Set-once memory

Set-once memory is a special kind of synchronous memory with the following constraints.

- Multiple fibers can access the memory.
- We initialize the memory at most once, during the first set operation.
- We spin until the thunk has evaluated.

Our implementation has the following signature. The new operation creates a set-once cell. The get operation obtains the value of the cell. This operation spins if the thunk is already evaluating.

```ml
type 'a set_once_mem
type 'a thunk = unit -> 'a
val new : 'a thunk -> 'a set_once_mem
val get : 'a set_once_mem -> 'a
```

We can completely specify the behavior of set-once memory in terms of futures.

```ml
val new = future
fun set sm = (  
  case poll sm  
  of NONE => touch sm  
    SOME v => v  
  (* end case *))
```