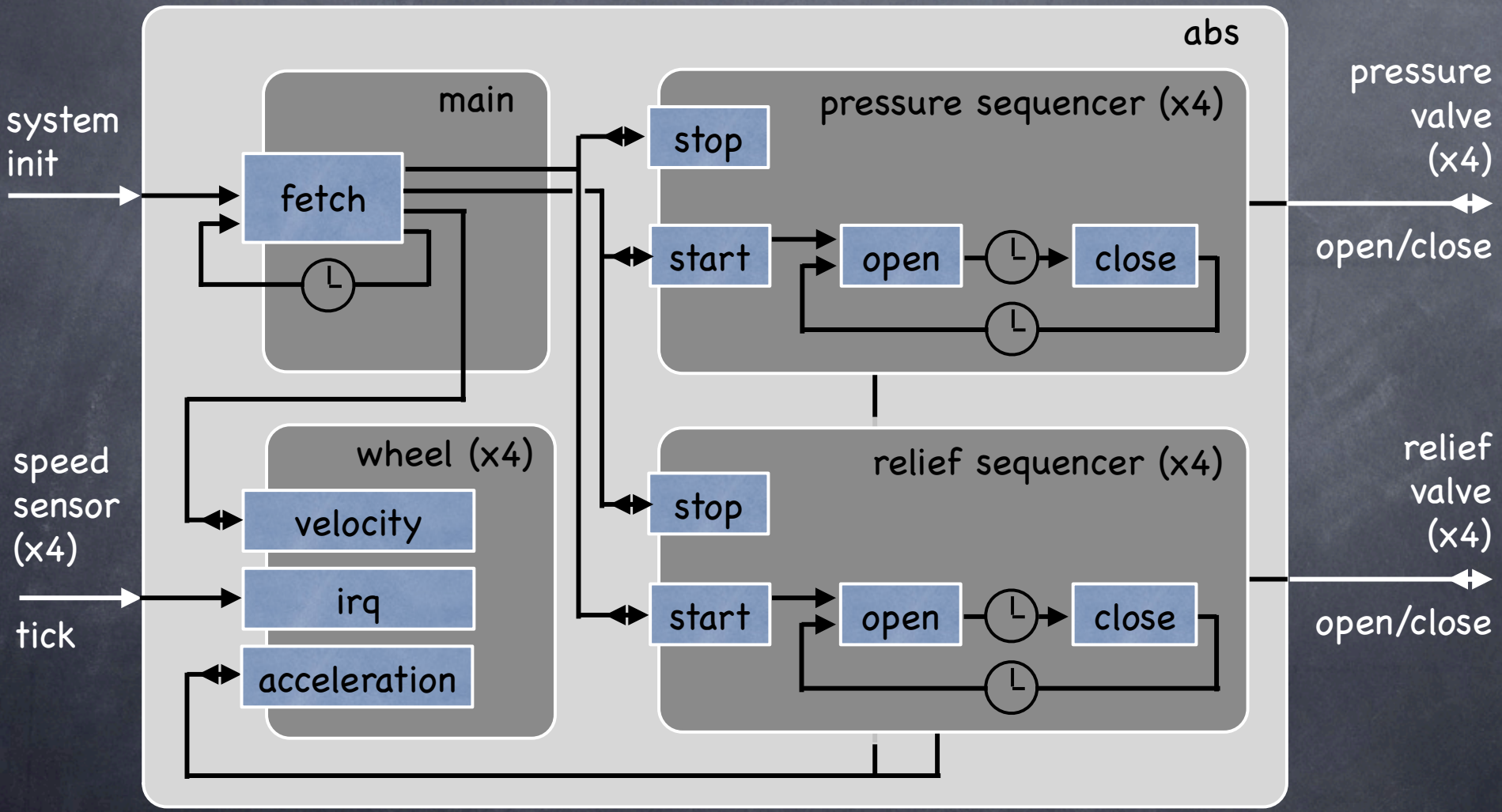
An ABS in Timber



An ABS in Timber

```
relief wheel valve = class
    msg := null
    stop = request
        abort msg
        valve.write cCLOSED
    start = request
        abort msg
        msg := send open
    open = action
        a <- wheel.acceleration
        if a < 0 then
            valve.write cOPEN
            msg := send after (millisec (a*10)) close
        else
            msg := send after (millisec 5) open
    close = action
        valve.write cCLOSED
        msg := send after (millisec 5) open
    result Sequencer {..}
```

