(2) var$_{A0}$ = $F_1 = \lambda x_1^{\alpha_1} \dots x_m^{\alpha_m}$ } sous forme factorisée, chacun prod irred

var$_{A1}$ $F_2 = \mu x_1^{\beta_1} \dots x_n^{\beta_n}$ }

Réduction mutuelle

Remplacé par :

$F'_1 = \lambda f_1^{\alpha'_1} \dots f_p^{\alpha'_p}$ avec $F'_i = F_i$ plus factorisés

$F'_2 = \mu f_1^{\beta'_1} \dots f_p^{\alpha'_p}$ tels que : $f_1 \dots f_p$ premiers entre-eux

XREDP :

XREDFF: CMP #1,(A0)

x BEQ KJ66 → rtr

CMP #1,(A1)

BEQ KJ66 → rtr

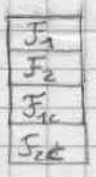
MOVE.L #$14001,D0 remplacé par page 159a

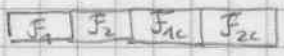
MOVE.L A6,A2

MOVE.L D0,(A6)+

MOVEM.L A0/A1/A2/A6,-(SP)

MOVE.L D0,(A6)+





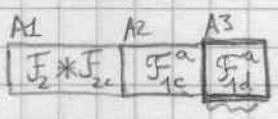
a KJ63: MOVE.L 4(SP),A0 F_2

MOVE.L 12(SP),A1 F_{2c}

BSR XCONCP

MOVE.L (SP),A0 F_1

MOVE.L A2,A1 $F_2 * F_{2c}$



BSR XCOM1

MOVE.L A3,-(SP) nouveau F_1

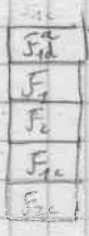
MOVE.L A2,A0 F_{1c}^a

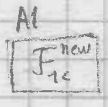
MOVE.L 12(SP),A1 F_{1c}

BSR XCONCP } nouveau F_{1c}

MOVE.L A2,A1 }

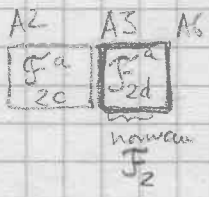
MOVE.L 8(SP),A0 F_2





BSR XCOM1

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

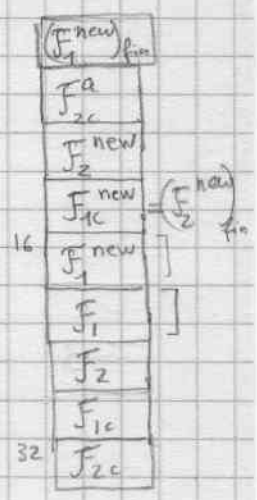


② Insertion p159 :

```
 BSR      XESIF                      A2 A6 [F1c]
 MOVEM.L  A0/A1/A2/A6,-(SP)
 EXG      A0,A1
 BSR      XESIF                      [F2c]

 MOVE.L   8(SP),A1        F1c
 MOVEQ    #1,D0
 CMP      (A1),D0
 BNE      KJ62
 CMP      (A2),D0         F2c = 1   ?
 BEQ      KJ63

KJ62:MOVE.L (SP),A0       F1         A2 [F1/F1c] [F2/F2c]
 BSR      XCONCI                     F1new
 MOVEM.L  A2/A6,-(SP)                [F1c | F2c | F1new | F2new]
 MOVE.L   12(SP),A0       F2
 MOVE.L   20(SP),A1       F2c
 BSR      XCONCI          F2new = F2/F2c
 MOVE.L   16(SP),A0       F1c
 BSR      XPSF            Copie F1c  [F1c]
 MOVE.L   20(SP),A0       F2c
 MOVEM.L  A2/A6,-(SP)
 BSR      XPSF            Copie F2c  [F2c] A3
 MOVE.L   A6,A3
 MOVE.L   16(SP),A0       F1
 MOVEM.L  8(SP),A2/A6
                 F1new
 BSR      XLB76           copie F1new
 MOVE.L   A0,20(SP)
 MOVE.L   (SP)+,A6
 BSR      XLB76           Copie F2new
 MOVE.L   A0,20(SP)
 MOVE.L   (SP)+,A6
 BSR      XLB76           Copie F1c
 MOVE.L   A0,20(SP)
 MOVE.L   A3,A6
 BSR      XLB76           Copie F2c
 ADDQ     #8,SP
    ↓
 [KJ63] (p 159)
```

```
MOVE.L  A1,A0      F_1c^new
BSR     XPSF       copie
MOVE.L  4(SP),A0   F_2c^a
MOVE.L  32(SP),A1  F_2c
BSR     XCONCP     nouveau F_2c
MOVEM.L A2/A6,-(SP)
MOVE.L  8(SP),A6   (F_1^new)_fin
MOVE.L  28(SP),A0  F_1 vx
MOVE.L  24(SP),A2  (F_1^new)_debut
BSR     XLB76      copie F_1^new
MOVE.L  A0,32(SP)
MOVEM.L 16(SP),A2/A6   F_2^new  F_1c^new
BSR     XLB76      copie F_2^new
MOVE.L  A0,36(SP)
MOVE.L  (SP)+,A6
BSR     XLB76      copie F_1c^new
MOVE.L  A0,36(SP)
MOVE.L  (SP)+,A6
BSR     XLB76      copie F_2c^new
ADD     #20,SP
```

