

a && b

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

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

a *b*

will fail
if c is not a type.

a || b

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

(AndCode, BOOLEAN, BOOLEAN, BOOLEAN)

a

value code for a (1st argument)

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JZero falseLabel

b

value code for b (2nd argument)

Jump endLabel

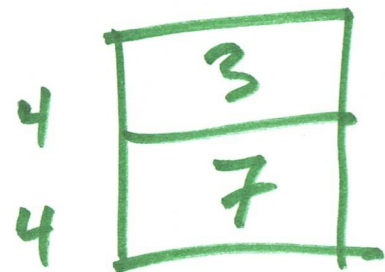
Label falseLabel

PushI 0

Label endLabel.

if (running) ~~a=1;~~ } no! ✗

if (running) {
 a=1;
}

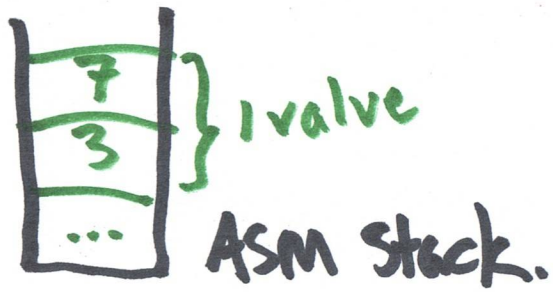


range[int] is 8 bytes.

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

int x int → range[int]
 x

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



Exch.



Push ~~addr~~

Exch

StoreI

addr \rightarrow addr + 4 ^{int range.}

Push Addr + 4

Exch

StoreI

Push Addr Exch
StoreI

Do not generate
addr twice —
use temp
storage.