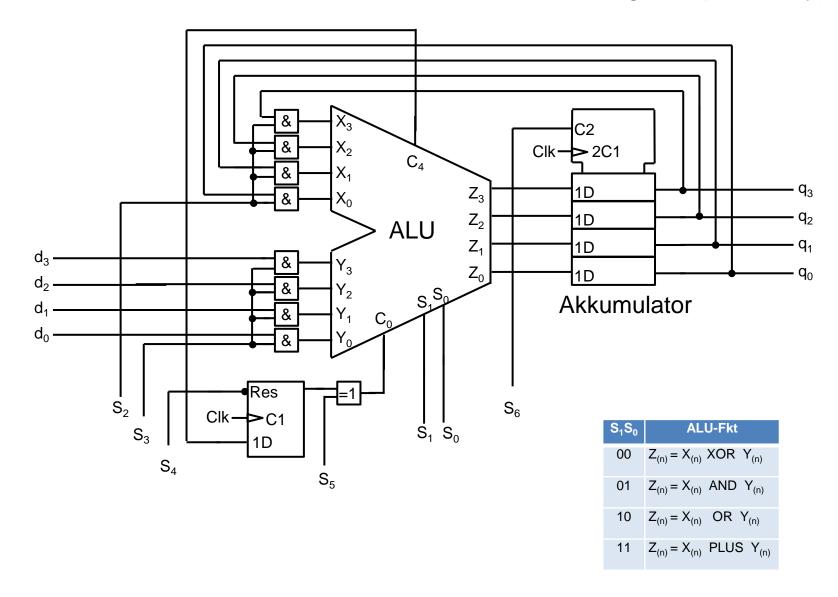
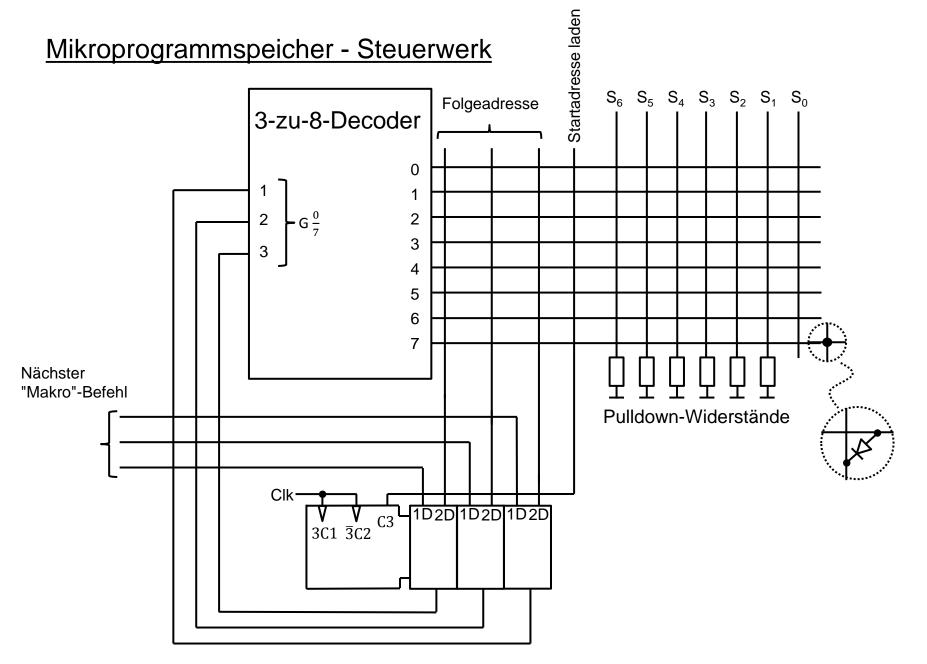
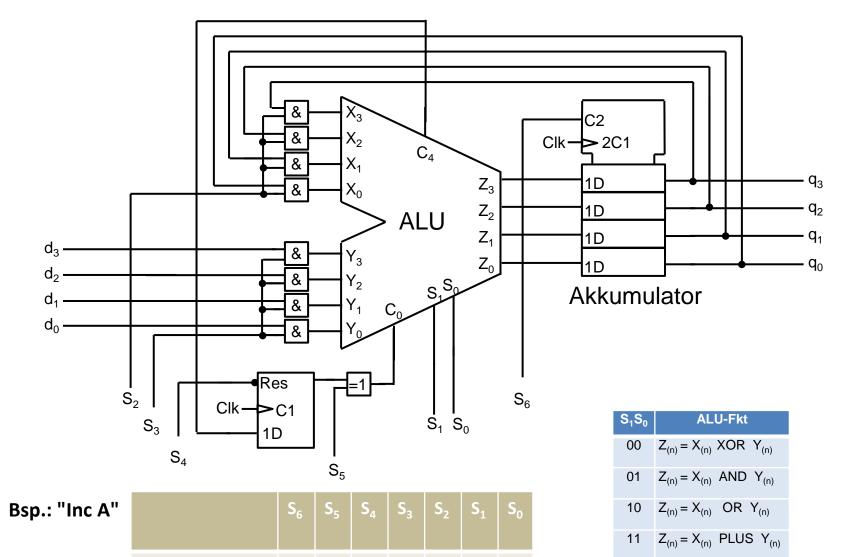
## 4-Bit-ALU mit Akkumulator und vereinfachtem Statusregister (nur Carry)





