

تمت مشاركة هذه المعلومة بإشارة مشاركة ***أبيض*** حيث Please note that this notification/advisory has been يسمح بتبادلها أو نشرها من خلال القنوات العامة.

> حماية الفضاء السيبراني الوطني، تود الهيئة مشاركتكم النشرة الأسبوعية للثغرات المسحلة من قبل the National Institute of Standards and Technology (NIST) National Vulnerability Database (NVD) للأسبوع من ٢١ أكتوبر إلى ٢٧ أكتوبر. علماً أنه بتم تصنيف هذه الثغرات باستخدام معبار Common Vulnerability Scoring System (CVSS) حيث يتم تصنيف الثغرات بناء على التالي:

tagged as TLP ***WHITE*** where information can be shared or published on any public forums.

في ضوء دور الهيئة الوطنية للأمن السيبراني للمساعدة في As part of NCA duties to help securing the cyberspace and protecting national interests, NCA provides the weekly summary of published vulnerabilities by the National Institute of Standards and Technology (NIST) National Vulnerability Database (NVD) for the week from 21st of October to 27th of October. Vulnerabilities are scored using the Common Vulnerability Scoring System (CVSS) standard as per the following severity:

- Critical: CVSS base score of 9.0-10.0
- High: CVSS base score of 7.0-8.9
- Medium: CVSS base score 4.0-6.9
- Low: CVSS base score 0.0-3.9

- عالى جدًا: النتيجة الأساسية LVSS 9.0-10.0
 - عالى: النتيجة الأساسية ل-8.9-CVSS 7.0
 - متوسط: النتيجة الأساسية لـCVSS 4.0-6.9
 - منخفض: النتىحة الأساسية لـ CVSS 0.0-3.9

CVE ID & Source	Vendor - Product	Description	Publish Date	CVSS Score	Severity
CVE-2024-47901	siemens -	A vulnerability has been identified in InterMesh 7177	2024-10-23	10	Critical
	intermesh	Hybrid 2.0 Subscriber (All versions < V8.2.12),			
	_7177_hy	InterMesh 7707 Fire Subscriber (All versions <			
	brid_2.0_s	V7.2.12 only if the IP interface is enabled (which is			
	ubscriber	not the default configuration)). The web server of			
		affected devices does not sanitize the input			
		parameters in specific GET requests that allow for			
		code execution on operating system level. In			
		combination with other vulnerabilities (CVE-2024-			
		47902, CVE-2024-47903, CVE-2024-47904) this could			
		allow an unauthenticated remote attacker to execute			
		arbitrary code with root privileges.			
CVE-2024-20329	cisco -	A vulnerability in the SSH subsystem of Cisco	2024-10-23	9.9	Critical
	Cisco	Adaptive Security Appliance (ASA) Software could			
	Adaptive	allow an authenticated, remote attacker to execute			
	Security	operating system commands as root. This			
	Appliance	vulnerability is due to insufficient validation of user			
	(ASA)	input. An attacker could exploit this vulnerability by			
	Software	submitting crafted input when executing remote CLI			
		commands over SSH. A successful exploit could allow			
		the attacker to execute commands on the underlying			
		operating system with root-level privileges. An			

		attacker with limited user privileges could use this			
		vulnerability to gain complete control over the			
		system.			
CVE-2024-20424	cisco -	A vulnerability in the web-based management	2024-10-23	9.9	Critical
012 202 1 20 12 1	multiple	interface of Cisco Secure Firewall Management	20212020	515	entiour
	products	Center (FMC) Software, formerly Firepower			
	products	Management Center Software, could allow an			
		authenticated, remote attacker to execute arbitrary			
		commands on the underlying operating system as			
		root. This vulnerability is due to insufficient input			
		validation of certain HTTP requests. An attacker could			
		exploit this vulnerability by authenticating to the			
		web-based management interface of an affected			
		device and then sending a crafted HTTP request to			
		the device. A successful exploit could allow the			
		attacker to execute arbitrary commands with root			
		permissions on the underlying operating system of			
		the Cisco FMC device or to execute commands on			
		managed Cisco Firepower Threat Defense (FTD)			
		devices. To exploit this vulnerability, the attacker			
		would need valid credentials for a user account with			
		at least the role of Security Analyst (Read Only).			
CVE-2024-43177	ibm -	IBM Concert 1.0.0 and 1.0.1 vulnerable to attacks	2024-10-22	9.8	Critical
	multiple	that rely on the use of cookies without the SameSite			
	products	attribute.			
<u>CVE-2024-47575</u>	fortinet -	A missing authentication for critical function in	2024-10-23	9.8	Critical
	multiple	FortiManager 7.6.0, FortiManager 7.4.0 through			
	products	7.4.4, FortiManager 7.2.0 through 7.2.7,			
		FortiManager 7.0.0 through 7.0.12, FortiManager			
		6.4.0 through 6.4.14, FortiManager 6.2.0 through			
		6.2.12, Fortinet FortiManager Cloud 7.4.1 through			
		7.4.4, FortiManager Cloud 7.2.1 through 7.2.7,			
		FortiManager Cloud 7.0.1 through 7.0.13,			
		FortiManager Cloud 6.4.1 through 6.4.7 allows			
		attacker to execute arbitrary code or commands via			
		specially crafted requests.			
CVE-2024-20412	cisco -	A vulnerability in Cisco Firepower Threat Defense	2024-10-23	9.3	Critical
	Cisco	(FTD) Software for Cisco Firepower 1000, 2100, 3100,			
	Firepower	and 4200 Series could allow an unauthenticated, local			
	Threat	attacker to access an affected system using static			
	Defense	credentials. This vulnerability is due to the presence			
	Software	of static accounts with hard-coded passwords on an			
		affected system. An attacker could exploit this			
		vulnerability by logging in to the CLI of an affected			
		device with these credentials. A successful exploit			
		could allow the attacker to access the affected			
		system and retrieve sensitive information, perform			
		limited troubleshooting actions, modify some			
		configuration options, or render the device unable to			
		boot to the operating system, requiring a reimage of			
		the device.			

