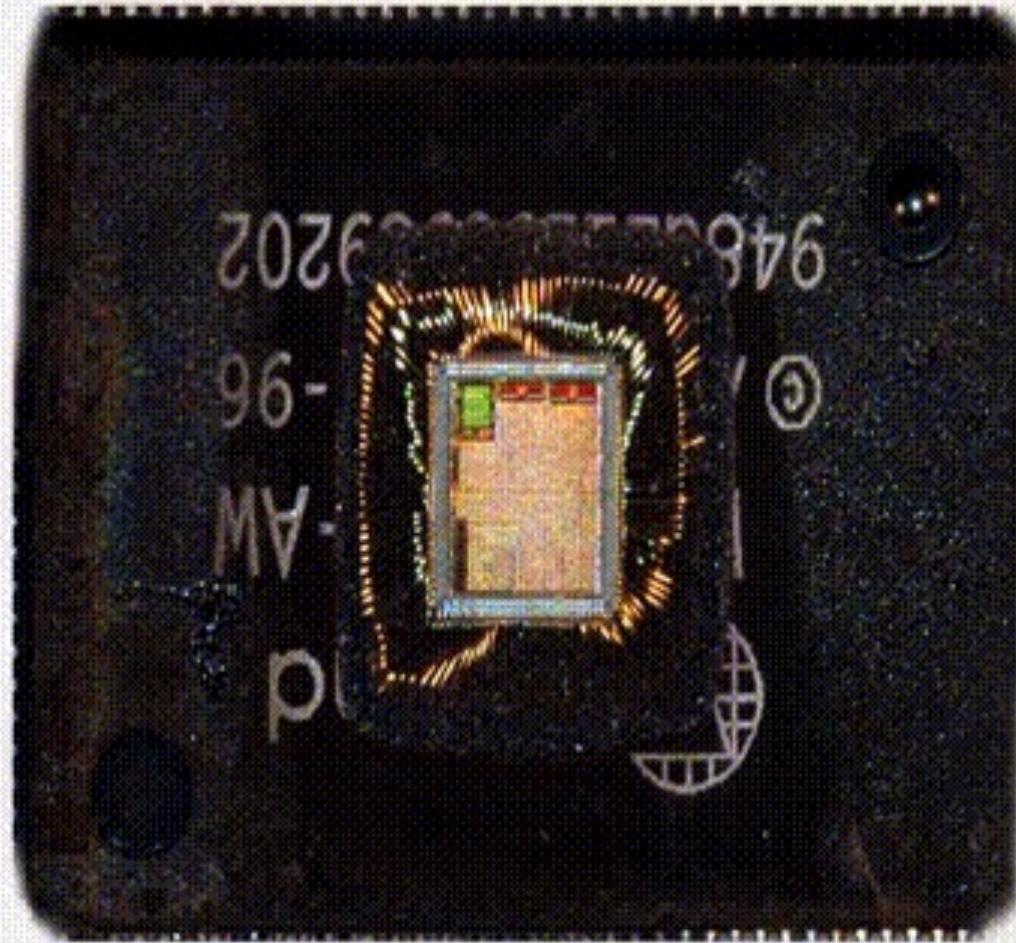
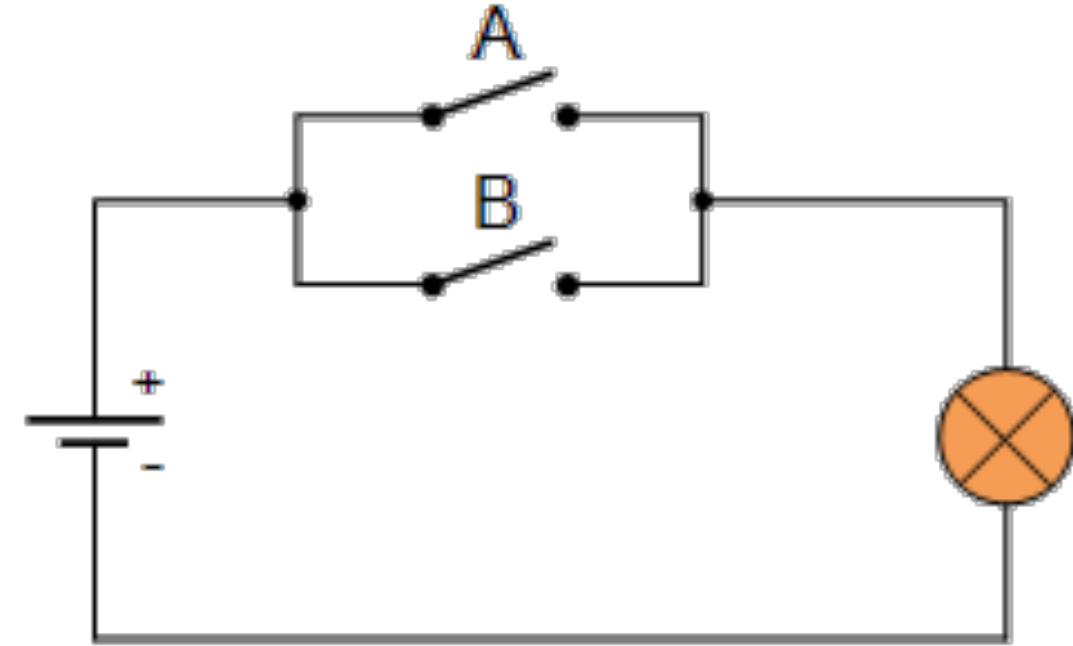
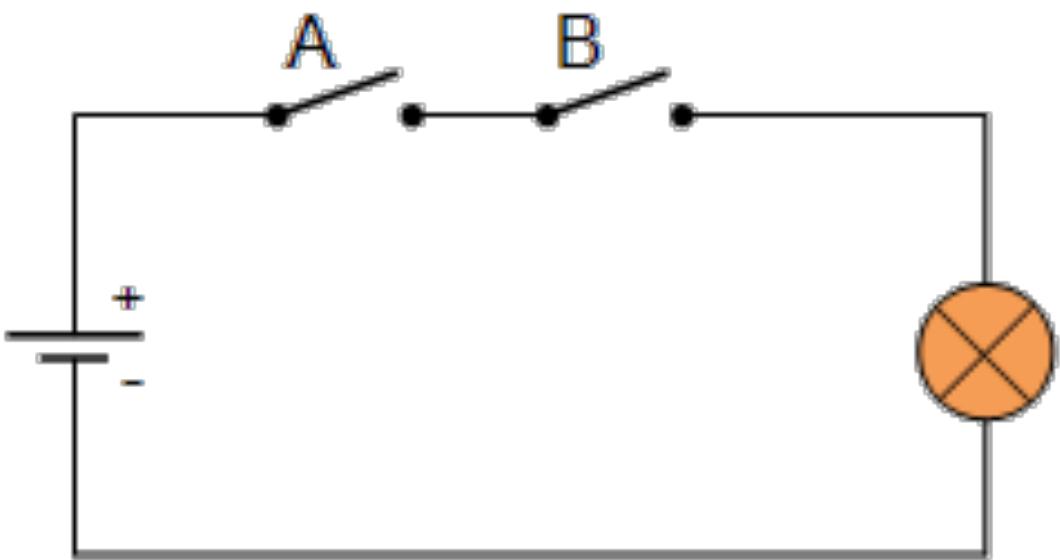


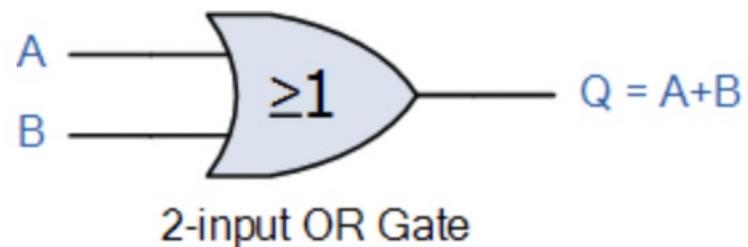
Logické obvody

Ing. Gabriel Valky, PhD.

