

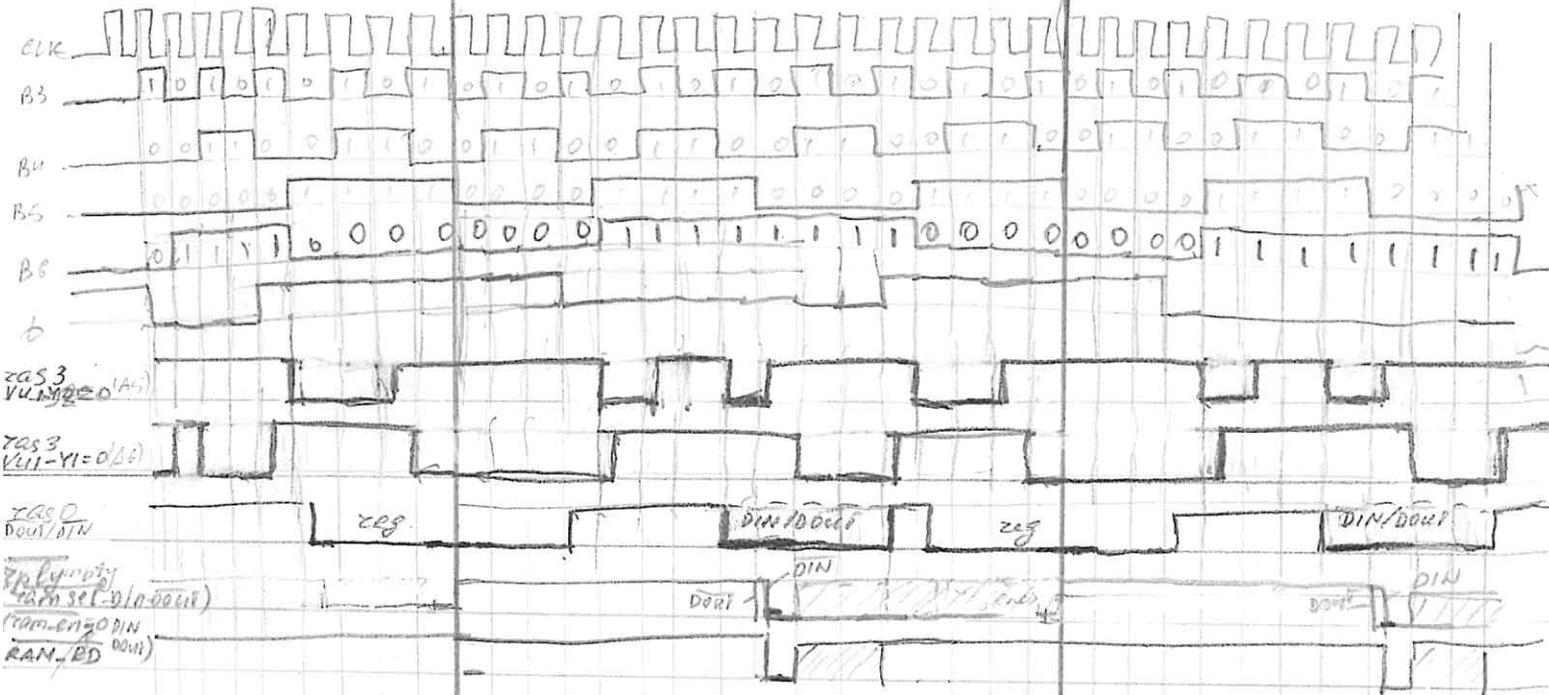
B3	B4	B5	B6	D6	D7
0	0	0	0	1	0
0	0	0	0	1	0
0	0	0	1	0	0
0	0	1	1	0	0
0	1	0	0	1	0
0	1	0	1	0	0
0	1	1	1	0	0
1	0	0	0	0	1
1	0	0	1	1	0
1	0	1	0	1	0
1	0	1	1	0	0
1	1	0	0	1	0
1	1	1	0	1	0
1	1	1	1	0	1

B3	B4	B5	B6	A5	A6	A7	B7	D7
X	0	1	0	0	X	X	X	0
1	1	0	0	0	X	X	X	0
0	0	1	0	0	X	X	X	0
X	1	0	1	X	0	X	X	0
1	0	1	0	X	0	X	X	0
X	X	0	0	X	0	X	X	0
X	X	X	X	X	1	0	0	0

A7 - RAMEN (0)
 A3 - DIN
 A4 - DOUT
 A0 - RAMSEL
 A2 - CLK-dl
 B3 B4 B5 B6 B8 B2 A7 A3 A0 RAMEN
 X 0 0 0 0 0 0 0 0 0
 0 X X V V X X 0 0 0 0

