

Adr. RAM

Mnemonic

(C) DE 1

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EPR0M- Programmierung MC 80.3x
=====
ab Version 3.0.

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***** SW-Service
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; Fassung 11/85 Bearb.: A. Schimpf / Gera 58-4190
; Fassung 02/90

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***** VEREINBARUNGSTEIL
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EPR: EQU 000E0H ;

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;UP's aus Betriebssystem

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OUT: EQU 00BBEH ;Text auf Display schreiben
WRN: EQU 00BC1H ;Text auf Display schreiben
TAB: EQU 00BCDH ;Tastatur abfragen
ZLE: EQU 00BD0H ;Zahl von Textpuffer lesen
BFE: EQU 00BD6H ;Bildfenster festlegen
LIY: EQU 00BE8H ;IY- Vektor laden
HBS: EQU 00BEBH ;Byte auf Textpuffer schreiben
CON: EQU 00BEEH ;Consoletreiber

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;AZ des Betriebssystems

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LZVT: EQU 0FB62H

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;ST08: EQU 0C870H ;STW für 2708

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;ST16: EQU 0CA32H ;STW für 2716

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;ST32: EQU 0CC8CH ;STW für 2732

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***** Arbeitzzellen des Programms
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ADPU: EQU 0F911H
KOPU: EQU 0F913H
TPUF: EQU 0F915H
FLAG: EQU 0F91BH
ETYP: EQU 0F91CH
RAMA: EQU 0F91EH
RAME: EQU 0F920H
ROMA: EQU 0F922H
ROME: EQU 0F924H
BYTE: EQU 0F926H
PTYP: EQU 0F928H
BTNT: EQU 0F929H
FEHZ: EQU 0F92BH

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| Adr. | RAM         | Mnemonic                         | (C) DE I                                          |
|------|-------------|----------------------------------|---------------------------------------------------|
|      |             | ***** H A U P T P R O G R A M M  |                                                   |
|      |             | =====                            |                                                   |
| 3000 | FD E3       | PARA: PUSH IY                    |                                                   |
| 3002 | DD E3       | PUSH IX                          |                                                   |
| 3004 | 21 15 F9    | ;Arbeitsbereich initialisieren   |                                                   |
| 3007 | 06 18       | LD HL,TPUF                       |                                                   |
| 3009 | 36 00       | LD B,18H                         |                                                   |
| 300B | 23          | PI00: LD N,000H                  |                                                   |
| 300C | 10 FB       | INC HL                           |                                                   |
| 300E | 1A          | DJNZ PI00                        |                                                   |
| 300F | 7E FF       | LD A,(DE)                        |                                                   |
| 3011 | C2 47 50    | CMP 0FFH                         |                                                   |
| 3014 | ED 53 13 F9 | JPNZ PART                        |                                                   |
| 3018 | 05          | LD (KOPU),DE                     | ; nur mit<br>; Parameterabfr.<br>; Kdo-pufferanf. |
| 3019 | 05          | PUSH DE                          |                                                   |
| 301A | 36 20       | EX DE,HL                         |                                                   |
| 301C | 23          | LD M,020H                        |                                                   |
| 301D | 22 11 F9    | INC HL                           |                                                   |
| 3020 | 18 2B       | LD (ADPU),HL                     | ;akt. Pos.                                        |
|      |             | JR PARO                          | <i>Los gehen!</i>                                 |
|      |             | ;Behandlung im Kern.modus        |                                                   |
| 3022 | 21 18 F9    | TST1: LD HL,FLAG                 |                                                   |
| 3025 | 0B 46       | BIT 0,M                          |                                                   |
| 3027 | 0B 06       | SET 0,M                          |                                                   |
| 3029 | 0B FE       | SET 7,M                          |                                                   |
| 302B | 75          | PUSH AF                          |                                                   |
| 302C | 2A 13 F9    | LD HL,(KOPU)                     | ;akt. Pos. erm.                                   |
| 302F | 23          | INC HL                           |                                                   |
| 3030 | 22 11 F9    | LD (ADPU),HL                     |                                                   |
| 3033 | E3          | PUSH HL                          |                                                   |
| 3034 | 05          | PUSH DE                          |                                                   |
|      |             | ;EPROM-Typ auf Display schreiben |                                                   |
| 3035 | ED 5B 1C F9 | LD DE,(ETYP)                     |                                                   |
| 3039 | CD 0C 35    | CALL HDS                         |                                                   |
| 303C | D1          | POP DE                           |                                                   |
| 303D | E1          | POP HL                           |                                                   |
| 303E | F1          | POP AF                           |                                                   |
| 303F | 2B 0C       | JRZ PARO                         |                                                   |
| 3041 | 2A 13 F9    | LD HL,(KOPU)                     | ;fertig                                           |
| 3044 | 36 FF       | LD M,0FFH                        |                                                   |
| 3046 | D1          | POP DE                           |                                                   |
| 3047 | DB E1       | PART: POP IX                     |                                                   |
| 3049 | FD E1       | POP IY                           |                                                   |
| 304B | E7          | DR A                             |                                                   |
| 304C | C9          | RET                              |                                                   |
|      |             | ;BIS: "EPROM-Typ angeben ..."    |                                                   |
| 304D | 21 0A 35    | PARO: LD HL,TKTA                 |                                                   |
| 3050 | CD D1 34    | CALL TAUS                        | ;ausschreiben                                     |
| 3053 | 11 07 18    | LD DE,01807H                     | ;Displaypos.                                      |
| 3056 | CD 57 34    | CALL Z4DE                        | ;4-st-hex., eing                                  |
| 3059 | 38 C7       | JRC TST1                         | ;Fehler                                           |

