Subject: Program didn't exit in Task Manager after click [X]
Posted by sinpeople on Mon, 26 Oct 2020 01:36:51 GMT
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Hi folks,

   I have a dialog program which contains a "Start" button to start 2x thread services. It is copied
and modified from an existing program. The original program does not have this program but this
program has. I tried to isolate the program as the following:
   1) Launch program, click [X] directly, program can exit
   2) Launch program, click "Start" button, then click [X], program cannot exit.
   I could not spot anything suspicious in the callback code of the button handling.
It is the following:

 btnStart <<= callback(this, &RegionalCtrl::SpawnTasks);

void RegionalCtrl::SpawnTasks()
{
 //Start Thread Remote Request; The Server Portion of the UDP TCP Service for Incoming
Service
 //Request
 Thread udprpc;
 udprpc.Run(callback(this, &RegionalCtrl::UDPRpcServerThread));

 Thread tcprpc;
 tcprpc.Run(callback(this, &RegionalCtrl::TCPRpcServerThread));

 btnStart.Disable();
}

// Listenning here to figure any execution is needed
void RegionalCtrl::UDPRpcServerThread()
{
 UrrServer urr;
 urr.Create(m_nServerPort);
 //Cout() << "URR Ping server\n";
 //while(false)
 for(;;)
 {
  UrrRequest r;
  if(urr.Accept(r))
  {
   UdpRpcCmd(r);
  }
  Sleep(500);

```cpp
  }
}

void RegionalCtrl::TCPRpcServerThread()
{
 TcpSocket server;
 if(!server.Listen(m_nServerPort+100, 5)) {
  Cout() << "Unable to initialize server socket!\n";
  SetExitCode(1);
  return;
 }
 Cout() << "Waiting for requests..\n";
 for(;;)
 {
  TcpSocket s;
  if(s.Accept(server)) {
   String w = s.GetLine();
   TcpRpcCmd(w);
//   Cout() << "Request: " << w << " from: " << s.GetPeerAddr() << '\n';
   if(w == "time")
    s.Put(AsString(GetSysTime()));
   else
    s.Put(AsString(3 * atoi(~w)));
   s.Put("\n");
  }
  Sleep(500);
 }
}
```

I stepped into these 2 pieces of code. It didn't return back when the "if" statement is stepped into to get input strings. Comment either one of these 2 threads didn't help, unless comment both of them.

I have to kill the program every time when it is launched outside theIDE. It can exited properly if I launch it within theIDE for debug though. I checked back to the original program. These pieces of code are the same. Headache. Not sure what's the general advise to troubleshoot this kind of "Fail to exit completed from OS" problem.

Thank you very much!

Best Regards
David