

2) ^{en libe} Pose var A2 = ^{expr factorisée} substitution de var A1 à la variable $v = D0$ dans P_{A0} 21
 ↳ forme factorisée ← conserve A0/A1/D0

```

  ← { KD88:BSR XPSAF1 ⊗
      MOVE.L A2,A0
      RTS
  
```

XSBSP: BSR XDEG $n = DS = \text{degré de } v = D0 \text{ de } P_{A0}$

```

  TST DS
  BEQ.S XPSAF KD88 → substitution ne change rien
  MOVEM.L D0/DS/A0/AS/A6,-(SP)
  
```

$$\text{var } A1 = \frac{N}{D}$$

$$\left(\sum_{i=p}^n \text{coef}(P_{A0}, v^i) N^{i+p-n-i} D^{n-i} \right) \frac{N^p}{D^n}$$

```

  BSR XVAL
  MOVE DS, (SP) N
  
```

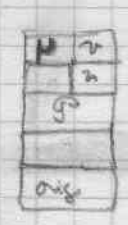
$$\left[\left[\text{coef}(P, v^n) * N + \text{coef}(P, v^{n-1}) * D \right] * N + \text{coef}(P, v^{n-1}) * D^2 \right] * N + \dots$$



$Q = 1$
 $S = \text{coef}(P, v^n)$
 pour $i = n-1$ à p :
 $Q = Q * D$
 $S = S * N + \text{coef}(P, v^i) * Q$

```

  MOVE.L A1, -(SP)
  MOVE.L A1, A0
  BSR XPSF recopie expr
  MOVE.L A2, A0
  BSR XNUMF1 ← { BSR XFDEV ⊗
                  LEA 2(A0), A1
  MOVE.L (SP)+, A0 ← expr
  BSR = XPSF ← recopie expr
  MOVE.L A2, A0
  BSR ADDQ #2, A0 ← XDEFN1 ⊗
  MOVE.L A0, -(SP) ← A0 = D
  BSR XFDEV ⊗
  
```

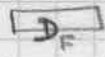


(2)

```

BSR XPSAF1 factrice D ⊗
MOVE.L A2, A0
MOVE 14(SP), D1 n

```



```
NEG D1
```

```
MOVE.L A0, 20(SP) sera N^p/D^n
```

```
BSR XEXPF
```



```
MOVE.L 20(SP), A0
```

```
BSR XLB76
```

```
MOVE 8(SP), D1 μ
```

```
BEQ.S KD89
```

→ μ = 0

x

```
MOVEM.L (SP), Do/A0
           bitm N
```

```
BSR XPSAF1 N_F ⊗
```

```
MOVE.L A2, A0
```

```
MOVE 8(SP), D1
```

```
MOVE.L A0, -(SP)
```

```
BSR XEXPF N_F^p
```

```
MOVE.L (SP)+, A0 ⊗
```

```
MOVE.L A0, A1
```



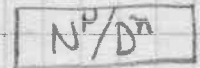
```
BSR XLB76
```

← MOVE.L 20(SP), A0 ⊗



```
BSR XCONCP
```

```
BSR XLB76
```



```
KD89: BSR XPSP1 Q
```

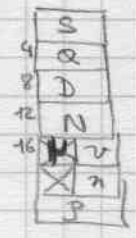
```
MOVE.L A2, -(SP)
```

2

```

MOVEM.L  r2(SP), Do/D1/A0
BSR  XCOEFP
MOVE.L  A2, -(SP)
BRA  KD91

```



```

KD90 : MOVE  D1, 22(SP)
MOVEM.L  (SP), Do/A0/A1
BSR  XMULP

```



```

MOVE.L  (SP), A0
MOVE.L  r2(SP), A1
MOVE.L  A2, -(SP)
BSR  XMULP

```



```

MOVEM.L  r2(SP), Do/D1/A0

```

```

MOVE.L  A2, -(SP)

```



```

BSR  XCOEFP
MOVE.L  A2, A0
MOVE.L  r2(SP), A1
BSR  XMULP

```

```

MOVEM.L  A2/A6, -(SP)
MOVEM.L  8(SP), A0/A2/A3/A6

```

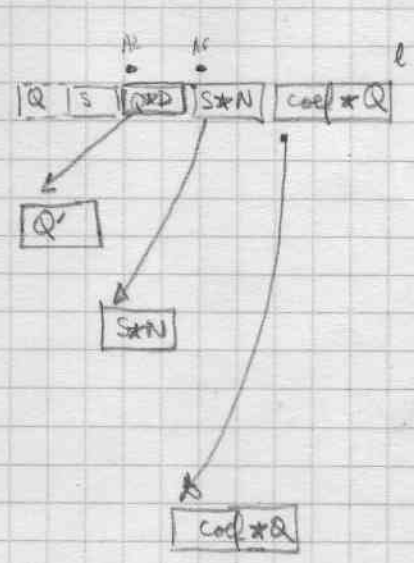
```

EXG  A0, A6
BSR  XLB76
MOVE.L  A0, 16(SP)
MOVE.L  (SP)+, A6
BSR  XLB76
MOVE.L  (SP)+, A6
MOVE.L  A0, A1
BSR  XLB76
ADDQ  #8, SP
MOVE.L  (SP), A0

```

sera le nouveau S maintenant = S * N

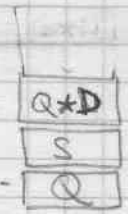
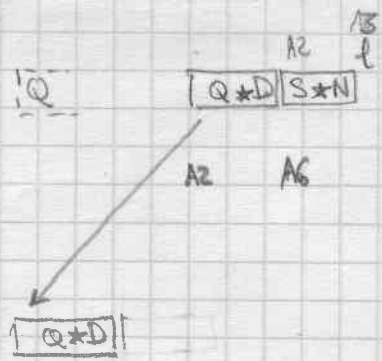
coef * Q déplacé



2

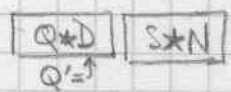
```

MOVE.L A6, A5
MOVE.L A2, A6
MOVEM.L (SP), A0/A1/A2
EXG A0, A2
    
```



```

BSR XLB76
ADDQ #4, SP
MOVE.L A0, (SP)
MOVE.L A6, A2
MOVE.L A3, A6
BSR XLB76
    
```



```

MOVEM.L 16(SP), D0/D1/A0
    
```

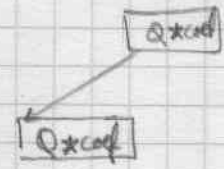
```

BSR XCOEFP
MOVE.L A2, A0
MOVE.L 4(SP), A1
    
```



```

BSR XMULP
MOVE.L A0, A1
BSR XLB76
    
```



```

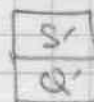
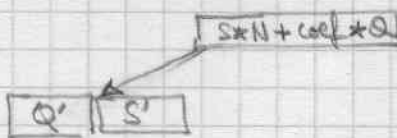
MOVE.L (SP), A0
    
```

2

BSR XADDP

BSR XLB76

S'



MOVE 22(SP), D1 i

~~KD91: DBRA D1, KD90~~

MOVE.L (SP)+, A0 S

BSR XPSAF1 S factuio

MOVE.L (SP)+, A0 Q'

MOVE.L A0, A1

BSR XLB76 S fact

ADD #20, SP

MOVE.L (SP)+, A0 N^u/D^n

BSR XMULF

MOVE.L A0, A2

MOVE.L (SP), A0

BSR ~~XLB76~~

MOVE.L (SP)+, A2

RTS

KD91: MOVE 16(SP), D0 P
 CMP D1, D0
 DBCC D1, KD90

