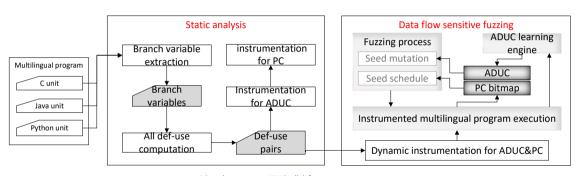
Overview



PC: path coverage, ADUC: all def-use coverage

Example

1 int Process (int List) {

if (Len == 0) {

int Res = 1;

3

4

5

6

8

9

10

11

12

13

15

16 {

17

18

19 } 20 return Res;

21 }

} 14

else

int Len = len (List);

return 0;

for (int i = 0; i < Len; i++) {

Res += Val;

Res *= Val;

Res += Res/Val;

int Val = List[i];

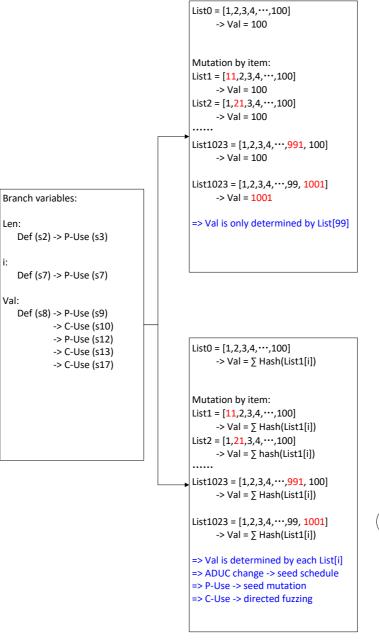
else if (Val == 2) {

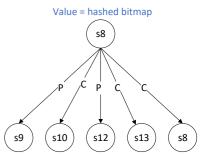
if (Val == 1) {

Len:

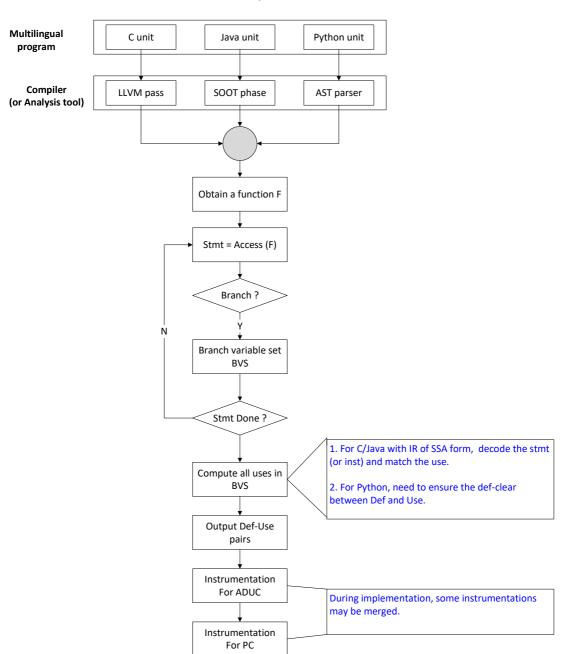
i:

Val:

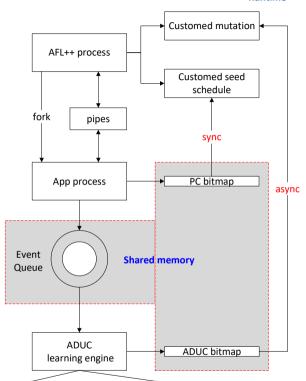




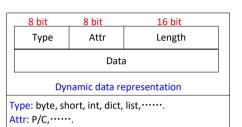
Static phase



Runtime



- 1. A ADUC engine is binding to a Fuzzer
- 2. Dynamic data flow analysis (intral-function)
- 3. Data flow path sensitivity (path profiling)
- 4. Distinguish P/C use





Type: 1 ---- variable name

2 ---- variable addr

3 ---- variable value

Length: the length of current type