

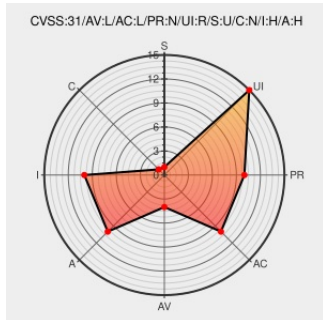


CVE-2019-8591

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CVE-2019-8591

[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#) 

Certain versions of [Iphone Os](#) from [Apple](#) contain the following vulnerability:

A type confusion issue was addressed with improved memory handling. This issue is fixed in iOS 12.3, macOS Mojave 10.14.5, tvOS 12.3, watchOS 5.2.1. An application may be able to cause unexpected system termination or write kernel memory.

CVE-2019-8591 has been assigned by product-security@apple.com to track the vulnerability - currently rated as **HIGH** severity.

Affected Vendor/Software: **Apple** - iOS version < **iOS 12.3**

Affected Vendor/Software: **Apple** - macOS version < **macOS Mojave 10.14.5**

Affected Vendor/Software: **Apple** - tvOS version < **tvOS 12.3**

Affected Vendor/Software: **Apple** - watchOS version < **watchOS 5.2.1**

CVSS3 Score: **7.1 - HIGH**

Attack Vector	Attack Complexity	Privileges Required	User Interaction
LOCAL	LOW	NONE	REQUIRED
Scope	Confidentiality Impact	Integrity Impact	Availability Impact
UNCHANGED	NONE	HIGH	HIGH

CVSS2 Score: **8.8 - HIGH**

Access Vector	Access Complexity	Authentication
NETWORK	MEDIUM	NONE
Confidentiality Impact	Integrity Impact	Availability Impact
NONE	COMPLETE	COMPLETE

CVE References

Description	Tags	Link
About the security content of macOS Mojave 10.14.5, Security Update 2019-003 High Sierra, Security Update 2019-003 Sierra - Apple Support	Vendor Advisory support.apple.com text/html	 MISC support.apple.com/HT210119
About the security content of watchOS 5.2.1 - Apple Support	Vendor Advisory support.apple.com text/html	 MISC support.apple.com/HT210122
About the security content of iOS 12.3 - Apple Support	Vendor Advisory support.apple.com text/html	 MISC support.apple.com/HT210118
About the security content of tvOS 12.3 - Apple Support	Vendor Advisory support.apple.com text/html	 MISC support.apple.com/HT210120

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There are currently no QIDs associated with this CVE

Exploit/POC from Github

tfp0 based on CVE-2019-8591/CVE-2019-8605

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Apple	Iphone Os	All	All	All	All
Operating System	Apple	Iphone Os	All	All	All	All
Operating System	Apple	Mac Os X	All	All	All	All
Operating System	Apple	Mac Os X	All	All	All	All
Operating System	Apple	Tvos	All	All	All	All
Operating System	Apple	Tvos	All	All	All	All
Operating System	Apple	Watchos	All	All	All	All
Operating System	Apple	Watchos	All	All	All	All

```
cpe:2.3:o:apple:iphone_os:*.*.*.*.*.*.*.*.*.*:
```

cpe:2.3:o:apple:iphone_os:*****:
cpe:2.3:o:apple:mac_os_x:*****:
cpe:2.3:o:apple:mac_os_x:*****:
cpe:2.3:o:apple:tvos:*****:
cpe:2.3:o:apple:tvos:*****:
cpe:2.3:o:apple:watchos:*****:
cpe:2.3:o:apple:watchos:*****:

No vendor comments have been submitted for this CVE

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