## Subject: Re: Simple class to handle variables used by different threads Posted by mirek on Sun, 23 Aug 2015 18:34:24 GMT

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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	