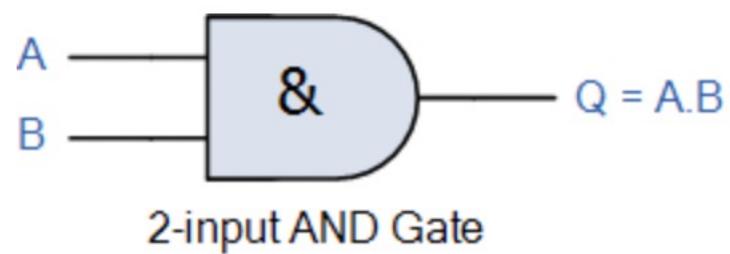


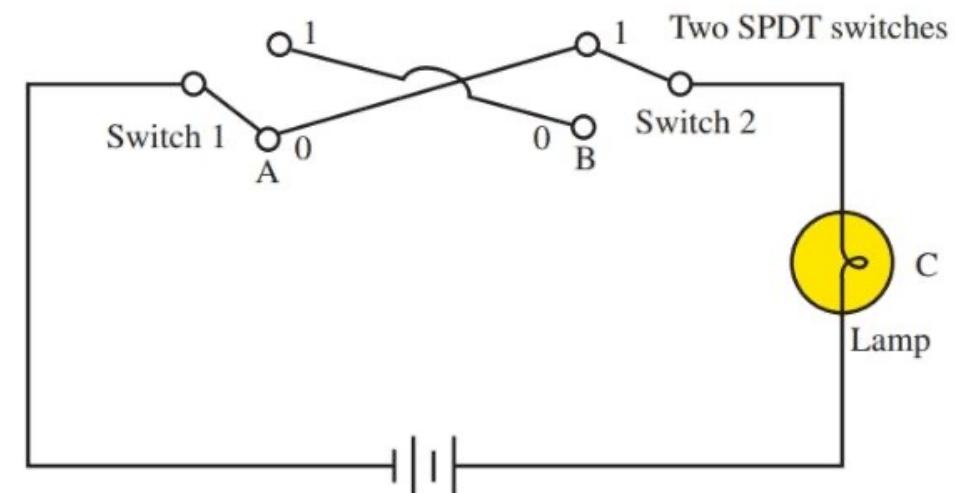
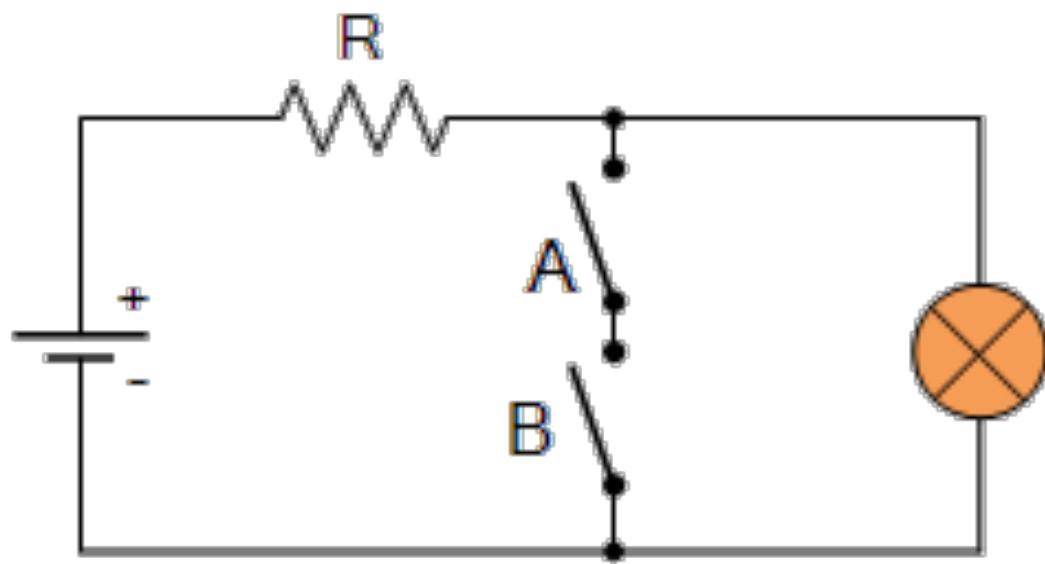
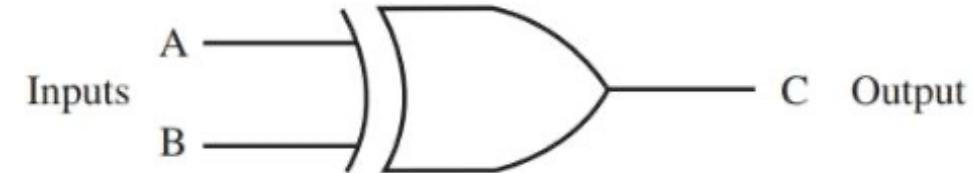
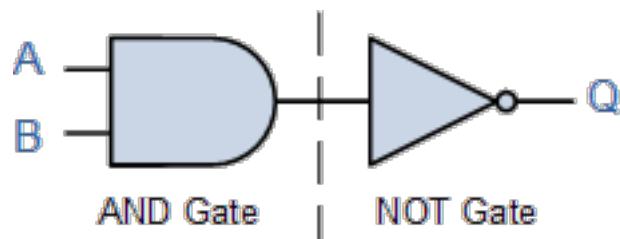


Switch A	Switch B	Output	Description
0	0	0	A and B are both open, lamp OFF
0	1	1	A is open and B is closed, lamp ON
1	0	1	A is closed and B is open, lamp ON
1	1	1	A is closed and B is closed, lamp ON
Boolean Expression (A OR B)		$A + B$	

