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Subject: Re: changed CoWork and derived WorkQueue

Posted by [kohait00](#) on Wed, 03 Feb 2010 20:58:53 GMT

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hi mirek,

i think i got your point. the only thing to ensure about a work queue instance (or a given CoWork instance) is, the instance has to ensure that no other task is dequeued (to be executed in another parallel thread of static pool) before the previous task posted to the queue has been completed.

semantically speaking: the tasks posted/enqueued into a CoWork instance have per se nothing to do with the pool itself, which presents the ability to execute arbitrary things anyway.

so probably the following would be right:

to make the struct Pool not private part of CoWork, but maybe protected. so a derived WorkQueue can reuse the static pool, it can derive protected from CoWork to hide away the public interface (for not using virtuals), since most part of CoWork is protected anyway, the WorkQueue then basically needs to provide the same interface (Do() and operator &()), which then simply invoke a Finish() before handing over to CoWork::Do(). one could also use a CoWork directly, before enqueueing any further task, simply ensure the one before is finished...so this is almost what you provided some post before..with the scoped CoWork approach..the only difference is that the CoWork is not created all over again and again, but used the same instance.

but one drawback is there: invoking Finish before enqueueing new task implies that the posting thread is halted until a previous task has terminated..this is not the case with current WorkQueue, which always dequeues, but to 1 thread only, so no other task can run in the queue. but if meanwhile another task has been queued, it is then executed right after, without having the posting task to wait for completion of previous one.

maybe the WorkQueue should be a class of its self, dequeuing differently than the CoWork does..

i'll try that.. but generally speaking, does all that make any sense to you anyway?

thanks for the patience

kostah

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