

Android Public Tracker > Libcore 298530285


← ↻ ☆


__strlen_aarch64_mte frequently triggered problem with MTE

+1

Hotlists (4)

Mark as Duplicate





Comments (3)

Dependencies

Duplicates (0)

Blocking (0)

Resources (5)


Assigned

Bug

P2


+ Add Hotlist

[AOSP] assigned

 STATUS UPDATE

No update yet.


Edit

 DESCRIPTION

h8...@gmail.com created issue #1


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Disclaimer: Please note, by submitting this bug report, you acknowledge that Google may use information included in the bug report to diagnose technical issues and to improve our products and services.
Description of issue (what needs changing):
From our practical experiences, so many Android Applications could trigger the MTE syncerrors and bring collapses only if we open the MTE, since the Android standard libc would use the MTE version 2.1.0. The example you mention, vector.push_back(toCppString(**).c_str()), is a great example of the type of [footgun](#) that exists in C++. Our other tools even specifically mention this as an example of a footgun.
The example you mention, vector.push_back(toCppString(**).c_str()), is a great example of the type of footgun that exists in C++. Our [other tools](#) even specifically mention this as an example of a footgun.
So, is it possible to take some remedial actions or just disable the MTE strlen for better and more practical usage of MTE Android please?

✓ Links (4)

 Links (4)


"...g private information, please share bugreports and screenshots from Google Drive. Share files with android-bugreport@google.com and include only Google drive links in your bug. If attaching bug reports, please make sure to redact any sensitive information."
"Disclaimer: Please note, by submitting this bug report, you acknowledge that Google may use information included in the bug report to diagnose technical issues and to improve our products and services."
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COMMENTS

 **ra...@google.com** <ra...@google.com> [#2](#)

Assigned to ra...@google.com.

We have shared this with our product and engineering team and will update this issue with more information as it becomes available.

 **vi...@google.com** <vi...@google.com> [#3](#)

Thanks again for the feedback! Our product and engineering teams have evaluated the request and responded:

Hello,

An MTE-specific strlen (and all string.h family of functions) is necessary and desirable to detect buffer-overflow bugs.

The example you mention, vector.push_back(toCppString(**).c_str()), is a great example of the type of [footgun](#) that exists in C++. Our [other tools](#) even specifically mention this as an example of a footgun.

Some of those specific examples of use-after-free bugs are benign, however they're still undefined behaviour. MTE catching them is the desired functionality.