there's a better solution?