
Subject: Re: Simple class to handle variables used by different threads

Posted by [koldo](#) on Mon, 24 Aug 2015 22:13:03 GMT

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Thank you Mindtraveller and Mirek

In summary, could a general all purpose thread safe class be like this?

```
template <class T>
class ThreadSafe {
public:
    ThreadSafe() {}
    ThreadSafe(T v) {val = v;}
    void operator=(T v) {
        mutex.EnterWrite();
        val = v;
        mutex.LeaveWrite();
    }
    operator T() {
        T tmp;
        mutex.EnterRead();
        tmp = val;
        mutex.LeaveRead();
        return tmp;
    }
    operator++()....

private:
    volatile T val;
    RWMutex mutex;
};
```
