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Subject: Simple class to handle variables used by different threads

Posted by [koldo](#) on Fri, 21 Aug 2015 11:41:14 GMT

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Hello 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);
...
```

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