of/irq: Prevent device address out-of-bounds read in interrupt map walk

MITRE | NVD | CVE.ORG | JSON API | Print: PDF

Summary

CVE	CVE-2024-46743
State	PUBLISHED
Assigner	Linux
Source Priority	CVE Program / NVD first with legacy fallback
Published	2024-09-18 08:15:03 UTC
Updated	2026-05-12 12:17:11 UTC
Description	In the Linux kernel, the following vulnerability has been resolved: of/irq: Prevent device address out-of-bounds read in interr

Risk And Classification

Primary CVSS: v3.1 7.1 HIGH from nvd@nist.gov

CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:H/I:N/A:H

Problem Types: CWE-125

CVSS v3.1 Breakdown

Attack Vector

Local

Attack Complexity

Low

Privileges Required

Low

User Interaction

None

Scope

Unchanged

Confidentiality

High

Integrity

None

Availability

High

CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:H/I:N/A:H

NVD Known Affected Configurations (CPE 2.3)

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

Vendor Declared Affected Products

Source	Vendor	Product	Version
CNA	Linux	Linux	affected cc9fd71c62f542233c412b5fabc1bbe0c4d5ac
CNA	Linux	Linux	affected cc9fd71c62f542233c412b5fabc1bbe0c4d5ac
CNA	Linux	Linux	affected cc9fd71c62f542233c412b5fabc1bbe0c4d5ac
CNA	Linux	Linux	affected cc9fd71c62f542233c412b5fabc1bbe0c4d5ac
CNA	Linux	Linux	affected cc9fd71c62f542233c412b5fabc1bbe0c4d5ac
CNA	Linux	Linux	affected cc9fd71c62f542233c412b5fabc1bbe0c4d5ac
CNA	Linux	Linux	affected cc9fd71c62f542233c412b5fabc1bbe0c4d5ac
CNA	Linux	Linux	affected cc9fd71c62f542233c412b5fabc1bbe0c4d5ac
CNA	Linux	Linux	affected 2.6.18
CNA	Linux	Linux	unaffected 2.6.18 semver
CNA	Linux	Linux	unaffected 4.19.322 4.19.* semver
CNA	Linux	Linux	unaffected 5.4.284 5.4.* semver
CNA	Linux	Linux	unaffected 5.10.226 5.10.* semver
CNA	Linux	Linux	unaffected 5.15.167 5.15.* semver
CNA	Linux	Linux	unaffected 6.1.110 6.1.* semver
CNA	Linux	Linux	unaffected 6.6.51 6.6.* semver
CNA	Linux	Linux	unaffected 6.10.10 6.10.* semver
CNA	Linux	Linux	unaffected 6.11 * original_commit_for_fix
ADP	Siemens	RUGGEDCOM RST2428P	affected V3.2 custom
ADP	Siemens	SCALANCE XC-300/XR-300/XC-400/XR-500WG/XR-500 Family	affected V3.2 custom
ADP	Siemens	SCALANCE XCM-/XRM-/XCH-/XRH-300 Family	affected V3.2 custom
ADP	Siemens	SIMATIC S7-1500 TM MFP - GNU/Linux Subsystem	affected * custom
ADP	Siemens	SIMATIC S7-1500 CPU 1518-4 PN/DP MFP	affected V3.1.0 V3.1.5 custom
ADP	Siemens	SIMATIC S7-1500 CPU 1518-4 PN/DP MFP	affected V3.1.0 V3.1.5 custom
ADP	Siemens	SIMATIC S7-1500 CPU 1518F-4 PN/DP MFP	affected V3.1.0 V3.1.5 custom
ADP	Siemens	SIMATIC S7-1500 CPU 1518F-4 PN/DP MFP	affected V3.1.0 V3.1.5 custom
ADP	Siemens	SIPLUS S7-1500 CPU 1518-4 PN/DP MFP	affected V3.1.0 V3.1.5 custom

References

Reference	Source	Link
cert-portal.siemens.com/productcert/html/ssa-398330.html	0b142b55-0307-4c5a-b3c9-f314f3fb7c5e	cert-portal.siemens.co
git.kernel.org/stable/c/bf68acd840b6a5bfd3777e0d5aaa204db6b461a9	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
git.kernel.org/stable/c/defcaa426ba0bc89ffdafb799d2e50b52f74ffc4	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
cert-portal.siemens.com/productcert/html/ssa-265688.html	0b142b55-0307-4c5a-b3c9-f314f3fb7c5e	cert-portal.siemens.co
git.kernel.org/stable/c/baaf26723beab3a04da578d3008be3544f83758f	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
git.kernel.org/stable/c/9d1e9f0876b03d74d44513a0ed3ed15ef8f2fed5	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
git.kernel.org/stable/c/7ead730af11ee7da107f16fc77995613c58d292d	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
lists.debian.org/debian-lts-announce/2024/10/msg00003.html	af854a3a-2127-422b-91ae-364da2661108	lists.debian.org
git.kernel.org/stable/c/d2a79494d8a5262949736fb2c3ac44d20a51b0d8	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
cert-portal.siemens.com/productcert/html/ssa-355557.html	0b142b55-0307-4c5a-b3c9-f314f3fb7c5e	cert-portal.siemens.co
git.kernel.org/stable/c/b739dffa5d570b411d4bdf4bb9b8dfd6b7d72305	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
lists.debian.org/debian-lts-announce/2025/01/msg00001.html	af854a3a-2127-422b-91ae-364da2661108	lists.debian.org
git.kernel.org/stable/c/8ff351ea12e918db1373b915c4c268815929cbe5	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
CVE Program record	CVE.ORG	www.cve.org
NVD vulnerability detail	NVD	nvd.nist.gov

No vendor comments have been submitted for this CVE.

There are currently no legacy QID mappings associated with this CVE.