

Logische Gleichungen

$$F' = \underline{F} \underline{G} \underline{H} \underline{T3} \underline{P1} + \underline{F} \underline{G} \underline{H} \underline{T3} \underline{Q1} + \underline{be} \underline{T3} + \underline{Fc}$$

für Eingabe, um von #1 nach #3 zu gelangen

$$\underline{F'} = \underline{F} \underline{G} \underline{H} \underline{T3} + \underline{F} \underline{G} \underline{T3} \underline{P1} + \underline{F} \underline{H} \underline{T3} \underline{Q4} \underline{K} + \underline{Fd}$$

Wenn Stoppunkt. od. Stop-Cod. nach #1, nur von Tally (Flexo liest erst ganz ein)

$$G' = \underbrace{\underline{F} \underline{G} \underline{T3} \underline{Q1} \underline{Q2} \underline{Q3} \underline{Q4} \underline{be} \underline{Faf}}_{\text{#3 auf 1 W? bei J-B.}} + \underline{F} \underline{G} \underline{H} \underline{T3} \underline{K} \underline{Ga} + \underline{G} \underline{H} \underline{T3} \underline{K} \underline{Ga} \underline{Q2} \underline{be} \underline{bs} + \underline{G} \underline{H} \underline{T3} \underline{K} \underline{Ga} \underline{Q4} \underline{be} + \underline{F} \underline{G} \underline{T3} \underline{Q1} \underline{Q2} \underline{Q3} \underline{be} + \underline{F} \underline{G} \underline{T3} \underline{Q2} \underline{Q3} \underline{Q4} \underline{be} \underline{Faf} + \underline{Gc}$$

= Faf (wenn Faf = Gc und nach #2 verhandelt)
von (JL17) = P# bei

$$\underline{G'} = \underline{G} \underline{H} \underline{T3} + \underline{F} \underline{G} \underline{T3} + \underline{G} \underline{H} \underline{T3} \underline{Q3} \underline{P1}$$

Input gesetzt, um von #3 nach #4 zu kommen. von Tally mit Rp gemacht.

$$H' = \underline{F} \underline{G} \underline{H} \underline{T3} \underline{Q1} \underline{Q2} \underline{a9}$$

$$\underline{H'} = \underline{F} \underline{G} \underline{H} \underline{T3} + \underline{H} \underline{T3} \underline{K} \underline{Q4} + \underline{B6}$$

$$\underline{B6} = \underline{G} \underline{H} \underline{T3} \underline{Q3} \underline{P1}$$

$$\underline{Kc} = \underline{F} \underline{G} \underline{Q2}$$

$$\underline{Rw'} = \underline{F} \underline{G} \underline{H} \underline{V} + \underline{G} \underline{H} \underline{V} \underline{Q1} \underline{Q2} \underline{a9} + \underline{A} \underline{bro} + \underline{R} \underline{bro} [\underline{G} + \underline{H} + \underline{F} (\underline{Q1} + \underline{Q2} + \underline{Q3} \underline{Q4})]$$

$$\underline{Vw'} = \underline{L} (\underline{Q1} \underline{Q4} \underline{K} \underline{C} + \underline{Q1} \underline{Q4} \underline{K} \underline{C} + \underline{Q1} \underline{A} + \underline{Q4} \underline{A})$$

$$\underline{W} = \underline{F} \underline{G} \underline{H} \underline{Q1} \underline{Q2} \underline{Q3} + \underline{F} \underline{G} \underline{S2} \underline{Q1} \underline{Q2} \underline{Q3}$$

$$\underline{rl} = \underline{F} \underline{C} + \underline{H} \underline{C} + \underline{F} \underline{H} \underline{R}$$

$$\underline{Faf} = \underline{Ff} + \underline{Ft} + \underline{Fn} + \dots$$

Fluo I/O Tally I/O weitere (n'te) Größe

$$\underline{K'} = \underline{bQ} + \underline{T3} \underline{Faf} (\underline{F} + \underline{G} + \underline{R} + \underline{Q1} + \underline{Q2} + \underline{Q3} + \underline{Q4}) (\underline{F} + \underline{G} + \underline{R} + \underline{Q1} + \underline{Q2} + \underline{Q3} + \underline{Q4})$$

$$\underline{Aw'} = \underline{Acl} + \underline{Acl} = \underline{F} \underline{G} \underline{Q1} (\underline{Faf} + \underline{Q1} \underline{Q2} \underline{Q3} \underline{Q4}) (\underline{K} \underline{P4} + \underline{K} \underline{P6}) \text{ Shiften in Accu}$$

$$\underline{i} = \underline{icl} + \underline{icl} = \underline{F} \underline{G} (\underline{Faf} + \underline{Q1} \underline{Q2} \underline{Q3} \underline{Q4})$$

$$\underline{Pld} = \underline{P2d} = \underline{P3d} = \underline{P4d} = \underline{P5d} = \underline{P6d} = \underline{F} \underline{G} \underline{T3} \underline{Q1} \underline{Q2} \underline{Q3} \underline{Q4} \underline{Faf} \underline{be}$$

Rücksetze für P-FF in #3 bei 1W? J-B. f.

