

① Pose en libre pgcd ($|[A_0]|$, $|[A_1]|$)
avec $\text{pgcd}(x, 0) = x$ admis

XPGCD: MOVE $\#\$4000, D_0$

CMP (A1), D₀

BEQ XPOSE1

→ $\text{pgcd} = |[A_0]|$ si $[A_1] = 0$

EXG A₀, A₁

CMP (A1), D₀

BEQ XPOSE1

→

KB12: MOVE.L A6, -(SP)

BSR XPOSE1 *proc a*

MOVE.L A2, -(SP)

MOVE.L A1, A0

BSR XPOSE1 *proc b*

MOVE.L A2, A1

MOVE.L (SP)+, A0



KB13: BTST #6, (A0)

BNE KB14

MOVE.L A0, A4

MOVE.L A1, A5

MOVE.L A1, -(SP) *cas mots courts*

BSR XDIV1A

MOVE.L A3, A6

MOVE.L A2, A3

MOVE.L (SP)+, A2

MOVE.L (SP), A0 *MOVE.L*

BSR XLB76

MOVE.L A0, -(SP)

MOVE.L A3, A6

BSR XLB76

MOVE.L (SP)+, A1

MOVE.L (SP), A0

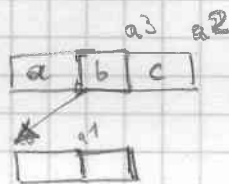
CMPI #4000, (A1)

BNE KB13

MOVE.L A1, A6

MOVE.L (SP)+, A2

RTS



KB14: MOVE (A0), D0

AND #1FFFF, D0

MOVE (A1), D1

AND #1FFFF, D1

KB15: EXT.L D0

DIVU D1, D0

SWAP D0

EXG D0, D1

CMPI #1, D1

BGT KB15

BCC KB16 *→ pged = 0 (if d1 = 0)*

MOVEQ #1, D0 *↓ pged = 1*

KB16: MOVE.L (SP)+, A6

BRA XPOSE0

Pose en libre pged ((A0), (A1))

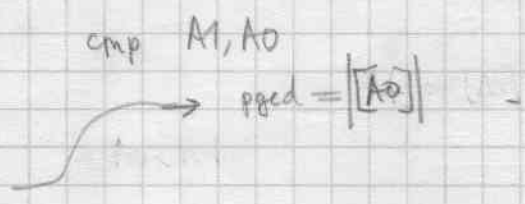
A2 = pged

54a

Version
v. 1.09
(gaspille
minutes)

XPGCD: CMP #1000, (A0)
BEQ ERRDV

XPGCD: MOVE.L A0, A4
MOVE.L A1, A5
BSR XCMP1
MOVE.L A4, A0
MOVE.L A5, A1
BEQ XPOSE1
BCC KB12



KB12: EXG A0, A1
MOVE.L A6, -(SP)
KB13: BTST #6, (A0)
BNE KB14

cas mots < \$1FFFF
→

[A0, A1] → A2
↑

MOVE.L A0, A4
MOVE.L A1, A5
BSR XDIV1A
MOVE.L (SP)+, A0
MOVE.L A2, A6
MOVE.L A3, A1

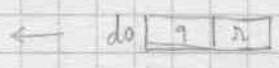
CMP #1000, (A1)
BNE KB13

pgcd = A0
MOVE.L (SP)+, A6
~~MOVE.L A1, A2~~
BRA XFFFC4 XPOSE1

KB14: MOVE (A0), D0
AND #1FFF, D0
MOVE (A1), D1
AND #1FFF, D1
BEQ ~~KA74~~ ERRDV

→ division par zéro
KB15: EXT.L D0

KB15: DIVU D1, D0
SWAP D0
EXG D0, D1
CMP #1, D1
BGT KB15
BCS KB16
↓ pged = 1
MOVEQ #1, D0



pgcd = D0 (si D1 = 0)

KB16: MOVE.L (SP)+, A6
BRA XPOSED0