

a && b

if a is false, b is not evaluated
expression returns false.

if ((c instanceof Type) && ((Type)c).isMutable())

will fail
if c is not a type.

a || b

if a is true, b is not evaluated
expression returns true.

And(~~c~~), Boolean, Boolean, Boolean)

a

value code for a (1st argument)

JZero

falseLabel

b

value code for b (2nd argument)

Jump

endLabel

Label

falseLabel

PushI

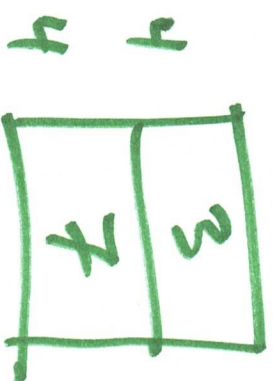
0

Label

endLabel.

if (running) ~~no!~~ } no! ✗
 a = 1;

if (running) {
 a = 1;
 }

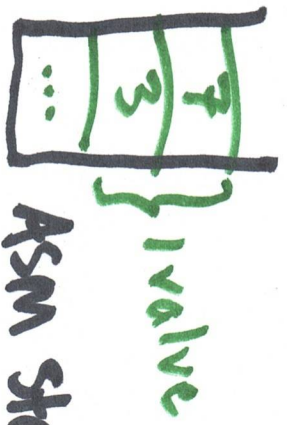


range[int] is 8 bytes.

<int>
 mut x := <3..7>;
 int int

int x
 int → range[int]

mut y := <x+14..3*max+5+n>;



ASM stack.

Exch.

Push address

Exch

Store I

in x range.

addr \rightarrow addr + 4

Push Addr + 4

Exch

Store I

Push Addr Exch Store I



Do not generate
addr twice -
use storage