$$7 \times P1b = P5a = P6a = ia = Ga = \underline{Faf}$$

$$T3 = S1 S3$$

$$i = ia \underline{G} \underline{H} S2 S3 + ic^1$$

2 x F3 spur *T = 94 (Faf + 2-0.1)*

$$P1' = \underline{G} i r1 + G i A + H \underline{P1} T3 + Plc$$

vom Leser (Tally d. Plc)

$$V1 = \underline{EC} + 14C + \underline{FHR}$$

$$\underline{P1}' = \underline{G} i \underline{r1} + G i \underline{A} + H P1 T3 + G P1 T3 Plb + Pld$$

Faf

$$P2' = i P1 + P2c$$

Satz von Leschkehoff *Flexo od. Tally über* *P* oder Rs 1.6* *auf 9A-1*

$$\underline{P2}' = i \underline{P1} + P2d$$

$$P3' = i P2 + P3c$$

$$\underline{P3}' = i \underline{P2} + P3d$$

$$P4' = i P3 + P4c$$

$$\underline{P4}' = i \underline{P3} + P4d$$

$$P5' = i P4 + P5c + G \underline{H} T3 V P5a + B5$$

$$\underline{P5}' = i \underline{P4} + P5d + G \underline{H} T3 \underline{V} P5a$$

$$P6' = i P5 + P6c + F G \underline{H} T3 A P6a + H T3 P1 \underline{Q3}$$

$$A + H T3 P1 \underline{Q3} A^*$$

$$\underline{P6}' = i \underline{P5} + P6d + F G \underline{H} T3 \underline{A} P6a + H T3 \underline{P1} \underline{A} \underline{Q3} +$$

$$H T3 P1 \underline{Q3} \underline{A}^* + B5 = \underline{F6} K Q3 Faf$$

$$Q1' = a 11 R + G \underline{H} T3 \underline{Q1} \underline{Q2} \underline{Q3} \underline{Q4} (R \underline{C} + P1 \underline{Tb1} + P2$$

$$\underline{Tb2} + P3 \underline{Tb3} + P4 \underline{Tb4}) \underline{Faf} \underline{To}$$

$$\underline{Q1}' = a 11 \underline{R} + bq + G \underline{H} T3 Q1$$

$$Q2' = a 11 Q1 + \underline{F} \underline{G} \underline{H} bs + FG T3 \underline{Q1} \underline{Q2} (Q1 + Q3 +$$

$$Q4 + P1 + P2 + P3 + P4 + P5 + P6)$$

Ende 94 *keine Einz. Op.*

$$\underline{Q2}' = a 11 \underline{Q1} + \underline{H}' O1 + G T3 Q1 O1 + G T3 \underline{Q1}$$

$$Q2 \underline{Q3} \underline{Q4} \underline{O1} + To$$

Einsch. *E/P*

$$Q3' = a \text{ 11 } Q2 + G \text{ T3 } Q1 \text{ Q2 } Q3 \text{ Q4}$$

$$Q3' = a \text{ 11 } Q2 + bq$$

$$Q4' = a \text{ 11 } Q3$$

$$Q4' = a \text{ 11 } Q3 + bq + T3 \text{ Q1 } Q2 \text{ Q3 } A + T3 \text{ Q1 } Q2 \text{ Q3 } R \text{ T4}$$

$$a9 = Q3 + Q4$$

$$a11 = \overbrace{F \text{ G } H}^{\phi^3} \overbrace{S1 \text{ S2 } S3}^{\text{Befehlzeit}} bq \text{ Faf}$$

$$B5 = F \text{ G } K \text{ Q3 } \text{Faf}$$

$$Aw' = F \text{ G } H \text{ Q2 } \overbrace{Q3 \text{ Q4}}^E V \left(\overbrace{Q1 + A}^B + \overbrace{H \text{ A } To}^{T,U,P,R,Y,Z} \right) \\ \left[\overbrace{F + G + Q1}^{P,H} \overbrace{Q3 \text{ Q4}}^{M,N,D} + T3 \text{ Q1 } Q2 \text{ a9} + Q2 (Q3 + Q4) \right. \\ \left. \text{Faf} \right] + Acl + [B1 (L \text{ I1 } I2 + L \text{ I1 } I2 + L \text{ I1 } I2 + L \text{ I1 } I2)]$$

$$B1 = H \text{ T3} + H \text{ P1} + \overbrace{F \text{ G } H}^{A,S} + F \text{ G } Q1 \text{ Q2 } Q3$$

$$Cw' = F \text{ S2 } C \text{ brc } (Q1 + Q2 + Q3 + Q4) + G \text{ S2 } C \text{ brc} + \\ H \text{ C } \text{brc} + G \text{ S2 } C \text{ brc } (F + T3 + R + Q1 + Q2 + Q3 + Q4 + \text{Faf} + To) + F \text{ G } H \text{ S2 } C \text{ K} + F \text{ G } H \text{ S2 } C \text{ K} + \\ \text{Vorgabe} \text{ } \text{brc} + G \text{ H } S1 \text{ S2 } S3 + F \text{ G } T3 \text{ Q1 } Q2 \text{ Q3} \\ (a5 + a6 + a7 + a8) * F \text{ G } H \text{ T3 } Q1 \text{ Q2 } Q3 \text{ Q4 } R + \\ F \text{ G } H \text{ T3 } Q3 \text{ P1 } P6 \text{ A} + F \text{ G } H \text{ T3 } Q3 \text{ P1 } P6 \text{ A} + Se + Sm \\ Se = FGH \text{ S1 } S2 S3 S4 \quad Sa = FGH \text{ S1 } S2 S3 S4 = (\text{Mod. 81 nur}) \quad \text{nur bei Mod 81}$$

