

note: Die Listung dieser Routine ist schwock, dafür braucht sie ober kein RAM.

Bitte noch unal schreiben wenn compute auch RAM besitet!

Stack Pointer wird zur Dortens peichtrums mißbrouncht da bein RAM/Stack vorhanden

ER SENDER. SR Tsendocade OKT 1014 1989 preprations: - Load accur with Palabyte - X will be sloved in SP temperarly and returned into Xafter transmition Hole nachsty Zeiden set port to Output Po - P2 - LDX#04 - ATN on (STX Pirection TAX Y=8+01 - Clear corry I if cary = 1 shen LDX# 07 LOX# 06 (CK=1) STXPORT - Wait NOPI losde UK. Zwengsweise in part - Wait MOP2 **ATYA = Ims ZMP NOPI Cont UOP22 16/2 NOP = 7 1 ms NOP3 2k NOP

- Input when not sending.

```
DD03 DIRECTION DD01 PORT 6000 START 6008 TEXT 602F READDATA 6048 LOOP1
604C SENDLOW 6064 SENDHIGH 6079 CONT 608D WAITTV 6092 LOOPTV 6099 WAITTI
609E LOOPTI 60A5 WAITTS 60AA LOOPTS 01
                       SER.SENDERV2.SRC
 MA
                 : NAME :
                 DATE:
                         OCTOBER 15TH 1989
                 ; AUTHOR: OLIVER KALTSTEIN
                ; VERSION: V2 (NEEDS RAM)
                 ; PREPARATION: LOAD ACCU WITH CHARACTER,
                             POSITION-COUNTER X WILL BE SAVED.
                 ORG$6000
6000
          DIRECTION = 56579
DD03
                    56577
DDØ1
          PORT
                =
6000 78 START SEI
6001 18
                 CLC
6002 D8
                CLD
6003 A200
                LDX #00
5 4C2F60
                JMP READDATA
6008 48414C TEXT B "HALLO THOMAS, HALLO OLIVER. ICH LEBE!
602F BC0860 READDATA LDY TEXT, X
6032 E8
                INX
6033 8A
               TXA
6034 48
                PHA
6035 98
                TYA
6036 A207
                LDX #07
6038 8E03DD STX DIRECTION P0 TO P2 ARE OUTPUTS
603B 20A560
                                      DELAY ALLOWS RECEIVER TO SYNCRONIZE I
                JSR WAITTS
F BYTE LOST
603E A204
                LDX #04
6040 8E01DD
               STX PORT
                            SET ATN
6043 209960
                JSR WAITTI
6043 209960 JSR WAI
6046 A008 LDY #08
6048 18 LOOP1 CLC
         ROL
6049 2A
604A B018
                BCS SENDHIGH
                                   IF MSB IS ONE IT WILL BE SEND AS HIGH
604C A204 SENDLOW LDX #04
                                      SET DATA LOW
E 8EØ1DD STX PORT
6051 EA
                NOP
6052 EA
                NOP
6053 EA
                NOP
             LDX #06
6054 A206
                                SET CLOCK HIGH
6056 8E01DD
                STX PORT
6059 208D60
                JSR WAITTV
605C A204
                LDX #04
605E 8E01DD
              STX PORT
6061 4C7960
                JMP CONT
6064 A205 SENDHIGH LDX #05
6066 8E01DD STX PORT
                            SET DATA HIGH BUT CLOCK LOW
6069 EA
                NOP
606A EA
               NOP
606B EA
                NOP
606C A207
               LDX #07
               STX PORT
                                     PUT CLOCK HIGH
606E 8E01DD
6071 208D60
             JSR WAITTV
6_14 A205
                LDX #05
6076 8E01DD STX PORT
6079 20A560 CONT JSR WAITTS
          DEY
607C 88
```

00

E AA

60AF 68

60B0 60

6086	EØ27		CPX	#39
6088	DØA5		BNE	READDATA
608A	400060		JMP	START
608D	48	WAITTV	PHA	
608E	8A		TXA	
608F	48		PHA	
6090	A2A0		LDX	#\$AØ
6092	CA	LOOPTV	DEX	
6093	DØFD		BNE	LOOPTV
6095	68		PLA	
6096	AA		TAX	
6 7	68		PLA	
6098	60		RTS	
6099	48	WAITTI	PHA	
609A	88		TXA	
609B	48		PHA	
609C	A240		LDX	#\$40
609E	CA	LOOPTI	DEX	
609F	DØFD		BNE	LOOPTI
60A1	68		PLA	
60A2	AA		TAX	
60A3	68		PLA	
60A4	60		RTS	
60A5	48	WAITTS	PHA	
60A6	88		TXA	
60A7	48		PHA	
60A8	A2FF		LDX	#\$FF
60AA	CA	LOOPTS	DEX	
60AB	DØFD		BNE	LOOPTS
60AD	68		PLA	
_			-	

TAX

PLA

RTS