B3	B4	B5	B6	A7	A4	A3	A2	A0	D7	D6
1	0	1	1	0	X	0	X	0	0	0
1	0	1	1	0	0	X	X	0	0	0
X	0	1	0	X	X	X	0	X	0	0
X	X	1	X	X	X	X	X	X	0	0
X	1	X	X	X	X	X	V	X	0	0
0	X	V	V	X	X	X	X	V	0	0
X	X	X	X	X	X	X	1	X	0	0

B3 B4 B5 B6 B8 A7 A3 A0 (0) B2 RPLY (B2)
 0 0 0 1 0 X 0 0 0 X 0
 0 0 0 1 0 0 X 0 X X 0
 X X X X X X 0 0 X 0 0
 X X X X X 0 X 0 0 0



V2 (VUL ENL (2-15))

A2	A3	A4	A5	A1	B5
1	0	1	1	X	0
X	1	0	1	X	0
X	0	1	0	1	0
0	1	0	0	1	0
X	1	0	0	0	0

Q6 (B6) VUL ENL (2-14)

A2	A3	A4	A5	A1	Q6
1	0	0	0	X	0
X	1	1	1	X	0
X	0	0	1	1	0
X	1	1	0	1	0
0	1	1	1	X	0

Q4 (B4) 2.16

A2	A3	A4	A5	B4	Q4
1	0	0	0	1	0
X	X	X	1	0	0
X	X	1	X	0	0
X	1	X	V	0	0
0	X	V	V	0	0

Q3

A2	A3	A4	A5	B4	B3	Q3
1	0	0	0	0	1	0
X	X	X	X	1	0	0
X	X	X	1	X	0	0
X	X	1	X	X	0	0
0	X	X	X	X	0	0

B2

A2	A3	A4	A5	A0	B5	B1	B2	B3
1	0	1	0	1	X	X	X	0
0	0	0	1	X	X	X	X	0
1	1	0	0	X	X	X	X	0
X	X	X	X	X	X	X	X	0
1	0	X	X	1	X	X	X	0
1	0	0	1	X	X	X	X	0
1	1	0	1	X	X	X	X	0

