## VI 60 90mi nute

You can adapt the program for other interval by replacing the list in V. A sample list that also functions as a V160 schedule is immediately below list V

```
\ #R1-ACTIVE LEVER (RETRACTABLE)
\ #R2-INACTIVE LEVER
\ #R3-photocells
\--OUTPUTS:
                    \SET TO 1 TO EXTEND RETRACTABLE LEVER
^ACTI VE=1
^feeder=2
^PUMP=8
^CUELI GHT=4
^SPEAKER=6
^HOUSELI GHT=5
^LEVER = 1
^{\text{NACTIVE}} = 2
^{\text{FOODCUP}} = 3
\ List Data Variables Here
\A is the active response counter in the session
\B is the number of inactive presses in the session \C is the number of food cup responses in the session \D is the number of rewards
\F is the number of inactive lever presses during the first five minutes
\G is the number of food cup responses in the first 5 minutes of the session
\H is the timer
\J is the number of free rewards
\K is the session period (5 min) counter
\T is the counter for times (in case we decide to go state based, which I doubt)
\U is the time a reward will be given
\V is the list of possible VI ITIs
\X is the time (in seconds and undisplayable) until the next reward availability
\Y is the time until the next reward availability
\Z is the counter(?) for the VI intervals
                                        95,
                                                                                           62,
52,
                                                                                                     72,
113,
LIST V = 27,
                    20.
                              108.
                                                  2,
                                                            28,
                                                                       14,
                                                                                 98.
          90,
                                                  26,
                                                            22,
                                        80,
8,
                    60,
                              11,
                                                                       31,
                                                                                 118,
          98,
                              97,
                                        80,
                                                  77,
                                                                                 99,
3,
                    60,
                                                            82,
                                                                       118,
                                                                                           15,
                                                                                                     30,
                                                  91,
54,
          6,
                    54,
                              86,
                                        34,
                                                            26,
                                                                      70,
                                                                                 36,
                                                                                           5,
                                                                                                     70,
                                                  4,
76,
          23,
                    42,
                              112,
                                        81,
                                                            17,
                                                                       43,
                                                                                 31,
                                                                                           19.
                                                                                                     4,
                                                            72,
                                                                       70,
                                                                                 71,
          60.
                    74.
                              117,
                                        80.
                                                  45.
                                                                                           108.
                                                                                                     94,
57,
                    19,
          58,
                                                                                 79.
56,
                              40.
                                        50,
                                                  104.
                                                            2,
                                                                      117.
                                                                                           48,
                                                                                                     4.
                                                                                                     77,
          70,
                    12,
                                        107,
                                                                                 69,
                                                                                           85,
69,
                              116,
                                                  62,
                                                            31,
                                                                      89,
                    49,
107,
          74,
                              78
\109.
                              95,
                                        47,
                                                                      101,
                                                                                           49.
                                                                                                     98,
                    34,
                                                  53,
                                                            63,
                                                                                 86,
95,
          21,
                                        92,
                                                  113,
                    106,
                              15,
                                                            98,
                                                                                 70,
                                                                                           35,
                                                                                                     34,
                                                                       6,
                                                            69,
64,
          60,
                                        19,
                                                                       13,
                                                                                 80.
                                                                                           25,
                                                                                                     12,
                    84.
                              66,
                                                  2,
25,
                    119.
                                                  116,
                                                            22,
                                                                      24,
                                                                                 118.
                                                                                           92,
          70,
                              50,
                                        41,
                                                                                                     43,
21,
                                                                                 95,
          32,
                              108,
                                        39,
                                                  58,
                                                            82,
                                                                      82,
                                                                                           89,
                                                                                                     69,
                    35,
          74,
27,
                    118,
                              21,
                                        37,
                                                  105,
                                                            22,
                                                                      51,
                                                                                 69,
                                                                                           115,
                                                                                                     62,
20,
                                                                       24,
          32,
                    112,
                              111,
                                        42,
                                                  33,
                                                            26,
                                                                                 75,
                                                                                           45,
                                                                                                     8,
                                                                                           1,
43.
          118.
                    104,
                                        49.
                                                  42.
                                                            49.
                                                                       98.
                                                                                 47.
                                                                                                     65.
                              83.
8,
          40,
                    77
```

DIM P = 10 \Session parameters DIM E = 20

```
DIM F = 20
DIM G = 20
DISKVARS = A, B, C, D, K, E, F, G
\ Starts the houselight and run the VI program with VI displays and reward displays
(also delivers pellets).
Š. S. 1,
S1,
 0.01": SET P(0) = 90; \session length
     SET P(1) = 300; \number of seconds in the first data block (in this case,
contextual pressing)

SET B = 0;

SHOW 1, W, 0 ---> S2
  #START: ON ^HOUSELIGHT; ON ^ACTIVE ---> S3
  0.01": LIST Y = V(Z); SET U = Y + H; SET X = Y*1"; SHOW 1, RF TM, U ---> S4
\ this sets the VI timer
  X#T: SHOW 1, RF TM, 0 ---> S5
\this waits until the time is up and then awaits a response
  #R^LEVER: ADD D; SHOW 5, Rewards, D; ON ^feeder; Z1 ---> S3
  0.01": SHOW 1, RF TM, 0 ---> SX
\this delivers a reward after a press and it also zeros out the reward timer so you
know reward is available
\need to define time, z1 in addition to the other things not mentioned
\also, this state set has that pesky thing you don't understand (although page 55
might help if you study it)
\see page 26, second part of S.S.1, S1 for the FI counter (this may be omitted in
your program)
        Response Counter & Screen Update
S. S. 2,
S1.
  #START: SHOW 4, Responses, A, 5, Rewards, D ---> S2
  #R^LEVER: ADD A; SHOW 4, Responses, A ---> SX #R^INACTIVE: ADD B ---> SX
  #R^FOODCUP: ADD C; ; SHOW 3, APPROACH, C ---> SX
\This is meant to store the data for the first 5 minutes
S. S. 3,
  #START: SET P(1) = P(1)*1" ---> S2
  P(1)#T: ADD K ---> SX
#R^INACTIVE: ADD F(K) ---> SX
  \#R^LEVER: ADD E(K) ---> SX
  \#R^FOODCUP: ADD G(K) ---> SX
```