MOVEM.L 24(SP),A0/A2
EXG A0,A2



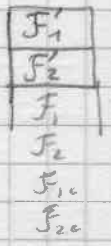
b KJ64 : MOVEM.L (SP), A0/A1
F_1 F_2

CMP #1, (A0)
BNE KJ67

c KJ65 : MOVE.L 8(SP), A1
BSR XCONCP
MOVEM.L A2/A6, -(SP)
MOVE.L 12(SP), A0
MOVE.L 20(SP), A1
BSR XCONCP
MOVE.L A6, A3
MOVEM.L (SP)+, A2/A6
MOVE.L (SP), A0
BSR XLB76
MOVE.L A0, A1
MOVE.L A3, A6
BSR XLB76
MOVEM.L (SP)+, A0/A2/A3/A4
bidon

$F_1 * F_{1c}$

F_2'



Copie F_1'

Copie F_2'

d KJ66 : RTS

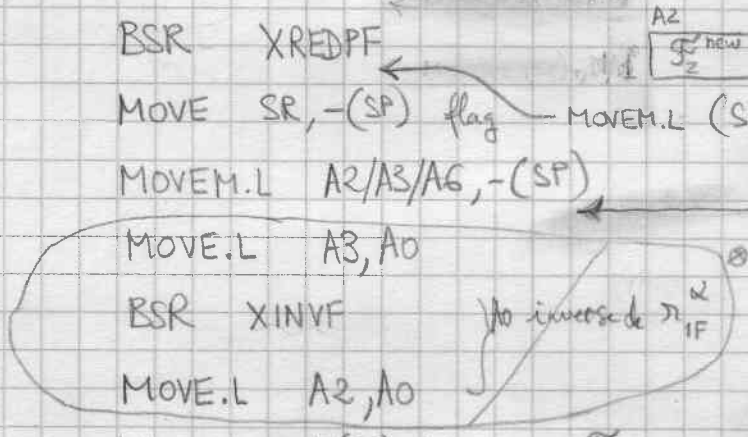
d KJ67 : CMP #1, (A1)
BEQ KJ65

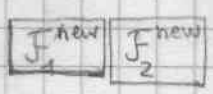
```
ADDQ #2,A0
ADDQ #2,A1
BSR SLNGO
ADD D0,A0
BSR SLNG1
ADD D1,A1
CMP.L (A0)+,(A1)+
BCS KJ69          → ln(x1) > ln(x2)

MOVE.L A0,A1      P_A1 = r_1
MOVE.L A0,A2
ADD.L -(A0),A2
MOVE -(A2),D0     D0 = α
MOVE.L 4(SP),A0   var_A0 = F̃_2
BSR XREDPF
MOVE SR,-(SP)
MOVEM.L A2/A3/A6,-(SP)
MOVE.L A3,A0
BSR XINVF         A0 inverse de π_1F^α
MOVE.L A2,A0
MOVE.L 14(SP),A1  F̃_1
BSR XCONCP        F̃_1^new = F̃_1 / π_1VX^α
MOVE.L (SP)+,A0   F̃_2^new
MOVEM.L A2/A6,-(SP)
BSR XPSF          recopie F̃_2^new
MOVE.L 8(SP),A0   r_1F^α
MOVE.L 26(SP),A1  F_1c
BSR XCONCP
MOVEM.L A2/A6,-(SP)
MOVE.L 38(SP),A0  F̃_2c
BSR XPSF          recopie F̃_2c
```

