```
 State Machine Microcode derived from simple.c

               s s
               w w s       f
a              i i t t     o
d       v t    t t a i b r
d s     a i t c c t m r c
r t m j r m i h h e / a e
e a a a S S m s a C v n j s r
s t s d e e L e d a a c m u t
s e k r l l d l r p r h p b n
--------------------------------
0 4 7 0 0 x x x x 1 0 0 0 0 0   main(){
1 0 0 e 0 x x x x 0 0 1 0 0 0   while (1) {
2 0 0 5 1 x x x x 0 0 1 0 0 0   if ((a0 == 0) && (a1 == 1)) {
3 0 1 0 0 x x x x 1 0 0 0 0 0   LED0=1,LED0=0;}
4 0 0 7 0 x x x x 0 0 0 1 0 0   else
5 0 0 7 2 x x x x 0 0 1 0 0 0   if ((a1 == 0) || (a2 == 1) & !(a0)) {
6 2 2 0 0 x x x x 1 0 0 0 0 0   LED1=1;}
7 0 0 9 3 x x x x 0 0 1 0 0 0   if ((a0 == 1) && (a2 == 0)) {
8 4 4 0 0 x x x x 1 0 0 0 0 0   LED2=1;}
9 0 0 b 4 x x x x 0 0 1 0 0 0   if ((a0 == 0) && (a2 == 0) & !(a2)) {
a 0 7 0 0 x x x x 1 0 0 0 0 0   LED0=0,LED1=0,LED2=0;}
b 0 0 d 5 x x x x 0 0 1 0 0 0   if (!(a0)) {
c 1 1 0 0 x x x x 1 0 0 0 0 0   LED0=1;}
d 0 0 1 0 x x x x 0 0 0 1 0 0   }
e 0 0 e 0 x x x x 0 0 0 1 0 0   :exit

State assignments
state 0 is LED0
state 1 is LED1
state 2 is LED2

Variable inputs
var 0 is a0
var 1 is a1
var 2 is a2
```
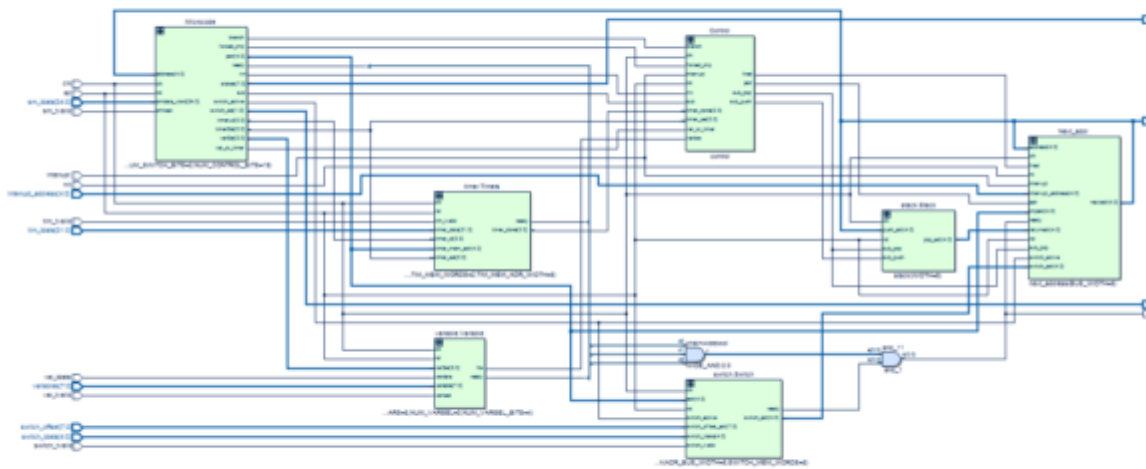
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