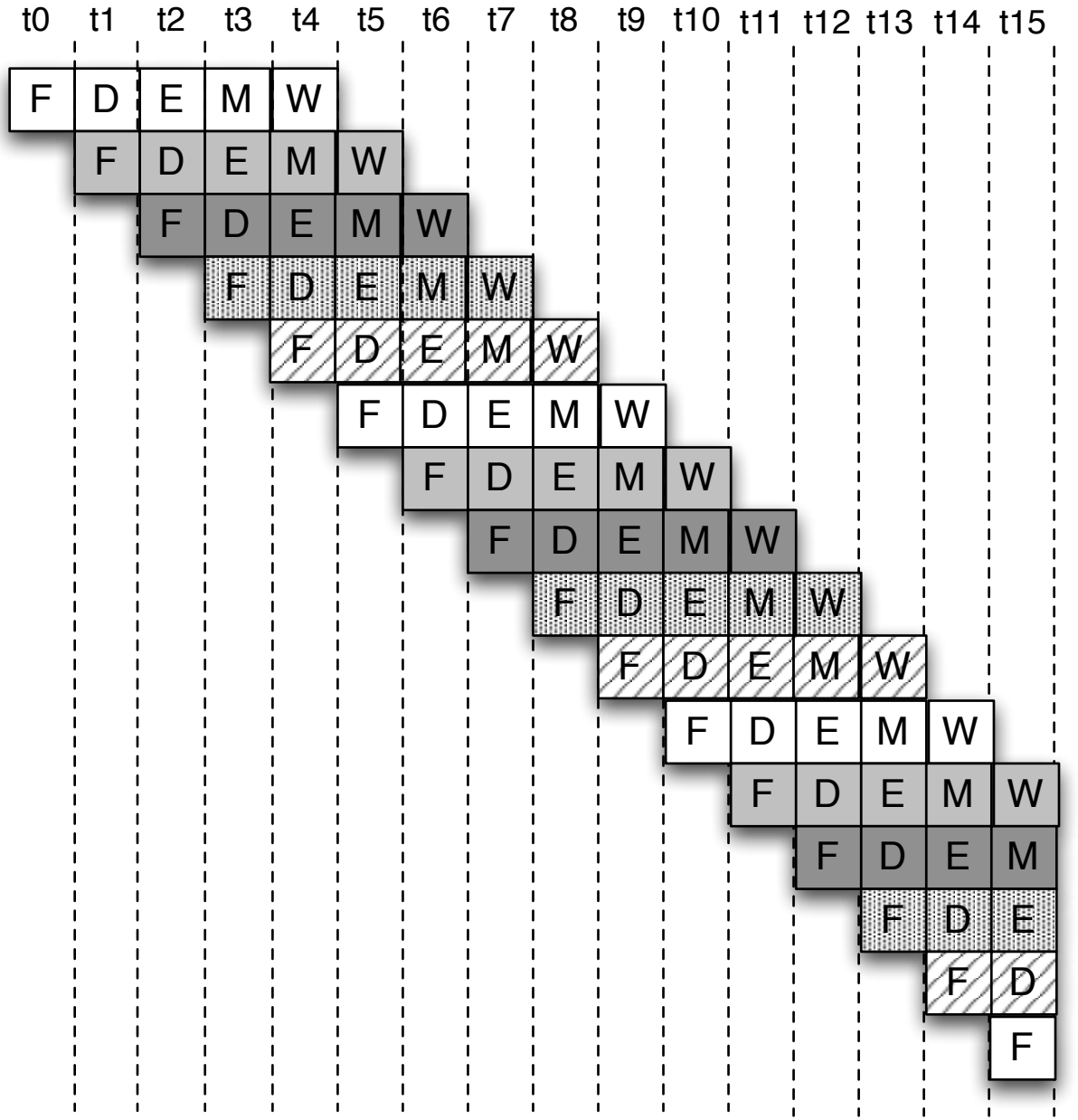
```
gcd:
        cmp  r0, r1
        beq  end
        blt  less
        sub  r0, r0, r1
        b    gcd
less:
        sub  r1, r1, r0
        b    gcd
end:
        add  r1, r1, r0
        mov  r3, r1
```

```
add  r0, r1, r2
sub  r1, r0, r1
ldr  r2, [r1]
sub  r0, r2, r1
cmp  r0, r3
```