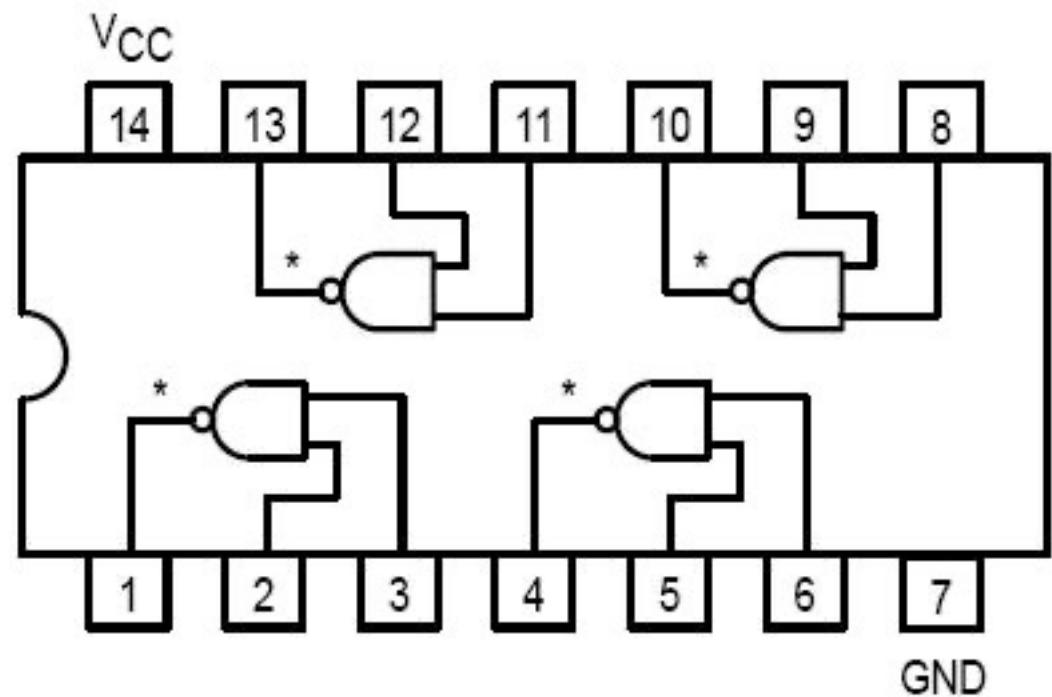
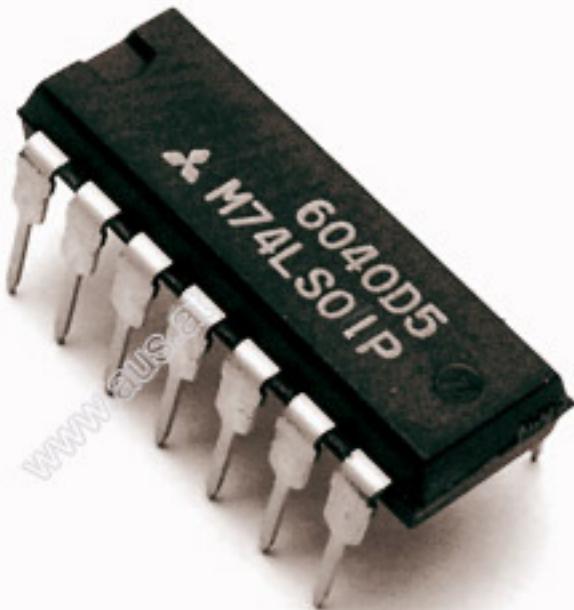


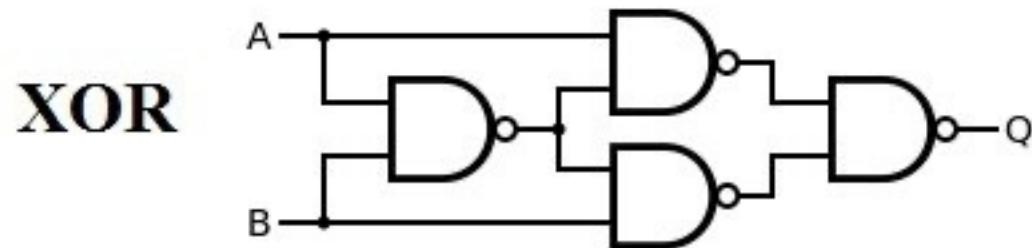
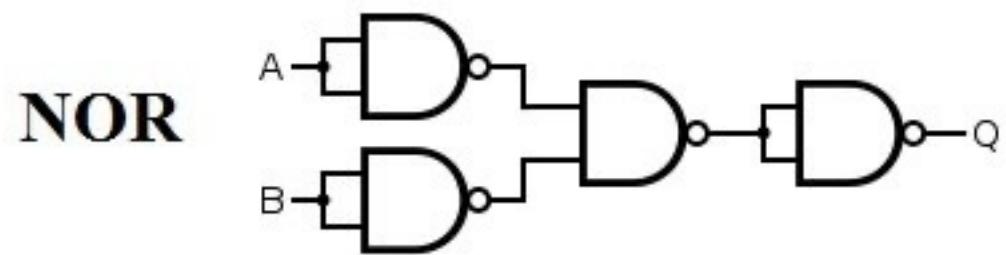
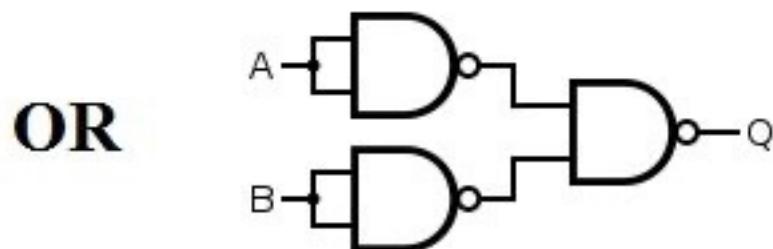
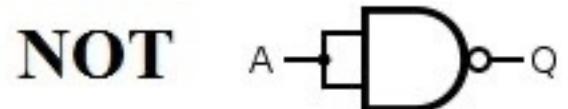
Switch A	Switch B	Output	Description
0	0	0	A and B are both open, lamp OFF
0	1	0	A is open and B is closed, lamp OFF
1	0	0	A is closed and B is open, lamp OFF
1	1	1	A is closed and B is closed, lamp ON
Boolean Expression (A AND B)		$A \cdot B$	