| Adr. | RAM         |       | Mnemonic     | (C) DE 1         |
|------|-------------|-------|--------------|------------------|
| 305B | 7C          |       | LD A,H       |                  |
| 305C | FE 27       |       | CMP 027H     |                  |
| 305E | DD 21 4D 30 |       | LD IX,PAR0   | ;Sprungadr.      |
| 3062 | 20 0D       |       | JRNZ PARF    | ;bei Fehler      |
| 3064 | 7D          |       | LD A,L       |                  |
| 3065 | FE 08       |       | CMP 008H     | ;2708 ?          |
| 3067 | 28 18       |       | JRZ PAR1     |                  |
| 3069 | FE 16       |       | CMP 016H     | ;2716 ?          |
| 306B | 28 17       |       | JRZ PAR1     |                  |
| 306D | FE 32       |       | CMP 032H     | ;2732 ?          |
| 306F | 28 13       |       | JRZ PAR1     |                  |
| 3071 | 11 10 17    | PARF: | LD DE,01710H | ;Position f.     |
| 3074 | 21 18 F9    |       | LD HL,FLAG   | ;Fehlerausschr.  |
| 3077 | CB FE       |       | SET 7,M      |                  |
| 3079 | 21 D1 35    |       | LD HL,TXFE   | ;Text: 'Fehler ! |
| 307C | 01 08 00    |       | LD BC,00008H |                  |
| 307F | CD BE 08    |       | CALL OUT     | ;ausschreiben    |
| 3082 | DD E9       |       | JMP (IX)     |                  |
| 3084 | 22 1C F9    | PAR1: | LD (ETYP),HL |                  |
| 3087 | CD F9 34    |       | CALL DPEI    |                  |
| 308A | CD DF 34    |       | CALL Z17L    | ;17. Zeile 18.   |
| 308D | 11 08 18    |       | LD DE,0180BH |                  |
| 3090 | CD BE 34    |       | CALL KOWR    | ;Komma schreiben |
| 3093 | 18 15       |       | JR PAR3      |                  |
| 3095 | 01 06 00    |       |              |                  |
| 3096 | ED 5B 1E F9 |       |              |                  |
| 309C | CD 3D 35    |       |              |                  |
| 309F | CB 4E       |       |              |                  |
| 30A1 | CB CE       |       |              |                  |
| 30A3 | 28 05       |       |              |                  |
| 30A5 | CB 86       |       |              |                  |
| 30A7 | 03 22 30    |       |              |                  |
| 3095 | 01 06 00    |       |              |                  |
| 3096 | ED 5B 1E F9 |       |              |                  |
| 309C | CD 3D 35    |       |              |                  |
| 309F | CB 4E       |       |              |                  |
| 30A1 | CB CE       |       |              |                  |
| 30A3 | 28 05       |       |              |                  |
| 30A5 | CB 86       |       |              |                  |
| 30A7 | 03 22 30    |       |              |                  |
| 30AA | 21 FA 35    |       |              |                  |
| 30AD | CD D1 34    |       |              |                  |
| 30B0 | ED 5B 1E F9 |       |              |                  |
| 30B4 | CD 0C 35    |       |              |                  |
| 30B7 | 11 0C 18    |       |              |                  |
| 30BA | CD 57 34    |       |              |                  |
| 30BD | 22 1E F9    |       |              |                  |
| 30C0 | 38 03       |       |              |                  |
| 30C2 | CD F9 34    |       |              |                  |
| 30C5 | 78          |       |              |                  |
| 30C6 | FE 04       |       |              |                  |
| 30C8 | 28 15       |       |              |                  |
| 30CA | 2A 11 F9    |       |              |                  |
| 30CD | 36 19       |       |              |                  |
| 30CF | 01 04 00    |       |              |                  |
| 30D2 | B7          |       |              |                  |
| 30D3 | ED 42       |       |              |                  |
| 30D5 | 22 11 F9    |       |              |                  |
| 30D8 | DD 21 AA 30 |       |              |                  |
| 30DC | 03 71 30    | PRF1: |              |                  |

; RAM-Anfangsadresse eingeben

TST2: LD BC,00006H  
LD DE,(RAMA)  
CALL TBIT  
BIT 1,M  
SET 1,M  
JRZ PAR3  
RES 0,M  
JMP TST1

; BIS: "RAM-Anfangsadresse ..."

PAR3: LD HL,TXRA  
CALL TAUS  
LD DE,(RAMA)  
CALL HDS  
LD DE,0180CH  
CALL Z40E  
LD (RAMA),HL  
JRC TST2  
CALL DPEI  
LD A,B  
CMP 004H  
JRZ PAR4  
LD HL,(ADPU)  
LD M,019H  
LD BC,00004H  
OR A  
SEC HL,BC  
LD (ADPU),HL  
LD IX,PAR3

JMP PARF