

no calculators

know powers of 2  
 $2^{-10} \dots 2^{10}$

Conversions

bin  $\leftrightarrow$  dec

bin  $\leftrightarrow$  oct

bin  $\leftrightarrow$  hex

(unsigned, signed int,  
float)

Circuits

- implement functions
- k-maps
  - rows of truth table (and/or/not)
  - MUX
  - Decoder / Or

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T.T. for adders

D-flip-flop/latch

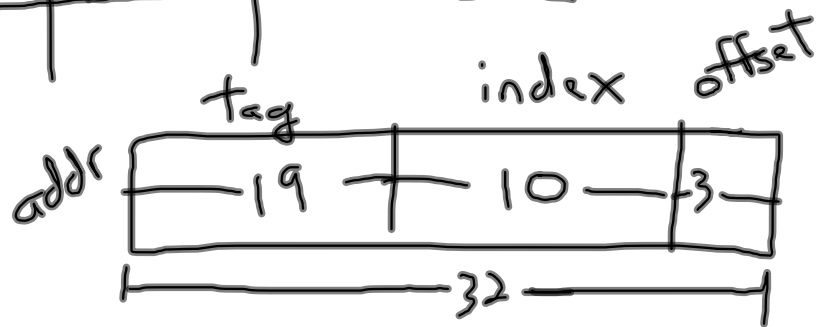
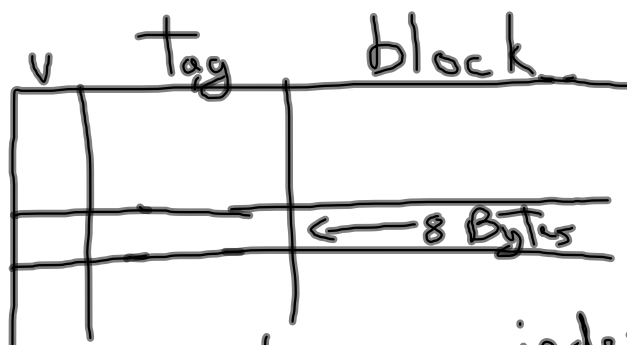
# Cache

Direct Mapped

32 bit addresses

2 words per block (8 Bytes)

1024 rows



2-way set assoc.

