① met {A0} + {A1} en libre

repète XMUL2

XABDS2 : BTST #5,(A0)

× BEQ KB40 → [A0] + {A1}.

BTST #5,(A1)

× BEQ KB41 → [A1] + {A0}

LONG1 A0,D0 BSR SIMMO ↓ {A0} + {A1}

LONG1 A1,D1

MOVE.L A0,A2

ADD D0,A0

MOVE.L A1,A3

ADD D1,A1

MOVEM.L A0-A3/A6,-(SP)

BSR SIMF

MOVE.L (SP)+, A0

MOVE.L A2,A1

MOVE.L A2,-(SP)

BSR XDIV1 → $\frac{b}{\alpha} = b'$

MOVE.L (SP)+, A1 (α)

MOVE.L (SP), A0 (d)

MOVE.L A2,-(SP)

BSR XDIV1 → $\frac{d}{\alpha} = d'$

MOVEM.L (SP)+, A0/A1 (b' / d)

MOVEM.L A0/A2,-(SP)

BSR XMUL1 → $b'd = \alpha b'd'$

MOVE.L (SP)+, A0 (b')

MOVE.L 8(SP), A1 (c)

MOVE.L A2, 8(SP)

BSR XMULS1 → cb'

MOVEM.L (SP)+, A0/A1 (α)

MOVE.L A2,-(SP)

BSR XMULS1 → $d'a$

MOVE.L A2,A0

MOVE.L (SP)+, A1

BRA KB42

$\frac{a}{b} + \frac{c}{d}$

$\frac{A2}{A0} + \frac{A3}{A1}$

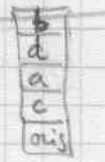
$b \wedge d = \alpha$

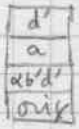
$b = b'\alpha$

$d = d'\alpha$

$\frac{ad' + cb'}{\underbrace{\alpha b'd'}_{b}}$

A0 = b'
A1 = d'

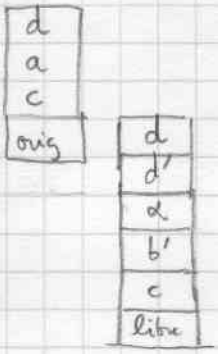




(1)

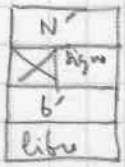
$$\frac{a}{b} + \frac{c}{d} = \frac{a}{b'\alpha} + \frac{c}{d'\alpha}$$

```
MOVEM.L  A1-A3/A6,-(SP)
BSR      SIMF          <- A0=b', A1=d', A2=α
MOVE.L   A0,A3
MOVEM.L  (SP)+,D0/A0
                        d  a
MOVEM.L  D0/A1/A2/A3,-(SP)
         d  d' α  b'
BSR      XMULS1        ad'
MOVEM.L  12(SP),A0/A1
                       b' c
MOVE.L   A2,-(SP)      ad'
BSR      XMULS1        cb'
MOVE.L   (SP)+,A0      ad'
MOVE.L   A2,A1
BSR      XADDS1        N=ad'+cb'
```




```
MOVEM.L  (SP)+,D0/D1/A1/A3
                d  d'  α  b'
ADDQ     #4,SP
CMP      #$4000,D2     <- MOVE (A2),D2  signe
BEQ      KL860         -> met {A2}=0 (ou KB43)
MOVE.L   A2,A0
                       N
MOVEM.L  D0/D1/D2/A3,-(SP)
         d  d' signe b'
BSR      SIMF          A0=N', A1=α', A2=β
MOVE     (A2),D0       ⊗
~~CMP #$4001,(A2)~~
MOVEM.L  (SP)+,A2/A3
                       d  d'
x MOVE.L A0,-(SP)      <- CMP #$4001,D0 ⊗
  BEQ    KB39
  MOVE.L A3,A0         d'
  BSR    XMUL1         α'd'
KB39: MOVE.L A2,A0     d ou α'd'
  MOVE.L 8(SP),A1      b'
  BSR    XMUL1         D=b'd'α'
  MOVE.L (SP)+,A0      N'
  MOVE.L A2,A1
  MOVE.L (SP)+,D2      <- signe  ADDQ #4,SP
  BRA    KB42          pour N'/D et met le signe
```

si $\beta \neq 1$ met A2 = d'α' au lieu de d



$$\frac{N}{\underbrace{b'd'\alpha}_{d}} = \frac{N'\beta}{b'd'\alpha'\beta}$$

```
KB40:BTST  #5,(A1)
     BEQ   XADDS1          -> [A0]+[A1]
     EXG   A0,A1
KB41:LONG1  A0,D0    BSR SCRN10     [A1]+{A0}
     MOVE.L  A0,A2                  [A2]/[A0] + [A1]
     ADD     D0,A0
     MOVEM.L  A0/A6,-(SP)  ⊗  a / b / ...
     MOVE.L   A2,-(SP)
     BSR   XMULS1        cb
     MOVE.L  (SP)+,A0     a   ⊗
     MOVE.L   A2,A1       cb
~~KB42~~: BSR   XADDS1     a+cb
     MOVE.L  A2,A0
     MOVE.L  (SP)+, A1/~~A6~~     b
     ~~BRA   XPOSEFR~~
          ~~KB356~~
     MOVE  (A0),D6        signe
KB42:BSR    XPOSEFR
     BTST  #15,D6
     BEQ   KB43
     CHGS
KB43:MOVE.L  ~~(SP)+~~,A0          KB43: BRA  KL860   ⊗
     BRA   ~~XEFFC~~
```

$\frac{a}{b} + c \qquad \frac{a+cb}{b}$