## (1) Data Xsters instruction

) MOV RO, R1

RO. (2+ & not out paste)

Let is copy paste-ruled)

all 32 bit value in R gous

to RO.

NOV RO, # 0x25 Innediate

# 11/13 a two way of writing of the same instantion.

At in imed immediate addressing, mode see can only use 8-6:t data.

) MOVS RO, R1 ) MOVEBS RO, R1 ) MOVEBS RO, R1

A MOV RO, RI

the data is transferred
but there are not affected.

MOVS POIRS.

the data is tansferred also affects the Hogs.

If In other processors the fixes we affected by the arithmetic med logic, instancions.

But in ARM we can differ the times by any type of my tavetion.

MOVS 70, P1

if the value is negative in PI.

ofter this operation negative flag

sollibe 1.

A MOVEB RO, RI.

if the result of the previous instanction is qual than it will operate twis instanction, theoroise this instruction will be skiped.

# expellining folls when jump rus k.

when we use MOVEB. We don't need to use jump. so it senses the failure of pipelining.

# MOV 23 RD, P.1

if the pravious instr. produces carry try is 1. then this inste. will be occured, otherwise the instr. will be skiped.

# MOV ERS RO,R1.

if the result of previous insto is Coynal the data will be transferred PI to 20 and also effects the

) MVN 70,21 # MVN -D more not. means schooling the current rate. bajose ad Ilhar mothernten Little CPL In 8051. Jest quet redu d'at au MNN RO, R1.

Les 40 Robed.

Solver une une MINES. me dent

AND OFR DMVN=) NAND NOR EOR) XNOR

[P1+3]: (25 to 22 6:4)

. It is stoods for bothe. O. A.

Fill & from the

Me can also complement

any specific pagisters value.

NVN RO, RO

RO4 RO.

# MVN3 RD, R1.

the complement value of \$1 goes to 20 and also offeet tell flags.

# NVN HT 20, P1.

if the regult of the previous institute to ko.

# WNN HIS 50' 50

if the mesnt of the previous inst.

is higher than the pass the complement value (P1) to RO and also affects

the flag.

# MVN amabo be used as NOT gate.

## I) Load and Store Instruction

) LDR RO, [R] → 32 bit

# RO gets the data/content

of location printed by R1.

\* Portion 86it. Leta

4 location 323it Leta

4 location 323it Leta

[R1+2] (1 to 8 bit)

[R1+2] (17 to 24 bit)

[R1+3] (25 to 32 bit)

3 LDRB RO, [RI] -> 8 bit ] msigned

"H' stands for sound,

Was Lands for sound,

the Har

TIVE H

# LOPB PO[PI]

PO + [PI] (only one locations)

A LDRH RO, [R]

ROA [R]

[RIA] (two corresponding locations)

H sometimes se vol 32, it

the DD register's 32 lit.

wit we use 8/16 bit.

whet will boo the value in remaining bits in DD.

and shorts the #

32 17 16 1 xfored data.

Ans: when we use unsigned data
the remaining bets in 20 will be
filled with zero.

17 16 1 Signed number.

it it is signed number the servining empty bits will be filled with MSB of the transferred data.

OLDRSB RO[R1] -D86it Signed

# 'SH' stands foro

sign byte.

# 'SH' stands foro

sign but woods

of LDAT 20, [2] -> low privilege

ad the of mi sted principles

# 'T' indicates the protection.

when data transfer occurs users in Egstern Level the transfering is allowed. But when the programm then to access system level the transfering

operation 33 Liscarded.

and goes to next instantion.

50 it is safe to use LDRT

Pathor than simple 2DRT

) STRS H RO, [R] signed

) STRSH RO, [R] Signed

) STRSH RO, [R] Signed

It stook do the job
in same way but in
volumes wanners.

the value in PD is rationed
to the location printed by

. Now we will get all the 30 mg