STANDARD	
(-1) <sup>s</sup> × (1 + Fraction) × 2 <sup>(Exponent + 1)</sup>	Bias)
where Single Precision Bias =	

IEEE 754 FLOATING-POINT

IEEE 754 Symbols Object Exponent Fraction

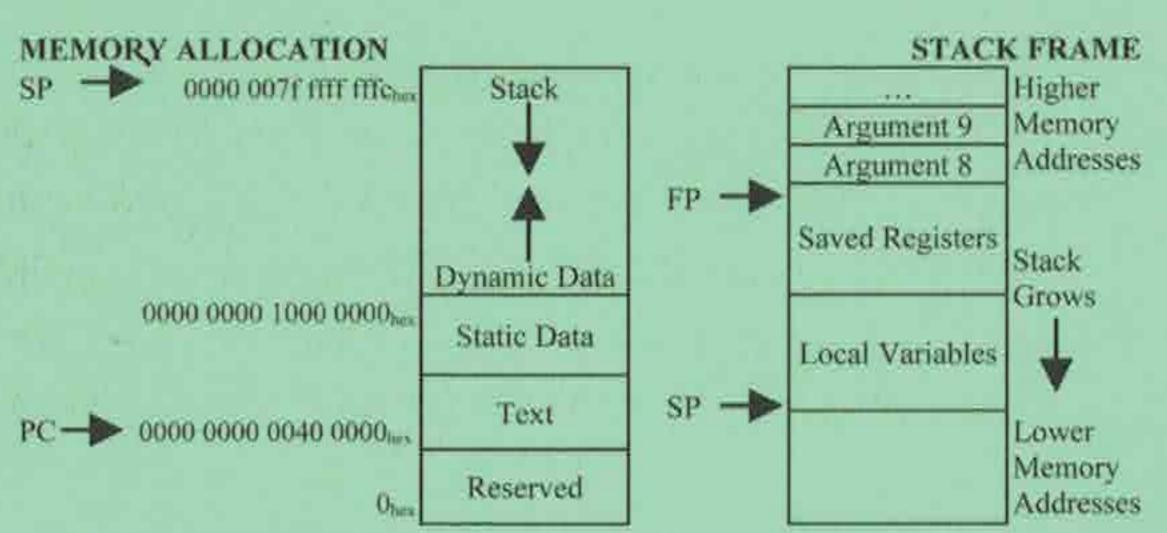
4

Double Precision Bias = 1023

Experient	Laction	Conject
0	0	± 0
0	≠0	± Denorm
1 to MAX - 1	anything	± F1. Pt. Num.
MAX	0	士 00
MAX	≠0	NaN
THE RESERVE AND PARTY AND PARTY.	THE RESERVE TO SHARE THE PARTY OF THE PARTY	THE PARTY NAMED IN COLUMN TWO IS NOT THE PARTY NAMED IN COLUMN TWO IS NAMED I

**IEEE Single Precision and** Doubl

le	Preci	sion F	ormats:	S.P. MAX = 255, D.P. MAX	= 2047
	S		Exponent	Fraction	
	31	30	23 2	22	0
	S		Exponent	Fraction	
	63	62		52 51	0



DATA ALIGNMENT

			Double	Word			
Word				Word			
Halfword		Halfword		Halfword		Halfword	
Byte	Byte	Byte	Byte	Byte	Byte	Byte	Byte

Value of three least significant bits of byte address (Big Endian)

EXCEPTION SYNDROME REGISTER (ESR)

EALER	HONS	INDRONE	CEAR	STER (ESR)	
Excep	10.000	Instruction Length (IL)		Instruction Specific Syndrome field (ISS)	
31	26	25	24		0

EXCEPTION CLASS

EC	Class	Cause of Exception	Number	Name	Cause of Exception
0	Unknown	Unknown	34	PC	Misaligned PC exception
7	SIMD	SIMD/FP registers disabled	36	Data	Data Abort
14	FPE	Illegal Execution State	40	FPE	Floating-point exception
17	Sys	Supervisor Call Exception	52	WPT	Data Breakpoint exception
32	Instr	Instruction Abort	56	BKPT	SW Breakpoint Exception

