

Entrée A0 [titre] [chier] -- [titre] -- chier) menu
 sur le menu

XMCONS: MOVEM.L A0/A5/A6, -(SP)

```
BSR XMKILLA
MOVEQ #4, d0
MOVE.L d0, ainxin
MOVEQ #109, d3
BSR AESC
```

ôte ancien
 coordonnées fenêtre 0
 ainxin + 2
 x, y, Δx, Δy

```
MOVE.L (SP), A0
MOVEQ #0, D6
MOVEQ #12, D5
```

d6 = nb de menus
 d5 = nb d'objets

```
TST.B (A0)
BEQ ERRMEN
```

→ erreur menu

```
GAG87: TST.B (A0)+
BEQ GAG89
ADDQ #1, d5
```

)

```
GAG88: TST.B (A0)+
BNE GAG88
BRA GAG87
```

```
GAG89: ADDQ #1, d6
TST.B (A0)
BNE GAG87
```

d5 = \$16
 d6 = 3

```
MOVE.L D6, D0
ADD.L D5, D0
ADD.L D0, D0
ADDQ.L #8, d0
ADD.L A0, D0
SUB.L (SP), D0
```

vérif mémoire

marge

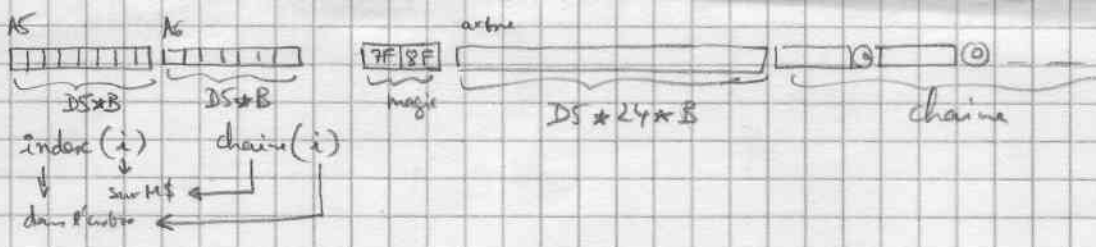
```
MOVE D5, D1
MULU #24, D1
ADD.L D1, D0
CMP.L TAMPMENU, D0
BGT ERRM3
```

par les objets

→ trop petit

```
CMP #8, d6
BGT ERRMEN
```

)



```

MOVE.L TMENU,A4
MOVE.L A4,A5
LEA (A4,DS.L),A6
MOVE DS,D0
SUBQ #1,D0 ← MOVEQ #-1,D2
GAG91: MOVE D2,(A4)+
DBRA D0,GAG91
MOVE #7F8E,(A4)+ magic
MOVE DS,GARBRN
MOVE.L A4,A3
ADD.L D1,A3 début de chaîne
MOVE.L A4,A0
MOVE.L A4,-(SP)
MOVE DS,D4
SUBQ #1,D4
MOVEQ #0,D0
MOVEQ #1C,D1
MOVEQ #10,D3

```

```

GAG93: ADDQ #1,D0
MOVE D0,(A4)+
MOVE.L D2,(A4)+
MOVE D1,(A4)+
CLR.L (A4)+
CLR.L (A4)+
CLR.L (A4)+
MOVE.L D3,(A4)+
DBRA D4,GAG93
MOVE #20,-16(A4) dernier objet
MOVE D2,(A0)+
ADDQ #2,(A0)+
ADDQ #3,(A0)+ MOVE #3B,(A0)+
MOVEM AINTOUT+2, D0/D1/D2
CMP #2,RESOL
BCC GAG95
ADD D1,D1

```

Annotations for GAG93:
 - A box labeled 'i de 0 à d5-1' is next to the ADDQ instruction.
 - A box labeled 'i=0' is next to the MOVE D2 instruction.
 - A box labeled 'x y Δx' is next to the MOVEM instruction.
 - A box labeled 'Δy' is next to the CMP instruction.
 - A box labeled 'Δx' is next to the ADD D1 instruction.
 - A box labeled 'Δy' is next to the ADD D1 instruction.