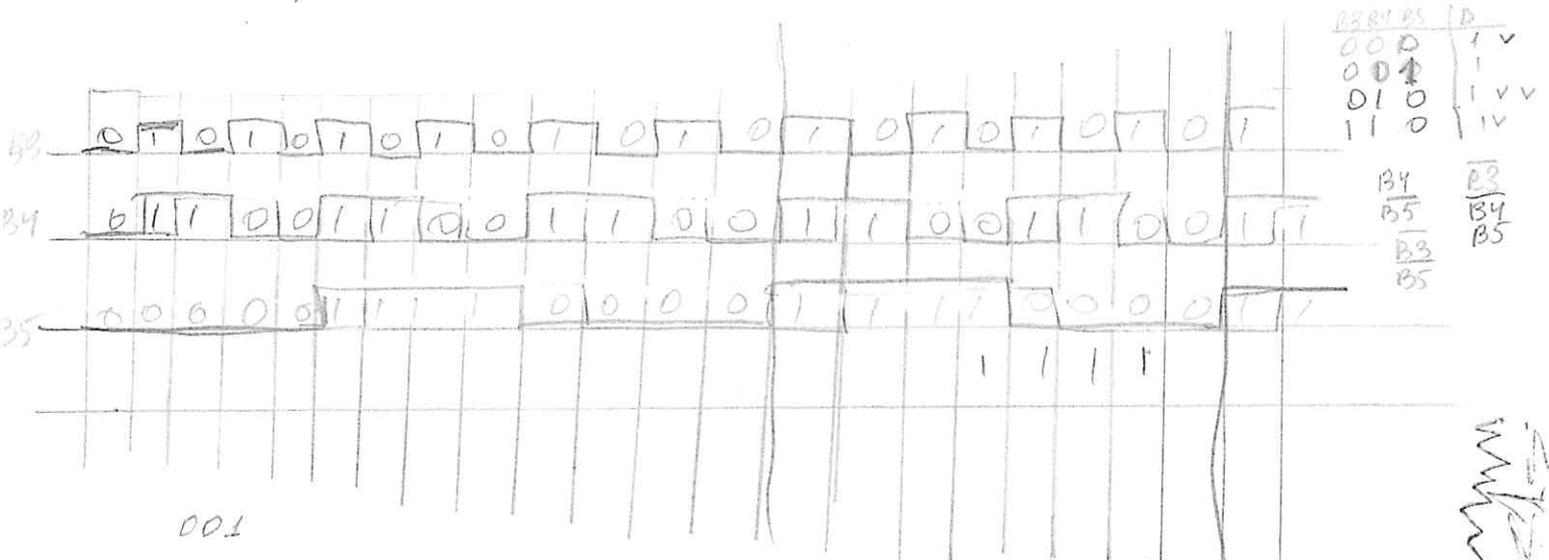
B8

A2	A3	A4	A5	A6	A7	B5	B6	B7
X	X	X	X	0	X	X	0	C
X	X	X	1	X	0	0	X	C
1	0	1	0	X	V	V	X	C
X	1	0	0	X	X	V	X	C

AD = 1 } 3an. ylvov
 AD = 0 } 3an. ylvov
 AD = 1 } 3an. ylvov

A0 - CLK
 A1 - CLK
 A2 - CLK
 A3 - CLK
 A4 - CLK
 A5 - CLK
 A6 - VUL-YO
 A7 - A1

A0 - CLK-dl
 A1 - VUL-YO
 A2 - CLK
 A3 - CLK
 A4 - CLK
 A5 - CLK
 A6 - VUL-YO
 A7 - A1



001

reference, $B3 \equiv Q3$
 $B6 = Q4(B4)$
 $B4 \equiv Q6(B6)$
 $B5 \equiv Q5(B5)$

B3

B3 \ B4	0	1	1	0
B5 \ B6	0	0	1	1
0	0	0	1	1
0	1	0	1	1
1	1	0	1	1
1	0	0	1	1

$B3 \& B5 \vee B3 \vee B5 =$
 $= B3 (B5 \vee \overline{B5}) = B3 = B3$

$Q3 \leftarrow B3 +$

B4

B3 \ B4	0	1	1	0
B6 \ B5	0	0	1	1
0	0	X	X	X
0	1	X	X	0
1	1	0	0	1
1	0	0	1	1

B3	B4	B5	B6	B3	B4	B5	B6	B3	B4	B5	Q6
0	0	0	0	0	0	0	0	1	X	X	X
1	0	0	0	0	0	0	1	0	X	X	X
0	0	0	0	0	0	1	0	1	X	Y	Y
1	0	0	0	0	0	1	1	0	1	1	1
0	0	0	0	0	1	0	0	1	Y	X	X
1	0	0	0	0	1	0	1	0	X	X	X
0	0	0	0	0	1	1	0	1	1	1	0
1	0	0	0	0	1	1	1	0	1	1	0
0	1	1	0	1	0	0	1	0	0	0	1
0	1	1	0	1	0	1	0	1	0	0	1
1	0	1	0	1	0	1	1	0	1	0	1
0	0	1	0	1	1	0	0	1	1	0	1
1	1	0	0	1	1	0	1	0	0	1	1
0	1	0	0	1	1	1	0	1	0	1	1
1	0	0	0	1	1	1	1	0	1	1	1

$B6 \& B4 \vee B3 \overline{B4} \vee B6 \overline{B5} \vee B6 B4 B3$

$\equiv (\overline{B6} \overline{B4}) \vee (B3 \overline{B4}) \vee (B6 \overline{B5}) \vee (B6 \overline{B4} \overline{B3}) \vee (B6 B4 B3)$
 $B5 (B3 \cdot B4 \vee B6 \cdot B4 \cdot B3) \equiv B3 \cdot B6 \vee B4 \cdot B6 \cdot B3 +$

B5

B3 \ B4	0	1	1	0
B6 \ B5	0	0	1	1
0	0	X	X	X
0	1	X	X	0
1	1	0	0	0
1	0	0	1	1

$B5 \cdot \overline{B4} \cdot \overline{B3} \vee B6 \cdot \overline{B5} \cdot B3 \vee B6 \cdot B5 \cdot B4 =$
 $= B5 \cdot B6 \cdot \overline{B3} \vee B4 \cdot \overline{B5} \cdot B3 \vee B4 \cdot B5 \cdot B6$
 $\overline{B5} \cdot B4 \vee B5 \cdot B3 \vee B5 \cdot B3 \cdot B4 =$
 $= \overline{B5} \cdot B6 \vee \overline{B5} \cdot B3 \vee B5 \cdot B3 \cdot B6$
 $4490565 - 2893125 = 312$
 299445

B6

B3 \ B4	0	1	1	0
B6 \ B5	0	0	1	1
0	0	X	X	X
0	1	X	X	0
1	1	0	0	0
1	0	0	0	0

$B5 \cdot \overline{B4} \cdot \overline{B3}$
 $B5 \cdot B6 \cdot B3$
 $\overline{B5} \cdot B3 \cdot B4$
 $\overline{B5} \cdot B5 \cdot B6$
 $\vee B3 \cdot B4 \cdot B6$
 $B3 \cdot B5 \cdot B6 \vee B3 \cdot B4 \cdot B6$