Encapsulated state variable

Synchronous method

Asynchronous call

Mutation

Asynchronous method

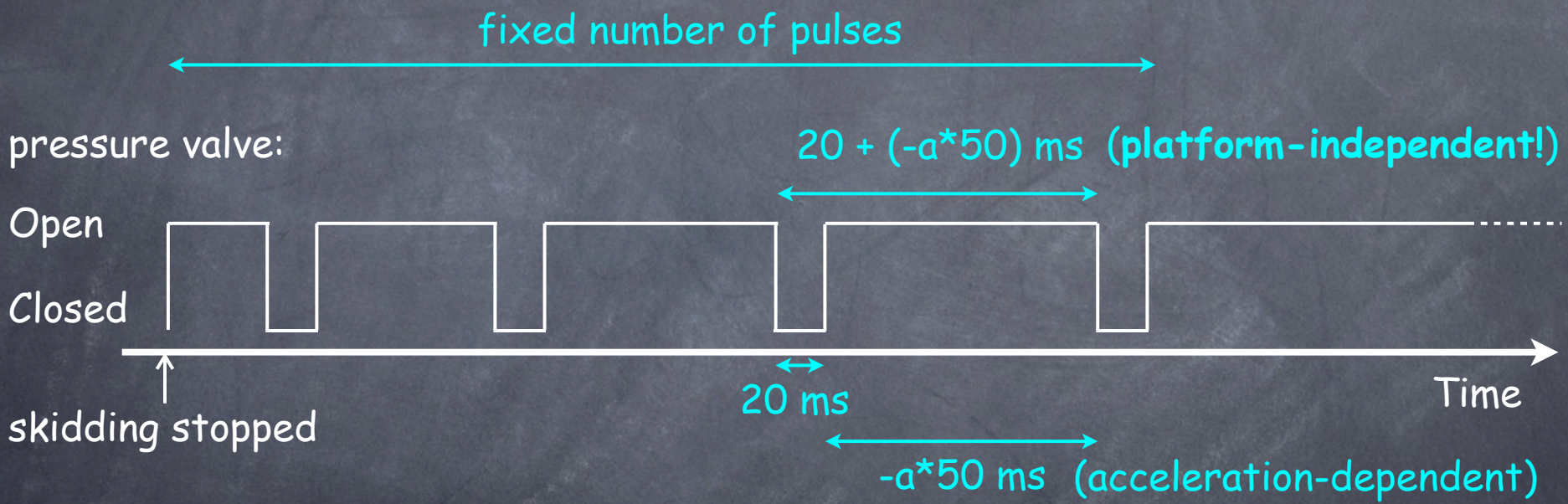
Synchronous call

Delayed asynchronous call

Returned object interface

An ABS in Timber

Reapplying brake pressure

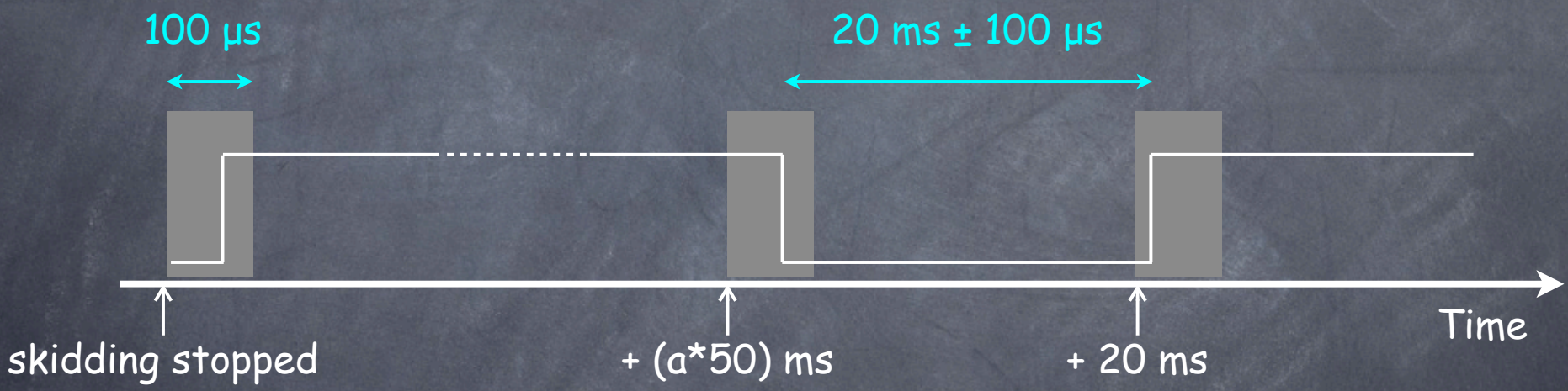



```
after (millisec 20) (open n)

    a <- wheel.acceleration
    after (millisec (-a*50)) (close (n-1))
```

An ABS in Timber

Reapplying brake pressure



open = **before** microsec 100 **action** ...

close = **before** microsec 100 **action** ...

open = **before** microsec 100 **action** ...