68000 Hicroprocessor

101 -> Decimale

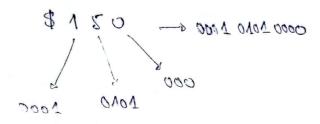
1.101 -> Bimoine

\$ 101 -> here decimal.

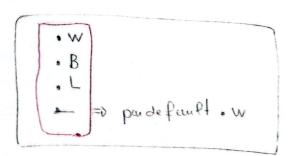
Lque

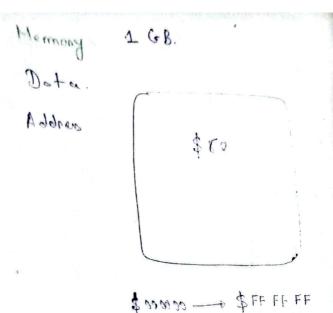
tjus on utilise l'hexadécimale

four quoi on utilise & herodecimot.



- · Bit = 0,1
- · Byte = 1 octet = 8 bits
- · Word = 16 bits
- · Long Word = 32 bits .

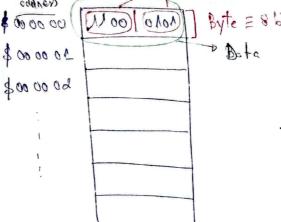




donc chapu case Homeine son forme:
hexadecime

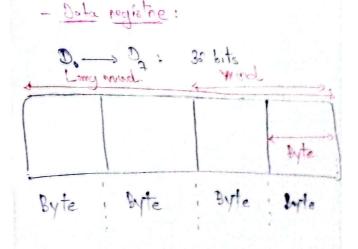
coldness

vool old byte = 8 6/3



Agistre = potile memoine = 24 bits
pa oremple

· Omo Bono le micro processor 2 type de registra



68000 Hicroprocessa

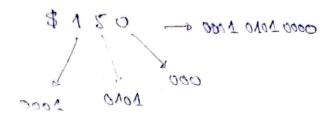
101 - Decimale

1.101 - Binaine

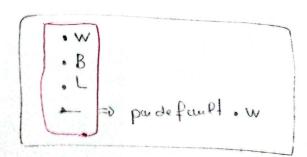
1.101 - hera decimal.

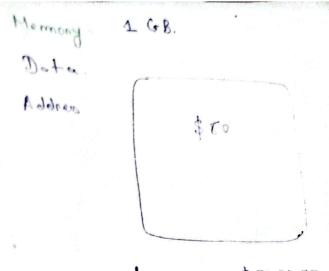
Eque tjus on utilise l'hexadécimale

four quoi on whitise I herodecimot.

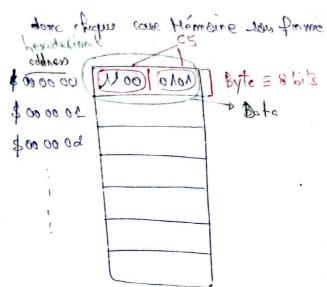


- · Bit = 0,1
- · Byte = 1 octet = 8 bits
- · Word = 16 bits
- · Long Word = 32 bits



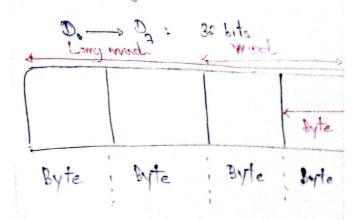


\$ 5000 -- \$ FF FF FF



Registre = potile mémoine = 24 bit

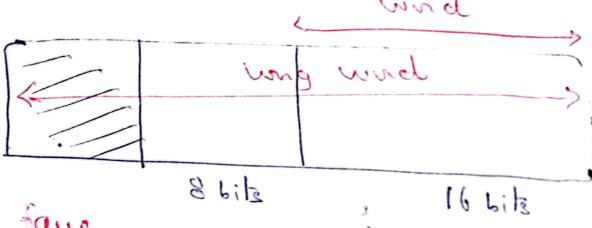
. Oma Bono le miano processor 2 type de region - Data registre:



· Registre d'oddnen:

Ao --- A 6

24 bits

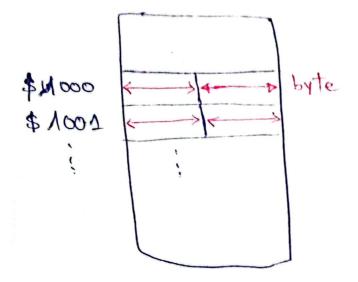


on trovail delement over on long word, donn le régistre d'adrien Diecodo Instructions

150 ORG: Migime.

ORG \$1000 : omdébut par la saux

: ocol susupolb



Code

SIMHALT

De: Define Generom

Dota

Do: Define Generom

END

OXPA:

A John Wall of the

V

=> Move. L

Exemples:

Hove. L #140. Da

1º00 cm nembre 140 cm Hexa.

=> Hove, L # \$80, D=

· Mine B HAMO , D.

exp3:

· move. 8 # \$ AS, A1.

Pour printion in fait ou other registre state of au (2) Jacks month

=0 netourme enneur

· move . w , #\$AS, A1

Domo cette cas

Paper
Dono le cus du . w

le régistre d'abreve tant 00 au FF.

- Dans le cas au . l

neste comme elle sot.

positive Mig

Negative

1000 - 7 FFF

00

exemples .

xb:

Move. L # X+4, A2
ORG \$ 40E00

Y: 55.L 1.

explication de le code

=0 Howel #9, Aa.

X = taujour est un ordners done dons

= 440E00 +0

=> Hove . L . #440E04 . A.

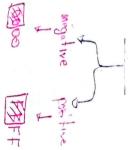
exp



Raus :

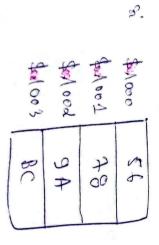
Ded is the 3. 3. om le neparen comme l'adness





explication

ici c'est à dine theuve le cave d'adness Hove. L I was at premal le comtemue (, L) et \$ 1000.L DH ---



donc dons SHE Cas.



민 P 11 1 الد ص

Register Dinect

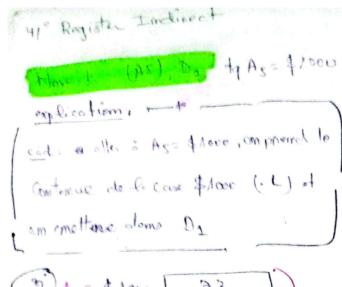
Hove . L 05.02

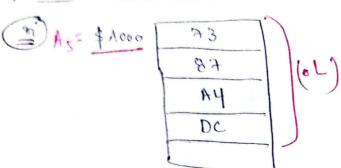
17 10 9 11 VV VV VV VV \geq >

Hove, w P1: 00 00 AS PLIAS 00

A500

AS at [AS 00

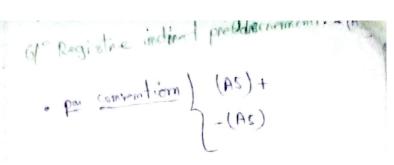


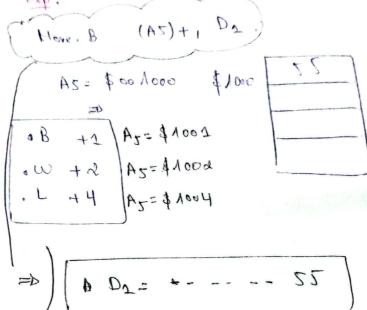


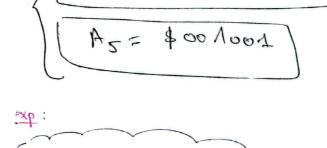
Rque:

Move . L (A5), D2

etal la teule différence emtre indired







(Move. 80 - (A5), D2.)

to Az = \$00 1006.

