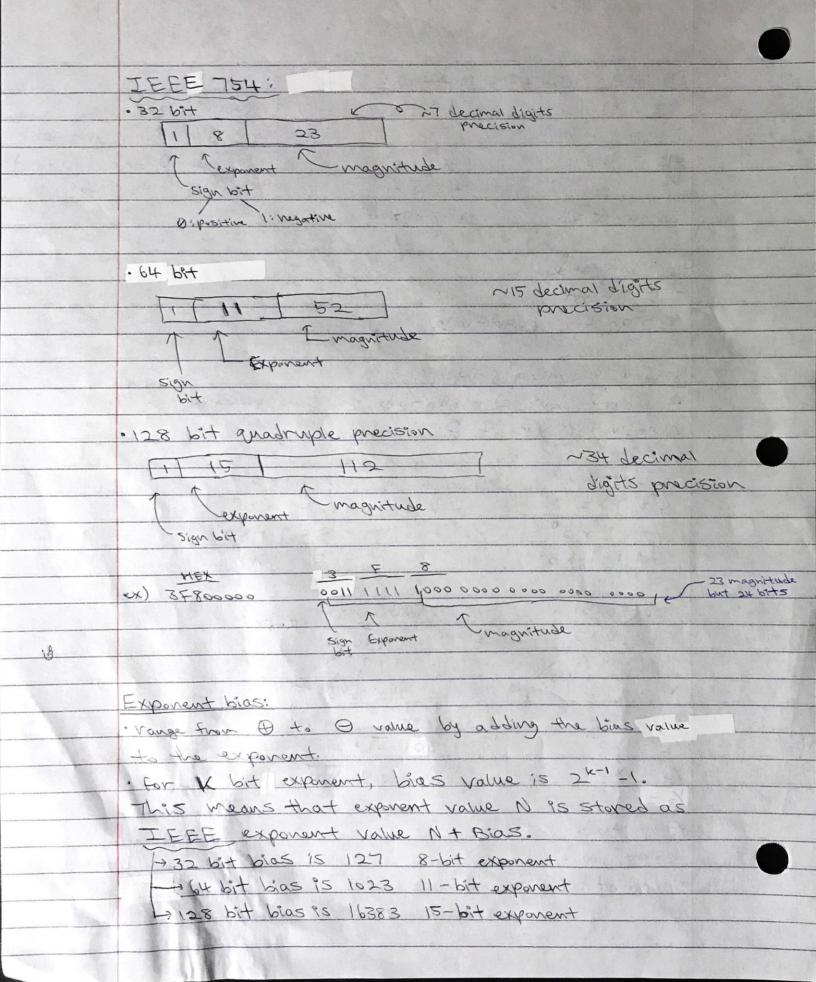
makefile Make - f comp Arch. make Makefile 5. makefile (op> 5. Makefile ex noverile EXOI: EXOI.C 1 \$ (compile) -c EXOI EXOI.C Error o: Error c Grow L \$ ( COMPILE) - C Error. C bunch offiles Tar files: // do this on ilab machine. List of mate tor Uf filename.tor directories flunames See contents tour typ filename tour Extraction Tour XVf folename tour Omake file on Ilab machine Omake clean all o files lonly , c, . h, . Pdf files etc) 3) tor xxf to extract \* can use macros to put different files in different subdirectories machine = Intel OS=Linux macros continue on UI = and live Disassem. 0: \$ (machine) / Disassem. C \$ (machine) / DISassem.h transfering SCP CS211. TAR morbius @ back cs. rutgers. edu: ~ Home remote pe be name filmans login

div

## \$1 in IEEE is never there bic it's always there.

	Decimal Scientific Notation:	Tues to
	1 = 1 × 10° 1 × 10°	1. Normalized
	3000 = 3000 × 10 3× 103	· Martissa (or magnitude)
	412 = 412.10 4.12.102	· Between O and (not quite)
-	1/3 = 03.10 3.333.10	10 (ex) 8 to 9,999)
	unvarnatized Normalized	
	0.2	
P	1. Magnitude	1554 Ed. T. 65 4321
f	2. Exponent	
1	3. Sign for magnitude	
	Binary Floating Point:	
	A binary (base 2) magnitude to some positive or	
	regative power of 2.	
	1=1×2°	
	2=1×2' Normalized 2=1	x2'
	$\psi = 1 \times 2^2 \qquad = \rangle \qquad \psi = 1 \times 2^2$	
		1.1 × 2'
S. Constanting	5=101 x 2° 5=	1.01×22
C. Parish		
	Decimal Binary	- Pv
	765.432 1015/01	a div
	TITTE TITTE	<b>*</b>
	102 10' 10' 10' 10' 10' 10' 2' 2' 2' 2' 2' 2' 2'	
	(6 (6 (7 (7 )	
	$V_2 = 1 \times 2^{-1}$ $\frac{1}{3} = 1.01010101 \times 2^{-2}$	
	1/4 = 1 × 2-2 /5 = 1.100 1/00 (100 1/00 x	2-3
· nagnitude		
	· Sign: 0 or 1	
1	· Experent: borner of 5	7.1
	Exporum, Forma of	



Float 32-WH IEEE754 Exponent + Bias Exponent -126. Exponent + Bias Representing Exponent 254 OXFE 129 0X81 128 0x80 127 8X7F 0 126 OXTE 125 0×7D 9-126 10X0 -126 \* Advantage: can compare floating numbers just like integers What about 0x00 exponent? .... means 0 Exporent 0xFF? ... 00 [+inf] en 1 = 35800000 0011 1111 1000 0000 0000 0000 0000 =1 make the trul ex) 4= 40800000 0/00 0/00 /000 0000 0000 0000 0000 8 1 implicit 1

HW Nan = exponent value 95 OXFF and magnitude is non-Zeno ex) 7F800000= 00 , 7F810100=+NM OXFF
FF800000 = -00
FF8xxxxx = -NaN Right shift of unsigned short, int, or long is logical. ·Right shift of short, int, or long is arithmetic. I I word out intparts float floatParti KNOW X. int part = 0; byte y char\* ptr = argv[1]; binary shifting while (\*ptr != 10') { number: = Number: 1 << 1; //left shift number. 1 += \*ptr - 'o'; p+r++; Von Nyemann. Architecture 07/10 . Stored instruction architecture CPU It can retrieve instruction or transfer data but count do them simultaneously.