Subject: Re: Job package: A lightweight multithreading tool, using promise/future mechanism Posted by Oblivion on Sun, 10 Sep 2017 17:08:28 GMT View Forum Message <> Reply to Message

And below is where CoWork starts to outperform Job (As you pointed out, because of the additional copying involved, I guess.):

I changed the code to see other options:

```
{
 CoWork jobs;
 Vector<String> results;
 TIMING("CoWork");
 jobs & [=, &results] {
 Vector<String> s;
 for(int i = 0; i < 50000; i++)
   s.Add() = GetDivisors();
  CoWork::FinLock();
  results = pick(s);
 };
 jobs.Finish();
}
{
 Job<Vector<String>> job;
 TIMING("Job");
 job.Start([=]{
 Vector<String> s;
 for(int i = 0; i < 50000; i++)
  s.Add() = GetDivisors();
 return pick(s);
 });
 job.Finish();
 auto s = job.GetResult();
}
```

TIMING Job	:1.42 s - 1.42 s (1.42 s /1), min: 1.42 s , max: 1.42 s , nesting: 1 - 1
TIMING CoWork	: 1.39 s - 1.39 s (1.39 s / 1), min: 1.39 s , max: 1.39 s , nesting: 1 - 1

Job is not an alternative to CoWork, but it's not a bad tool either. It does simplify writing high performance MT code in a convenient way, thanks to U++.

It is suitable for such asynchronous operations mainly where a high latency is expected (IO/sockets, etc.) and where the code needs to be easily managable (errors, and results should be easily and immediately dealt with.)

Best regards, Oblivion

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