Dr=--- AN 22

More . B Do . - (A4)

Do = 4E CC AF B3

Ay = 00 3005 \$ 2000 12 => Ay = 0 (300 L) \$ 3001 34 \$ 3000 56 = \$ 3003 78 More . B : Om primel de Do juste \$ (3004) SA B3 en (aB3). etco BC 4 3005 \$ 300 6. DE -(A4) at comme . B dome A4 = 00 3004

(00 Book) par (B3)

=>

Hove (a) Do 1 (- A4) A 4 = 00 (300 3)

=) Do Do = 4E CC (AF B3 \$ 7000 | 12

\$ 7001 | 34

\$ 700 2 | 56

\$ 300 3 | 388 AF

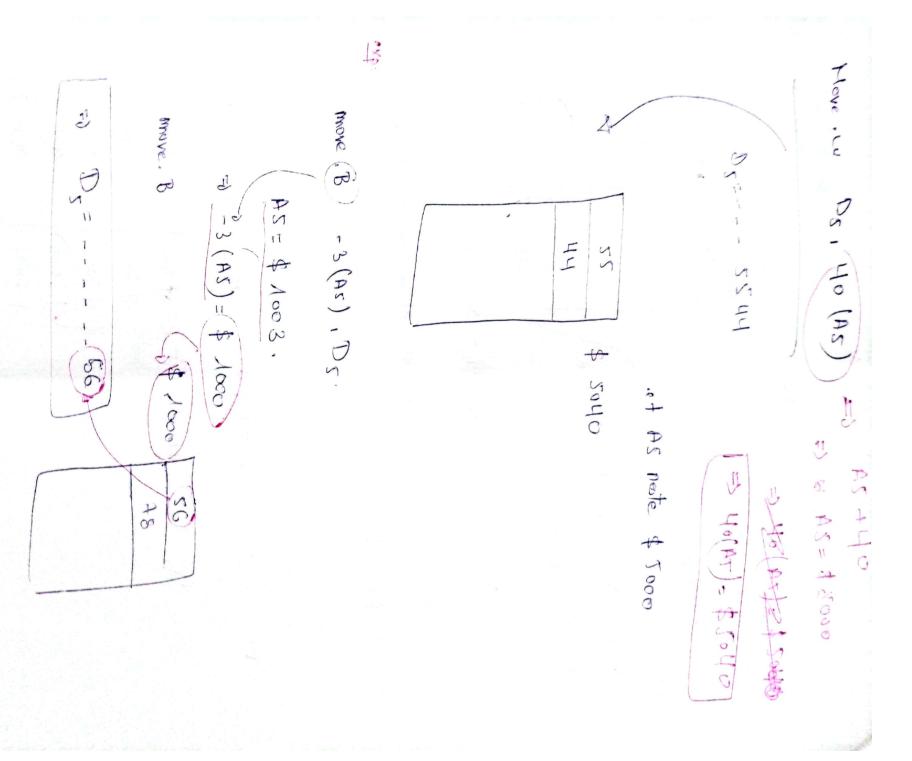
\$ 3my

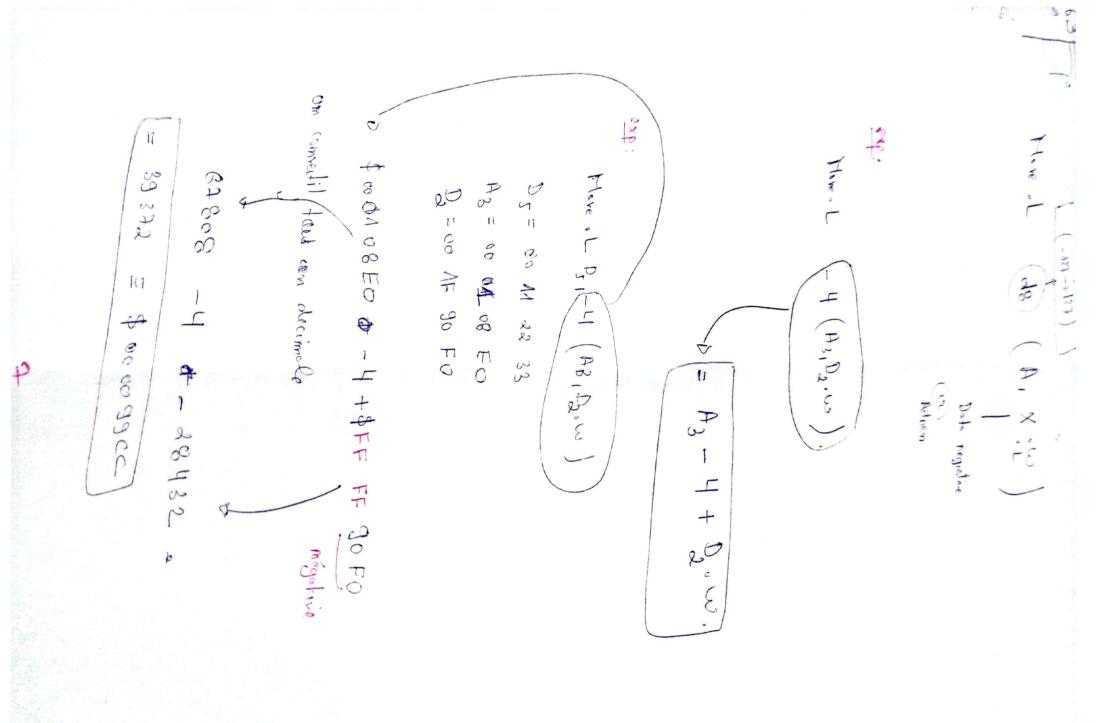
\$ 300 5

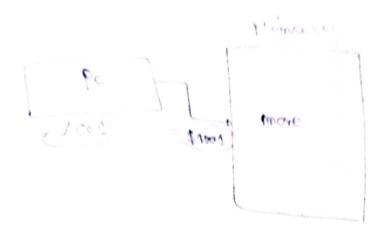
A

BC

B3







21° Programmi counter Rolling (position independent)

More. L # \$ CAYALBOO, X

More. L X(PE), Da

ORG \$ 2000

X: Ds.L I.

= x = \$ 2000

2000 C2 # 2001 UA # 2002 NB #2003 00

(1) move . L x , D2 => move . L , \$ 2000 , D2

= Dac CAMANE OU

3 come (60) mo, with box (bourger incrementally)

> reste comme çu.

ADD, ADDA, ADDA, ADDA, ADDA. Sub, SulA, Subop, SUBI, SUBX; MEG, NIEGX

CLR

MA MULU, MULS (Unsigned, Signed) DINU, BINS

ABOD (ABD BOD) SBCD (Sab BCD)

CHD, CHPA, CHPE, CHPH. dutiliset im

