Subject: AsyncWork, IsFinished() may not be working properly Posted by Oblivion on Wed, 28 Mar 2018 17:17:20 GMT

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Hello,

Either I am doing something wrong, or AsyncWork/CoWork's IsFinished() method is not working properly (Tested on latest Upp/GCC/Linux kernel).

It always returns true;

Here is a simple test code to show the problem:

```
#include <Core/Core.h>
using namespace Upp;

CONSOLE_APP_MAIN
{
   StdLogSetup(LOG_FILE|LOG_COUT);
   Array<AsyncWork<void>> workers;

for(int i = 0; i < 4; i++) {
   workers.Add() = Async([=]{ LOG("Started, worker #" << i); for(;;); });
   Sleep(5000);

// while(!workers.IsEmpty())
   for(int i = 0; i < workers.GetCount(); i++) {
     auto& w = workers[i];
     if(w.IsFinished())
     LOG("Stopped, worker #" << i); // <<- Called, when it shouldn't.
   }
}</pre>
```

In the above test code, workers are supposed to run forever. So IsFinished should (?) return false. But when I check them with IsFinished() method, I get positive results every time.

Am I doing something wrong?

Here is the log:

CoWork constructed 7f86caf82060

Do0, looper: false, previous todo: 0

Pool::InitThreads: 8

CoWork thread #0 started

CoWork thread #1 started

CoWork thread #2 started

CoWork thread #3 started

CoWork thread #4 started

CoWork thread #5 started

CoWork thread #6 started

CoWork thread #7 started

#1 Waiting for job

Adding job

Releasing thread waiting for job, waiting threads: 1

#1 Waiting ended

#1 Job acquired

DoJob (CoWork 7f86caf82060)

Started worker #0

#4 Waiting for job

CoWork constructed 7f86caf82140

Do0, looper: false, previous todo: 0

#5 Waiting for job

#0 Waiting for job

#3 Waiting for job

#6 Waiting for job

#7 Waiting for job

#2 Waiting for job

Adding job

Releasing thread waiting for job, waiting threads: 7

CoWork constructed 7f86caf82220

Do0, looper: false, previous todo: 0

#4 Waiting ended

#4 Job acquired

DoJob (CoWork 7f86caf82140)

Started worker #1

Adding job

Releasing thread waiting for job, waiting threads: 6

CoWork constructed 7f86caf82300

Do0, looper: false, previous todo: 0

Adding job

Releasing thread waiting for job, waiting threads: 6

#0 Waiting ended

#0 Job acquired

DoJob (CoWork 7f86caf82300)

Started worker #3

#5 Waiting ended

#5 Job acquired

DoJob (CoWork 7f86caf82220) Started worker #2 Stopped worker #0 Stopped worker #1 Stopped worker #2 Stopped worker #3 CoWork Cancel0 WaitForFinish (CoWork 7f86caf82060) //...

Best regards, Oblivion