

-15%
-15%

< 20%



-25% +10%



Pipeline *

m1 m2 m3 m4

m1 m2 m3 m4

$$(a * b) * c * d \rightarrow 12c$$

m1 m2 m3 m4

$$(a * b) * (c * d) \rightarrow 9c$$

$$((a \cdot b) \cdot c) \cdot d$$

$$(a \cdot b) \cdot (c \cdot d)$$

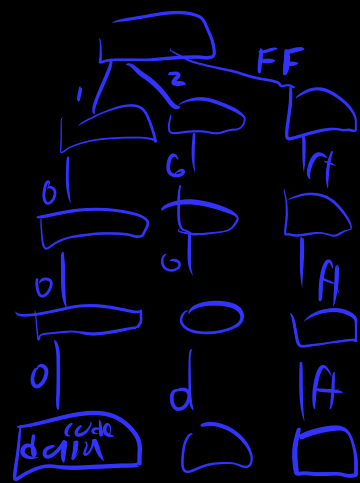
$U_{\text{cyl}} *$

$2cxa$
 M_1

$2cyl$
 M_2

m_1 m_1 m_2 m_2
 m_1 m_1 m_2 m_2
 m_1 m_1 m_2 m_2

0000 0000 1000 0000 0000 0000 0000 0000



+

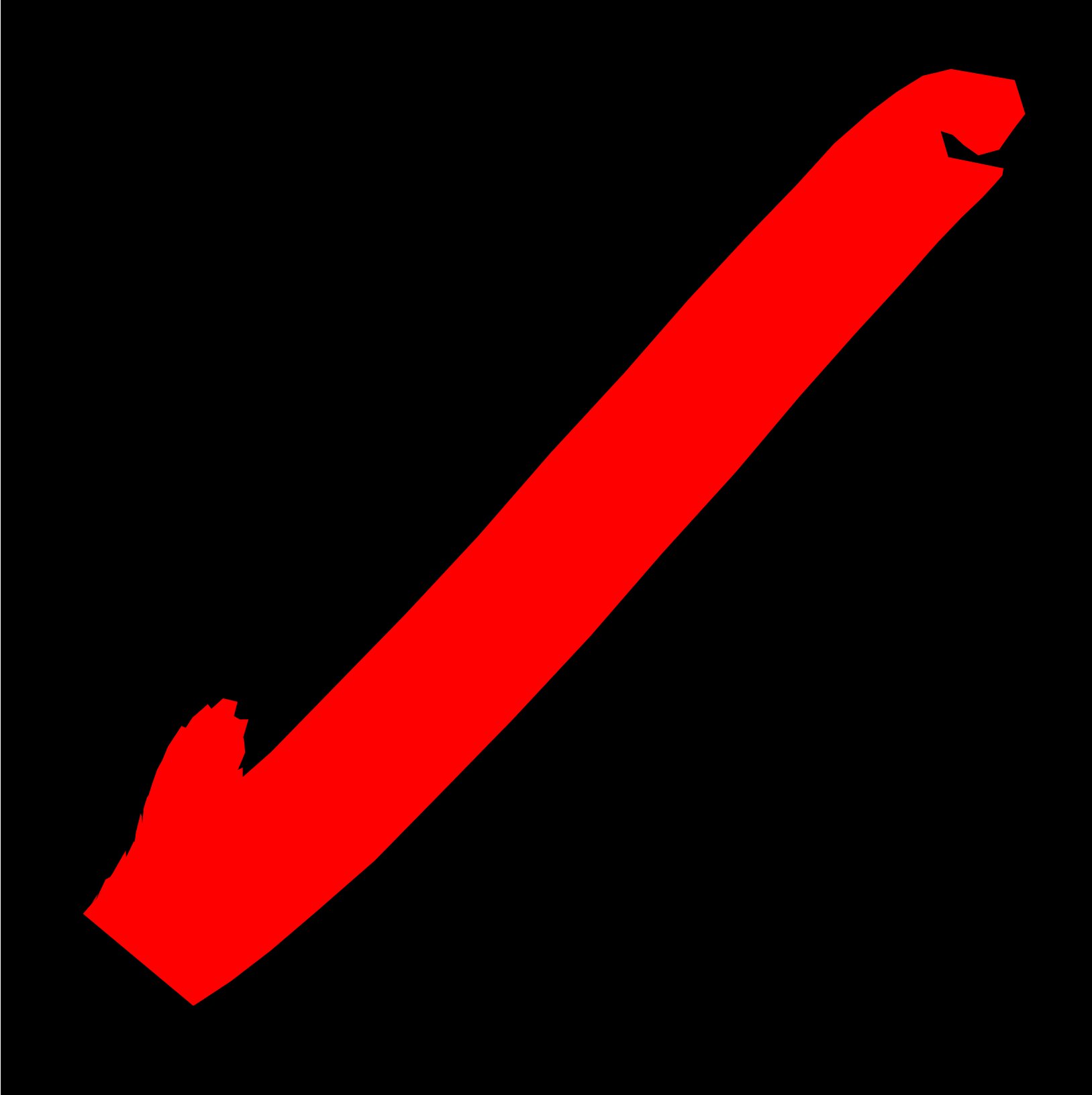
mmmm

o

rcx
rcx
rcx



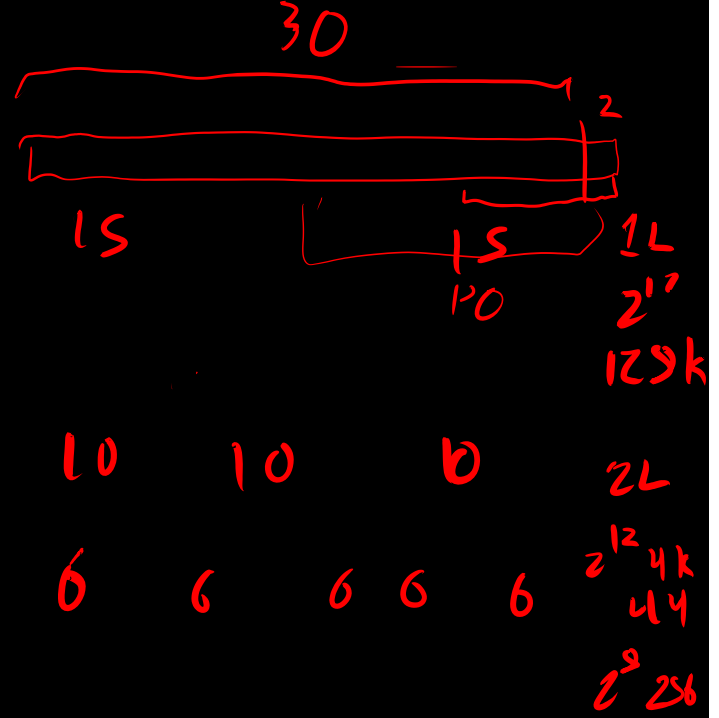
F D E (M) W
F D E M (W)
- F (D) E (M) W
F (D) E M W
F D E M W





1
dám

X
1
busy



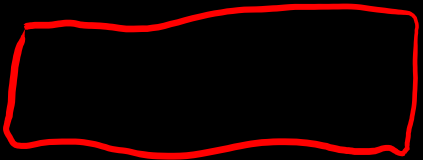
4

2

1

F D E M, w₁ w₂

F D E, M, w₁ w₂



→ N → N B N N
X

S S B N N
↑