BURP Program, prints ASCII 40 to 177 [**TTY_Burp**]

```
00100: 060277 | start:          INTDS              ; Disable interrupt
00101: 020112 |                  LDA 0, asciibeg    ; Load constants
00102: 024113 |                  LDA 1, asciiend

00103: 063511 | mainloop:        SKPBZ 0, 11        ; Wait until TTO is free
00104: 000777 |                  JMP -1, 1

00105: 061111 |                  DOAS 0, 11         ; Output to TTO

00106: 101420 |                  INCZ 0, 0          ; Increment char to be printed

00107: 106455 |                  SUBO# 0, 1, SNR    ; Check if end of ascii table
00110: 020112 |                  LDA 0, asciibeg    ; Reset starting constant
00111: 000103 |                  JMP mainloop       ; Loop

00112: 000040 | asciibeg:    40
00113: 000177 | asciiend:    177
```

WC: -12 = fff4	The "ab" tape, in hex (enter LS Byte first):
Address: 0040	fff4
Checksum: sum = (dec)173,646 = (hex)2<mark>a64e</mark> => a64e => (2's comp) 59b2	0040
Addr data(hex) data(decimal)	59b2
40 60bf 24767	60bf
41 204a 8266	204a
42 284b 10315	284b
43 6749 26441	6749
44 01ff 511	01ff
45 6249 25161	6249
46 8310 33552	8310
47 8d2d 36141	8d2d
48 204a 8266	204a
49 0043 67	0043
4a 0020 32	0020
4b 007f 127	007f

TTY_Burp.ab was built manually using the Frhed hex file editor

TTY Echo Program [**TTY_Echo**]

```
00200: 060277 | start:          INTDS               ; Disable interrupt

00201: 063510 | mainloop:       SKPBZ 0, 10         ; Wait until TTI is free
00202: 000777 |                 JMP -1, 1

00203: 060510 |                 DIAS 0, 10          ; Input from TTI

00204: 063511 | mainloop:       SKPBZ 0, 11         ; Wait until TTO is free
00205: 000777 |                 JMP -1, 1

00206: 061111 |                 DOAS 0, 11          ; Output to TTO

00207: 000772 |                 JMP -6,1            ;mainloop      ; Loop
```

Modified 5-Oct-2025 to test the TTO status before outputting the character. Before doing this, if the CPU was stopped and then a character was input, and then the Continue switch was activated, then the character input while the CPU was stopped would be properly echoed.

```
WC: -8 = fff8                                                    The "ab" tape, in hex (enter LS Byte first):
Address: 0080                                                    fff8
Checksum: sum = (dec)129,241 = (hex)1f8d9 => f8d9 => (2's comp) 0727   0080
Addr data(hex) data(decimal)                                    0727
  80 60bf       24767                                           60bf
  81 6748       26440                                           6748
  82 01ff       511                                             01ff
  83 6148       24904                                           6148
  84 6749       26441                                           6749
  85 01ff       511                                             01ff
  86 6249       25161                                           6249
  87 01fa       506                                             01fa
```

TTY_Echo.ab was built manually using the Frhed hex file editor