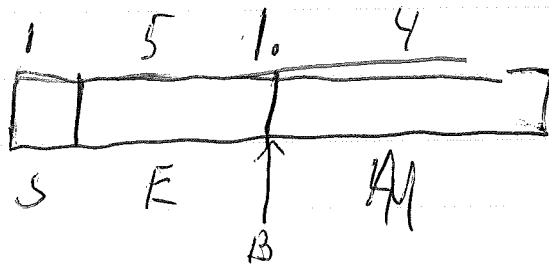


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E in bias is

E 11001  $\rightarrow$  "Revl" E is 10

01001  $\rightarrow$  -6

11111  $\rightarrow$  16 reserved

00000  $\rightarrow$  ~~15~~ -15

$$\begin{array}{l} 0100001111 \\ + 1100001000 \end{array} \left. \vphantom{\begin{array}{l} 0100001111 \\ + 1100001000 \end{array}} \right] \begin{array}{l} + (1\frac{15}{8})2' \\ - (1\frac{1}{2})2' \end{array}$$

Already Aligned

$$\begin{array}{l} + 1.1111 \\ + \\ - 1.1000 \end{array}$$

$$A \quad \begin{matrix} 5M \\ + \\ 11111 \end{matrix} \quad \begin{matrix} 2's \\ 01111 \end{matrix}$$

$$B \quad \begin{matrix} + \\ - \\ 11000 \end{matrix} \quad (-24)$$

$$+ \quad 011000$$

$$13 \quad 10011$$

$$2's \quad \underline{101000}$$

$$\begin{array}{r} 01111 \\ 101000 \\ \hline 1000111 \end{array}$$



$$+ \quad \begin{array}{r} 0011 \\ \hline \end{array}$$

$$0.0011 \times 2^1$$

$$0.01100$$

$$1.011 \times 2^{-2}$$

$$1.1100 \times 2^{-1}$$

$$7/8$$

$$\boxed{100110111100}$$



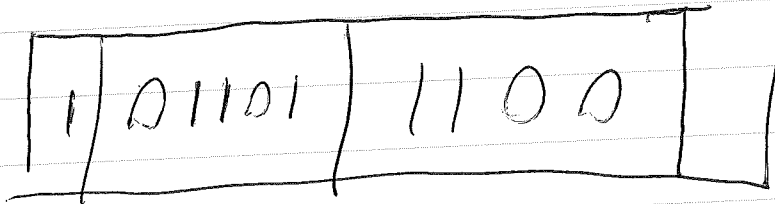
$$\begin{array}{r}
 01111 \\
 + 10100 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 100011 \\
 \hline
 \end{array}$$

$$\begin{array}{c}
 \downarrow \\
 000111
 \end{array}$$

$$+ 11100 \quad E \leftarrow E-3$$

$\sim 2$



1.1111

$\sim 4$

$M_4 \sim M_4$

1.1111

(00...4)

11. x x x  
 $\downarrow$

0.00111  
 $\longleftarrow$

0 1111 0 1111

$$+ \left(1 \frac{15}{16}\right) \times 2^{15}$$

+

0 1110 0 010

$$+ \left(1 \frac{1}{8}\right) \times 2^{14}$$

1.1111

1.0010

Not aligned

↓

0 1111 1

0 0100 0

---

1 0100 0

1.0100

$2^{16}$

OVF  $2^{16}$  is not valid

0110001100

~~01~~

\*

0100000000

24  $\Rightarrow$  9

16  $\Rightarrow$  1

—————

40 adjust 130

9  
+ 1 + 13  
10

- 15  
25

11001  
EKP



Syn  
0

1.1100

1.0000

—————

0.0000

00000

00000 0000

11100

011001100

1110000000  
~~01~~

1.1100.00

—————  
M

CAFE

$$\begin{array}{r}
 1. \\
 11001010111110 \\
 1 \mid 5 \mid 10
 \end{array}
 \quad - \quad
 \begin{array}{r}
 3 \\
 2
 \end{array}$$

$$\begin{array}{r}
 1. \boxed{10111111} \quad \sqrt{[X]} \\
 \text{in unsigned} \quad \underline{1} \\
 \quad \quad \quad 29
 \end{array}$$

$$70.5882553 \times 10^{-2}$$

$$70.58823\overset{4}{\cancel{3}} \times 10^{-2}$$

$$\rightarrow 0.705882\overset{4}{\cancel{3}} \rightarrow \text{to } B$$

.7058824	<u>1</u>	12 from
.51766	1	First MSB of 1
.03530	0	
.0706	0	12 from
.1412	0	
	0	round
	0	to 11
	0	
	0	place in
	0	
	0	0px
	<u>0</u>	
	1	

$$E = 1$$

$$0.0001000 \dots$$

subtract 4 from E