# external calls are not clamped in certain complex expressions

High charles-cooper published GHSA-j2x6-9323-fp7h on Apr 13

Package

vyper (pip)

Affected versions

<0.3.2

Patched versions

0.3.2

#### Description

# **Impact**

in the following code, the return of <iface>.returns\_int128() is not validated to fall within the bounds of int128 as of v0.3.0, <iface>.returns\_int128() is validated in simple expressions, but not complex expressions.

```
interface iface:
    def returns_int128() -> int128: view
    def returns_Bytes33() -> Bytes[33]: view

x: iface

@external
def call_out():
    x: int128 = self.x.returns_int128() # affected, <0.3.0
    y: uint256 = convert(self.x.returns_int128(), uint256) # affected, <0.3.2
    z: Bytes[33] = concat(self.x.returns_Bytes33(), b"") # affected >= 0.3.0, <0.3.2</pre>
```

## **Patches**

0.3.2 (as of 049dbdc)

#### Workarounds

Break up operations involving external calls into multiple statements. For instance, instead of the example above, use

```
x: int128 = self.x.returns_int128()
y: uint256 = convert(x, uint256)
```

## Severity



## CVE ID

CVE-2022-24845

# Weaknesses

No CWEs