(voir Besl p 38)
 structure d'objet i

ob_suit i+1	ob_tête -1	
ob_taille -1	ob_type 28	→ texte graphique
ob_drap 0	obEtat 0	
ob_spec 0		
ob_x 0	ob_y 0	
ob_larg 0	ob_haut 10	

objet 0:

-1	1	
\$B	25	→ boîte
0	0	
0	0	
Δx	400	

Annotations for objet 0:
 - 'x 0', 'y \$13', 'Δx \$280', 'Δy \$30' are written to the left.
 - 'z 0', 'y \$13', 'Δx \$280', 'Δy \$30' are written above the table.
 - 'mm' is written above the first two rows.

```

GAG95: SUBQ #3, (a0)+
      ADD #12, A0
      MOVE d2, (a0)+
      MOVE $100, (a0)+

```

Δx

$i=1$

\$B	2
2	20
	\$1100
Δx	\$12

→ boîte graphique

```

      MOVE # $B, (a0)+
      ADDQ #3, (a0)+
      ADDQ #3, (a0)+
      SUBQ #8, (a0)+
      ADDQ #6, A0
      MOVE # $1100, (a0)+
      ADDQ #4, A0
      MOVE D2, (A0)+
      ADDQ #2, (a0)+

```

Δx

```

      MOVE D4, (A0)+

```

$i=B$

0	\$C
	25
x	y
Δx	300

→ boîte

```

LEA 9*24(a0), A2
MOVEQ # $C, d4
MOVE.L d4, (a2)+
MOVE.L A2, -(SP)
SUBQ.L #3, (a2)+
ADDQ #8, a2
MOVE d0, (a2)+
MOVE d1, (a2)+
MOVE d2, (a2)+
MOVE # $12C, (a2)+

```

α

x
 y
 Δx

$i=2$

1	3
2+d6	25
\$10	
β xi	\$13

→ boîte

```

SUBQ #2, (a0)+
ADDQ #4, (a0)+
ADDQ #3, (a0)
ADD D6, (a0)+
SUBQ #3, (a0)+
ADDQ #8, A0
MOVE D8, (a0)+
ADDQ #2, A0
MOVE.L A0, -(SP)

```

β

```

ADDQ.L #3, (A0)+
      ADDQ #2, A0
      MOVE QMENHX, (A0)+

```

⊗

```

MOVEQ #0, d6          n° de la cuisine M$
MOVE.L 12(SP), A4      M$
MOVEQ #0, d4          x

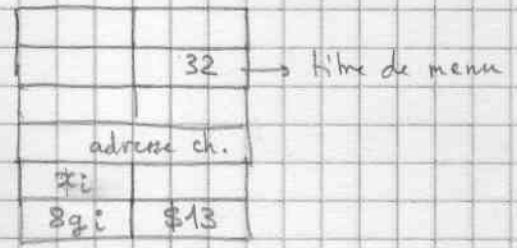
```

boucle sur les menus à m

```

GAG97: MOVEQ #32, d0
MOVE (A0)+, d1
BSR XMTAM
ADDQ #4, A0
MOVE D0, (A0)+
ADDQ #4, A0
MOVE.L A3, (A0)
MOVE.B D0, (A3)+
MOVEQ #8, d1

```



```

GAG98: MOVE.B (A4)+, (A3)+
DBEQ d1, gag98
MOVE.B D0, -1(A3)
MOVE.L A3, d1
SUB.L (A0)+, d1
CLR.B (A3)+
SUBQ #1, A4

```

```

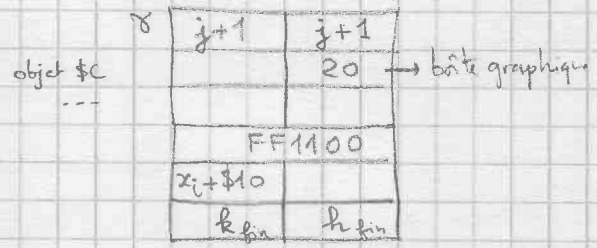
GAH10: TST.B (A4)+
BNE GAH10
MOVE D4, (A0)+      xi
MOVE D4, D3
ASL #3, D1
MOVE.L D1, (A0)+   } 8xi
ADD D1, D4
ADDQ #3, (A0)+ } x
MOVE GMENHX, (A0)+

