Subject: Re: Simple class to handle variables used by different threads Posted by mirek on Sun, 23 Aug 2015 18:34:24 GMT View Forum Message <> Reply to Message

koldo wrote on Fri, 21 August 2015 13:41Hello all

I wanted to ask you if this class could serve to manage variables that may be read and changed from different threads template <class T> class threadSafe { public: threadSafe() {} threadSafe(T v) {val = v;} void operator=(T v) {BarrierWrite(val, v);} operator T() {return ReadWithBarrier(val);} private: volatile T val; }; It can be used as simple as this: threadSafe<int> val = 23; double d = val + 3.5; Other sample in two threads: // Main thread threadSafe<bool> thread1Busy; // Thread 1 thread1Busy = true;thread1Busy = false;// Thread 2 while (thread1Busy) Sleep(100); . . . I would be quite worried about

threadSafe<int> x;

x = x + 1;

Also, I am not quite sure that barriers are used correctly here.. What are they supposed to do?

BTW, second example would work fine without any synchronization at all...

Mirek

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