

Bug 1911691 (CVE-2020-35507) - CVE-2020-35507 binutils: NULL pointer dereference in bfd\_pef\_parse\_function\_stubs function in bfd/pef.c

Keywords: Security ×

Status: NEW

Alias: CVE-2020-35507

Product: Security Response

Component: vulnerability 🛡️ 🔍

Version: unspecified

Hardware: All

OS: Linux

Priority: low

Severity: low

Target ---

Milestone:

Assignee: Red Hat Product Security

QA Contact:

Docs Contact:

URL:

Whiteboard:

Depends On: 4914604 🚩 1911719 🚩 1911720 🚩 1911721 🚩 1911722 🚩 1912337 🚩 1912338 🚩 1912339 🚩 1912340 🚩 1912341 🚩 1912343 🚩 1912344 🚩 1912345 🚩 1912346 🚩 1912347 🚩 1912348 🚩 1912349 🚩 1912350 🚩 1912351 🚩 1912352 🚩 1912353 🚩 1912354 🚩 1912355 🚩 1912356 🚩 1912357 🚩 1912358 🚩 1912359 🚩 1912360 🚩 1912361 🚩 1912362 🚩 1912363 🚩 1912364 🚩 1912365 🚩 1912366 🚩 1912367 🚩 1912368 🚩 1912369 🚩 1912370 🚩 1912371 🚩 1912372 🚩 1912373 🚩 1912374 🚩 1912375 🚩

Blocks: 1908372 🚩 1911446 🚩

TreeView• depends on / blocked

Reported: 2020-12-30 17:15 UTC by Guilherme de Almeida Suckevicz

Modified: 2021-11-14 22:29 UTC (History)

CC List: 23 users (show)

Fixed In Version: binutils 2.34

Doc Type: 🚩 If docs needed, set a value

Doc Text: 🚩 A flaw was found in bfd\_pef\_parse\_function\_stubs of bfd/pef.c in binutils which could allow an attacker who is able to submit a crafted file to be processed by objdump to cause a NULL pointer dereference. The greatest threat of this flaw is to application availability.

Clone Of:

Environment:

Last Closed:

Attachments	(Terms of Use)
<a href="#">Add an attachment</a> (proposed patch, testcase, etc.)	

- Guilherme de Almeida Suckevicz2020-12-30 17:15:17 UTC

Description

GNU Binutils before 2.34 has a NULL pointer dereference in bfd\_pef\_parse\_function\_stubs function in bfd/pef.c due to not checking return value of bfd\_malloc. This bug allows attackers to cause a denial of service.

Reference:  
[https://sourceware.org/bugzilla/show\\_bug.cgi?id=25308](https://sourceware.org/bugzilla/show_bug.cgi?id=25308)
- Guilherme de Almeida Suckevicz2020-12-30 17:39:43 UTC

Comment 1

Created mingw-binutils tracking bugs for this issue:  
Affects: fedora-all [ [bug-5911694](#) ]
- Todd Cullum2020-12-30 20:38:15 UTC

Comment 3

Statement:  
  
binutils as shipped with Red Hat Enterprise Linux 8's GCC Toolset 10 and Red Hat Developer Toolset 10 are not affected by this flaw because the versions shipped have already received the patch.
- Todd Cullum2020-12-30 20:40:30 UTC

Comment 4

Flaw technical summary:  
  
The 'bfd\_pef\_parse\_function\_stubs()' function in bfd/pef.c allocates memory with 'bfd\_malloc()' and doesn't check for NULL before passing the returned pointer to 'bfd\_read()' which dereferences it. An attacker who could submit a crafted input file that makes 'bfd\_malloc()' fail could cause a denial of service. The upstream patch addresses the issue by adding a NULL check before calling 'bfd\_read()'.
- Todd Cullum2020-12-30 20:42:33 UTC

Comment 5

Upstream commit: <https://sourceware.org/git/gitweb.cgi?p=binutils-gdb.git;h=7a0fb7be96e0ce79elae429bc1ba913e5244d537>

Note

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