

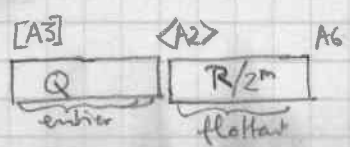
Divisa entière en flottant (positif)

entière $a = \langle A0 \rangle \geq 0$
 $b = \langle A1 \rangle > 0$

$a = \frac{A}{2^\alpha}$ $b = \frac{B}{2^\beta}$ $m = \max(\alpha, \beta)$
 $a' = \frac{A'}{2^m}$ $b = \frac{B'}{2^m}$
 $A' = B'Q + R$ $a = bQ + \frac{R}{2^m}$

ML62

sketch:

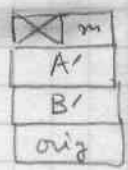


```
XFLDIV1: MOVE (A0)+, D0    α
          MOVE (A1)+, D2    β
          MOVE I
          MOVE.L A6, -(SP)
          CMP D0, D2
          BLT ML62
```

$m = \alpha$ $B' = 2^{\alpha-\beta} B$
 $m = \beta$ $A' = 2^{\beta-\alpha} A$

```
MOVE.L A1, -(SP)
MOVE.ML D0/A6, -(SP)
```

→ $m = \alpha$
 ↓ $m = \beta$



```
SUB D0, D2
BVS errrg
BSR XROT
BRA ML63
```

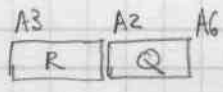
```
ML62: MOVEM.L D0/A0/A6, -(SP)
```

```
EXG D0, D2
MOVE.L A1, A0
```

```
ML63: SUB D0, D2
      BVS ERRRG
      BSR XROT
```

dépendant
 mit sign $\begin{cases} A' = 2^{\beta-\alpha} A \\ B' = 2^{\alpha-\beta} B \end{cases}$
 $\lfloor A2 \rfloor =$

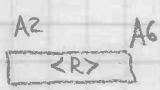
```
MOVEM.L (SP), D0/A0/A1
```



```
BSR XDIV1
```

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

```
MOVE.L A3, A0    R
```



```
BSR XINTEL
```

```
ADD D0, (A2)
BVS ERRRG
MOVE.L A6, A5
MOVE.L A2, A6
```

$\frac{R}{2^m}$ en flottant

①

```

MOVE.L A6,A5
MOVE.L A2,A6
MOVE.L (SP)+,A2Q
MOVE.L (SP)+,D0m
ADD D0,(A6) ⊗  $\frac{\langle R \rangle}{2^m}$ 
BVS ERRRG
ADDQ #8,SP
MOVE.L (SP)+,A0like
MOVE.L A0,A3
BSR XLB76
MOVE.L A0,A1
MOVE.L A5,A6
BSR XLB76
MOVE.L A1,A2
RTS

```