



[CVE-2025-8194] Tarfile infinite loop during parsing with negative member offset



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July 28, 2025 6:44 p.m.

There is a HIGH severity vulnerability affecting {project}.

There is a defect in the CPython “tarfile” module affecting the “TarFile” extraction and entry enumeration APIs. The tar implementation would process tar archives with negative offsets without error, resulting in an infinite loop and deadlock during the parsing of maliciously crafted tar archives.

This vulnerability can be mitigated by including the following patch after importing the “tarfile” module:

```
import tarfile
```

```
def _block_patched(self, count):  
    if count < 0: # pragma: no cover  
        raise tarfile.InvalidHeaderError("invalid offset")  
    return _block_patched._orig_block(self, count)
```

```
_block_patched._orig_block = tarfile.TarInfo._block  
tarfile.TarInfo._block = _block_patched
```

Please see the linked CVE ID for the latest information on affected versions:

- <https://www.cve.org/CVERecord?id=CVE-2025-8194>
- <https://github.com/python/cpython/pull/137027>

Attachments:

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