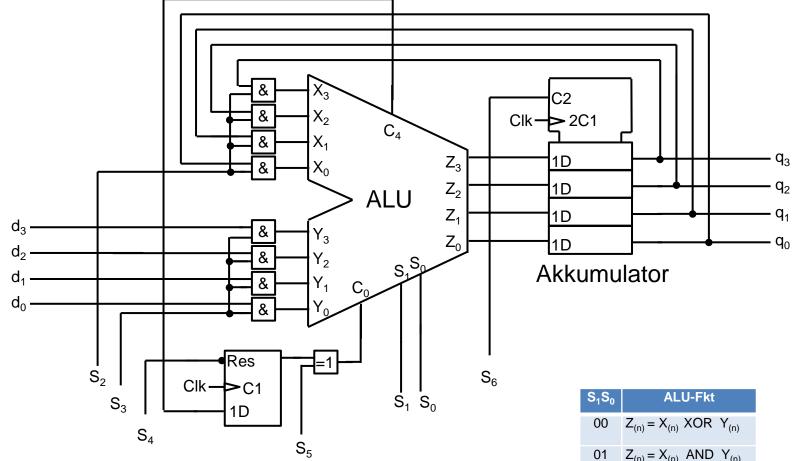
## 4-Bit-ALU mit Akkumulator und vereinfachtem Statusregister (nur Carry)



**Reset Carry** 

Add 1

## 4-Bit-ALU mit Akkumulator und vereinfachtem Statusregister (nur Carry)



Bsp.: "And A,d"

	J					
S <sub>6</sub>	<b>S</b> <sub>5</sub>	S <sub>4</sub>	S <sub>3</sub>	S <sub>2</sub>	S <sub>1</sub>	S <sub>0</sub>
0	0	1	1	1	0	1
1	1	1	0	0	1	1
	0	S <sub>6</sub> S <sub>5</sub>	S <sub>6</sub> S <sub>5</sub> S <sub>4</sub> 0 0 1	S <sub>6</sub> S <sub>5</sub> S <sub>4</sub> S <sub>3</sub> 0     0     1     1	S <sub>6</sub> S <sub>5</sub> S <sub>4</sub> S <sub>3</sub> S <sub>2</sub> 0     0     1     1     1	S <sub>6</sub> S <sub>5</sub> S <sub>4</sub> S <sub>3</sub> S <sub>2</sub> S <sub>1</sub> 0     0     1     1     1     0

S <sub>1</sub> S <sub>0</sub>	ALU-Fkt
00	$Z_{(n)} = X_{(n)} XOR Y_{(n)}$
01	$Z_{(n)} = X_{(n)}$ AND $Y_{(n)}$
10	$Z_{(n)} = X_{(n)}  OR  Y_{(n)}$
11	$Z_{(n)} = X_{(n)}$ PLUS $Y_{(n)}$

