



unsaved

• EDITOR ✓ NAV-TLV LOG CODE-EXAMPLES ✕

```
1  \m5_TLV_version 1d: tl-x.org
2  \SV
3      `include "sqrt32.v";
4      m4_include_lib(https://raw.githubusercontent.com/stevehoover/make
5
6      m5_makerchip_module
7  \TLV
8
9      // Stimulus
10 |calc
11     @0
12         $valid = & $rand_valid[1:0]; // Valid with 1/4 probability
13                                         // (& over two random bits).
14
15     // DUT (Design Under Test)
16 |calc
17     ?$valid
18         // Pythagoras's Theorem
19     @1
20         $aa_sq[7:0] = $aa[3:0] ** 2;
21         $bb_sq[7:0] = $bb[3:0] ** 2;
22     @2
23         $cc_sq[8:0] = $aa_sq + $bb_sq;
24     @3
25         $cc[4:0] = sqrt($cc_sq);
26
27
28
29     // VIZ and LOG output.
30     // Note that this can affect the logic in the DIAGRAM. Y
31     m5+pythagorean_viz_and_log(1)
32 \SV
33     endmodule
34
35
36     `include "sqrt32.v";
37
```