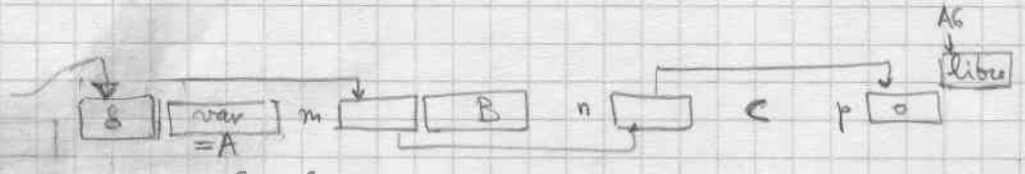
(2) Calcul de la série $a_0 + a_1 X + \dots + a_k X^k$ à l'ordre k au v

$X \sim v^\alpha \quad \alpha \geq 1$

$\frac{a_{k+1}}{a_k} = (A+k)^m (B+k)^n (C+k)^p \dots$

D0 = v
D1 = k
X = P_{A_0}
A1 pointe



résultat mis en $A1^e = A2^s = A1^s$ (sauf forme factorisée)
$= var_{A_2}$

SSER : MOVEM.L D0/D1/A0/A1 ,-(SP)
BSR XPSF1 S^F
MOVE.L A2/A6,-(SP)
BSR XPSP1 $X^{k-1} = 1$ (poly)
BSR XPSF1 $a_{k-1} = 1$

KH1 MOVE.L A2,-(SP)

KH48 : MOVE.L 8(SP), $A0^{X^{k-1}}$ calcule X^k
MOVE.L 20(SP), A1 X

BSR XMULP
MOVEM.L 12(SP), D0/D1
v k

MOVE.L A2,A0
BSR XTKP1 trunque X^k
TST.L (A2)
X BEQ KH58 → fin $(X^k = 0)$
MOVE.L A2,-(SP) (X^k)

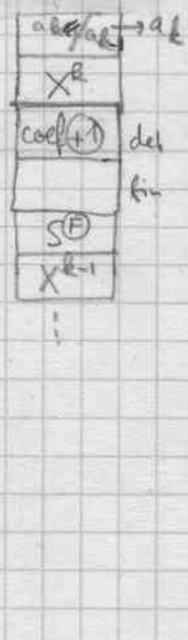
calcule $\psi = \frac{a_{k+1}}{a_k}$

BSR XPSF1 $\psi = 1$
MOVE.L 28(SP), A0 coef
MOVE.L A2,-(SP)

```
KH50: MOVE.L   (A0)+,D0        ← BEQ KH52 → fin        boucle sur les A,B,...
      MOVE.L   A0,A2
      ADD.L    D0,A2           ←
      MOVE.L   A2,-(SP)
      MOVE     -(A2),-(SP)         exp
      BSR      XPSF                recopie A
      MOVE.L   A2,A0
      MOVE     (SP)+,D1
      BSR      XEXPF                  A^m
      MOVE.L   A2,A1
      MOVE.L   4(SP),A0   Ψ
      BSR      XCONCP
      BSR      XLB76
      MOVE.L   (SP)+,A0
      BRA      KH50
                                 ak/ak-1   X^k
KH52: MOVEM.L  (SP)+,A0/A1/A2
                                     ak-1
      CMP.L    #$14000,(A0)
      BEQ      KH59                      → fin
x     :
      MOVEM.L  A0/A1/A6/A7,-(SP)
      MOVE.L   A2,A0   ak-1
      BSR      XPSF              { MOVE.L (SP),A0
      MOVE.L   A2,A1  ←          { BSR    XMULF   ak
      MOVE.L   36(SP),A0   coef
      MOVE.L   A6,8(SP)    nt coef+1
KH54: CLR.L    (A6)+
      MOVE.L   (A0)+,D0
      BEQ      KH56                      → fin
      MOVE.L   A0,A2
      ADD.L    D0,A2
      MOVE.L   A2,-(SP)
      BSR      XPSF            A   recopié
      MOVE.L   A2,A0
      BSR      XPSF1               pour 1
      MOVE.L   A2,A1
```

calcule nouveau coef

ak	coef(+1)

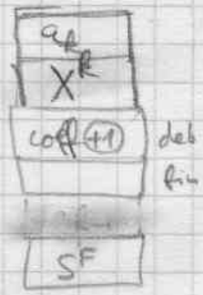


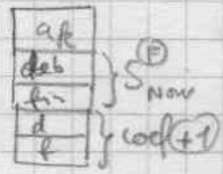
(2)

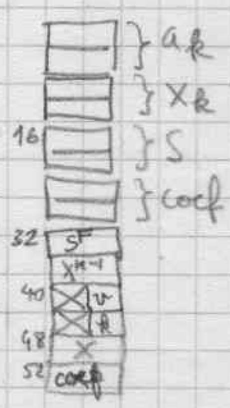

```
        BSR      XADDF              remplacé par A+1
        MOVE.L   A6,D0
        SUB.L    A0,D0
        ADDQ.L   #2,D0
        MOVE.L   D0,-(A0)
        MOVE.L   (SP)+,A0
        MOVE     -2(A0),(A6)+
        BRA      KH54

KH56:   MOVE.L   A6,12(SP)          fin de coef(+1)

                                    calcule a_k X^k
        MOVE.L   4(SP),A0           X^k
        BSR      XPSAF1             X^k factorisé
        MOVE.L   (SP),A0            a_k
        MOVE.L   A2,A1
        BSR      XPSF               recopie a_k
        MOVE.L   A2,A0
        EXG      A0,A1
        BSR      XMULF              a_k X^k en A0
        MOVE.L   A0,A1
        MOVE.L   16(SP),A0          S^(F)
        BSR      XPSF               recopie S^F
        MOVE.L   A2,A0
        EXG      A0,A1
        BSR      XADDF              [ S^(F) + a_k X^k ]
        MOVEM.L  (SP)+,D0/A0        <- MOVE.L A0,A2 (*)
                       a_k X^k
        MOVEM.L  D0/A2/A6,-(SP)     (*)
        BSR      XPSAP              recopie X^k
        MOVE.L   (SP)+,A0           a_k
        MOVEM.L  A2/A6,-(SP)
        BSR      XPSF               recopie a_k
        MOVEM.L  A2/A6,-(SP)
```







(2)

```
MOVE.L 52(SP), A0      ancien coef ⊗
MOVEM.L 24(SP), A2/A6
BSR XLB76
MOVE.L A0, 32(SP)      nouveau S
MOVEM.L 16(SP), A2/A6
BSR XLB76
MOVE.L A0, 36(SP)      nouveau X^k
MOVEM.L 8(SP), A2/A6
BSR XLB76
MOVEM.L (SP)+, A2/A6
ADD #24, SP
MOVE.L A0, -(SP)       nouveau a_k
BSR XLB76
BRA KH48
KH58: ADDQ #4, SP
KH59: MOVEM.L (SP)+, A2/A6      (S^F  X^k)
MOVEM.L (SP)+, D0-D2/A0
MOVE.L A0, A1
BSR XLB76
MOVE.L A1, A2
RTS
```