74LS01 Quad 2-input NAND Gate

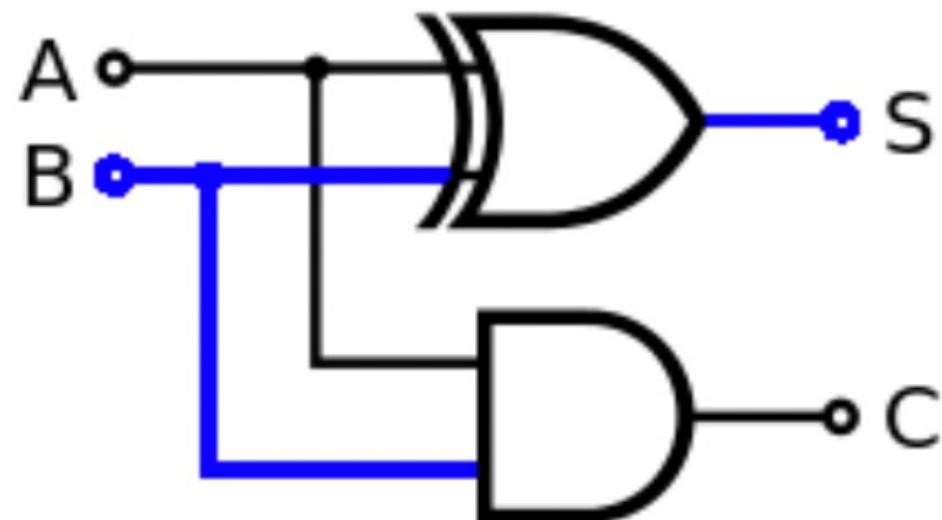




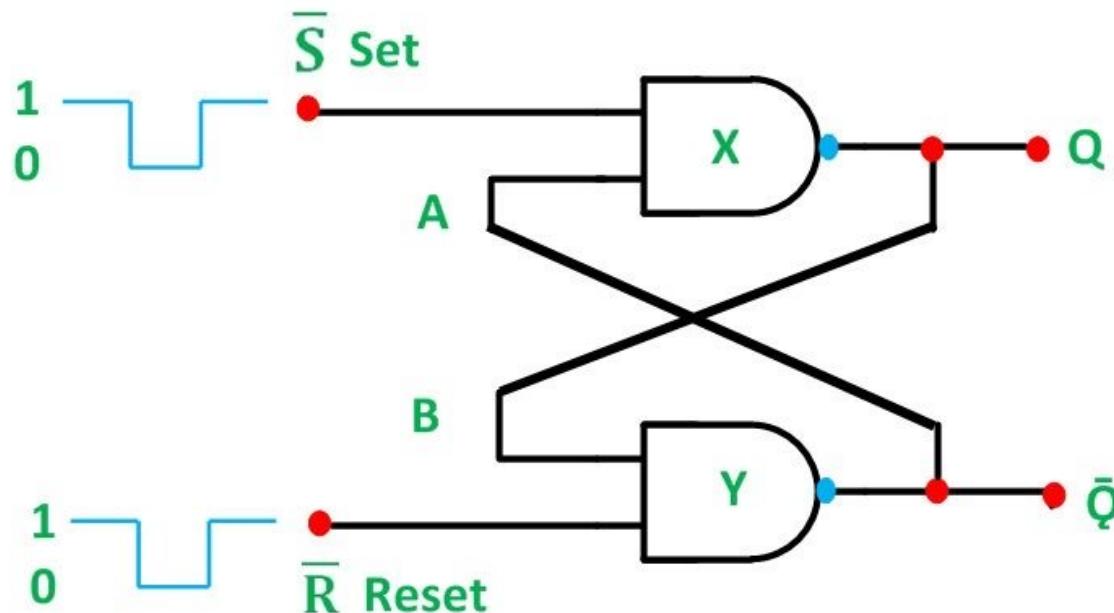
Kombinacne obvody: Half adder

A B Sum Carry

0	0	0	0
0	1	1	0
1	0	1	0
1	1	0	1



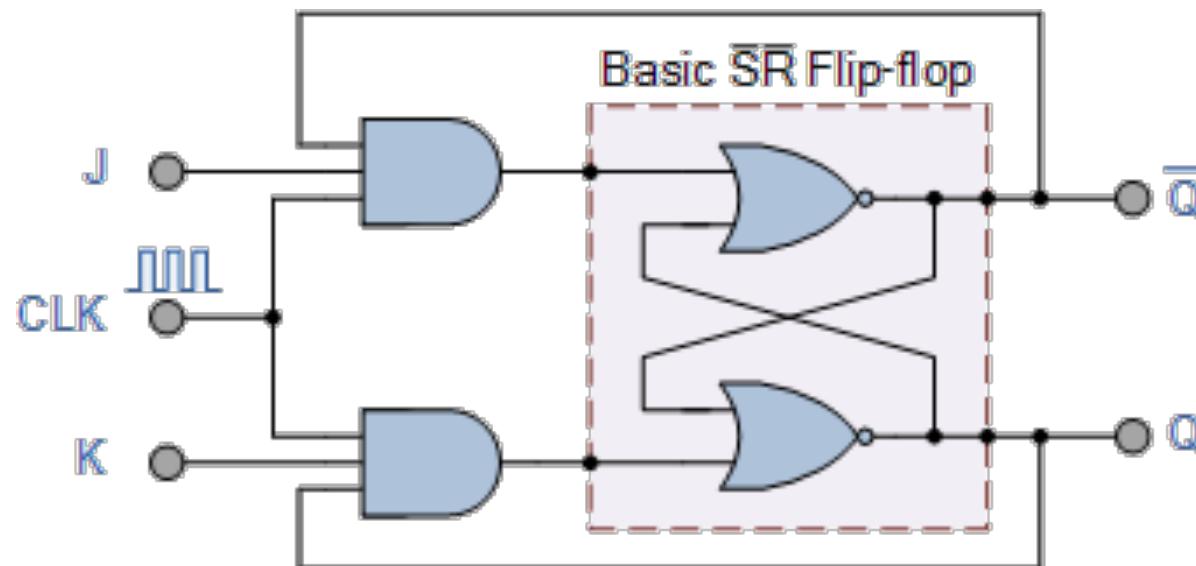
Klopne obvody: RS



Circuit Globe

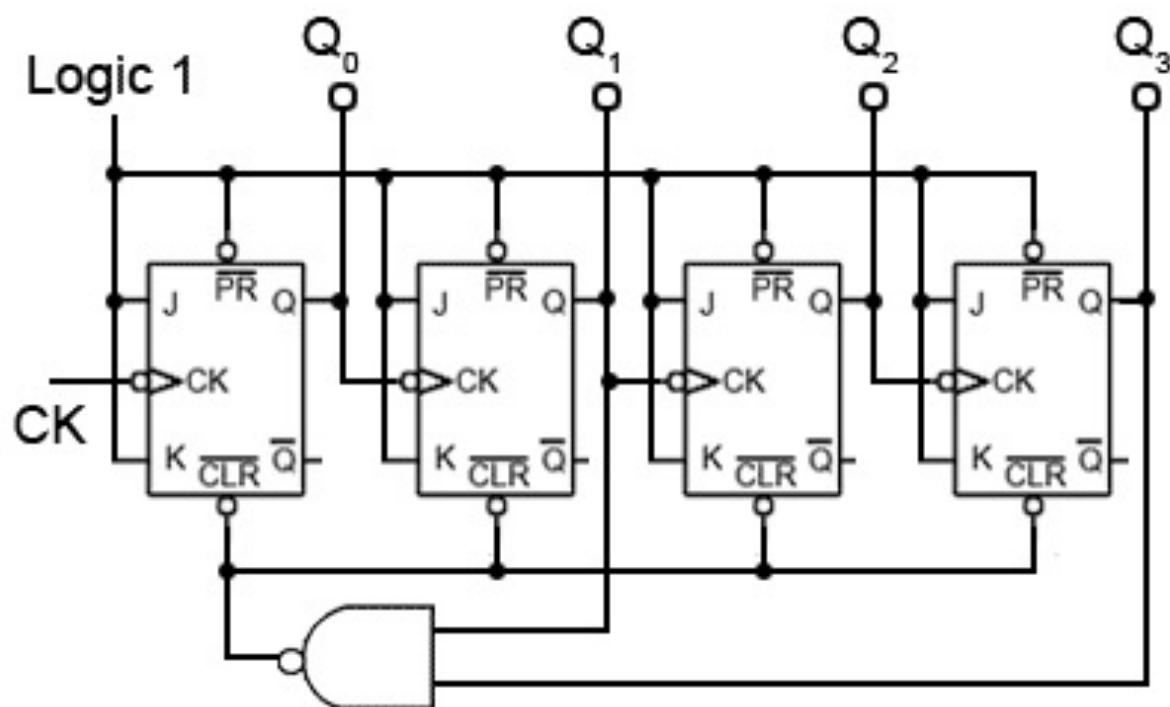
Sno	S	R	Q	Q'	State
1	1	0	1	0	Q is set to 1
2	1	1	1	0	No change
3	0	1	0	1	Q' is set to 1
4	1	1	0	1	No change
5	0	0	1	1	Invalid

