	ld1	ld2	ld4	ll5	ld6	ld7	c_1	c_2
S_0	1	1	0	0	0	0	0	0
S_1	0	0	1	0	1	1	0	0
S_2	0	0	0	1	0	0	0	0

S_3 branches:

for $eqx \neq 3'b 010$
↓
$eqz = 3'b 100$

1	0	0	0	0	0	1	0

$eqz = 3'b001$

| 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |

for $eqz = 3b 010$

| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| a | 0 | a | 0 | 0 | 0 | 0 | 0 |

$eqx \neq 3'b 010$

$eqz = 3b 010$