$$I1 = F \text{ G } H \text{ A}^* \text{ P5} + G \text{ H } Q3 \text{ P5 } A^* + F \text{ G } P1 \text{ Q3 } A + \\ F \text{ G } P1 \text{ Q3 } A + F \text{ G } P1 \text{ S1 } S3 \text{ Q3 } P6 + F \text{ G } H \text{ A}^* + \\ H \text{ P1 } Q3 \text{ A}^* + F \text{ H } Q3 \text{ A}^* + G \text{ H } P1 \text{ Q3 } A^* + H \text{ A}$$

$$I2 = F \text{ G } H \text{ P5 } P6 + F \text{ G } H \text{ P5 } P6 + H \text{ P1 } Q3 \text{ R} + G \text{ H } P1 \\ P6 \text{ R} + G \text{ H } P1 \text{ Q3 } A + F \text{ H } P1 \text{ Q3 } P5 + H \text{ P1 } Q3 \text{ P5 } P6 + H \text{ V}$$

$$K' = G \text{ H } S2 \text{ C } \text{Faf} (F + Q3) + H \text{ S1 } S2 \text{ r1} + H \text{ S1 } S2 \text{ S3 } r1 + \\ G \text{ H } S1 \text{ S2 } S3 \text{ r1 } \text{Faf} + G \text{ H } S1 \text{ S2 } S3 \text{ r1 } \text{Faf} + F \text{ G } T3 \\ R \text{ Q1 } Q2 \text{ Q3 } Q4 \text{ Faf} + F \text{ G } T3 \text{ R } Q1 \text{ Q2 } Q3 \text{ Q4 } \text{Faf}$$

$$brc = \text{ Taste "Zähler löschen" / R füllen } \text{ bei 6-Dit Input}$$

$$L' = W + F G Q2 + \beta_3 (a5 + a7) \\ (\underline{S} \ I1 \ I2 \ \underline{L} + S \ \underline{I1} \ I2 \ \underline{L})$$

$$\underline{L}' = \beta_3 + Q2 (Q1 + Q3) (a6 + a8)$$

$$S = \underline{H} \ Q4 + H \ \underline{Q3} \ \underline{P5} \ \underline{P6} + H \ \underline{Q3} \ P5 \ P6 + \underline{F} \ H \ Q3 + \underline{F} \ G \ H$$

$$a5 = \underline{S} \ I1 \ I2 \ \underline{L}$$

$$a6 = S \ I1 \ \underline{I2} \ L$$

$$a7 = S \ \underline{I1} \ I2 \ \underline{L}$$

$$a8 = \underline{S} \ \underline{I1} \ \underline{I2} \ L$$

$$\beta_3 = \underline{T3} + H \ Q3 \ \underline{P1}$$

$$\checkmark Fc = \overbrace{(\underline{JL} \ 12)}^{P^2 \text{ vom Flexo.}} T3 \ \underline{Sc} \ \underline{Sk} + \overbrace{F \ G \ T3 \ Rp \ \underline{Sc} \ \underline{Cd} \ Ft \ \underline{Sk}}^{\substack{\text{kein Stop-Code} \\ \text{kein WR, RT fah} \\ \text{= Dt} \\ \text{kein Code-Delte} \\ \text{sonst bei Tally an}}}} + \dots$$

$$\underline{F}' = Fd$$

$$Fd = F \ G \ T3 \ (\underline{Sc} + \underline{Cd} + \underline{Sk}) (Ff + Ft)$$

$$Gc = \overbrace{(\underline{JL} \ 11)}^{\text{vom Flexo.}} F \ G \ T3 + F \ G \ T3 \ Rp \ Ft$$

$$Ff' = \overbrace{F \ G \ T3}^{\beta_3} \ \overbrace{\underline{P1} \ \underline{P2} \ \underline{P3} \ \underline{P4} \ P5}^{0200} \ \overbrace{Q1 \ Q2 \ Q3 \ Q4}^{P\text{-Bef}} \ \underline{be} \ \underline{Faf} + bQ + \\ F \ G \ T3 \ \underline{P1} \ \underline{P2} \ \underline{P3} \ \underline{P4} \ P5 \ \overbrace{Q1 \ Q2 \ Q3 \ Q4}^{J\text{-Bef}} \ \underline{be} \ \underline{Faf}$$

$$Ff' = \overbrace{F \ G \ T3}^{\beta_3} \ \overbrace{Q3}^{0200} \ \underline{Xs} \ \underline{Sr'} \ \underline{bQ} + X + To$$