Klopy obvod: JK



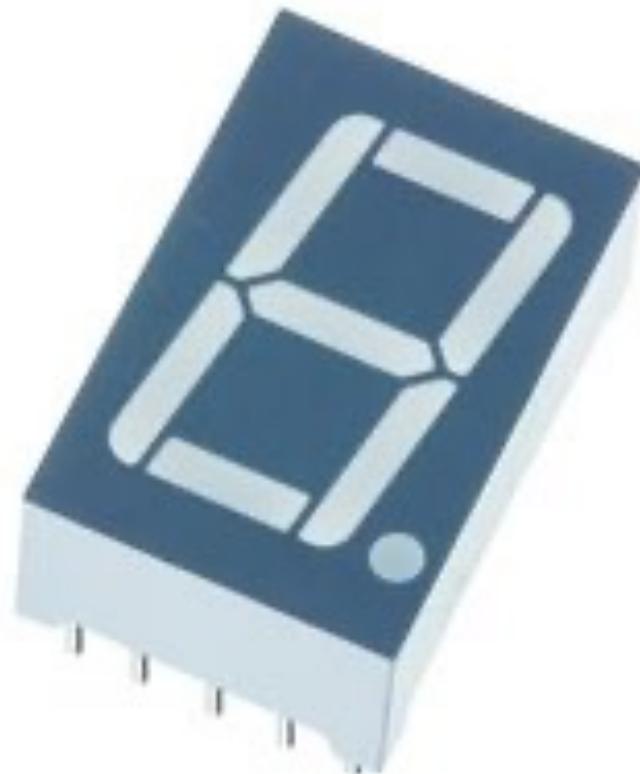
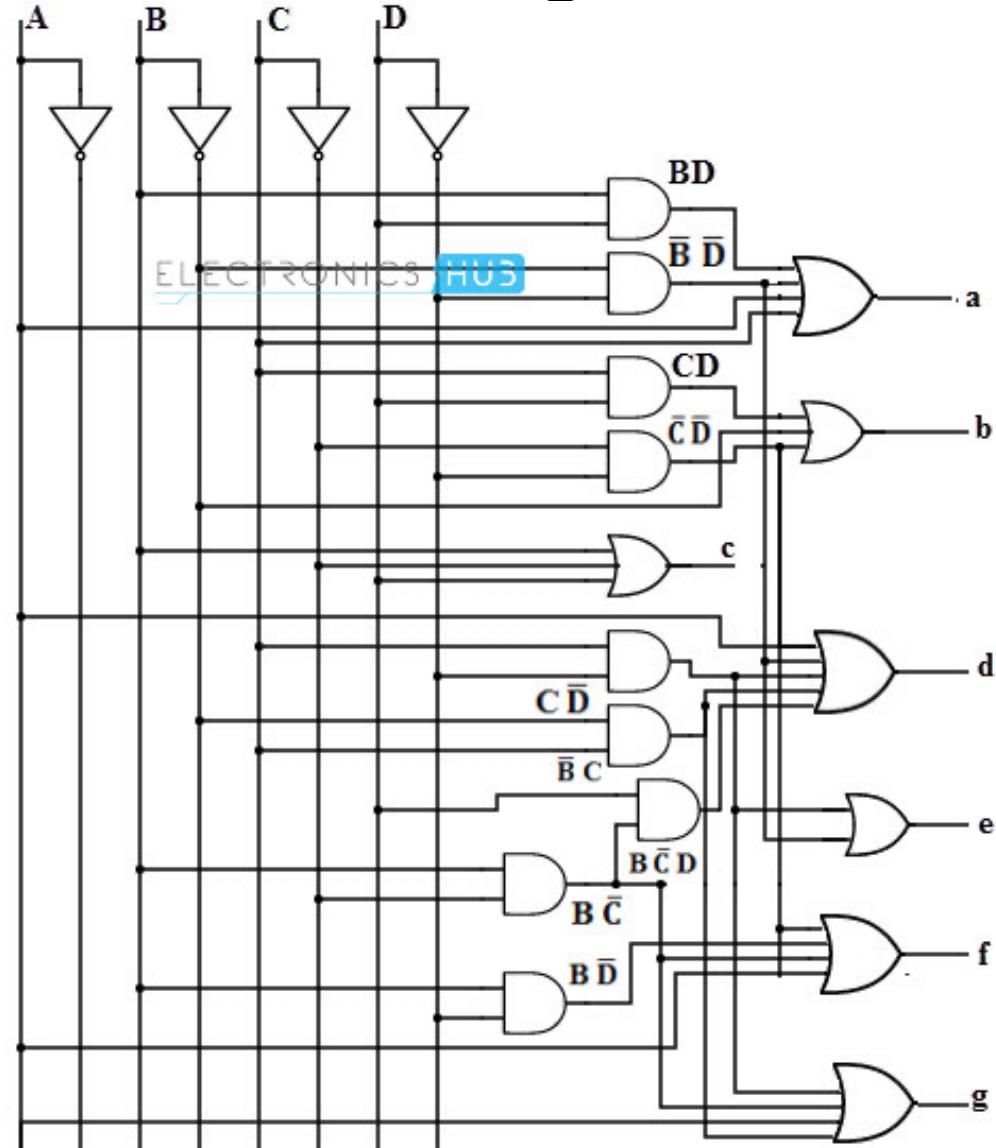
C	J	K	Q	\bar{Q}
HIGH	0	0	Latch	Latch
HIGH	0	1	0	1
HIGH	1	0	1	0
HIGH	1	1	Toggle	Toggle
LOW	0	0	Latch	Latch
LOW	0	1	Latch	Latch
LOW	1	0	Latch	Latch
LOW	1	1	Latch	Latch

