

klicky-variables.cfg

```

1 # This macro was provided by discord user Garrettwp to whom i give my thanks for sharing it with me.
2 # I have tweaked it a lot.
3 # They are based on the great Annex magprobe dockable probe macros "#Originally developed by Mental,
4 # modified for better use on K-series printers by RyanG and Trails", kudos to them.
5 # That macro as since evolved into a klipper plugin that currently is pending inclusion in klipper,
6 # more information here, https://github.com/Annex-Engineering/Quickdraw_Probe/tree/main/Klipper_Macros
7 # User richardjm revised the macro variables and added some functions, thanks a lot
8 # by standing on the shoulders of giants, lets see if we can see further
9 #
10 # the current home for this version is https://github.com/jlas1/Klicky-Probe
11 # the 1000 values below is to give an error instead of doing something wrong, hopefully, this won't be used is a printer larger than 1 meter
12
13 [gcode_macro _User_Variables]
14 variable_verbose:      False # Enable verbose output
15 variable_debug:        False # Enable Debug output
16 variable_travel_speed: 250   # how fast all other travel moves will be performed when running these macros
17 variable_move_accel:    2000  # how fast should the toolhead accelerate when moving
18 variable_dock_speed:    80 #200 # how fast should the toolhead move when docking the probe for the final movement
19 variable_release_speed: 100   # how fast should the toolhead move to release the hold of the magnets after docking
20 variable_z_drop_speed:  20    # how fast the z will lower when moving to the z location to clear the probe
21
22 variable_safe_z:        25 #5 # Minimum Z for attach/dock and homing functions
23 # if true it will move the bed away from the nozzle when Z is not homed
24 variable_enable_z_hop:  True  # set this to false for beds that fall significantly under gravity (almost to Z max)
25
26 variable_max_bed_y:     300   # maximum Bed size avoids doing a probe_accuracy outside the bed
27 variable_max_bed_x:     300   # maximum Bed size avoids doing a probe_accuracy outside the bed
28
29 # if a separate Z endstop switch is in
30 # use, specify the coordinates of the switch here (Voron). 206.7,305
31 # Set to 0 to have the probe move to center of bed
32 variable_z_endstop_x:   0 #206.5
33 variable_z_endstop_y:   0 #305
34
35 #Check the printer specific documentation on klipper Dock/Undock configuration, these are dummy values
36 #dock location
37 variable_docklocation_x: 87 #43 # X Dock position
38 variable_docklocation_y: 307 #310 # Y Dock position
39 variable_docklocation_z: -128 # Z dock position (-128 for a gantry/frame mount)
40
41 #The following variables are used if the dock is deployed and retracted via a servo motor
42 variable_enable_dock_servo: False # Set to true if your klicky dock is servo-controlled
43 variable_servo_name:      'NAME' # The name of the dock servo defined in printer.cfg under [servo]
44 variable_servo_deploy:    10     # This EXAMPLE is the value used to deploy the servo fully
45 variable_servo_retract:   11     # This EXAMPLE is the value used to retract the servo fully (initial_angle in [servo] config)
46 variable_servo_delay:     250    # This is a delay to wait the servo to reach the requested position, be carefull with high values
47
48 #Dock move, final toolhead movement to release the probe on the dock
49 #it's a relative move
50 Variable_dockmove_x:      60
51 Variable_dockmove_y:      0
52 Variable_dockmove_z:      0
53
54 #Attach move. final toolhead movement to attach the probe on the mount
55 #it's a relative move
56 Variable_attachmove_x:    0
57 Variable_attachmove_y:    30
58 Variable_attachmove_z:    0
59

```

*** Will be z_offset + 5

printer.cfg *

```

137 [stepper_z]
138 step_pin: PF11
139 dir_pin: PG3
140 enable_pin: !PG5
141 rotation_distance: 40
142 gear_ratio: 80:16
143 microsteps: 64 #original 32
144 #endstop_pin: PG10
145
146 #For Klicky-00
147 endstop_pin: probe:z_virtual_endstop
148

```

```

165  ##-----
166  position_min: -5
167  homing_speed: 12
168  second_homing_speed: 12
169  homing_retract_dist: 1
170

```

****for setup only set "position_min: -25" (in the stepper_z section)
 ** DANGER: set this back to -5 after setup. You need to be able to go much further below zero when first doing "probe_calibrate" with Klicky-00

```

<5> #####
254  # Klicky-00
255  [probe]
256
257  ##-----
258  pin: ^sht:PROBE_1 #PCB_Klicky sht:PROBE_1 #unTAP ^sht:PROBE_1 #TAP ^sht
259  ##-----
260
261  x_offset: 0 #-2
262  y_offset: 0 #22 #19.75 #0 #25.0
263  z_offset: 0 #0
264  speed: 12 #10
265  lift_speed: 24
266  samples: 3
267  samples_result: median
268  sample_retract_dist: .8
269  samples_tolerance: 0.05
270  samples_tolerance_retries: 3
271

```

```
[quad_gantry_level]
```

```
horizontal_move_z: 21
```

* [z_offset] +5 is pretty safe

```
[bed_mesh]
```

```
speed: 250
```

```
horizontal_move_z: 18.621
```

*[z_offset] + retract distance gives fasted mesh

***** After running probe_calibrate locate z_offset that was saved at the end of printer.cfg

```

## [probe]
## z_offset = 17.210

```