- MSB = Sign bit = 2 从 (2911年)

Sign extention fiel Noding sign extention of:

zero extention: and i, or i, xor:

- over flow detect

V= an-1.bn-1.Sn-1+ an-1.bn-1.Sn-1
= Cn (Cn-1)
143 (42.02) overflow
26.04) 78.65

- Multiplication

NKU -> LM 371

Shift left
0000 Multiplicand

3 0 0 0 multiplier

DOOO and	0000 and
0000 er	er
product	[]oooo product
	4
	on 1
6×5 0110	0110 =6
0101	multillan
<u> </u>	0000 000
0110 0101	1010 0110 260
0(10 0(0)	0011 -> 0010
0001 0010	001 100 BA
0001 1001	0001->1001
40110	0111 1001
0111 100 1	001151100
&	NG 2011 1100
0011 1100	0001->1110
000/ /(10	
- division	

-floating point

Smallest + 0 0-01 1.00-0 =
$$1 \times 2^{1-12\eta}$$

largest + 0 1-10 1.11-1 = $(2-2^{-25}) \times 2$

$$1.0_{2} \times 2^{7} = 0$$
 0 111110 1.0-0
 $0.75.0 \times 2^{4} = 0$ 10000010 1.10-0

ţ	F	
zero → all zero	Mizero	(denomalized)
infinity > oul 1	all zero	Ent all zero et
NaN > all 1	NON Zevo	hidden bit of 0 = 3 01-21
		(-1) ⁵ x(0,···) x 2 ^{l-12} 7

- rounding

round to nearest even . 100 2' cm

17/

gurd round sticky (3022011 0/3411 10/24412 2521)

grand it 00/00 हें अपदी

10100 > यध्या 1018 > ध्य देए वास स्पिष्ट भागति.

े १ ०(५०) हुन

- Addition	
exponent à101 → 더 까운 与로 그 >101 안 = right shift in M ~1	윗수왕 출
•	J
exponental relation della tilla fill	gay bith GRS
	(F 35 A. 18-3
地一湖外,所为 说出 > IEEE 的代码 型	(L-7-tov13)
धार प्रभ द्वेन	
1.1100 Shift rall	
$\frac{10000 + (-6)}{10000} = 0.001$	
$ (00000 + (-0.111)^{2} (0000)^{-0.111} = 0.000 $	
$0.001 \times 2^{-1} = 0.010 \times 2^{-2} = 1.00 \times 2^{-4}$	
0191 round 31	
hidden bir 37727128	
- Multiplication	
$(f_1 \times 2^{e_1}) \times (f_2 \times 2^{e_2}) = f_1 \times f_2 \times 2^{(e_1 + e_2)}$	
Step o hidden bir 331	
Step 1 bins을 고려한 Exponent 카비 EntE2-127 = E	,
1+1-2)=-3, (-1+129)+ (-2+129) - 129=124	
סטטסון,ו בסוו.וא פשט	
1,110000 x 2-3	

- MIPS floating point instruction
- Subword parallellism
add: u -> sign extention