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slip<
[2011-03-22 MK

Program drumtext.

Print out text strings found on the drum.

Text strings are formatted as follows:

The first four bits contain 1111 in all cells but the last. The last
cell has 1010 in bits 0-3. The rest of the cell contains up to six
characters, each in 6 bits, stored from the right. CARRET is represented
by the value 63. Unused character positions in the last cell is filled
with the value 10.

The algorithm works as follows:

Read each track on the drum. If the first cell contains 1111 in the
leftmost bit positions continue reading until we meet 1010. If we meet
any other bit combination in the first four bits, proceed to the next
track. If the text pattern is matched, go back to the first track again
and punch the text.
]
b a20
i=255
a1=600                      ; Input buffer
     zq                     ; stop; comment ready for binout;
     vy  32                 ; [256] select(32);
a0:  vk  -1    t 1          ; next track:
     bs (a0)   t 319        ; if track no>319 then
     zq                     ; stop
     lk  a1    , vk (a0)    ; from drum; wait for drum;
     arn a1                 ; R:=buffer[0];
     mb  15.3  D            ; R:=R ∧ 4 15 36 0;
     nc  15.3  , hv  a0     ; if R ≠ 4 15 36 0 then goto next track;
     gk  a3    , pp  0      ; save track:=tk; p:=0;
a4:  arn pa1                ; next cell: R:=buffer[p];
     mb  15.3  D            ; R:=R ∧ 4 15 36 0;
     ca  10.3  , hv  a5     ; if R = 4 10 36 0 then goto finish string;
     nc  15.3  , hv  a0     ; if R ≠ 4 15 36 0 then goto next track;
     pp  p1    , bs  p472   ; p:=p+1; if p≤39 then
     hv  a4                 ; goto next cell;
     bs (a0)   t 318        ; if track no>318 then goto finish string;
     hv  a5
     vk (a0)   t 1          ; select next track;
     lk  a1    , vk (a0)    ; from drum; wait for drum;
     pp  0     , hv  a4     ; p:=0; goto next cell;
a7:  m 10-3
     10
a5:  arn a3    , tk  10     ; finish string: R:=save track;
     ga  a6                 ;
     tk  -30   X
     qq (a6)   t -1         ;
     sy  64    , sy  60     ; writecr; writechar(UC);
     sy  19    , sy  58     ; writechar(T); writechar(LC);
     sy  41    , sy  49     ; writechar(r); writechar(a);
     sy  51    , sy  34     ; writechar(c); writechar(k);
     sy  60    , sy  59     ; writechar(UC); writechar(:);
     sy  58    , sy  0      ; writechar(LC); writechar(SP);
a8:  mln a7    , pa  a11    ; write integer from GA4 error track;
a9:  ck  -10   , bs (a12)   ;
a10: pa  a11   t 16         ;
a11: arn 0     D       LZ   ;
     ga  r1    , nc  0      ;
     sy  0                  ;
a12: ncn 0     t  -256      ;
     mln 1a7   , hv  a9
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     sy  64                ; writecr;
a6:  vk  0     t 1         ; next track 2:
     bs (a6)   t 319       ; if track no>319 then
     zq                    ; stop
     lk  a1    , vk (a6)   ; from drum; wait for drum;
     pp  0                 ; p:=0;
a13: pmn pa1   X           ; R:=buffer[p]; M:=0;
     cl  34                ; RM:=RM shift 34;
a16: ck  −4    , ga  a14
     ca  10    , hv  a0    ; if Raddr=10 then goto next track;
     ca  15    , hv  a15   ; if Raddr=15 then goto next cell;
     ca  63    , it  1     ; if Raddr=63 then out:=64;
a14: sy  0    , cln −6
     hv  a16
a15: pp  p1    , bs  p472  ; p:=p+1; if p≤39 then
     hv  a13               ; goto next cell;
     hv  a6                ; goto next track 2;
a3:  qq  0     , qq 0      ; track no of start of text string
e
e255;
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