$$Xs = \text{vom Flexo. (JL1-22) (KRC-21/22) (KOC-22/21) (TB6) an Maschine}$$

$$Ft' = F \ G \ T3 \ \underline{P1} \ \underline{P2} \ \underline{P3} \ \underline{P4} \ \underline{P5} \ \underline{Q1} \ \underline{Q2} \ \underline{Q3} \ \underline{Q4} \ \underline{be} \ \underline{Faf}$$

$$\underline{Ft'} \ \underline{X'} = F \ G \ T3 \ Sc \ \underline{Xp} + To$$

$$Rp = Xp \ Di$$

$$Dt = Rp \quad Dt = Xp \ Di \quad \left. \begin{array}{l} \text{zur Tally-Kuppl. Dt = Kuppl.-Treiber} \\ \text{läuft wie Xp, wenn Di da} \end{array} \right\}$$

$$Sc = P1 \ \underline{P2} \ \underline{P3} \ \underline{P4} \ \underline{P5} \ \underline{P6} = \text{Stop-Code}$$

$$Cd = P1 \ P2 \ P3 \ P4 \ P5 \ P6 = \text{Code-delete}$$

$$Di' = F \ G \ \underline{Xp} \ Ft = \text{wenn Ft (Tally) da, immer da, bis Faf}$$

$$\underline{Di'} = \underline{Faf}$$

$$Xp = \text{astabiler Multivibrator (wie für 2) für Input-Tally}$$

$$JL = \text{von Flexo-Leitungen}$$

für Sr'
bzw. Sp' →

setzt das one shot Sr (50ms)
↓
von Flexo, ~~ist immer da, wenn der Lenz steht~~
~~ist immer da, wenn der Lenz steht~~ (von Relais)

Sr = aktiviert (über Relais)
Lenzschalt. von Flexo, wenn
Ff da.

$$Sr^* = F \underline{Q1} Xs \underline{bQ} Ff$$

$$X' = \underline{F} \underline{G} T3 \underline{Tx} (JL 33) Q3 Ff$$

$$\underline{X'} = F + G + \underline{T3} + Tx + (\underline{JL 33}) + \underline{Q3} + \underline{Ff}$$

$$Tp1 = X P1$$

$Ff = P0200 = Flexo$
 $Fy = P0600 = Stanza$ } Ausgabe

$$Tp2 = X P2$$

$$Tp3 = X P3$$

$$Tp4 = X P4$$

$$Tp5 = X P5$$

$$Tp6 = X P6$$

$$Tx = X JL 7$$

$$Sk = \underline{P5} \underline{P6} K$$

bei 4-Bit Znp. wenn Steuersfunktion (W/L, fah. Recht, etc.)

Kontrollzeichen in 4-Bit Zustand

$$Gc = F \underline{G} T3 Fy \underline{bs} \underline{Rp} +$$

$$E/A-2 \rightarrow Fc = \underline{F} \underline{G} T3 \underline{Q3} Fy Rp \underline{Sk} \underline{Cd} \underline{Tpg} + (\text{Stanza bedingung})$$

$$Fd = F \underline{G} T3 Fy (Cd + Sc + Sk)$$

$$Fy' = \begin{matrix} 02 & 7\text{-Bit} & 0600 \\ F \underline{G} T3 \underline{Q1} Q2 \underline{Q3} \underline{Q4} \underline{P1} \underline{P2} \underline{P3} P4 P5 \underline{be} \underline{Faf} + \\ F \underline{G} T3 Q1 Q2 \underline{Q3} \underline{Q4} \underline{P1} \underline{P2} \underline{P3} P4 P5 \underline{be} \underline{Faf} + \\ Faf \ bs \ bQ \end{matrix}$$

$$\underline{Fy'} = \underline{F} \underline{G} T3 \underline{Q3} \underline{bs} \underline{Rp} Sc + To + Pp$$

↑
To: E/A

$$\underline{Tr1} = \underline{Q3} Rp Fy \underline{Tpg}$$

$$Dtl = \underline{Tr1}$$

$$Np^* = Rp$$

$$Rp^* = \underline{Xpg} \underline{Np} \underline{Xp} + \underline{Xp} \underline{Mp} Fy \underline{G} T3$$

$$\underline{R_p} = X_p$$

$$T_{pg} = \underline{X_{pg}} R_p + Q_3 F_y R_p \underline{T_{pg}}$$

$$\underline{T_{pg}} = \underline{X_p}$$

$$P_p = Q_3 F_y R_p \underline{T_{pg}}$$

$$S_c = P_1 \underline{P_2} \underline{P_3} \underline{P_4} \underline{P_5} \underline{P_6}$$

$$C_d = P_1 P_2 P_3 P_4 P_5 P_6$$

$$S_k = K \underline{P_5} \underline{P_6}$$

$$T_{pa} = P_p P_1$$

$$T_{pb} = P_p P_2$$

$$T_{pc} = P_p P_3$$

$$T_{pd} = P_p P_4$$

$$T_{pe} = P_p P_5$$

$$T_{pf} = P_p P_6$$

$$\underline{T_{pa}} = \underline{X_p}$$

$$\underline{T_{pb}} = \underline{X_p}$$

$$\underline{T_{pc}} = \underline{X_p}$$

$$\underline{T_{pd}} = \underline{X_p}$$

$$\underline{T_{pe}} = \underline{X_p}$$

$$\underline{T_{pf}} = \underline{X_p}$$

be = Taste Befehl ausführen

bs = Startsignal

b_q = Eingabe v. Hand

To = Taste E/A

Logische Gleichungen *Normal LSP-2A*

$$F' = \underline{F} \underline{G} \underline{H} \underline{T3} \underline{P1} + \underline{F} \underline{G} \underline{H} \underline{T3} \underline{Q1} + \underline{be} \underline{T3} + \underline{Fc}$$