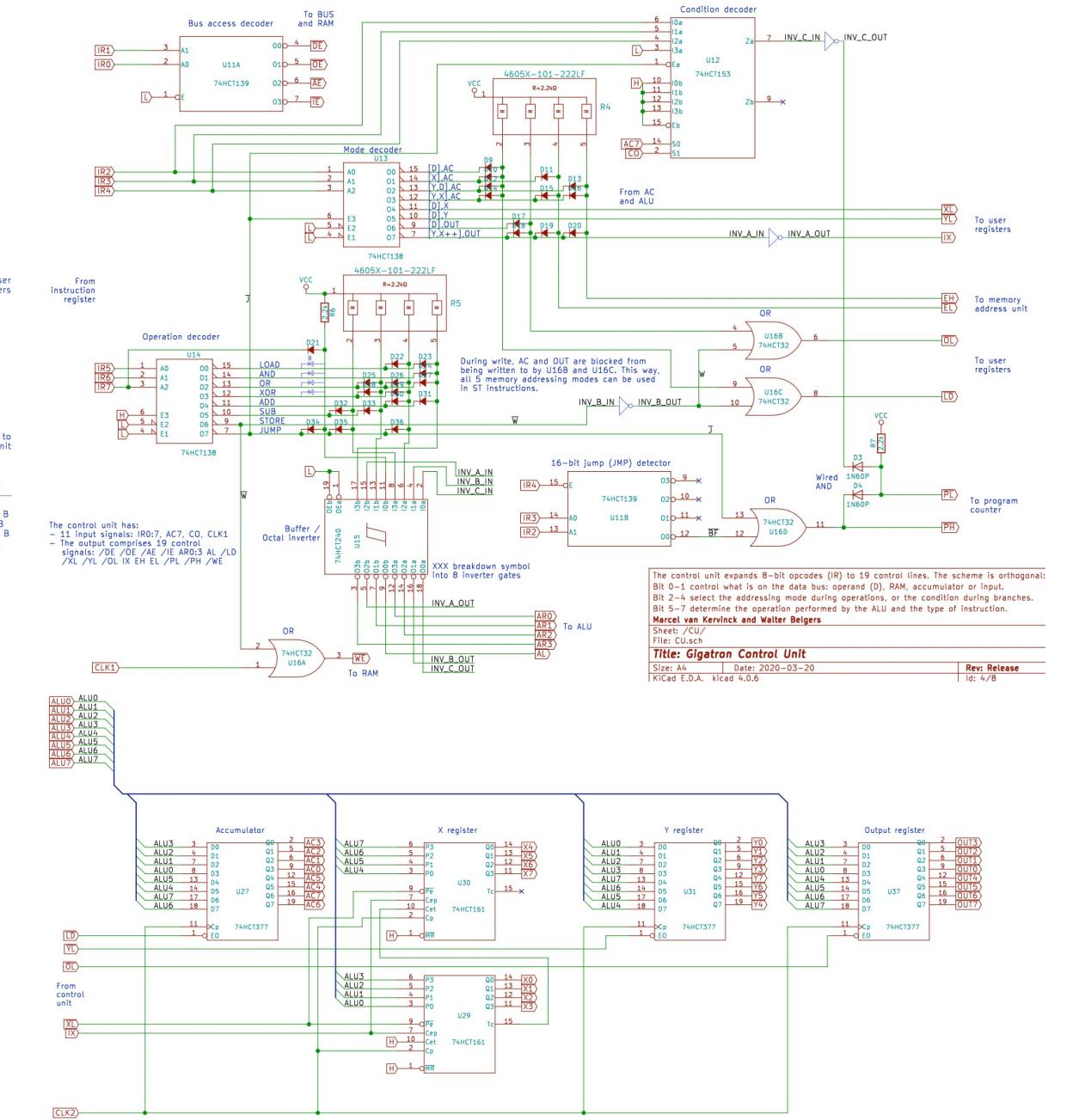
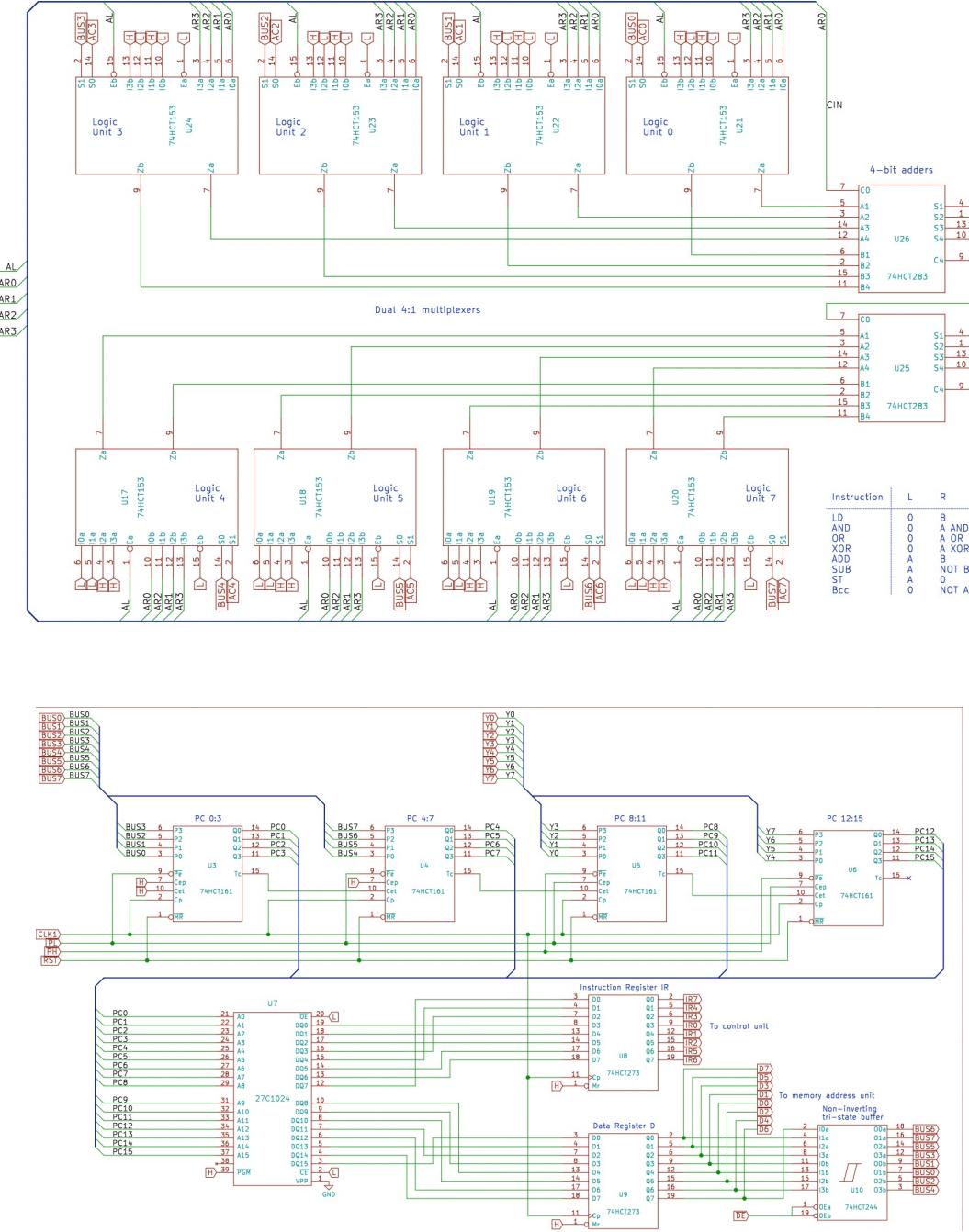
BCD Counter



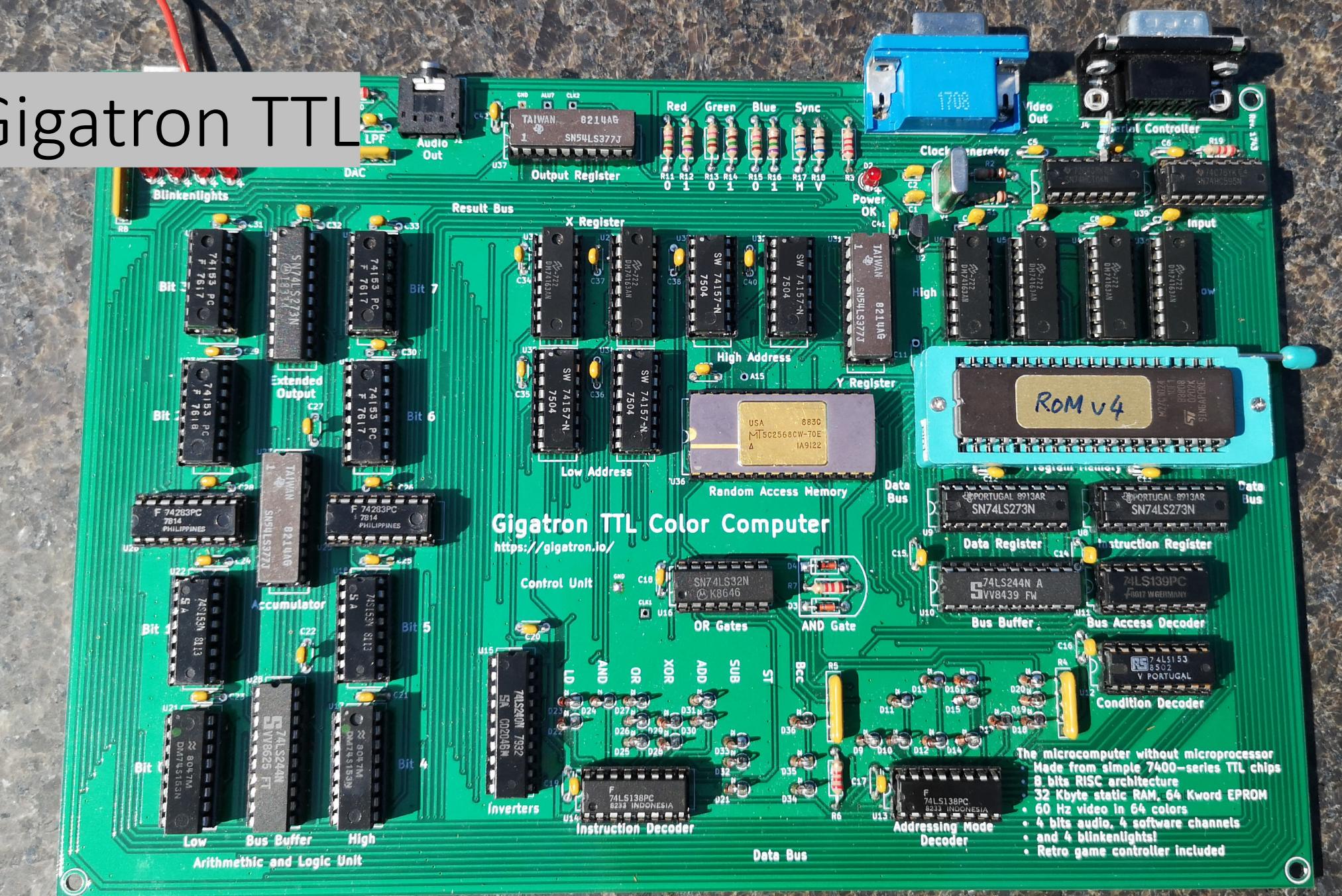
Input Pulses	D	C	B	A
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
0	0	0	0	0 (resets)

