Pose en litre $\langle A2\rangle = \log 1(x) = \log(x+1)$

$\langle A0\rangle$

```
XFFLOG1:MOVE.L  A6,-(SP)
        BSR     XFFHYP      ①160    compare |x| et 1/16
        BMI     GAR24               |x| < 1/16
        MOVE.L  A0,-(SP)            |x| > 1/16
        BSR     XPOSF1              1∼
        MOVE.L  A2,A1
        MOVE.L  (SP)+,A0
        BSR     XFLADD              1+x
        MOVE.L  A2,A0
        BSR     XFFLOG
        BRA     KL860               met en litre

GAR24:  BSR     XUNFL
        MOVE.L  A2,A0
        LEA     TCONST1,A1
        BSR     XADDS2              1+x ] exact
        BRA     GAR26       ①138    comme log
```

(1) pose en libre $\langle A2\rangle = \ln(\langle A0\rangle)$

```
XFFLOG: MOVE   2(A0),D0
        BMI    ERRRG
        CMP    #$4000,D0
        BEQ    ERRRG
        MOVE.L A6,-(SP)
        MOVE   TPREC,D0
        CMP    TPRECL,D0
        BLE    KM360
        cas log2 non calculé
        BSR    XUNFL        → P/9
GAR26 : MOVE.L A2,A0        ⊗
        BSR    XALOG
        BRA    KM29
KM360:  MOVE   (A0)+,A2     k=A2     x = A/2^k
        BSR    XBNB         λ=D1.L = nb de bits de A     2^λ ≤ A < 2^(λ+1)
        MOVE.L D1,D2
        SUB.L  A2,D2
        MOVE.L D2,-(SP)     λ-k      x = A/2^λ · 2^(λ-k)
        MOVE   D1,(A6)+
        BSR    XPOSE
        LEA    -2(A2),A0            <A0> = A/2^λ ∈ [1,2[
        MOVE   TPREC,D0
        CMP    #43,D0
X       BLE    KM362        → calcul par polynome
        BSR    XUNFL        → P/9
        MOVE.L A2,A0
        BSR    XALOG        → log(A/2^λ)
        MOVE.L A2,A0
        BSR    XFLO         → flottant
```

⊗ KM361: MOVE.L (SP)+, D0 $s-k$

MOVE.L A2, -(SP) $\log\left(\frac{A}{2^s}\right)$

BSR LA88 $\{A2\} = s-k$ signé

⊗ { MOVE.L A2, A0
BSR XINTE1 en flottant

MOVE.L A2, A1 $s-k$

MOVE #4, D0 }
BSR LB95C }
ADDQ #2, A0 } $\langle A0 \rangle = \log 2$

BSR XFLMUL $(s-k)\log 2$

MOVE.L A2, A0

MOVE.L (SP)+, A1 $\log\left(\frac{A}{2^s}\right)$

BSR XFLADD

BRA KL860

KM362: LEA TCONSFL1, A1 $= 1^{re}$ précision 52

BSR XFLSUB $x-1$

MOVE.L A2, A0

LEA DFLOG, A1 ← polynome pour $\frac{\log(x-1)}{x-1}$

BSR FTPOL1 calcule $\log(x-1)$

BRA KM361