SIZE PREFIXES AND SYMBOLS

SIZE	PREFIX	SYMBOL	SIZE	PREFIX	SYMBOL
$10^{3}$	Kilo-	K	210	Kibi-	Ki
10 <sup>6</sup>	Mega-	M	2 <sup>20</sup>	Mehi-	Mi
109	Giga-	G	230	Gibi-	Gi
1012	Tera-	T	240	Tebi-	Ti
1015	Peta-	P	250	Pebi-	Pi
1018	Exa- '	E	260	Exbi-	Ei
1021	Zetta-	Z	270	Zebi-	Zi
1024	Yotta-	Y	280	Yobi-	Yi -
10-3	milli-	m	10-15	femto-	f
10-6	micro-	μ	10-18	atto-	a
10-9	nano-	n	10-21	zepto-	Z
10-12	pico-	р	10-24	yocto-	у

					H-bit O	(8)
Instruction Mnemonic Format		THE RESIDENCE OF THE PARTY OF T	Opcode	Shamt	Range	
Mnemoni		Width (bit		Binary	Start (Hex)	
	В	6	000101	000010	0A0	0BF
MULS	R	- 11	00011110001	0000110	OF	
DIVS	R	11	00011110001	000110	OF	
CMPS	R	11	00011110001	001000	OF OF	
ADDS	R	1.1	00011110001	001010	0F	
SUBS	R	1.1	00011110001		OF.	
MULD	R	1.1	00011110011	000010	OF.	
PDIVD		11	00011110011	001000	OF.	
PCMPD	R R	11	00011110011	001010	OF.	
PADDD	R	11	00011110011	001010	OF.	
PSUBD	D	11	0011110011	001110	1C	
STURB	D	11	00111000000		1C	
LDURB	CB	8	01010100		2A0	2A7
3.cond	D	11	01111000000		3C	10-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2
LDURH	D	11	01111000000		3C	
	R	11	10001010000		450	
AND	R	11	10001010000		45	_
ADD	1	10	100100100		488	489
ADDI		10	100100100		490	491
ANDI	В	6	1001001		4A0	4BF
BL	R	1.1	100101	000010	4D	
SDIV	R	11	10011010110	000011	4D	
JDIV	R	11	10011011000	011111	4D	
AUL.	R	11	10011011010	011111	4D	7.
HAUMS	R	11	100110111110		4D	
HAUME		11	1010101010000		550	
ORR	R R	11	10101010000		55	
ADDS	IX.	10	1011000100		588	589
ADDIS ORRI	1	10	1011000100		590	591
CBZ	CB	8	10110100		5A0	5A7
CBNZ	CB	8	10110101		5A8	5AF
STURW	D.	11	101110000000		5C	
LDURSW	D	11	10111000100		5C	_
STURS	R	11	101111000100		5E	
LDURS	R	11	101111100010		5E	
	D	11	11001000000		640	
STXR	D	11	11001000000		64	
LDXR	R	1.1	11001010000		650	
EOR	R	11	11001010000		651	
SUBI	1	10	1101000100		688	689
		10	1101000100		690	691
EORI	IM	9	110100100		694	697
ZVON	R	11	110100101		69/	
LSR		11	11010011010		691	
LSL	R	11	1101011011		6B	701
AR SAING	R	11	111010110000		750	
ANDS	R				100	
BUBS	R	11	11101011000		751	
SUBIS		10	1111000100		788	789
ANDIS	12.4	10	1111001000		790	791
10VK	IM	9	111100101		794	797
TUR	D	11	1111110000000		70	
DUR	D	- 11	111111000010		7C:	
TURD	R	11	111111100000		7E	
DURD	R		111111100010		7E	2

occupy a range of 11-bit opcodes, e.g., the 6-bit B format occupies 32 (25) 11-bit opcodes.