BDC to 7 segment decoder

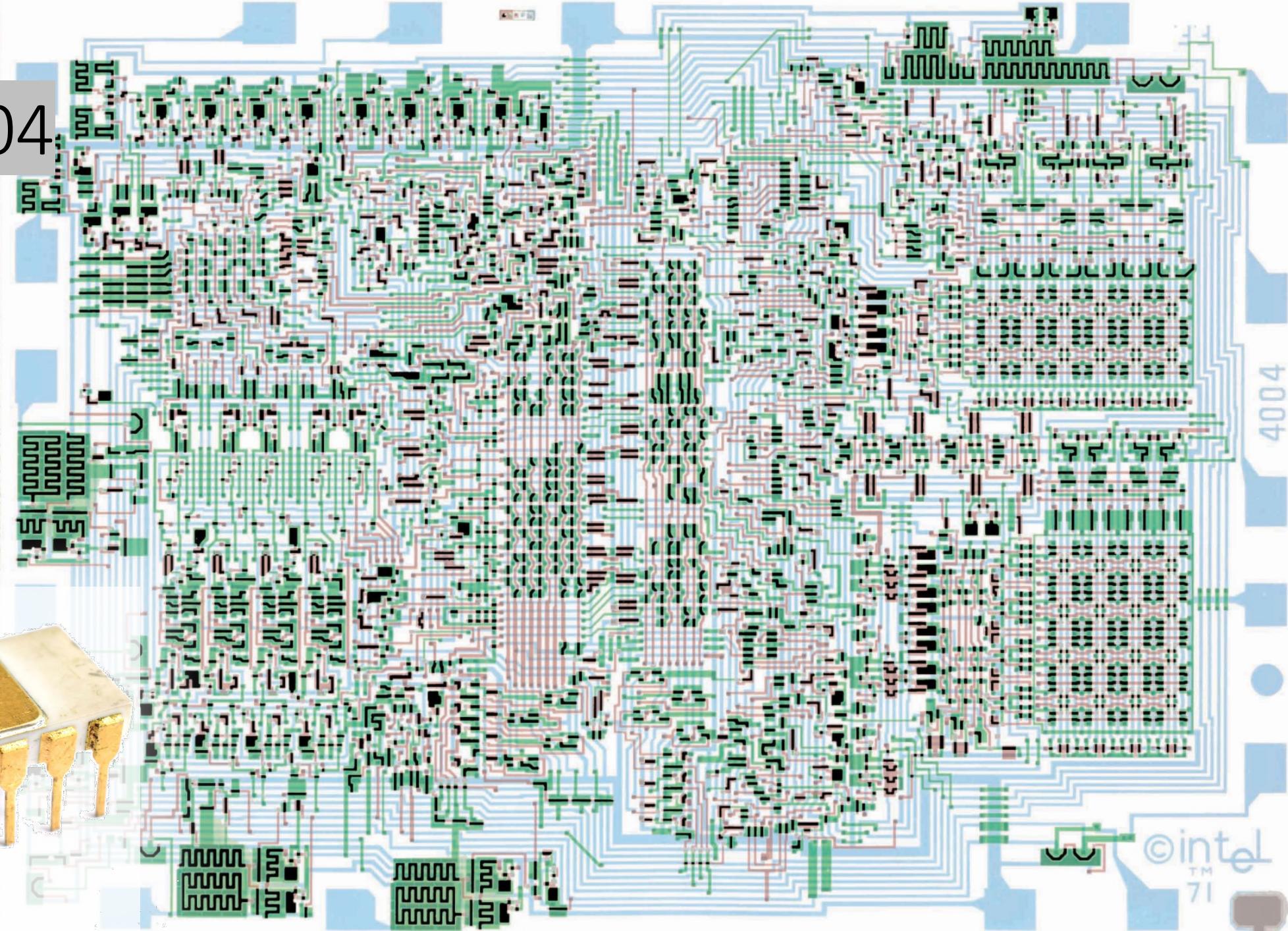




Gigatron TTL



Intel 4004





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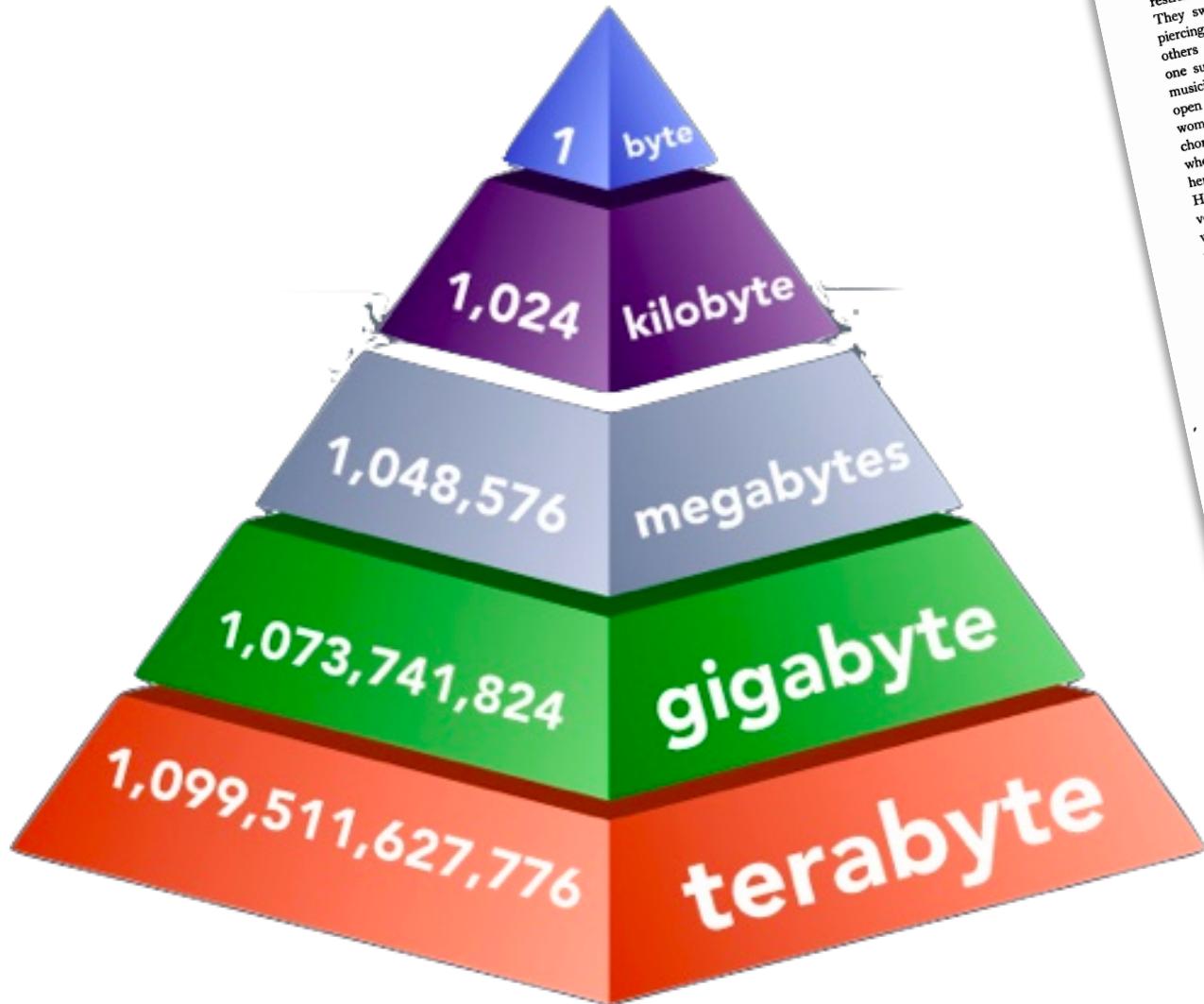
Regular ASCII Chart (character codes 0 - 127)							
000	<nul>	016 ► <dle>	032 sp	048 Ø	064 Ø	080 P	096 `
001 ☺	<soh>	017 ↵ <dc1>	033 !	049 1	065 A	081 Q	097 a
002 ☻	<stx>	018 ⇠ <dc2>	034 "	050 2	066 B	082 R	098 b
003 ♥	<etx>	019 !! <dc3>	035 #	051 3	067 C	083 S	099 c
004 ♦	<eot>	020 ¶ <dc4>	036 \$	052 4	068 D	084 T	100 d
005 ☢	<enq>	021 § <nak>	037 %	053 5	069 E	085 U	101 e
006 ☣	<ack>	022 - <syn>	038 &	054 6	070 F	086 V	102 f
007 •	<bel>	023 ↳ <eth>	039 ,	055 ?	071 G	087 W	103 g
008 ☻	<bs>	024 ↑ <can>	040 <	056 8	072 H	088 X	104 h
009 ☽	<tab>	025 ↓ 	041 >	057 9	073 I	089 Y	105 i
010 ☼	<lf>	026 → <eof>	042 *	058 :	074 J	090 Z	106 j
011 ☶	<vt>	027 ← <esc>	043 +	059 ;	075 K	091 [107 k
012 ☷	<np>	028 ← <fs>	044 ,	060 <	076 L	092 \	108 l
013 ☸	<cr>	029 ← <gs>	045 -	061 =	077 M	093]	109 m
014 ☹	<so>	030 ▲ <rs>	046 .	062 >	078 N	094 ^	110 n
015 ☺	<si>	031 ▼ <us>	047 /	063 ?	079 O	095 _	111 o
128 ☺	Ø	158 ×	172 %	186	200 ¶	214 í	220 ð
129 ☻	é	159 f	173 :	187]]	201 [215 î	229 ö
130 ☽	é	160 á	174 «	188 »	202 —	216 ï	230 µ
131 ☶	á	161 í	175 »»	189 ¢	203 —	217 „	231 þ
132 ☸	á	162 ó	176 »»	190 ¥	204 —	218 „	232 þ
133 ☹	ó	163 ú	177 »»	191 l	205 =	219 ■	233 ú
134 ☺	ò	164 ñ	178 »»	192 l	206 //	220 ■	234 ü
135 ☻	û	165 ñ	179 —	193 ±	207 ×	221 :	235 ù
136 ☽	û	166 ˜	180 —	194 †	208 ð	222 i	236 ˜
137 ☶	˜	167 ˜	181 à	195 †	209 ð	223 ■	237 ˜
138 ☸	ö	168 ˜	182 à	196 —	210 È	224 ó	238 —
139 ☹	ü	169 ®	183 à	197 †	211 È	225 ö	239 —
140 ☺	®	170 ~	184 ®	198 ä	212 È	226 ö	240 —
141 ☻	í	171 %	185 ¶	199 ñ	213 †	227 ö	241 ±
142 ☽	ø	172 0					255
143 ☶	ø						
144 ☸	ø						
145 ☹	æ						
146 ☺	æ						
147 ☻	œ						
148 ☽	œ						
149 ☶	œ						
150 ☸	œ						
151 ☹	œ						
152 ☺	œ						
153 ☻	œ						
154 ☽	œ						
155 ☶	œ						
156 ☸	œ						
157 ☹	œ						

bit

1	0	1	1	0	0	0	1
---	---	---	---	---	---	---	---

byte

Extended ASCII Chart (character codes 128 - 255)							
128 ☺	Ø	158 ×	172 %	186	200 ¶	214 í	220 ð
129 ☻	é	159 f	173 :	187]]	201 [215 î	229 ö
130 ☽	é	160 á	174 «	188 »	202 —	216 ï	230 µ
131 ☶	á	161 í	175 »»	189 ¢	203 —	217 „	231 þ
132 ☸	á	162 ó	176 »»	190 ¥	204 —	218 „	232 þ
133 ☹	ó	163 ú	177 »»	191 l	205 =	219 ■	233 ú
134 ☺	ò	164 ñ	178 »»	192 l	206 //	220 ■	234 ü
