

② Division exacte $P = QR$

entree $P_{A_0} = P = c_n x^m + \dots$

$P_{A_1} = Q = c_n x^n + \dots$

si $P \neq QR$

MI vrai

conservé A0/A1

si $P_{A_2} = R$ en libe

MI vrai

XCTDIV: TST.L (A1)+

BNE KI67

cas $P_{A_1} = 0$

BSR XDCTE

$\frac{P_{A_2}}{\{A1\}}$

SUBQ #4, A1 ← CLR D1 ⊗

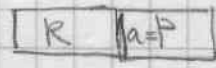
RTS

KI67: SUBQ #4, A1

MOVEM.L A0/A1, -(SP)

BSR XPSPO R=0

MOVE.L A2, -(SP)



BSR XPSAP a=P

MOVE.L A2, -(SP)



KI68: MOVE.L (SP), A0

$P_{A_0} = 0 ?$

TST.L (A0)

BNE KI69 → non

CMP #4000, 4(A0)

BNE KI69 → non
vrai: fin

MOVE.L A0, A6

MOVEM.L (SP)+, D0/D1/A0/A1

MOVE.L D1, A2 ← CLR D1 ⊗

RTS

KI69: MOVE.L R(SP), A1 $P_{A_1} = Q$

MOVE.L (A1), D0 v

BSR XDEG $D6 = m$

MOVE DS, D6

EXG A0, A1

BSR XDEG $DS = n$

MOVE D6, D1 $D1 = m$

SUB DS, D6 $D6 = m - n$

BMI ERRLA KI70 \otimes

MOVEM D0/D1/D6, -(SP)

MOVE DS, D1

BSR XCOEFP

MOVE.L A2, A3 $P_{A_3} = c_n$

EXG A0, A1

MOVEM (SP), D0/D1 $v \quad m$

BSR XCOEFP c_m

MOVE.L A2, A0

MOVE.L A3, A1 c_n

BSR XCTDIV1 $c_m/c_n \quad \otimes$

MOVE.L A2, A0

MOVEM (SP)+, D0/D1/D2 $v \times m-n \leftarrow$ BMI KI70 \otimes

BSR XPSMON $\text{net } P_{A_1} = v^{m-n}$

BSR XMULP

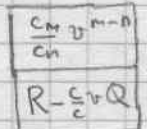
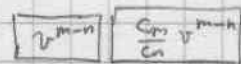
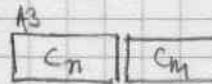
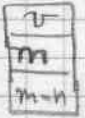
MOVE.L A2, A1 $P_{A_1} = \frac{c_n v^{m-n}}{c_n}$

~~MOVE.L R(SP), A0 $P_{A_0} = Q$~~

~~BSR XMULP $\frac{c_m v^{m-n} Q}{c_n}$~~

~~MOVE.L A1/A6, -(SP)~~

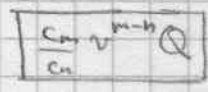
~~MOVE~~



2

MOVE.L 12(SP), A0 $P_{A_0} = Q$
 BSR XMULP $P_{A_2} = \frac{c_m}{c_n} v^{m-n} Q$

MOVE.L 4(SP), A0 $P_{A_0} = R$
 MOVE.L A2, -(SP)



BSR XADDP $P_{A_2} = R + \frac{c_m}{c_n} v^{m-n} Q = R'$

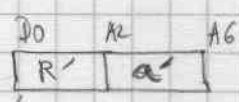
MOVE.L (SP)+, A1 $\rightarrow \frac{c_m}{c_n} v^{m-n} Q$
 MOVE.L (SP), A0 $\rightarrow a$

MOVE.L A2, -(SP)



BSR XSUBP $P_{A_2} = a - \frac{c_m}{c_n} v^{m-n} Q = a'$

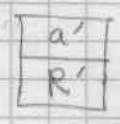
MOVEM.L (SP)+ D0/D1/A0
 $R' \times R$



MOVE.L A2, D1
 SUB.L D0, D1
 ADD.L A0, D1



MOVEM.L D1/A0, -(SP)



MOVE.L D0, A2

BSR XLR76



BRA KI68

KI70: MOVEM.L (SP)+, A0/A6
 MOVEM.L (SP)+, A0/A1
 RTS