

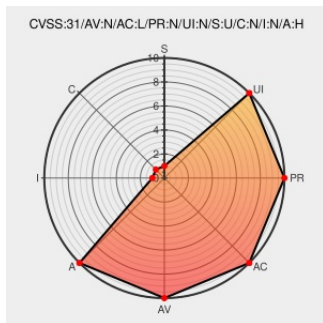


CVE-2019-19274

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CVE-2019-19274

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

Certain versions of **Typed Ast** from **Python** contain the following vulnerability:

typed_ast 1.3.0 and 1.3.1 has a handle_keywordonly_args out-of-bounds read. An attacker with the ability to cause a Python interpreter to parse Python source (but not necessarily execute it) may be able to crash the interpreter process. This could be a concern, for example, in a web-based service that parses (but does not execute) Python code.

(This issue also affected certain Python 3.8.0-alpha prereleases.)

CVE-2019-19274 has been assigned by [M](#) cve@mitre.org to track the vulnerability - currently rated as **HIGH** severity.

CVSS3 Score: **7.5 - HIGH**

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

CVSS2 Score: **5 - MEDIUM**

Access Vector	Access Complexity	Authentication
NETWORK	LOW	NONE
Confidentiality Impact	Integrity Impact	Availability Impact
NONE	NONE	PARTIAL

CVE References

Description	Tags	Link
bpo-36495: Fix two out-of-bounds array reads (GH-	Patch Third Party Advisory	MISC github.com/python/cpython/commit/a4d78362397fc3bcd6ea80fbc7b5f4827aec55e

12641) · python/cpython@a4d7836 · GitHub	github.com text/html	
Issue 36495: Out-of-bounds array reads in Python/ast.c - Python tracker	Patch Vendor Advisory bugs.python.org text/html	 MISC bugs.python.org/issue36495
Fix two out-of-bounds array reads (#99) · python/typed_ast@dc317ac · GitHub	Patch Third Party Advisory github.com text/html	 MISC github.com/python/typed_ast/commit/dc317ac9cff859aa84eeabe03fb5004982545b3b
[SECURITY] Fedora 30 Update: python3-typed_ast- 1.4.0-2.fc30 - package- announce - Fedora Mailing- Lists	lists.fedoraproject.org text/html	 FEDORA FEDORA-2020-9b3dabc21c
Fully incorporate the code from Python 3.7.2 (#78) · python/typed_ast@156afcb · GitHub	Patch Third Party Advisory github.com text/html	 MISC github.com/python/typed_ast/commit/156afcb26c198e162504a57caddfe0acd9ed7dce
bpo-35766: Merge typed_ast back into CPython (GH-11645) · python/cpython@dcfcd14 · GitHub	Patch Third Party Advisory github.com text/html	 MISC github.com/python/cpython/commit/dcfcd146f8e6fc5c2fc16a4c192a0c5f5ca8c53c

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Related QID Numbers

[981620](#) Python (pip) Security Update for typed-ast (GHSA-m3jw-62m7-jjcm)

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Python	Typed Ast	1.3.0	All	All	All
Application	Python	Typed Ast	1.3.1	All	All	All
Application	Python	Typed Ast	1.3.0	All	All	All
Application	Python	Typed Ast	1.3.1	All	All	All
cpe:2.3:a:python:typed_ast:1.3.0:*****:*						
cpe:2.3:a:python:typed_ast:1.3.1:*****:*						
cpe:2.3:a:python:typed_ast:1.3.0:*****:*						
cpe:2.3:a:python:typed_ast:1.3.1:*****:*						

No vendor comments have been submitted for this CVE

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