Subject: Fast memory pool with tests
Posted by gridem on Sat, 22 Aug 2009 11:54:22 GMT

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Solving the problem with saving the threads contexts I developed the package to work with memory pools using lock-free approach. The main goal is to perform the allocation from preallocated vector storage without any fail and as fast as possible.

There are two classes:
1. MemoryPool - uses simple algorithm for allocation
2. MemoryPoolFast - uses more complex algorithm.

Surprisingly that both algorithms show nearly the same results.

The package contains AtomicValue class to work with values atomically. It can be used separately.

NOTE: The packages were developed only for Win32 platform.

Regards, Grigory.

File Attachments
1) FastMemoryPool.zip, downloaded 511 times