

① proc $\{A0\} * \{A1\}$ em libe = $A2^5$

XMUL2:BTST #5,(A0)

x BEQ KB34 $\rightarrow [A0] * \{A1\}?$

x BTST #5,(A1) $\downarrow \{A0\}$

BEQ KB35 $\rightarrow [A1] * \{A0\}$

LONG1 A0,D0 BSR SLNHO $\downarrow \{A1\} * \{A0\}$

LONG1 A1,D1 BSR SLNH1

MOVE.L A0,A2
ADD D0,A2

MOVE.L A1,A3
ADD D1,A3

$$\frac{[A0]}{[A2]} \times \frac{[A1]}{[A3]} \quad \frac{a}{b} \times \frac{c}{d} \quad \frac{17}{2} \times \frac{101}{3}$$

MOVEM.L A1/A2/A6, -(SP)
MOVE.L A3,A1

BSR SIMF

MOVEM.L (SP)+, A3/A4

MOVEM.L A0/A1, -(SP)

MOVE.L A3,A0
MOVE.L A4,A1

a
d
x

$$\frac{a}{A1} \cdot \frac{A0}{d}$$

BSR SIMF

MOVE.L (SP)+, A2

MOVE.L A1, -(SP)

MOVE.L A2, A1

$$\begin{cases} A1 = a \\ A0 = c \end{cases}$$

b
d
x

BSR XMUL1

MOVEM.L (SP)+, A0/A1 $\begin{cases} A0 = b \\ A1 = d \end{cases}$

MOVE.L A2, -(SP)

BSR XMUL1

MOVEM.L (SP)+, A0/A6 \otimes

MOVE.L A2, A1

BSR BRA KB38Z

ac
x

\rightarrow posi en A6 ($=A2^5$) $\begin{cases} A2^5 \\ [A0] \\ [A1] \end{cases}$

XPOSEFR: MOVE.L A6, A2

LONG1 A0,D0 BSR SLNHO

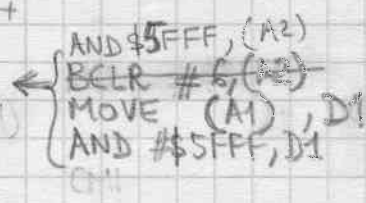
ASR #1,D0

SUBQ #1,D0

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KB31: MOVE (A0)+, (A6)+
      DBRA D0, KB31
      CMP #4001, D1
      BEQ KB33
      BSET #5, (A2)

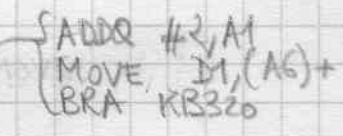
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      LONG1 A1, D0 BSR SLNH10
      ASR #1, D0
      SUBQ #1, D0
KB32: MOVE (A1)+, (A6)+
KB320: DBRA D0, KB32
KB33: RTS

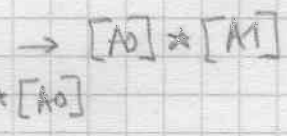
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KB34: BTST #5, (A1)
      BEQ XMUL1
      EXG A0, A1

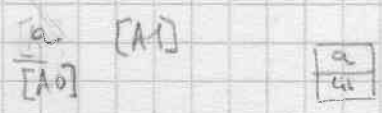
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KB35: LONG1 A0, D0 BSR SLNH0
      MOVE.L A0/A6, -(SP)
      ADD D0, A0
      BSR SIMF
      MOVE.L (SP)+, A2
      MOVE.L A0, -(SP)
      MOVE.L A2, A0
      BSR XMUL1

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      MOVE.L (SP)+, A1
      MOVE.L A2, A0
KB352: BSR XPOSEFR
      MOVE.L (SP)+, A0
      BRA XEFC

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