



(2) 16384 = 214 = 282k = 28+k = 3 + k = 14(4)a 28 - wy size debolere, $2^k - \text{we}$ size multiplobsere

Cheeny eniminalization furby q = 2(5, k) = 28 + 2k 2 + 2k = 214 - k + 2k = 9(k). Liese M2 porhodne; $g'(k) = \ln(2)(2^k - 2^{14-k}) = 0$ $2^k - 2^{14-k} = 0 \Rightarrow 2^k = 2^{14-k} \Rightarrow k = 7$ Cayli potrable $2^k \cdot 75i$ order, whely many po $2^k \cdot \text{mersion}$ in $y \in 2^k \cdot 75i$

(3)
$$256R = \frac{256.8}{32.8} = (8)$$
 rehtordo'n

 $256R = 28.2^{10} = 2^{18}$, czyli 18 lipii oolresonych

z csego 15 będzie poottoyczone olo lipii oolresonych (32K-2¹⁵)

(3 stanjące, 60 2^3 -8)

(3 stanjące, 60 2^3 -8)

(4) a) · 7 bitór odnesu (26=64/mac 83 sia zmeia).

· 8 bitór stoble mysicionego (po 4 ne ugha BCD)

· Cayli 2⁷· 8= 2¹⁰= 1024 bity paringa

(b) · 8 bitór orohesu (po 46ity me liceba)

· 8 bitór mysicia (15²=225 mecia sia ne 86tad)

· Carpli 2⁸· 8 = 2¹¹= 2048 bitár

c) · 8 bitór odnosu (16+ ne aparacia (oldaborania /solegnoma), po 4 no 40ta)

· 5 bitór mysica (15+ 15=30 11110)

· Copli 2³· 5 = 2560 bitór

d) · 5 bitór orohesu (1 ne enable, 4 ne capra no BCD)

· 7 bitór mysica (1 licoba segnandór)

· Carpli 2⁵· 7 = 224 bity

1 Azzo - Wyine	4 bitone	B7:0 - Wysue	8 6, tore (2+= 128) 152 = 225

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	8	ty .	2	20	128	64	32	16	8	4	2	100 1	, 2	
phasiglad	A3	Az	An	Ã0	B7	B6	BS	By	\mathcal{B}_3	132	B1	Bo	4	
0	0	0	0	0	0	0	0	0	0	0	0	\circ	0	
1	.0	0	0	1	0	0	0	0	0	0	D a	(7)	1	
2		0	1	0	9	0	6	0	Ω	(1)	0	00	4	_
23	0	0	1	1	0	0	0	0	(1)	0	0	(1)	5	
4	0	1	0	0	0	0	0	1	0	0	0	0	16	
5	0	1	0	1	0	0	0	(1)	(3)	0.	.0	(1)	25	
6	0	1	1	0	9	0	20	0	0	(1)	0	2	36	
¥	0	1	1	1	9	MO	9	(4)	0	0	0	0	48	
8	1	0	0	0	0	(1)	0	0	0	0	\circ	0	64	
, 3	1	P	0	1	2	(1)	0	1	0	\circ	0	(1)	81	
10	1	0	1	0	0	9	9	0	0	(1)	0	0	100	
11	1	0	1	1	0		0	9	9	20	0	(9)	121	
12	1	11	0	0	3		a	0	0	0	0~	(1)	763	_
13	1	1	0	0	10	1 (1)	0	0	O	1	0	0	136	
15	1	1	1	1	M	(4)	(9)	0	0	0	Ō	(1)	225	_
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	l _m	1			١	,	1			1	,)	
12 =	· A			A.A.		. 1			1		1	- n >	n . A A	

130- Ho B1=0 Bz= A1Ão

•	•			
Azdz As	00	01	11	10
00	0	0	1	0
01	Q	19	C	0
11	0	0	0	9
10	0	0	(1)	0
A3Az	60	01	11	10
00	0	3	0	0
01	19	1	A	0
11	1	0	9	O
70	0	9	1	0

13= A2A1A0+A2A1H0 $\frac{A_0(\overline{A_2A_1} + \overline{A_2A_1})}{A_0(\overline{A_1} + \overline{A_2A_1})}$ $\frac{A_0(\overline{A_1} + \overline{A_2A_1})}{B_3 = \overline{A_0} + \overline{A_0A_1} + \overline{A_2A_1}}$ $\frac{B_3}{B_3} = \frac{A_0(\overline{A_0} + \overline{A_1})(\overline{A_2} + \overline{A_1})}{A_0 + \overline{A_2}\overline{A_1} + \overline{A_2}\overline{A_1}}$

By = A2 A1A0 + A3 A2 A0

B4= (A3 A2) + A1 A0 + A2 A0 + A3A2 A0

A.A.	BS						
Azhz	00	01	11	100			
0 0	Q	6	0	0			
01	\mathcal{O}	C	1	N			
11	0	C	MA	0			
10	0	0	1	1			

BG = (A3A2A0+A3A2A0+A3A2A1)
BG = (A3A2+BA3A1+A3A2A0)

	19/2		,	1	
	Adde	00	01	11	10
_	O 0	6	0	0	০
	01	0	0	o	0
	11	1	1	1	1
	10	0	Ð	0	0

 $B_7 = A_3 A_2$ $B_7 = \overline{A_3} + \overline{A_2}$

Wybieramy:

$$\beta_0 = A_0$$

$$\beta_1 = 0$$

$$B_7 = \overline{A_3 + A_2}$$

		06		
AzAc	00	01	11	10
00	0	0	0	0
01	2	0	2	0
11	Ø	9	Ø.	A
10	(1)	1	1	1
B ₆ =	A3 A	a+	A3	A

$$\overline{B}_{6} = \overline{A}_{3} + \overline{A}_{2}\overline{A}_{1}$$

$$\overline{B}_{6} = \overline{A}_{3} + \overline{A}_{2}\overline{A}_{1}$$



