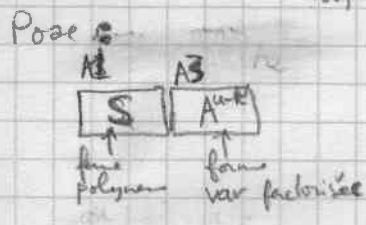


② Entrée  $P_{A_0}$   $v = D_0$   
 $u = \frac{D_3 \cdot N}{\text{signe} < 0}$   $k = D_1$

$$P_{A_0} = [A + Bv^k + \dots + B_k v^k]$$

avec  $A \neq 0, B \neq 0$



forme tronquée de  $[P_{A_0}]^u = A^{u-k'} [A^{k'} + u A^{k'-1} (Bv^k + A_k v^k) + \frac{u(u-1)}{2!} A^{k'-2} (Bv^k + \dots)^2 + \dots + \frac{u}{k!} (Bv^k + \dots)^{k'}]$

$k' = \left\lceil \frac{k}{\alpha} \right\rceil$  si  $u < 0$   
 $k' = \min\left(\left\lceil \frac{k}{\alpha} \right\rceil, u\right)$  si  $u > 0$

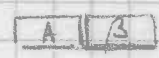
déterminer tout

$\beta$
$k' \quad v$
$0 \quad k$
$u$
$P_{A_0}$
$A$

```

XTKP2: CLR.L D2
        MOVE D1, D2
        EXT.L D3
XTKP3: MOVEM.L D0/D2/D3/A0/A6, -(SP)
        CLR D1
        BSR XCOEFF (A)
        MOVE.L A2, A1
        BSR XSUBP (B)
        MOVE.L (SP), D0
        MOVE.L A2, -(SP)
        MOVE.L A2, A0
        BSR XVAL
    
```

$(B) = Bv^k + \dots + B_k v^k$



valuer à savoir  $v^{\alpha} : DS = \alpha \geq 1$

```

MOVEM.L (SP), D0-D3
    
```

$D_0 = D_1$ , bden  
 $D_2 = k$   
 $D_3 = u$

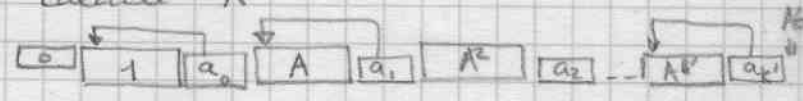
$D_2 = \left\lceil \frac{k}{\alpha} \right\rceil$

```

DIVU D5, D2
TST D3
BMI KH26
CMP D3, D2
BCS KH26
MOVE D3, D2
    
```

$D_0 = u$  si  $u > 0$   
 et  $u < \left\lceil \frac{k}{\alpha} \right\rceil$

calculer  $A^i$   $i = 0 \text{ à } k'$



```

KH26: MOVE D2, 4(SP)
    
```

```

CLR.L (A6)+
BSR XPSM1 page 1
MOVE.L 20(SP), A1 (A)
BRA KH30
    
```

x

KH28: MOVE.L A2, A0

MOVE D2, -(SP)
BSR XMULP

P\_{A0} = A^{u-1}, P\_{A1} = A

MOVE (SP)+, D2

KH30: MOVE.L A2, (A6)+

DBRA D2, KH28

MOVE.L -(A6), A0

BSR XPSPO

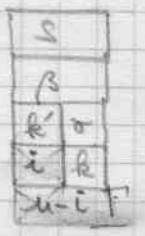
MOVE.L A2, -(SP)

BSR XPSPI



S=0

\beta^0 = 1



KH32: MOVE.L A2, A1

BSR XMULP

MOVE.L A0, D0

MOVE.L (SP)+, A0

MOVEM.L D0/A1, -(SP)

MOVE.L A2, A1

BSR XADDP

MOVEM.L (SP)+, D0/A0

TST.L -(A3)

BEQ KH34

MOVEM.L D0/A2/A6, -(SP)

BSR XMULP

MOVE.L A2, A0

CLR.L (A6)+

MOVE.L 20(SP), D0

BSR LAB8

ADDQ #1, 16(SP)

MOVE 16(SP), D0

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

P\_{A1} = \frac{u(i)}{i!} \beta^i
P\_{A0} = A^{R-i}

print A^{R-i}

\frac{u(i)}{i!} \beta^i

A2: \frac{u(i)}{i!} \beta^i A^{R-i}



x

```

MOVE.L A2,A0
BSR XPOSEDO
MOVE.L A2,A1

```

$$\{A2\} = i+1$$

```

BSR XDIVS2
MOVEM.L (SP), Do/D1/A0
BSR XLB76

```

$$\{A2\} = \frac{u-i}{i+1}$$

```

MOVEM.L (SP)+, A0/A1/A2

```

$$\frac{u-i}{i+1}$$

```

BSR XMULP

```

$$\frac{u^{(i+1)}}{(i+1)!} \beta^{(i+1)}$$

```

MOVEM.L (SP)+, A0/A3/A4

```

$$A^{k_i} S_i A^{k_{i+1}}$$

```

MOVE.L -(A0), A1

```

$$A^{k_{i-1}}$$

```

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

```

```

MOVE.L A3,A2

```

```

MOVE.L A4,A6

```

```

BSR XLB76

```

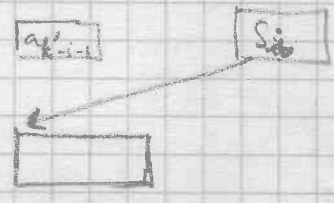
```

MOVEM.L (SP)+, D0/D3/A2/A6

```

$$S_i A^{k_{i-1}}$$

Row $S_i$
$A^{k_{i-1}}$
$\frac{u^{(i+1)}}{(i+1)!} \beta^{(i+1)}$
$f_i$



```

MOVE.L D0, -(SP)

```

```

MOVEM.L D3/A0, -(SP)

```

```

BSR XLB76

```

```

MOVEM.L (SP)+, A0/A2

```

$$A^{k_{i-1}} \frac{u^{(i+1)}}{(i+1)!} \beta^{(i+1)}$$

```

BRA KH32

```

2



KH34: MOVEM.L (SP)+, D0-D7/A0

MOVEM.L D3/A0/A2/A6, -(SP)

BSR XPSAF1 A factorisé

MOVE.L A2, A0

MOVE.L (SP)+, D1 u-r'

BSR XEXPF

MOVE.L A2, A3

MOVE.L A6, A4

MOVEM.L (SP)+, A0/A2/A6

MOVEM.L A0/A3/A4, -(SP)

BSR XLB76

MOVE.L A0, A3 Au-r'

MOVEM.L (SP)+, A1/A2/A6

BRA XLB76

