

Bug 1911437 (CVE-2020-35493) - CVE-2020-35493 binutils: heap-based buffer overflow in bfd_pef_parse_function_stubs function in bfd/pef.c via crafted PEF file

Keywords: Security ×

Status: NEW

Alias: CVE-2020-35493

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: 4911438 🚫 1911507 🚫 1911508 🚫 1911510 🚫 1911511 🚫 1912249 🚫 1912250 🚫 1912251 🚫 1912252 🚫

Blocks: 1908372 🚫 1911446 🚫

TreeView+ depends on / blocked

Reported: 2020-12-29 13:21 UTC by Guilherme de Almeida Suckevicz

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

CC List: 22 users (show)

Fixed In Version: binutils 2.34

Doc Type: 🚫 If docs needed, set a value

Doc Text: 🚫 A flaw was found in Binutils in bfd/pef.c. This flaw allows an attacker who can submit a crafted PEF file to be parsed by objdump to cause a heap buffer overflow, leading to an out-of-bounds read. The highest threat from this vulnerability is to system availability.

Clone Of:

Environment:

Last Closed:

Attachments	(Terms of Use)
Add an attachment (proposed patch, testcase, etc.)	

Guilherme de Almeida Suckevicz	2020-12-29 13:21:16 UTC	Description
Objdump of GNU Binutils before 2.34 has a heap-buffer-overflow in function bfd_pef_parse_function_stubs (file bfd/pef.c) which could allow attackers to cause a denial of service or unspecified impact.		
Reference: https://sourceware.org/bugzilla/show_bug.cgi?id=25307		
Guilherme de Almeida Suckevicz	2020-12-29 13:21:34 UTC	Comment 1
Created mingw-binutils tracking bugs for this issue:		
Affects: fedora-all [bug-1911438]		
Todd Cullum	2020-12-30 00:38:52 UTC	Comment 5
Flaw technical summary:		
This flaw is caused by an improper length check followed by a call to 'bfd_pef_parse_function_stub()' in 'bfd_pef_parse_function_stubs()' of bfd/pef.c. There's a length check for 'if ((codepos + 4) > codelen)', but the subsequent call to 'bfd_pef_parse_function_stub()' passes in length 24, which could read past the end of the 'codebuf' buffer.		
Todd Cullum	2020-12-30 20:46:19 UTC	Comment 6
Upstream commit: https://sourceware.org/git/gitweb.cgi?p=binutils-gdb.git;h=f2a3559d54602cecfec6d90f792be4a70ad918ab		
RaTasha Tillery-Smith	2021-02-22 18:50:20 UTC	Comment 11
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.		

Note

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