

Vulnerability Report Document

Document Information

Date: 2025-04-14T08:39:12Z

Tools:

- Dependency-Track (4.12.0)

Component name : Custom Project (1.5.0-RC1)

BOM Format: CycloneDX

Specification Version: 1.5

Version: 1

Serial Number: urn:uuid:ad0de2f3-c73e-480b-8be1-5702972e438b

Vulnerabilities

1. ID: **CVE-2014-2893**

Description: The GetHTMLRunDir function in the scan-build utility in Clang 3.5 and earlier allows local users to obtain sensitive information or overwrite arbitrary files via a symlink attack on temporary directories with predictable names.

- **Severity:** low (CVSSv2 — Source: NVD)

Affected Document Components : [[Clang](#): r352693]

2. ID: **CVE-2019-14871**

Description: The REENT_CHECK macro (see newlib/libc/include/sys/reent.h) as used by REENT_CHECK_TM, REENT_CHECK_MISC, REENT_CHECK_MP and other newlib macros in versions prior to 3.3.0, does not check for memory allocation problems when the DEBUG flag is unset (as is the case in production firmware builds).

- **Severity:** medium (CVSSv2 — Source: NVD)
- **Severity:** medium (CVSSv3 — Source: NVD)

Affected Document Components : [[newlib](#): git://sourceware.org/git/newlib-cygwin.git commit e046e4de145009ae6baf27f8e0553a666e6a8d3d]

3. ID: **CVE-2019-14872**

Description: The _dtoa_r function of the newlib libc library, prior to version 3.3.0, performs multiple memory allocations without checking their return value. This could result in NULL pointer dereference.

- **Severity:** medium (CVSSv2 — Source: NVD)
- **Severity:** medium (CVSSv3 — Source: NVD)

Affected Document Components : [[newlib](#): git://sourceware.org/git/newlib-cygwin.git commit e046e4de145009ae6baf27f8e0553a666e6a8d3d]

4. ID: **CVE-2019-14873**

Description: In the __multadd function of the newlib libc library, prior to versions 3.3.0 (see newlib/libc/stdlib/mprec.c), Balloc is used to allocate a big integer, however no check is performed to verify if the allocation succeeded or not. This will trigger a null pointer dereference bug in case of a memory allocation failure.

- **Severity:** medium (CVSSv2 — Source: NVD)
- **Severity:** medium (CVSSv3 — Source: NVD)

Affected Document Components : [[newlib](#): git://sourceware.org/git/newlib-cygwin.git commit e046e4de145009ae6baf27f8e0553a666e6a8d3d]

ID: CVE-2019-14874

Description: In the `__i2b` function of the newlib libc library, all versions prior to 3.3.0 (see `newlib/libc/stdlib/mprec.c`), `Balloc` is used to allocate a big integer, however no check is performed to verify if the allocation succeeded or not. The access of `_x[0]` will trigger a null pointer dereference bug in case of a memory allocation failure.

- **Severity:** medium (CVSSv2 — Source: NVD)
- **Severity:** medium (CVSSv3 — Source: NVD)

Affected Document Components : [[newlib](https://sourceware.org/git/newlib-cygwin.git): `git://sourceware.org/git/newlib-cygwin.git` commit `e046e4de145009ae6baf27f8e0553a666e6a8d3d`]

6. ID: CVE-2019-14875

Description: In the `__multiply` function of the newlib libc library, all versions prior to 3.3.0 (see `newlib/libc/stdlib/mprec.c`), `Balloc` is used to allocate a big integer, however no check is performed to verify if the allocation succeeded or not. The access of `_x[0]` will trigger a null pointer dereference bug in case of a memory allocation failure.

- **Severity:** medium (CVSSv2 — Source: NVD)
- **Severity:** medium (CVSSv3 — Source: NVD)

Affected Document Components : [[newlib](https://sourceware.org/git/newlib-cygwin.git): `git://sourceware.org/git/newlib-cygwin.git` commit `e046e4de145009ae6baf27f8e0553a666e6a8d3d`]

7. ID: CVE-2019-14876

Description: In the `__lshift` function of the newlib libc library, all versions prior to 3.3.0 (see `newlib/libc/stdlib/mprec.c`), `Balloc` is used to allocate a big integer, however no check is performed to verify if the allocation succeeded or not. The access to `b1` will trigger a null pointer dereference bug in case of a memory allocation failure.

- **Severity:** medium (CVSSv2 — Source: NVD)
- **Severity:** medium (CVSSv3 — Source: NVD)

Affected Document Components : [[newlib](https://sourceware.org/git/newlib-cygwin.git): `git://sourceware.org/git/newlib-cygwin.git` commit `e046e4de145009ae6baf27f8e0553a666e6a8d3d`]

8. ID: CVE-2019-14877

Description: In the `__mdiff` function of the newlib libc library, all versions prior to 3.3.0 (see `newlib/libc/stdlib/mprec.c`), `Balloc` is used to allocate big integers, however no check is performed to verify if the allocation succeeded or not. The access to `_wds` and `_sign` will trigger a null pointer dereference bug in case of a memory allocation failure.

- **Severity:** medium (CVSSv2 — Source: NVD)
- **Severity:** medium (CVSSv3 — Source: NVD)

Affected Document Components : [[newlib](https://sourceware.org/git/newlib-cygwin.git): `git://sourceware.org/git/newlib-cygwin.git` commit `e046e4de145009ae6baf27f8e0553a666e6a8d3d`]

9. ID: CVE-2019-14878

Description: In the `__d2b` function of the newlib libc library, all versions prior to 3.3.0 (see `newlib/libc/stdlib/mprec.c`), `Balloc` is used to allocate a big integer, however no check is performed to verify if the allocation succeeded or not. Accessing `_x` will trigger a null pointer dereference bug in case of a memory allocation failure.

- **Severity:** medium (CVSSv2 — Source: NVD)
- **Severity:** medium (CVSSv3 — Source: NVD)

Affected Document Components : [[newlib](https://sourceware.org/git/newlib-cygwin.git): `git://sourceware.org/git/newlib-cygwin.git` commit `e046e4de145009ae6baf27f8e0553a666e6a8d3d`]

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10. ID: **CVE-2021-3420**

Description: A flaw was found in newlib in versions prior to 4.0.0. Improper overflow validation in the memory allocation functions mEMALIGN, pvALLOc, nano_memalign, nano_valloc, nano_pvalloc could case an integer overflow, leading to an allocation of a small buffer and then to a heap-based buffer overflow.

- **Severity:** high (CVSSv2 — Source: NVD)
- **Severity:** critical (CVSSv3 — Source: NVD)

Affected Document Components : [[newlib](https://sourceware.org/git/newlib-cygwin.git): git://sourceware.org/git/newlib-cygwin.git commit e046e4de145009ae6baf27f8e0553a666e6a8d3d]

Components

Name: *Clang*

Version: r352693

Name: *newlib*

Version: git://sourceware.org/git/newlib-cygwin.git commit e046e4de145009ae6baf27f8e0553a666e6a8d3d