

Entrée FP0, FP1
x y

Calcule $FP0 = \sqrt{x^2 + y^2} = M \sqrt{1 + \left(\frac{m}{M}\right)^2}$

$M = \max(|x|, |y|)$
 $m = \min(|x|, |y|)$

déduit FP0 - FP1 - FP3

CPC NORM: MOVEQ #0, D0

FMOVE.L D0, FPSR

FABS FP0

FABS FP1

FCMP FP0, FP1

met $M = FP0$
 $m = FP1$

FBLE V1

FMOVE FP0, FP3

FMOVE FP1, FP0

FMOVE FP3, FP1

V1: FTST FP0

si $M=0$ fin

FBEQ V2

→ fin

FDIV FP0, FP1

FMOVECR #32, FP3

1

FMUL FP1, FP1

FADD FP3, FP1

FSQRT FP1

FMUL FP1, FP0

V2: FMOVE.L FPSR, D0

AND #0, D0

RTS

) teste si DE, IOP, OVFL, UNFL