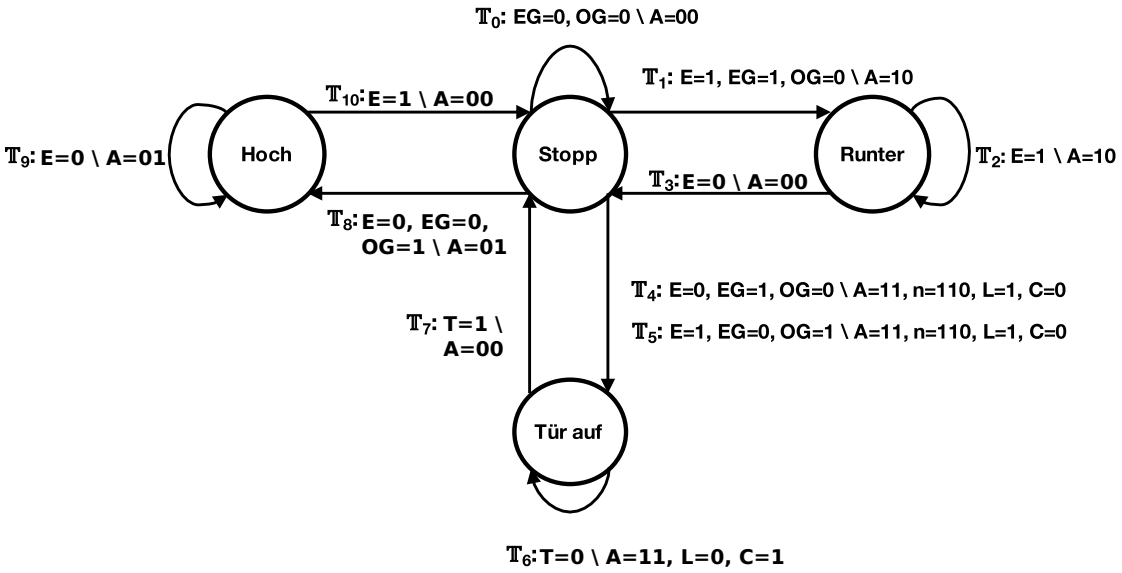
Grundlagen der Rechnerarchitektur

Tim Luchterhand, Paul Nykiel (Abgabegruppe 117)

