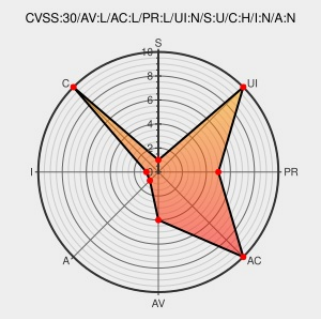
CVE-2017-15537

Published on: 10/17/2017 12:00:00 AM UTC

Last Modified on: 03/23/2021 11:26:33 PM UTC

CVE-2017-15537

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



Certain versions of Linux Kernel from Linux contain the following vulnerability:

The x86/fpu (Floating Point Unit) subsystem in the Linux kernel before 4.13.5, when a processor supports the xsave feature but not the xsaves feature, does not correctly handle attempts to set reserved bits in the xstate header via the ptrace() or rt_sigreturn() system call, allowing local users to read the FPU registers of other processes on the system, related to arch/x86/kernel/fpu/regset.c and arch/x86/kernel/fpu/signal.c.

CVE-2017-15537 has been assigned by cve@mitre.org to track the vulnerability - currently rated as MEDIUM severity.

CVSS3 Score: 5.5 - MEDIUM

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

CVSS2 Score: 2.1 - LOW

Access Vector	Access Complexity	Authentication
LOCAL	LOW	NONE
Confidentiality Impact	**Integrity Impact**	**Availability Impact**
PARTIAL	NONE	NONE

CVE References

Description	Tags	Link
kernel/git/torvalds/linux.git - Linux kernel source tree	Issue Tracking, Patch	CONFIRM git.kernel.org/cgit/linux/kernel/git/torvalds/linux.git/commit/?id=814fb7bb7db5433757d76f4c4502c96fc53b0b5e

	Third Party Advisory git.kernel.org text/html	
x86/fpu: Don't let userspace set bogus xcomp_bv · torvalds/linux@814fb7b · GitHub	Issue Tracking Patch Third Party Advisory github.com text/html	CONFIRM github.com/torvalds/linux/commit/814fb7bb7db5433757d76f4c4502c96fc53b0b5e
	Release Notes Vendor Advisory www.kernel.org text/plain	CONFIRM www.kernel.org/pub/linux/kernel/v4.x/ChangeLog-4.13.5
Pixel/Nexus Security Bulletin—January 2018 | Android Open Source Project	source.android.com text/html	CONFIRM source.android.com/security/bulletin/pixel/2018-01-01

There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Linux	Linux Kernel	All	All	All	All

cpe:2.3:o:linux:linux_kernel:*:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

← Previous ID

Next ID→