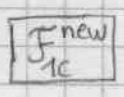
× BCS KJ69 → $\ln(x_1) > \ln(x_2)$

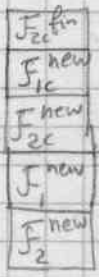
⊗ MOVEM.L A0/A2,-(SP)] ⊗ ← MOVEM.L (SP)+,A0/A1] ⊗

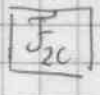
⊗ { BSR KJ690] ⊗ / MOVE.L 8(SP),A0 $r_{1VX}^{-\alpha}$











(2)

c KJ68: MOVE.L A6, -(SP)
MOVE.L 30(SP), A0 F_1
MOVEM.L 12(SP), A2/A6
F_1^{new} F_2^{new}

BSR XLB76 copie F_1^{new}
MOVE.L A0, 34(SP)
MOVE.L 4(SP), A6 F_{1c}^{new}
BSR XLB76 copie F_2^{new}
MOVE.L A0, 38(SP)
MOVE.L 8(SP), A6 F_{2c}^{new}
BSR XLB76 copie F_{1c}^{new}
MOVE.L A0, 42(SP)
MOVE.L (SP)+, A6 F_{2c}^{fin}
BSR XLB76 copie F_{2c}^{new}
ADD #24, SP
MOVE (SP)+, SR
BEQ KJ64 inchangé → b
BRA KJ63 changé

(repète)

```
f KJ69 : MOVE.L  A1,A0          ρ_A1 = s_1          len(π_1) < len(s_1)
         MOVE.L  A0,A2                               [A0: β ... A2: α]
         ADD.L   -(A0),A2
         MOVE    -(A2),D0       D0 = β_1
         MOVE.L  (SP),A0   (struck out)   var_A0 = F_1     { MOVEM.L  A0/A2,-(SP)  ⊗
                                                          { MOVE.L   8(SP),A0
         BSR     XREDPF                       A2: F_1^new   A3: s_1^β   A6: s_1vx^-β
         MOVE    SR,-(SP)  flag     <-- { MOVEM.L (SP)+,A0/A1 ⊗
         MOVEM.L A2/A3/A6,-(SP)                             [stack: F_1^new, s_1^β, s_1^-β, SR; 14]
         MOVE.L  A3,A0     (circled, struck out)  ⊗    <-- ⊗ { BSR KJ690
         BSR     XINVF     (circled, struck out)   } var_A0 = s_1^-β
         MOVE.L  (SP)+,A0       F_1^new
         BSR     XPSF           copie
         MOVEM.L A2/A6,-(SP)                         [F_1^new] [F_2^new]
         MOVE.L  12(SP),A0      s_1^-β
         MOVE.L  22(SP),A1      F_2
         BSR     XCONCP         var A2 = F_2^new
         MOVE.L  26(SP),A0      F_1c
         BSR     XPSF           copie F_1c          [F_1c]
         MOVEM.L A2/A6,-(SP)
         MOVE.L  16(SP),A0      s_1^β
         MOVE.L  38(SP),A1      F_2c
         BSR     XCONCP         F_2c^new
         BRA     KJ68

(sp) KJ690 : MOVE.L  #$24001,(A6)+   }
             MOVE.L  A0,A2           }
             MOVE.L  A1,A3           }
             BSR     KJ48            }  ⊗
             MOVE    (A3),D0         }
             NEG     D0              }
             MOVE    D0,(A6)+        }
             RTS
```

[stack: F_1^new, F_2^new, s_1^β, s_1^-β, 16 SR, 18, 22, F_2c]