Sign Analysis Example 2

Thursday, January 11, 2024 3:03 AM

```
let g1: int, g2:∫
fn foo(p:int, q:&int) -> int {
  let x:int = 0, y:int = -2;

  g1 = 4;
  *q = 12;
  y = *q;
  q = &x;

  return x + y;
```

```
addrof-ints={ g1, x3
g1:int
g2:&int
fn foo(p:int, q:&int) -> int {
let _t1:int, _t2:int, _t3:&int,
_t4:int, x:int, y:int
 T = [91 HT, PHT]
entry:
x = \text{$copy 0}
 _t1 = $arith sub 0 2 _tl 🗁 🛂
y = \text{$copy } \text{$-t1$}
 g1 = $copy 4
  $store q 12 🕶
\t t2 = \$load q
y = \text{$copy } \text{$t2}
-62 HOT
\q = $copy _t3
_{t4} = $arith add x y
  $ret _t4
```