CVE-2023-4010

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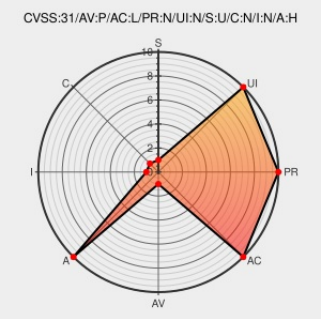

Certain versions of Linux Kernel from Linux contain the following vulnerability:

A flaw was found in the USB Host Controller Driver framework in the Linux kernel. The usb_giveback_urb function has a logic loophole in its implementation. Due to the inappropriate judgment condition of the goto statement, the function cannot return under the input of a specific malformed descriptor file, so it falls into an endless loop, resulting in a denial of service.

CVE-2023-4010 has been assigned by secalert@redhat.com to track the vulnerability - currently rated as MEDIUM severity.

CVSS3 Score: 4.6 - MEDIUM

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

CVE References

Description	Tags	Link
cve-details	access.redhat.com text/html	MISC access.redhat.com/security/cve/CVE-2023-4010
GitHub - wanrenmi/a-usb-kernel-bug: linux内核中的usb_giveback_urb函数在实现时存在逻辑漏洞，由于goto语句的判断条件不恰当，导致在特定的畸形描述符文件输入下该函数无法返回，陷入在死循环中占用CPU资源，导致拒绝服务攻击	github.com text/html	MISC github.com/wanrenmi/a-usb-kernel-bug
2227726 – (CVE-2023-4010) CVE-2023-4010 kernel: usb: hcd: malformed USB descriptor leads to infinite loop in usb_giveback_urb()	bugzilla.redhat.com text/html	MISC bugzilla.redhat.com/show_bug.cgi?id=2227726

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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
Operating System	Redhat	Enterprise Linux	8.0	All	All	All
Operating System	Redhat	Enterprise Linux	9.0	All	All	All

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

cpe:2.3:o:redhat:enterprise_linux:8.0:*:*:*:*:*:*:*:

cpe:2.3:o:redhat:enterprise_linux:9.0:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

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