ADD:

Eize = Byte, word, Long.

Scance = Any odne sting mode

Destination = com't be odness negister

- om of the sounce or Distinction must be Data register.

Do = NONACONO, A1 = 00 00 20 00

ADD. W (A1), D.

Da = [Da].w + [P[A].w

= CONO + CAYO Menaine de As.

ADDOL An, Da

> ennem, destination comit be odnen negista

$$\Rightarrow X + D_1 + D_2 = D_2$$

Amom : om opplique ADD mamole

ADDOL AND

ADD. W Da 182

ADDX comprise intre | ADDX
$$D_1, D_2$$

 $ADDX - (A_2), -(A_2)$
8' $X = 1$

$$\Rightarrow X + D_1 + D_2 = D_2$$

amom: on opplique ADD momele.

SUBX
$$D_{1}, D_{2}$$

$$\begin{bmatrix} D_{2} \end{bmatrix} = \begin{bmatrix} D_{2} \end{bmatrix} - \begin{bmatrix} D_{2} \end{bmatrix} - \begin{bmatrix} X \end{bmatrix}$$

$$\begin{bmatrix} D_{2} \end{bmatrix} = \begin{bmatrix} D_{2} \end{bmatrix} - \begin{bmatrix} X \end{bmatrix}$$

NEG:

Exp:

& X=T

KOPE MEGXOW DI

Con on southert x=1

CLR:

m'existe pas em les Adress registers.

CLR.L Do = 00 00 00 00

MULU: (Umrigmed)

MULU Dr, P2 => Long word

p = 1531 2848 P = 1598 ABCD

(8632) x (8678)