```

```

MOVE.L A2, -(SP)
MOVE (A2)+, (A2)+
SUBQ.L #8, (A2)+
ADDQ #4, A2
MOVE.L #FF1100, (A2)+
ADD #10, D3
MOVE D3, (A2)+
ADDQ #6, A2
MOVEQ #0, D2
MOVEQ #0, D3

```



```

GAH12: TST.B (A4)+
BEQ GAH20
ADDQ #8, A2
CMP.B #"-", (A4)
BNE GAH14
ADDQ #8, (A2)

```

```

TST.B (A4)
BEQ ERRMEN

```

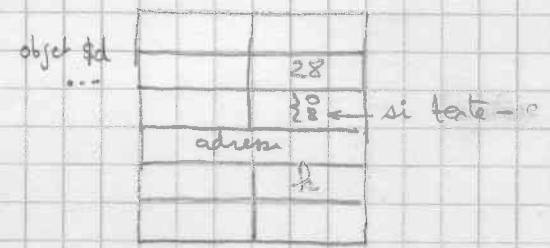
boucle sur les choix "menu"

```

MOVE (A2)+, d1
BSR XMTAM

```

pour les choix d'un menu



```

GAH14: ADDQ #2, A2
MOVE.L A3, (A2)
GAH16: MOVE.B (A4)+, (A3)+
BNE GAH16
MOVE.L A3, D0
SUBQ.L #1, D0
SUB.L (A2)+, D0
CMP.L D0, D2
BCC GAH18
MOVE.L D0, D2
GAH18: MOVE.L D3, (A2)+
ADD #10, D3
ADDQ #4, A2
BRA GAH12

```

d6 : n° de la chaîne

d1 : n° d'index + 1

met la table A5/A6 et avance d6

XMITAM: SUBQ #1, d1

MOVE.B d1, (A5, d6)

MOVE.B d6, (A6, d1.W)

ADDQ #1, d6

RTS

```

GAH20: ASL #3, D2          k
        ADDQ #1, D6
        MOVE.L (SP), A1    r
        MOVE -24(A2), D0    10
        MOVE D0, (A1)+
        MOVE (A1)+, D1      D
        SUBQ #1, D0         F
        MOVE D0, (A1)+
        ADD #1, A1
        MOVE D2, (A1)+     k
        MOVE D3, (A1)+     h

```

```

GAH22: CML.L A2, A1
        BGE GAH24
        ADD #20, A1
        MOVE D2, (A1)+     r
        ADDQ #2, A1
        BRA GAH22

```

```

GAH24: SUBQ #1, D1        C
        MOVE D1, -24(A2)
        MOVE.L (SP)+, A1  r
        TST.B (A4)
        BNE GAG97
        MOVE #18, (A1)    ⊗
        MOVE.L (SP)+, A1
        MOVE D4, (A1)     x: } β
        CMP -24(A1), D4
        BGE ERRMEN       → "menu"
        MOVE.L (SP)+, A1  α
        MOVE D1, (A1)
        MOVE #2, -24(A0)  ⊗

```

```

MOVEM.L (SP)+, A0/A1/A5/A6
MOVE.L A0, GARBRE
MOVE.L A0, D2
CMP #2, RESOL
BCC GAH27

```

cabre

rectifie hauteurs
si base ou moyenne résolue

```

GAH26: ADD #18, A0
      → MOVE (A0), D0
      ASR #1, D0
      MOVE D0, (A0)+
      ADDQ #2, A0
      MOVE (A0), D0
      ASR #1, D0
      MOVE D0, (A0)+
      CMP.L A2, A0
      BLT GAH26

```

```

GAH27: MOVEQ #1, D1
      BRA GAG82

```

repeté