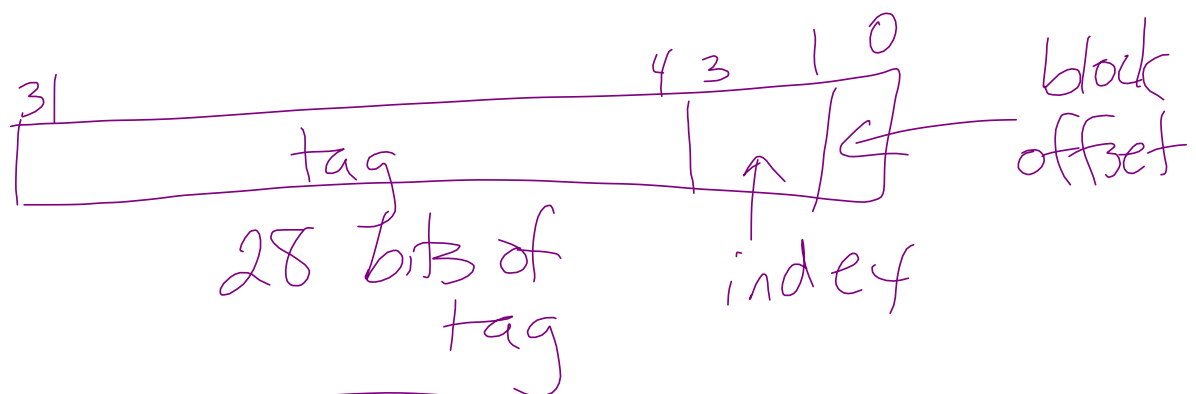


$$8 \text{ blocks} \times \frac{1 \text{ set}}{1 \text{ block}} = 8 \text{ sets}$$

$$\text{bits of index} = 3$$



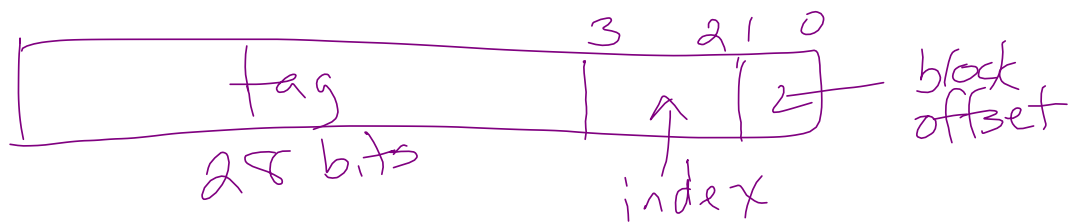
$\frac{2 \text{ words}}{1 \text{ block}}$
---

$$\log_2 2 = 1$$

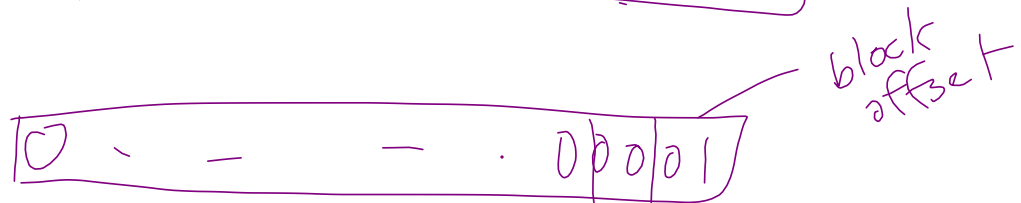
$$\frac{1 \text{ block}}{1 \text{ set}}$$

$$\frac{1 \text{ block}}{4 \text{ words}}$$

$$16 \text{ words} \times \frac{1 \text{ block}}{4 \text{ words}} \times \frac{1 \text{ set}}{1 \text{ block}} = 4 \text{ sets}$$



Tag	m[x20]	m[x21]	m[x22]	m[x23]
0	m[0]	m[1]	m[2]	m[3]
1	m[4]	m[5]	m[6]	m[7]
2	m[8]	m[9]	m[10]	m[11]
3	:	:	:	:



$$\left\lfloor \frac{57}{4} \right\rfloor = 14 \times 4 + 0$$

$$14 \times 4 + 1$$

$$14 \times 4 + 2$$

$$14 \times 4 + 3$$

00, 01, 10, 11

block offset

2-way  
16 words  $\left( \begin{matrix} \times & \frac{1 \text{ block}}{2 \text{ words}} & \times \end{matrix} \right) \frac{1 \text{ set}}{2 \text{ blocks}} = 4 \text{ sets}$

~~A~~  
Tag

0		m[0]	⋮	m[1]
1				
2		m[4]	⋮	m[5]
3				

~~B~~  
Tag

block  
offset  
1 bit  
index  
2 bits

0	0	0	0	1	m
0	0	1	0	0	m
0	1	0	0	0	

4, 5, 6, 7