

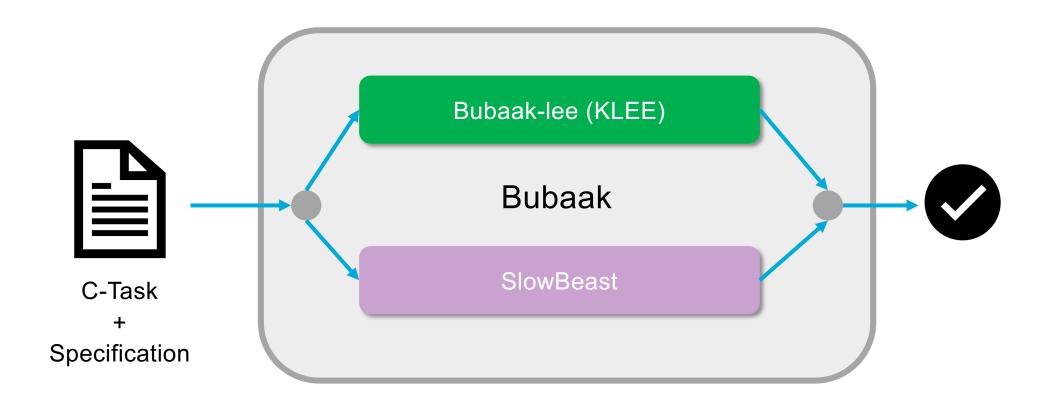
Bubaak-SpLit

Split what you cannot verify

Marek Chalupa and **Cedric Richter**, 08.04.2024



Bubaak

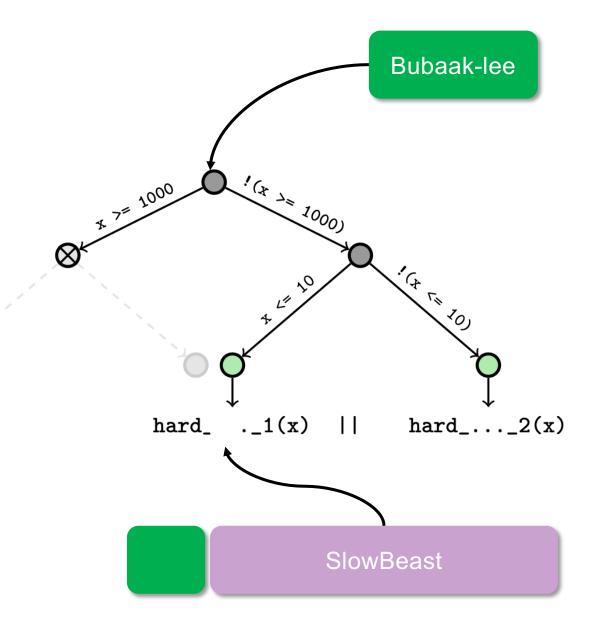




Bubaak-SpLit

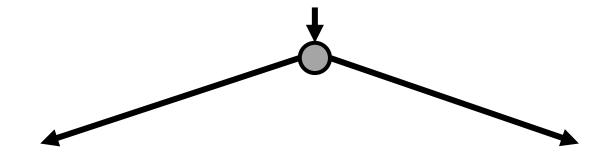
```
int main(void) {
  int x = nondet();
  if( x >= 1000 ) abort();

if( x <= 10 ) {
    hard_to_verify_1(x);
  } else {
    hard_to_verify_2(x);
  }
}</pre>
```





Control Flow Splitting



"Scaling Formal Verification to Realistic Code with Appplication to DeFi", Mooly Sagiv, ETAPS 2023



Task Rewriting System

$$\mathbf{CCAndCheckWeak}(P): bc := \mathbf{compile}(P) \longrightarrow CheckWeak(bc, P)$$



Software Systems (Second Place)

