

Sign Analysis Example 3

Thursday, January 11, 2024 3:04 AM

```
extern bar(&int) -> int;
extern baz() -> int;

let g1:int, g2:&int;

fn foo(p:int) -> int {
  let x:int = 0, y:int = -2,
      z:int = 4;

  g2 = &x;
  y = bar(g2);
  x = 0;
  g1 = 12;
  z = baz();

  return x + y + z;
}
```

```
g1:int
g2:&int
```

```
extern bar:&int -> int
extern baz:() -> int
```

```
fn foo(p:int) -> int {
  let _t1:int, _t2:&int, _t3:int,
      _t4:int, _t5:int, _t6:int, x:int,
      y:int, z:int
```

```
entry:
  x = $copy 0
  _t1 = $arith sub 0 2
  y = $copy _t1
  z = $copy 4
  _t2 = $addrof x
  g2 = $copy _t2
  _t3 = $call_ext bar(g2)
  y = $copy _t3
  x = $copy 0
  g1 = $copy 12
  _t4 = $call_ext baz()
  z = $copy _t4
  _t5 = $arith add x y
  _t6 = $arith add _t5 z
  $ret _t6
}
```