Setzer von Eingabe um von 41 nach 93

$$\underline{F}' = \underline{F} \underline{G} \underline{H} \underline{T3} + \underline{F} \underline{G} \underline{T3} \underline{P1} + \underline{F} \underline{H} \underline{T3} \underline{Q4} \underline{K} + \underline{Fd}$$

Wenn Steuerfunktion oder Stopcod. noch 41 - Bei Stopcod. noch 41

$$\underline{G}' = \underline{F} \underline{G} \underline{T3} \underline{Q1} \underline{Q2} \underline{Q3} \underline{Q4} \underline{be} \underline{Faf} + \underline{F} \underline{G} \underline{H} \underline{T3} \underline{K} \underline{Ga} \underline{be} +$$

φ3 auf 1Wart bei J-Bef

$$\underline{G} \underline{H} \underline{T3} \underline{K} \underline{Ga} \underline{Q2} \underline{be} \underline{bs} + \underline{G} \underline{H} \underline{T3} \underline{K} \underline{Ga} \underline{Q4} \underline{be} + \underline{F} \underline{G} \underline{T3} \underline{Q1} \underline{Q2} \underline{Q3} \underline{be} + \underline{F} \underline{G} \underline{T3} \underline{Q2} \underline{Q3} \underline{Q4} \underline{be} \underline{Faf} + \underline{Gc}$$

von Fat (Seite 2)

Ges. verhindert bei J-Bef. nach P2

$$\underline{G}' = \underline{G} \underline{H} \underline{T3} + \underline{F} \underline{G} \underline{T3} + \underline{G} \underline{H} \underline{T3} \underline{Q3} \underline{P1}$$

$$\underline{H}' = \underline{F} \underline{G} \underline{H} \underline{T3} \underline{Q1} \underline{Q2} \underline{a9}$$

$$\underline{H}' = \underline{F} \underline{G} \underline{H} \underline{T3} + \underline{H} \underline{T3} \underline{K} \underline{Q4} + \underline{B6}$$

$$\underline{B6} = \underline{G} \underline{H} \underline{T3} \underline{Q3} \underline{P1}$$

$$\underline{Kc} = \underline{F} \underline{G} \underline{Q2}$$

$$\underline{Rw}' = \underline{F} \underline{G} \underline{H} \underline{V} + \underline{G} \underline{H} \underline{V} \underline{Q1} \underline{Q2} \underline{a9} + \underline{A} \underline{brc} + \underline{R} \underline{brc} [\underline{G} + \underline{H} + \underline{F} (\underline{Q1} + \underline{Q2} + \underline{Q3} \underline{Q4})]$$

$$\underline{Vw}' = \underline{L} (\underline{Q1} \underline{Q4} \underline{K} \underline{C} + \underline{Q1} \underline{Q4} \underline{K} \underline{C} + \underline{Q1} \underline{A} + \underline{Q4} \underline{A})$$

$$\underline{W} = \underline{F} \underline{G} \underline{H} \underline{Q1} \underline{Q2} \underline{Q3} + \underline{F} \underline{G} \underline{S2} \underline{Q1} \underline{Q2} \underline{Q3}$$

$$\underline{rl} = \underline{F} \underline{C} + \underline{H} \underline{C} + \underline{F} \underline{H} \underline{R}$$

$$2 \times \underline{Faf} = \underline{Ff} + \underline{Ft} + \underline{Fn} + \dots$$

alle wert. GröÙe

$$\underline{K}' = \underline{bQ} + \underline{T3} \underline{Faf} (\underline{F} + \underline{G} + \underline{R} + \underline{Q1} + \underline{Q2} + \underline{Q3} + \underline{Q4}) (\underline{F} + \underline{G} + \underline{R} + \underline{Q1} + \underline{Q2} + \underline{Q3} + \underline{Q4})$$

$$\underline{Aw}' = \underline{Ac1} +$$

$$\underline{Ac1} = \underline{F} \underline{G} \underline{Q1} (\underline{Faf} + \underline{Q1} \underline{Q2} \underline{Q3} \underline{Q4}) (\underline{K} \underline{P4} + \underline{K} \underline{P6})$$

$$\underline{ic1} = \underline{F} \underline{G} (\underline{Faf} + \underline{Q1} \underline{Q2} \underline{Q3} \underline{Q4})$$

$$\underline{Pld} = \underline{P2d} = \underline{P3d} = \underline{P4d} = \underline{P5d} = \underline{P6d} = \underline{F} \underline{G} \underline{T3} \underline{Q1} \underline{Q2} \underline{Q3} \underline{Q4} \underline{Faf} \underline{be}$$

