Subject: Thread::ShutdownThreads not safe
Posted by hojtsy on Sun, 13 Jun 2010 13:40:42 GMT
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Hi,

I think the implementation of Thread::ShutdownThreads() and Thread::IsShutdownThreads() is not thread-safe:

```
static Atomic  sShutdown;

void Thread::ShutdownThreads()
{
 AtomicInc(sShutdown);
 while(sThreadCount)
  Sleep(100);
 AtomicDec(sShutdown);
}

bool Thread::IsShutdownThreads()
{
 return sShutdown;
}
```

I believe that the correct implementation would be:

```
static volatile Atomic  sShutdown = 0;

void Thread::ShutdownThreads()
{
 AtomicInc(sShutdown);
 while(AtomicRead(sThreadCount))
  Sleep(100);
 AtomicDec(sShutdown);
}

bool Thread::IsShutdownThreads()
{
 return AtomicRead(sShutdown);
}
```

Could you please look into this, and fix if I am correct.
Thanks,
- Sandor