```
template<typename UpdaterType>
void runAsyncUpdateTest()
{
    UpdaterTest<UpdaterType> updater;
    PerformanceCounter pc ("RealTimeAsyncUpdaterCounter", 1000);
    std::atomic<bool> hasFinished { false };
    std::thread t ([&]
                       for (int i = 0; i < 10'000; ++i)
                            pc.start();
                            updater.sendUpdate();
                            updater.event.wait (-1);
                            pc.stop();
                            if (! updater_hasDelivered_load())
                                expect (false);
                       }
                       hasFinished = true;
                   });
    while (! hasFinished.load())
        MessageManager::getInstance()->runDispatchLoopUntil (5);
    t.join();
    expect (updater.hasDelivered.load());
```













## Measuring message post -> callback latency



```
template<typename UpdaterType>
void runAsyncUpdateTest()
   UpdaterTest<UpdaterType> updater;
   PerformanceCounter pc ("RealTimeAsyncUpdaterCounter", 1000);
   std::atomic<bool> hasFinished { false };
   std::thread t ([&]
                       for (int i = 0; i < 10'000; ++i)
                           pc.start();
                           updater.sendUpdate();
                                                             Measuring message post -> callback latency
                           updater.event.wait (-1);
                           pc.stop();
                           if (! updater.hasDelivered.load())
                               expect (false);
                       hasFinished = true;
                   });
   while (! hasFinished.load())
       MessageManager::getInstance()->runDispatchLoopUntil (5);
   t.join();
   expect (updater.hasDelivered.load());
```

