## The Two-Process One-Bit Algorithm

```
--algorithm OneBit{
variable x = [i \in \{0, 1\} \mapsto \text{FALSE}];
fair process ( P \in \{0, 1\} )
 { ncs:- while ( TRUE )
           { skip;
             e1: x[self] := TRUE;
             e2: if (\neg x[1 - self]) { cs: skip }
                 else { if (self = 0) { goto e2 }
                        else { e3: x[1] := FALSE;
                                e4: while (x[0]) { skip };
                                    goto e1
          f: x[self] := FALSE
```