

① Pose  $[A0] * [A1]$  en libra = A2

démit A0-A5  
D0-D6

repère XADD1

XMUL1: MOVE (A0)+, D0 ENTR

MOVE (A1)+, D1

AND # \$5FFF, D0

AND # \$5FFF, D1

BCLR #14, D0

x

BEQ KAG4

BCLR #14, D1

x

BEQ KAG6

MULU D1, D0

D1 D1...

→ [A0] long

D0 \* [A1] long

↓ D0 \* D1

XPOSE L: : CMP.L # \$10000, D0

BCC XPOSED0

MOVE.L A6, A2

ADDQ #6, A2

VERIFM A2

MOVE.L D0, -(A2)

MOVE. #4, -(A2)

RTS

KAG0: EXG D0, D1

MOVE.L A1, A0

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KAG1: CMP #1, D1
      BCS XPOSEZ          0*[A0] → 0
      BNE KAG2
KAG10: SUBQ #2, A0        ↓ 1*[A0]
      ADDQ #2, D0
      BRR KAG100 ← { AND #$FFFF, (A2) } BRA KAG11
                    { RTS }
KAG2: MOVE.L A6, A2
      MOVE.L A2, A3
      MOVE D0, (A3)+
      ADD D0, A3
      VERIFM A3
      ADD D0, A0
      ASR #1, D0
      SUBQ #1, D0
      MOVE D0, D2 ← CLR.L D4
KAG3: MOVE -(A0), D3
      MULU D1, D3
      ADD.L D3, D4
      MOVE D4, -(A3)
      CLR D4
      SWAP D4
      DBRA D0, KAG3
      MOVE D4, D1
      BNE KA161
KAG30: RTS

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KA64: BCLR #14, D1

BNE KA61

LEA (A0, D0.W), A2

LEA (A1, D1.W), A3

MOVE.L A2, D4

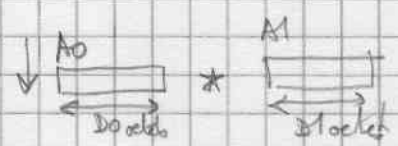
MOVE.L A3, D3

→ D1 \* [A0]

```

MOVE D0, D2
ADD D1, D2
SUBQ #2, D2
CMP #2000, D2
BCC ERRDP

```



KA641: TST -(A2)

BEQ KA641

ADDQ #2, A2

KA642: TST -(A3)

BEQ KA642

ADDQ #2, A3

SUB.L A2, D4

SUB.L A3, D3

SUB D4, D0

SUB D3, D1

ADD D4, D3

BEQ KA645

MOVE D3, -(SP)

← SUB D3, D2 ⊗

BSR KA645

MOVE (SP)+, D3

ADD D3, (A2)

← CMP #2000, (A2) ⊗  
BCC ERRDP

MOVE.L A6, A0

ADD D3, A6

BSR VERAG

ASR #1, D3

SUBQ #1, D3

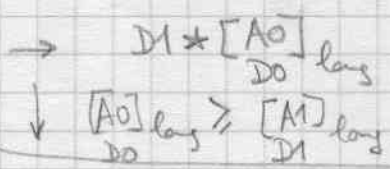
KA643: CLR (A0)+

DBRA D3, KA643

RTS



```
KAG4: BCLR #14, D1
      BNE KAG1
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KAG5: MOVE.L A6, A2
      MOVE.L A2, A3
      MOVE D0, D2
      ADD D1, D2
      SUBQ #2, D2
      MOVE D2, (A3)+
      ADD D2, A3
      VERIFM A3
      ADD D0, A0
      ADD D1, A1
      ASR #1, D0
```

```
KAG5: CMP D0, D1
      BLE KAG5
      EXG D0, D1
      EXG A0, A1
      CMP #2000, D2
      BCC ERRDP
```

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SUBQ #2, D0
```

D0 = p

D1 = q

return

A0 points a<sub>k</sub>    A3 points c<sub>-1</sub>  
 A1 points b<sub>-1</sub>  
 boucle k=0 à p+q    D3 = k  
 boucle i=0 à k  
 q+p-k

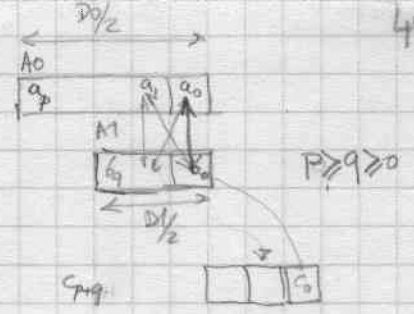
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KAG6: MOVE D3, D4
KAG60: CLR D2
      MOVE.L A0, A4
      MOVE.L A1, A5
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KAG7: MOVE -(A5), D5
      MULU (A4)+, D5
      ADD.L D5, D6
      BCC KAG8
      ADDQ #1, D2
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KAG8: DBRA D4, KAG7
      MOVE D6, -(A3)
      MOVE D2, D6
      SWAP D6
```

```
ADDQ #1, D3
SUBQ #2, A0
CMP D1, D3
BLE KAG6
MOVE D1, D4
CMP D0, D3
BLE KAG60
SUBQ #2, A1
ADDQ #2, A0
```

cas 0 ≤ k ≤ q  
 cas q < k ≤ p



$$c_k = \sum_{i+j=k} a_i b_j$$

$$c_k = \sum_{i=0}^k b_i a_{k-i} \quad k \leq q$$

$$c_k = \sum_{i=0}^q b_i a_{k-i} \quad q < k \leq p$$

$$c_k = \sum_{i=k-p}^k b_i a_{k-i} \quad p < k$$

MOVE D0,D4  
 ADD D1,D4  
 SUB D3,D4  
 BPL KA660

} cas  $p < k \leq p+q$   
 $D4 = q+p-k$

TST D6  
 BEQ KA630  
 MOVE D0,D2  
 ADD D1,D2  
 MOVE D6,D1  
 BRA KA161

$\rightarrow$  rts  
 jreference = D6