

$342_{10} \rightarrow$  in base 4

$\rightarrow$  multiply by  $132_4$

$\rightarrow$  turn in base 16

$\rightarrow$  subtract  $BF7_{16}$

$\rightarrow$  turn in base 2

$\rightarrow$  divide by 16

$\rightarrow$  turn in IEEE half prec.

$\rightarrow$  sum  $\langle 0; \mathbf{111}00; 111000000 \rangle$

$\rightarrow$  turn in base 10

342	4
85	2
21	1
5	1
1	1
0	1

$$342_{10} = 11112_4$$

$$\begin{array}{r} 11112 \times \\ 132 = \end{array}$$

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$$\begin{array}{r} 22230 \\ 100002 - \\ 11112 - \end{array}$$

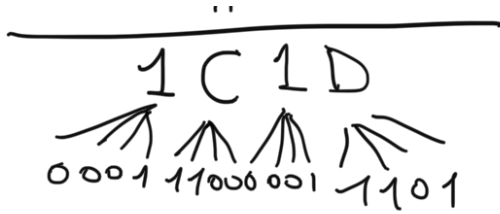

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$$16 = 4^2$$

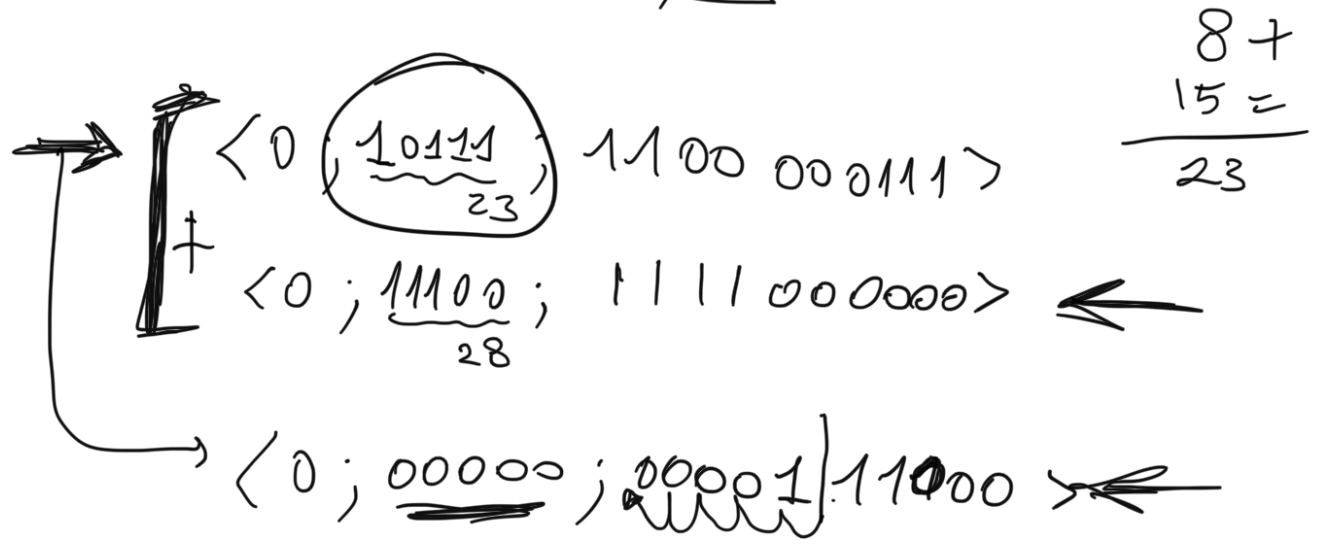
$$\begin{array}{r} 2200110 \\ \hline 2814_{16} \end{array}$$

$2^3$   
~~2~~ ~~8~~ ~~X~~ ~~X~~ -  
 BF7 =  
11

$$2 \cdot 4^1 + 0 \cdot 4^0$$



$16 = 2^4$

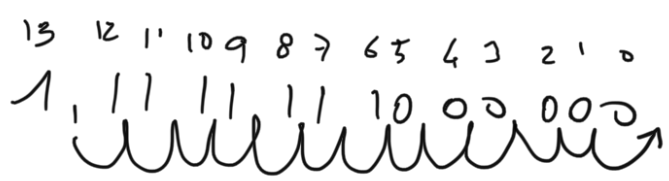


$\textcircled{1} \quad 1111 \ 00 \ 00 \ 00 \ +$   
 $0, \ 0000 \ 11 \ 10 \ 00 \ =$   


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 $1, \ \underline{1111111000}$

$\left\langle 0, \underline{11100}, 1111 \ 10 \ 00 \right\rangle$   
 $\frac{28 - 15}{13}$



$\sum_{i=6}^{13} 2^i = 64 + 128 + 256 + 512 + \dots$

$$1024 + 2048 + 4096 + 8192 \\ = 16320$$