Rücksetzer für P-FF's

$$Plb = P5a = P6a = ia = Ga = \underline{Faf}$$

$$T3 = S1 S3$$

$$i = \underbrace{ia \underline{G} \underline{H} S2 S3}_{\substack{\uparrow = \underline{Faf} \\ \downarrow \phi 4 \text{ (Faf + J-Bef)}}} + ic1$$

$$P1' = \underline{G} i r1 + \underline{G} i A + \underline{H} \underline{P1} T3 + Plc$$

$$r1 = \underline{FC} + \underline{HG} + \underline{FHR}$$

$$\underline{P1}' = \underline{G} i \underline{r1} + \underline{G} i \underline{A} + \underline{H} \underline{P1} T3 + \underline{G} \underline{P1} T3 Plb + Pld$$

$$\begin{aligned} P2' &= i P1 + P2c \\ P2' &= i \underline{P1} + P2d \\ P3' &= i P2 + P3c \end{aligned}$$

$$\underline{P3}' = i \underline{P2} + P3d$$

$$P4' = i P3 + P4c$$

$$\underline{P4}' = i \underline{P3} + P4d$$

$$P5' = i P4 + P5c + \underline{G} \underline{H} T3 V P5a + B5$$

$$\underline{P5}' = i \underline{P4} + P5d + \underline{G} \underline{H} T3 \underline{V} \underline{P5a}$$

$$P6' = i P5 + P6c + \underline{F} \underline{G} \underline{H} T3 A P6a + \underline{H} T3 P1 Q3$$

$$\underline{P6}' = i \underline{P5} + P6d + \underline{F} \underline{G} \underline{H} T3 \underline{A} P6a + \underline{H} T3 P1 \underline{A} Q3 +$$

$$H T3 P1 Q3 \underline{A}^* + B5 = \underline{FGH} T3 \underline{Faf}$$

$$\underline{Q1}' = a \text{ ll } \underline{R} + bq + \underline{G} \underline{H} T3 Q1$$

$$Q2' = a \text{ ll } Q1 + \underline{F} \underline{G} \underline{H} bs + \underline{FG} T3 \underline{Q1} \underline{Q2} (Q1 + Q3 + Q4 + P1 + P2 + P3 + P4 + P5 + P6)$$

$$\underline{Q2}' = a \text{ ll } \underline{Q1} + \underline{H}' O1 + \underline{G} T3 Q1 O1 + \underline{G} T3 \underline{Q1} Q2 Q3 Q4 O1 + To \leftarrow E/A$$

Einzeloperationen
Einzelop. = Step

$$Q3' = a \text{ 11 } Q2 + G \text{ T3 } Q1 \text{ Q2 } Q3 \text{ Q4}$$

$$Q3' = a \text{ 11 } Q2 + bq$$

$$Q4' = a \text{ 11 } Q3$$

$$Q4' = a \text{ 11 } Q3 + bq + T3 \text{ Q1 } Q2 \text{ Q3 } A + T3 \text{ Q1 } Q2 \text{ Q3 } R \text{ To}$$

$$a9 = Q3 + Q4$$

$$a11 = F \text{ G } H \text{ S1 } S2 \text{ S3 } bq \text{ Faf}$$

$$B5 = F \text{ G } K \text{ Q3 } Faf$$

$$Aw' = F \text{ G } H \text{ Q2 } Q3 \text{ Q4 } V (Q1 + A) + H \text{ A } To \\ [F + G + Q1 \text{ Q3 } Q4 + T3 \text{ Q1 } Q2 \text{ a9} + Q2 (Q3 + Q4) \\ Faf] + \overset{\text{Schiffer}}{Acl} + [B1 (L \text{ I1 } I2 + L \text{ I1 } I2 + L \text{ I1 } I2 \\ + L \text{ I1 } I2)]$$

$$B1 = H \text{ T3 } + H \text{ P1 } + F \text{ G } H + P \text{ G } Q1 \text{ Q2 } Q3$$

$$Cw' = F \text{ S2 } C \text{ brc } (Q1 + Q2 + Q3 + Q4) + G \text{ S2 } C \text{ brc } + \\ H \text{ C } \text{ brc } + G \text{ S2 } C \text{ brc } (F + T3 + R + Q1 + Q2 + Q3 \\ + Q4 + Faf + To) + F \text{ G } H \text{ S2 } C \text{ K } + F \text{ G } H \text{ S2 } C \text{ K } + \\ G \text{ T3 } C \text{ brc } + G \text{ H } S1 \text{ S2 } S3 + F \text{ G } T3 \text{ Q1 } Q2 \text{ Q3 } \\ (a5 + a6 + a7 + a8) * F \text{ G } H \text{ T3 } Q1 \text{ Q2 } Q3 \text{ Q4 } R + \\ F \text{ G } H \text{ T3 } Q3 \text{ P1 } P6 \text{ A } + F \text{ G } H \text{ T3 } Q3 \text{ P1 } P6 \text{ A } + Se + Smi \\ S_c = F \text{ G } H \text{ S1 } S2 \text{ S3 } S4 \quad S_a = F \text{ S3 } S4 \quad (Mod. 81)$$

