CVE-2018-20542

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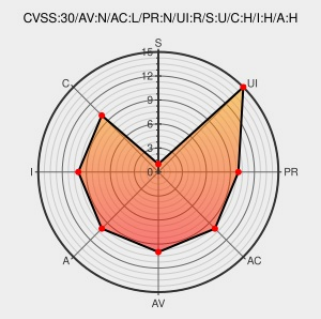
Source: Mitre | Source: NIST | CVE.ORG | Print: PDF



Certain versions of Libxsmm from Libxsmm Project contain the following vulnerability:

There is a heap-based buffer-overflow at generator_spgemm_csc_reader.c (function libxsmm_sparse_csc_reader) in LIBXSMM 1.10, a different vulnerability than CVE-2018-20541 (which is in a different part of the source code and is seen at a different address).

CVE-2018-20542 has been assigned by cve@mitre.org to track the vulnerability - currently rated as HIGH severity.

CVSS3 Score: 8.8 - HIGH

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

CVSS2 Score: 6.8 - MEDIUM

Access Vector	Access Complexity	Authentication
NETWORK	MEDIUM	NONE
Confidentiality Impact	**Integrity Impact**	**Availability Impact**
PARTIAL	PARTIAL	PARTIAL

CVE References

Description	Tags	Link
Issue #287: made CSR/CSC readers more robust against invalid input (c… · hfp/libxsmm@1514814 · GitHub	Patch Third Party Advisory github.com	MISC github.com/hfp/libxsmm/commit/151481489192e6d1997f8bde52c5

	text/html	
reported buffer overflows · Issue #287 · hfp/libxsmm · GitHub	Exploit Patch Third Party Advisory github.com text/html	MISC github.com/hfp/libxsmm/issues/287
1652633 – There is a heap-buffer-overflow at src/generator_spgemm_csc_reader.c:178(function libxsmm_sparse_csc_reader) that allocated at src/generator_spgemm_csc_reader.c:125 in libxsmm.	Exploit Issue Tracking Third Party Advisory bugzilla.redhat.com text/html	MISC bugzilla.redhat.com/show_bug.cgi?id=1652633
1652635 – There is a heap-buffer-overflow that the heap is allocated at src/generator_spgemm_csc_reader.c:125 and triggered at function libxsmm_sparse_csc_reader in libxsmm.	Exploit Issue Tracking Third Party Advisory bugzilla.redhat.com text/html	MISC bugzilla.redhat.com/show_bug.cgi?id=1652635

There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Libxsmm Project	Libxsmm	1.10	All	All	All
Application	Libxsmm Project	Libxsmm	1.10	All	All	All

cpe:2.3:a:libxsmm_project:libxsmm:1.10:*:*:*:*:*:*:*:

cpe:2.3:a:libxsmm_project:libxsmm:1.10:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

← Previous ID

Next ID→