(5)

mods (p, q) → type { flottant si p ou q flottant ; exact si p et q exacts

p, q réels exacts ou flottants

→ $r \in \left[-\frac{q}{2}, \frac{q}{2}\right[$

v

```
YMODS : BSR   WEEL      (R)      q
        BCLR  #7,(A0)            |q|

YMODSA: MOVEQ #2,D0                    (X)
        BSR   LB305               2
        BSR   XIDIV              |q/2|

(SP) YMODS1: MOVE  TVARN,D0
        SUBQ  #1,D0
        BSR   XIFLOB
        TST   (A0)
        SMI   -(SP)
```

entrée : (P-1) ← p ; (P) ← $\left|\frac{q}{2}\right|$

p > 0 →

(SP)

```
YMODS1: BSR   WREEPD1
```

$p = \lambda \left|\frac{q}{2}\right| + r$ $\quad r \in [0, \frac{q}{2}[$

```
        MOVE  SGPM1,D0
        ROL   #1,D0
        BOR.B (A6),D0      ← MOVE -(A6),D0
(MB212) BTST  #0,D0
        BEQ   MB210
```

```
MOVE  -(A6),D0
TST   SGPM1
BPL   MB212          → λ > 0
CMP   #$4000,(A3)
BEQ   MB212          → λ < 0 mais r = 0
ADDQ  #1,D0
```

→ si : λ pair > 0 ; λ impair < 0 ; $r \neq 0$; λ pair < 0 ; $r = 0$

```
MB21R: MOVE  D0,SGPM1
```

```
        MOVE.L  A2,A6
        MOVE.L  A0,A2
        BSR     LC1R          } pour r

        MOVE    TVARN,D0
        SUBQ    #2,D0
        BSR     WASGN2        } mis à la place de p
        BSR     XISUB         r = |q/2|
        BRA     MB211
```