28. Januar 2019

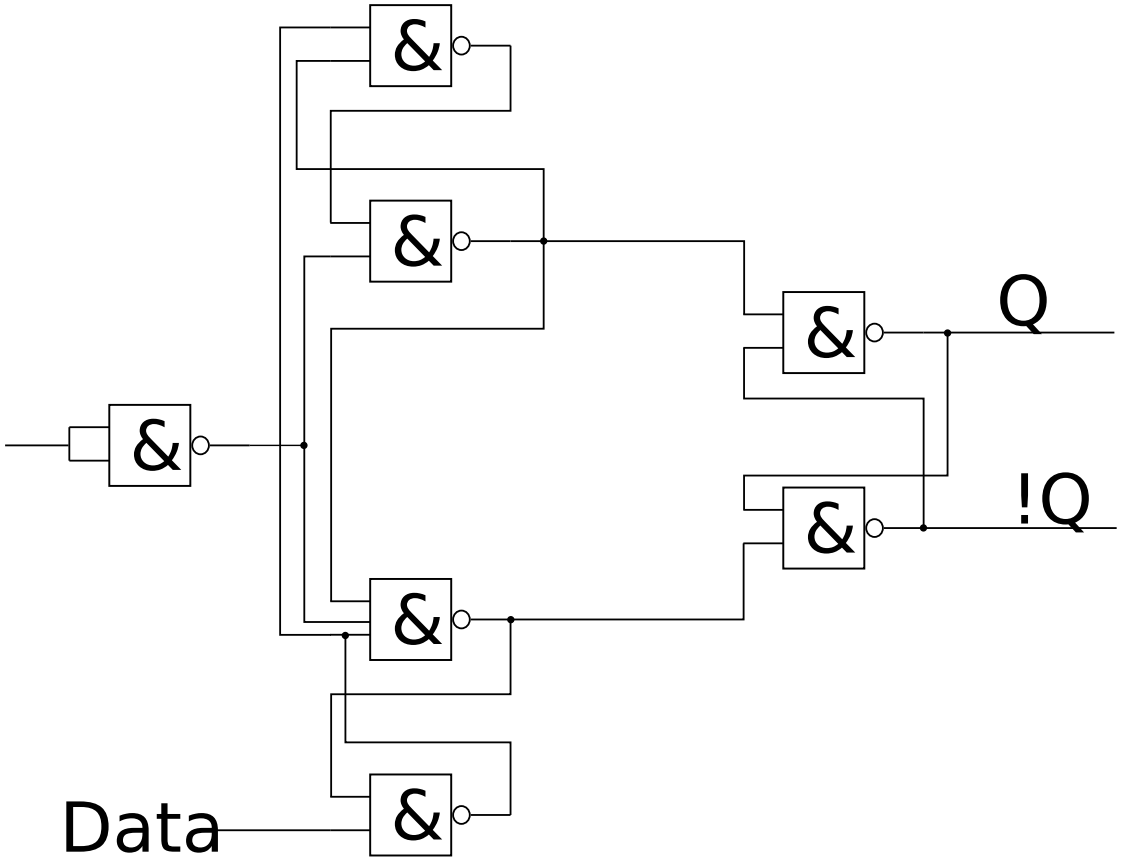
1



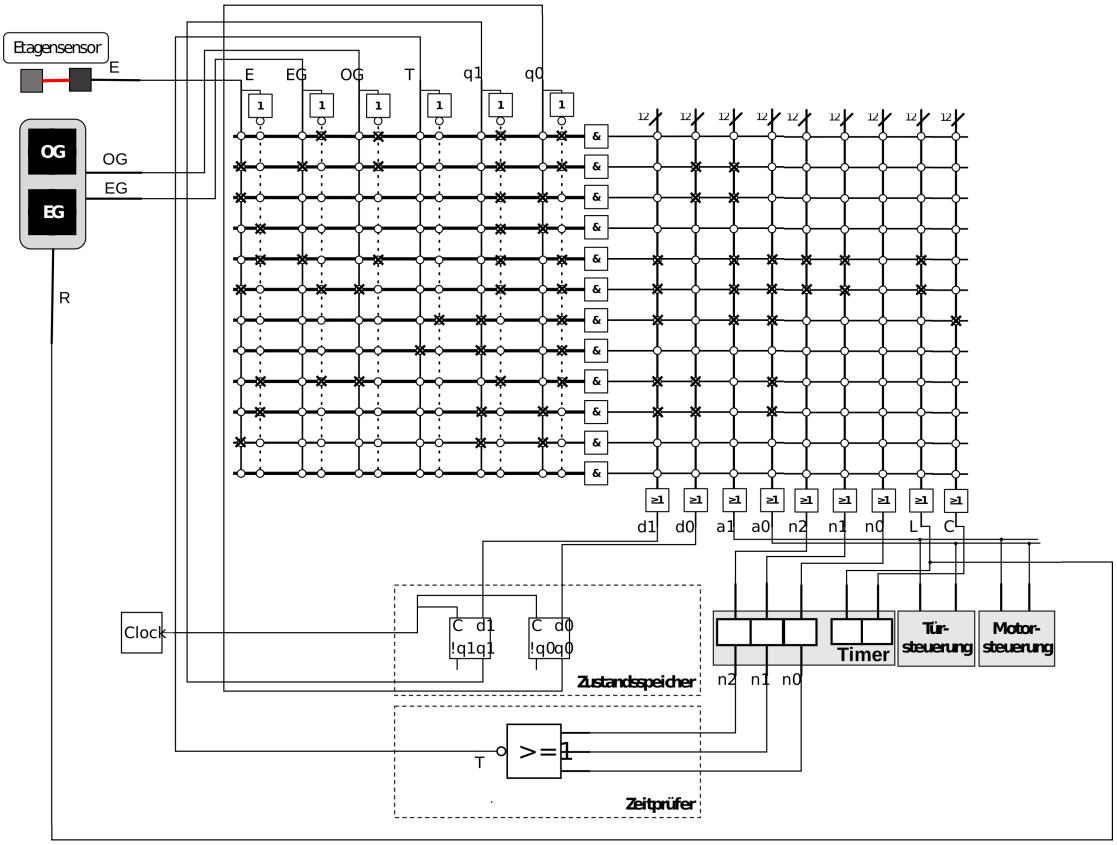
2

Transition	Etagen-sensor	Fahrstuhl-panel		Zeit-Prüfer	Zustand		Folge-zustand		Ausgang		Timer				
$\mathbb{T}$	E	EG	OG	T	q_1	q_0	d_1	d_0	a_1	a_0	n_2	n_1	n_0	L	C
$\mathbb{T}_0$	d	0	0	d	0	0	0	0	0	0	d	d	d	d	d
$\mathbb{T}_1$	1	1	0	d	0	0	0	1	1	0	d	d	d	d	d
$\mathbb{T}_2$	1	d	d	d	0	1	0	1	1	0	d	d	d	d	d
$\mathbb{T}_3$	0	d	d	d	0	1	0	0	0	0	d	d	d	d	d
$\mathbb{T}_4$	0	1	0	d	0	0	1	0	1	1	1	1	0	1	0
$\mathbb{T}_5$	1	0	1	d	0	0	1	0	1	1	1	1	0	1	0
$\mathbb{T}_6$	d	d	d	0	1	0	1	0	1	1	d	d	d	0	1
$\mathbb{T}_7$	d	d	d	1	1	0	0	0	0	0	d	d	d	d	d
$\mathbb{T}_8$	0	0	1	d	0	0	1	1	0	1	d	d	d	d	d
$\mathbb{T}_9$	0	d	d	d	1	1	1	1	0	1	d	d	d	d	d
$\mathbb{T}_{10}$	1	d	d	d	1	1	0	0	0	0	d	d	d	d	d

