

3 exprchain, comp exprchain₂

GEE25 : BSR WCHAS

WHENC : BSR WDCOMP *comparateur*

EXT D0

X BEQ ERREX → mauvais mélange de types (err comparat)

X BMI GEF30 → fin

MOVE D0, -(SP)

répète YCMP →

BSR XCMPCH (5)30a

$$D3.L = \begin{cases} 1 & \text{si } e_1 < e_2 \\ 0 & \text{si } e_1 = e_2 \\ -1 & \text{si } e_1 > e_2 \end{cases}$$

comp rés	3A #	3B ≤	3C <	3D =	3E >	3F ≥
1	-1	-1	-1	0	0	0
0	0	-1	0	-1	0	-1
-1	-1	0	0	0	-1	-1

ADDQ.L #1, D3

ASL #3, D3

GEEB27 : D.B 1, 0, 0, 0, 1, 1, 2, 2

D3 0, 1, 0, 1, 0, 1, 2, 2

D.B 1, 1, 1, 0, 0, 0

ADD (SP)+, D3

LEA GEE27 - \$3A, A0

ADD D3, A0

MOVE.B (A0), D3

NEG.L D3

RTN

BRA MB93 *06 p. et p. et met D3.L*

3) $\frac{[mat]}{x \text{ in } vset}$

GEE85 : ADDQ #1, do
 BEQ GAN36 in
 BSR GAN36
 BRA GAN38 inverse $0 \leftrightarrow -1$ 80.5

```
GAN36: BSR WICOND
GAN36: BSR WSTVIN
MOVE.L AS, -(SP)
BSR WLMYC2 (5239) do.L = nb d'elements
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$P_1 = x$
 $P_0 = vset$ (3)36

```
GEE86: ADDQ.L #1, D1
GEE87: CMP.L D0, D1
BHI GEE91
```

→ fin [absent]

```
MOVEM.L D0/D1, -(SP)
```

```
BSR XSTDF (3)138 pousse  $x - a_{D1}$  a  $p_0$  do = type
```

```
CMP #1, D0
BNE GAP20
```

→ sequest
 ↓ un seul element

```
BSR XICZERO
BNE GEE90
```

→ faux

```
↓  

GEE88
```

```
MOVE D0, -(SP)
BSR XIFLOB
BNE GEE900
CMP #1, D0, (A0)
BNE GEE90
```

→ faux $x - a_{D1}$

```
MOVE (SP)+, D0
CMP #1, D0
BNE GEE92
```

vrai

```
GEE88: BSR POPN
GEE89: BSR POPN
```

```
ADDQ #8, SP
MOVE.L (SP)+, AS → ôte x et met -1
BRA LB607
```

```
GEE90: BSR POPN ← GEE900: ADDQ #2, SP
```

```
MOVEM.L (SP)+, D0/D1
BRA GEE86
```

faux

```
GEE91: BSR POPN → ôte vset
MOVE.L (SP)+, AS → ôte x et met 0
BRA LB608
```

```
GAP20: MOVE D0, -(SP)
BSR XIFLOB
BNE GEE900 → faux
MOVE (SP)+, D0
```

```
↓  

GEE92
```

3

GEE92: ADDQ.L #1,4(SP)

CMP #2,DO
BNE GEE98

GEE94: TST (A0)

↓ cas [a...
il faut $x-a \geq 0$

BMI GEE90 → échec

BSR POPN
MOVE.L 4(SP),D1

BSR XSTDFI (3)B8 *poncée x-b_{d1} en p. do=type*

CMP.B #3,DO

BNE ERR92 → erreur ^{de} ~~comparaison~~ ^{mult} ~~comparaison~~

BSR XIFLOB ← MOVE DO,-(SP) ⊗

BNE ERRCP → b-a ≠ R

CMP #4000,(A0) ← MOVE (SP)+,DO ⊗

BNE GEE95

BTST #8,DO

BNE GEE88 → b 'adapté'

GEE96: TST (A0)

BMI GEE88 *vrai*

BRA GEE90

GEE98: CMP #102,DO

BNE GEE10 *cas]a...*

CMP #4000,(A0)

BEQ GEE90

BRA GEE94

③
GEE22:BSR POPN

BSR XSTKH $\text{popsize } c$

CMP #6,D0

BNE ERRCP92

BSR YMODR1 $\text{modr}(x-a, c)$

BSR XIFLOB

CMP #4000,(A0)

BNE GEE90

BRA GEE88

x
 modr
 $x-a$
 c

3

x [in] cset

x → P₀

GEF30: ADDQ #1, do
 BEQ GAN40
 BSR GAN40
 BRA GAN38

in
not in

appelé
GEE88

GAN40:
 GEF30: BSR WSTCIN

P₁ x
 P₀ cset

MOVE.L AS, -(SP)
 BSR WLMYC1
 MOVEQ #0, D1

do.L = nb de 'éléments de cset

GEF32: ADDQ.L #1, D1

CMP.L D0, D1

~~RHE~~ GEE91

MOVEM.L D0/D1, -(SP)

BSR XSTCF

CMP #8001, D0

BNE GEF36

← do = type de ad1 (dt ène élément de cset)
 d3 = cmp (a₁₁, x)
 ↑ élément

TST D3

cas élément seul

BEQ GEE89

→ vrai

GEF34: MOVEM.L (SP)+, D0/D1

BRA GEF32

```

x GEF36: CMP.B #2, D0
      BNE ERR92 → erreur cset
      ADDQ.L #1, 4(SP)

```

```

x TST D3
      BNE GEF38
      BTST #8, D0
      BNE GEF34 → cas ad1 = x
      BRA GEE89 → égalité exclue

```

```

GEF38: MOVE D3, -(SP) ← MOVE.L (SP), D1 ⊗
      BSR XSTCF
      CMP.B #3, D0
      BNE ERR92 → erreur cset

```

d0 = type de bdr
d3 = comp (bdr, x)

```

      TST D3 ← MOVE (SP)+, D4
      BNE GEF40

```

```

      BTST #8, D0
      BEQ GEF34 → égalité exclue
      BRA GEF41 ⊗

```

```

GEF40: CMP D3, D4
GEF41: BEQ GEF34 ⊗
      BRA GEE89 → vrai

```