135 ☻	û	165 ñ	179 —	193 ±	207 ×	221 :	235 ù
136 ☽	û	166 ˜	180 —	194 †	208 ð	222 i	236 ˜
137 ☶	˜	167 ˜	181 à	195 †	209 ð	223 ■	237 ˜
138 ☸	ö	168 ˜	182 à	196 —	210 È	224 ó	238 —
139 ☹	ü	169 ®	183 à	197 †	211 È	225 ö	239 —
140 ☺	®	170 ~	184 ®	198 ä	212 È	226 ö	240 —
141 ☻	í	171 %	185 ¶	199 ñ	213 †	227 ö	241 ±
142 ☽	ø	172 0					255
143 ☶	ø						
144 ☸	ø						
145 ☹	æ						
146 ☺	æ						
147 ☻	œ						
148 ☽	œ						
149 ☶	œ						
150 ☸	œ						
151 ☹	œ						
152 ☺	œ						
153 ☻	œ						
154 ☽	œ						
155 ☶	œ						
156 ☸	œ						
157 ☹	œ						



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restrained enthusiasm catch from one bystander to another. They swing and bow to right and left, in slow time to the piercing treble of the Congo women. Some are responsive! others are competitive. Hear that bare foot slap the ground! one sudden stroke only, as it were the foot of a stag. The musicians warm up at the sound. A smiting of breasts with open hands begins very softly and becomes vigorous. The women's voices rise to a tremulous intensity. Among the chorus of Franc-Congo singing-girls is one of extra good voice, who thrusts in, now and again, an improvisation. This girl here, so tall and straight, is a Yaloff. You see it in her almost Hindu features, and hear it in the plaintive melody of her voice. Now the chorus is more piercing than ever. The women clap their hands in time, or standing with arms akimbo receive with faint courtesies and head-liftings the low bows of the men, who deliver them swinging this way and that.

See! Yonder brisk and sinewy fellow has taken one short, nervy step into the ring, chanting with rising energy. Now he takes another, and stands and sings and looks here and there, rising upon his broad toes and sinking and rising again, with what wonderful lightness! How tall and lithe he is. Notice his brawn shining through his rags. He too is a *candio*, and by the three long rays of tattooing on each side of his face, and Kiamba. The music has got into his feet. He moves off to the farther edge of the circle, still singing, takes the prompt hand of an unsmiling Congo girl, leads her into the ring, and, leaving the chant to the throng, stands her before him for the dance.

Will they dance to that measure? Wait! A sudden frenzy seizes the musicians. The measure quickens, the swaying, attitudinizing crowd starts into extra activity, the female voices grow Bam