$$I1 = F \text{ G } H \text{ A* } P5 + G \text{ H } Q3 \text{ P5 } A* + F \text{ G } P1 \text{ Q3 } A + \\ F \text{ G } P1 \text{ Q3 } A + F \text{ G } P1 \text{ S1 } S3 \text{ Q3 } P6 + F \text{ G } H \text{ A* } + \\ H \text{ P1 } Q3 \text{ A* } + F \text{ H } Q3 \text{ A* } + G \text{ H } P1 \text{ Q3 } A* + H \text{ A}$$

$$I2 = F \text{ G } H \text{ P5 } P6 + F \text{ G } H \text{ P5 } P6 + H \text{ P1 } Q3 \text{ R } + G \text{ H } P1 \\ P6 \text{ R } + G \text{ H } P1 \text{ Q3 } A + F \text{ H } P1 \text{ Q3 } P5 + H \text{ P1 } Q3 \text{ P5 } P6 + H \text{ V}$$

$$K' = G \text{ H } S2 \text{ C } Faf (F + Q3) + H \text{ S1 } S2 \text{ r1 } + H \text{ S1 } S2 \text{ S3 } r1 + \\ G \text{ H } S1 \text{ S2 } S3 \text{ r1 } Faf + G \text{ H } S1 \text{ S2 } S3 \text{ r1 } Faf + F \text{ G } T3 \\ R \text{ Q1 } Q2 \text{ Q3 } Q4 \text{ Faf} + F \text{ G } T3 \text{ R } Q1 \text{ Q2 } Q3 \text{ Q4 } Faf$$

Far 6 D.1 - Juppel

$$L' = W + F G \underline{Q2} + \underline{B3} (a5 + a7) \\ (\underline{S} \ I1 \ I2 \ \underline{L} + S \ \underline{I1} \ I2 \ \underline{L})$$

$$\underline{L}' = \underline{B3} + Q2 (Q1 + Q3) (a6 + a8)$$

$$S = \underline{H} \ Q4 + H \ \underline{Q3} \ \underline{P5} \ \underline{P6} + H \ \underline{Q3} \ P5 \ P6 + \underline{F} \ H \ Q3 + \underline{F} \ G \ H$$

$$a5 = \underline{S} \ I1 \ I2 \ \underline{L}$$

$$a6 = S \ I1 \ \underline{I2} \ L$$

$$a7 = S \ \underline{I1} \ I2 \ \underline{L}$$

$$a8 = \underline{S} \ \underline{I1} \ \underline{I2} \ L$$

$$B3 = \underline{T3} + H \ Q3 \ \underline{P1}$$

$$Fc = (\underline{JL} \ 12) \ T3 \ \underline{Sc} \ \underline{Sk} + \underline{F} \ \underline{G} \ T3 \ Rp \ \underline{Sc} \ \underline{Cd} \ Ft \ \underline{Sk}$$

von Stopcode gebildet
keine Steuerfunktion (WR, Tabu...)
keine Steuerfunktion
keine Steuerfunktion
nur, wenn Tally
kein Steuer WP

$$Fd = \underline{F} \ \underline{G} \ T3 \ (\underline{Sc} + \underline{Cd} + \underline{Sk}) (\underline{Ff} + \underline{Ft})$$

Stop-Code
Code delete bei 48 Bit WR, Tabu...
φ3 Ende
φ3

$$Gc = (\underline{JL} \ 11) \ \underline{F} \ \underline{G} \ T3 + \underline{F} \ \underline{G} \ T3 \ Rp \ Ft + Q2 \ g6$$

von Flexow...
Q2 00

$$Ff' = \underline{F} \ \underline{G} \ T3 \ \underline{P1} \ \underline{P2} \ \underline{P3} \ \underline{P4} \ P5 \ Q1 \ Q2 \ Q3 \ Q4 \ be \ \underline{Faf} + bQ + \\ \underline{F} \ \underline{G} \ T3 \ \underline{P1} \ \underline{P2} \ \underline{P3} \ \underline{P4} \ P5 \ Q1 \ Q2 \ Q3 \ Q4 \ be \ \underline{Faf}$$

φ3
von Flexo (JL27)
P-Bef
J-Bef

$$Ff' = \underline{F} \ \underline{G} \ T3 \ Q3 \ Xs \ \underline{Sr'} \ bQ + X + To$$

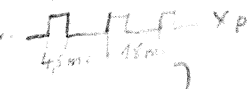
von Sr' (on, statt eingetragener nicht da)
kommt bei Stopcode - ist immer da, wenn Leser Fluss steht

$$Ft' = \underline{F} \ \underline{G} \ T3 \ \underline{P1} \ \underline{P2} \ \underline{P3} \ \underline{P4} \ P5 \ Q1 \ Q2 \ Q3 \ Q4 \ be \ \underline{Faf}$$

$$\underline{Ft'} \ \underline{Dx'} = \underline{F} \ \underline{G} \ T3 \ \underline{Sc} \ \underline{Xp} + To$$

