Subject: Re: What is the best way to create a Semaphore with timeout?
Posted by Tom1 on Thu, 19 Dec 2019 13:38:21 GMT
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Hi!

That was fast! Thanks Mirek!!

Now to the Fifo implementation. Does this look right from the point of mutex synchronization? I know this 'appears to work when testing' but I'm new with ConditionVariable, so I'm a bit uncertain if my usage of it is correct. I.e. Will multiple receiving threads calling StringFifo::Get() be correctly served so that each and every String will get read exactly once?

```
class StringFifo: public BiVector<String>{
 ConditionVariable cv;
 Mutex mtx;

public:
 StringFifo(){

 }

 void Put(const String &s){
  mtx.Enter();
  AddTail(s);
  cv.Signal();
  mtx.Leave();
 }

 String Get(int timeout_ms=-1){
  mtx.Enter();
  if(GetCount() || (cv.Wait(mtx,timeout_ms) && GetCount())){
   String r=PopHead();
   mtx.Leave();
   return r;
  }
  else{
   mtx.Leave();
   return String::GetVoid();
  }
 }
};
```

Thanks and best regards,

Tom