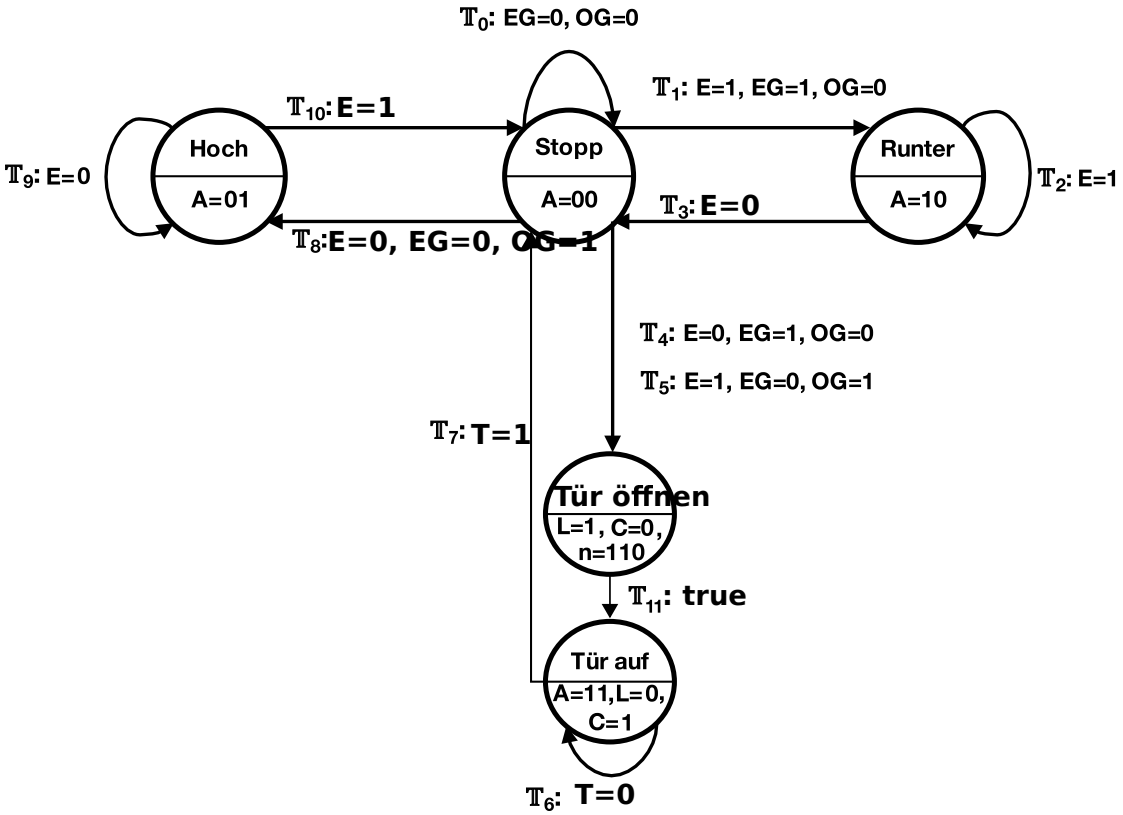
3



4


Etagensensor
E
OG
EG
R
E
EG
OG
T
q1
q0
d1
d0
a1
a0
n2
n1
n0
L
C
Clock
C d1
!q1q1
C d0
!q0q0
Zustandsspeicher
n2 n1 n0
Timer
Tür-
steuerung
Motor-
steuerung
T
>=1
Zeitprüfer

5


$\mathbb{T}_0$: EG=0, OG=0
$\mathbb{T}_1$: E=1, EG=1, OG=0
$\mathbb{T}_{10}$: E=1
Hoch
A=01
Stopp
A=00
Runter
A=10
$\mathbb{T}_9$: E=0
$\mathbb{T}_2$: E=1
$\mathbb{T}_3$: E=0
$\mathbb{T}_8$: E=0, EG=0, OG=1
$\mathbb{T}_4$: E=0, EG=1, OG=0
$\mathbb{T}_5$: E=1, EG=0, OG=1
$\mathbb{T}_7$: T=1
Tür öffnen
L=1, C=0,
n=110
$\mathbb{T}_{11}$: true
Tür auf
A=11,L=0,
C=1
$\mathbb{T}_6$: T=0

Transition	Etagen-sensor	Fahrstuhl-panel		Zeit-Prüfer	Zustand		Folge-zustand		Ausgang		Timer				
$\mathbb{T}$	E	EG	OG	T	q_1	q_0	d_1	d_0	a_1	a_0	n_2	n_1	n_0	L	C
$\mathbb{T}_0$	d	0	0	d	0	0	0	0	0	0	d	d	d	d	d
$\mathbb{T}_1$	1	1	0	d	0	0	0	1	1	0	d	d	d	d	d
$\mathbb{T}_2$	1	d	d	d	0	1	0	1	1	0	d	d	d	d	d
$\mathbb{T}_3$	0	d	d	d	0	1	0	0	0	0	d	d	d	d	d
$\mathbb{T}_4$	0	1	0	d	0	0	1	0	1	1	1	1	0	1	0
$\mathbb{T}_5$	1	0	1	d	0	0	1	0	1	1	1	1	0	1	0
$\mathbb{T}_6$	d	d	d	0	1	0	1	0	1	1	d	d	d	0	1
$\mathbb{T}_7$	d	d	d	1	1	0	0	0	0	0	d	d	d	d	d
$\mathbb{T}_8$	0	0	1	d	0	0	1	1	0	1	d	d	d	d	d
$\mathbb{T}_9$	0	d	d	d	1	1	1	1	0	1	d	d	d	d	d
$\mathbb{T}_{10}$	1	d	d	d	1	1	0	0	0	0	d	d	d	d	d