Stop-Code

$$Rp = Xp \ Di$$

Multifiber


$$Dt = Rp$$

Dt = Xp Di
zur Kopplung Tally. Dt: Koppl-Tabelle
es läuft mit Xp, wenn Di da ist.

$$Sc = P1 \ \underline{P2} \ \underline{P3} \ \underline{P4} \ \underline{P5} \ \underline{P6} = \text{Stop-Code} \left. \begin{array}{l} \text{wenn dieses Signal} \\ \text{f} \end{array} \right\}$$

$$Cd = P1 \ P2 \ P3 \ P4 \ P5 \ P6 = \text{Code delete}$$

$$Di' = \underline{F} \ \underline{G} \ \underline{Xp} \ Ft = \text{wenn Tally angewandt (Ft) immer da, bis Faf}$$

immer laufende Multifiber (Lastzeit)

$$\underline{Di'} = \underline{Faf}$$

für $Sr' \rightarrow$ $Sr^* = F \underline{Q1} Xs \underline{bQ} Ff$ $Sr =$ Aktivität Leserkupplung
 50 ms. $X' = F \underline{G} T3 \underline{Tx} (JL 33) Q3 Ff$ aber nur wenn anal. Ff aktiviert

$$\underline{X'} = F + G + \underline{T3} + Tx + (\underline{JL 33}) + \underline{Q3} + \underline{Ff}$$

$$Tp1 = X P1$$

$$Ff = P0200 - R_{0,1} \text{ Flexo}$$

$$Tp2 = X P2$$

$$Fy = P0600 - \text{Stanze}$$

$$Tp3 = X P3$$

$$Tp4 = X P4$$

$$Tp5 = X P5$$

$$Tp6 = X P6$$

$$Tx = X JL 7$$

$$Sk = \underline{P5} \underline{P6} K$$

da bei 4-01
 Wenn WR, Tab-Veränd. usw.

$$Gc = F \underline{G} T3 Fy \underline{bs} \underline{Rp}$$

auf EA-2
 nur!

$$Fc = F \underline{G} T3 \underline{Q3} Fy Rp \underline{Sk} \underline{Cd} \underline{Tpg} \quad \text{Stanzebedingungen}$$

$$Pd = F \underline{G} T3 Fy (Cd + Sc + Sk)$$

$$\begin{aligned}
 Fy' = & \overset{P3}{F} \underline{G} T3 \overset{J-Def}{\underline{Q1}} \overset{0601}{\underline{Q2}} \overset{0601}{\underline{Q3}} \underline{Q4} \underline{P1} \underline{P2} \underline{P3} \underline{P4} \underline{P5} \underline{be} \underline{Faf} + \\
 & F \underline{G} T3 \underline{Q1} \underline{Q2} \underline{Q3} \underline{Q4} \underline{P1} \underline{P2} \underline{P3} \underline{P4} \underline{P5} \underline{be} \underline{Faf} + \\
 & Faf \underline{bs} \underline{bQ} \quad \text{P-Def} \quad 0600
 \end{aligned}$$

$$\underline{Fy'} = F \underline{G} T3 \underline{Q3} \underline{bs} \underline{Rp} Sc + To + Pp$$

$$\underline{Tr1} = \underline{Q3} Rp Fy \underline{Tpg}$$

$$Dt1 = \underline{Tr1}$$

$$Np^* = Rp$$

$$Rp^* = \underline{Xpg} \underline{Np} \underline{Xp} + \underline{Xp} \underline{Mp} Fy \underline{G} T3$$

$$\underline{R_p} = X_p$$

$$T_{pg} = \underline{X_{pg}} R_p + Q_3 F_y R_p \underline{T_{pg}}$$

$$\underline{T_{pg}} = \underline{X_p}$$

$$P_p = Q_3 F_y R_p \underline{T_{pg}}$$

$$S_c = P_1 \underline{P_2} \underline{P_3} \underline{P_4} \underline{P_5} \underline{P_6} \quad \text{stop code}$$

$$C_d = P_1 P_2 P_3 P_4 P_5 P_6 \quad \text{Code Delete (Lösch code)}$$

$$S_k = K \underline{P_5} \underline{P_6} \quad \text{Kontrollzeichen 4-Bit Zustand}$$

$$T_{pa} = P_p P_1$$

$$T_{pb} = P_p P_2$$

$$T_{pc} = P_p P_3$$

$$T_{pd} = P_p P_4$$

$$T_{pe} = P_p P_5$$

$$T_{pf} = P_p P_6$$

$$\underline{T_{pa}} = \underline{X_p}$$

$$\underline{T_{pb}} = \underline{X_p}$$

$$\underline{T_{pc}} = \underline{X_p}$$

$$\underline{T_{pd}} = \underline{X_p}$$

$$\underline{T_{pe}} = \underline{X_p}$$

$$\underline{T_{pf}} = \underline{X_p}$$

$$b_e = \text{Taste Befehl ausführen}$$

$$b_s = \text{Startsignal}$$

$$b_q = \text{Eingabe v. Hand}$$

$$T_o = \text{Taste E/A}$$