CVE-2024-47685	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	9.1	Critical
012 202 1 17 000	multiple	been resolved:	20211021	5.1	Christian
	products	netfilter: nf_reject_ipv6: fix			
		nf_reject_ip6_tcphdr_put() syzbot reported that			
		nf_reject_ip6_tcphdr_put() was possibly sending			
		garbage on the four reserved tcp bits (th->res1) Use			
		skb_put_zero() to clear the whole TCP header, as			
		done in nf_reject_ip_tcphdr_put()			
		BUG: KMSAN: uninit-value in			
		nf_reject_ip6_tcphdr_put+0x688/0x6c0			
		net/ipv6/netfilter/nf_reject_ipv6.c:255			
		nf_reject_ip6_tcphdr_put+0x688/0x6c0			
		net/ipv6/netfilter/nf_reject_ipv6.c:255			
		nf_send_reset6+0xd84/0x15b0			
		net/ipv6/netfilter/nf_reject_ipv6.c:344			
		nft_reject_inet_eval+0x3c1/0x880			
		net/netfilter/nft_reject_inet.c:48			
		expr_call_ops_eval			
		net/netfilter/nf_tables_core.c:240 [inline]			
		nft_do_chain+0x438/0x22a0			
		net/netfilter/nf_tables_core.c:288			
		nft_do_chain_inet+0x41a/0x4f0			
		net/netfilter/nft_chain_filter.c:161			
		nf_hook_entry_hookfn include/linux/netfilter.h:154			
		[inline]			
		nf_hook_slow+0xf4/0x400 net/netfilter/core.c:626			
		nf_hook include/linux/netfilter.h:269 [inline]			
		NF_HOOK include/linux/netfilter.h:312 [inline] ipv6_rcv+0x29b/0x390 net/ipv6/ip6_input.c:310			
		netif_receive_skb_one_core net/core/dev.c:5661			
		[inline]			
		netif receive skb+0x1da/0xa00			
		net/core/dev.c:5775			
		process_backlog+0x4ad/0xa50 net/core/dev.c:6108			
		napi poll+0xe7/0x980 net/core/dev.c:6772			
		napi_poll net/core/dev.c:6841 [inline]			
		net rx action+0xa5a/0x19b0 net/core/dev.c:6963			
		handle_softirqs+0x1ce/0x800 kernel/softirq.c:554			
		do_softirq+0x14/0x1a kernel/softirq.c:588			
		do_softirq+0x9a/0x100 kernel/softirq.c:455			
		local_bh_enable_ip+0x9f/0xb0			
		kernel/softirq.c:382			
		local_bh_enable include/linux/bottom_half.h:33			
		[inline]			
		rcu_read_unlock_bh include/linux/rcupdate.h:908			
		[inline]			
		dev_queue_xmit+0x2692/0x5610			
		net/core/dev.c:4450			
		dev_queue_xmit include/linux/netdevice.h:3105			
		[inline]			
		neigh_resolve_output+0x9ca/0xae0			

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	net/core/neighbour.c:1565		
	neigh_output include/net/neighbour.h:542 [inline]		
	ip6_finish_output2+0x2347/0x2ba0		
	net/ipv6/ip6_output.c:141		
	ip6_finish_output net/ipv6/ip6_output.c:215		
	[inline]		
	ip6_finish_output+0xbb8/0x14b0		
	net/ipv6/ip6_output.c:226		
	NF_HOOK_COND include/linux/netfilter.h:303		
	[inline]		
	ip6_output+0x356/0x620 net/ipv6/ip6_output.c:247		
	dst_output include/net/dst.h:450 [inline]		
	NF_HOOK include/linux/netfilter.h:314 [inline]		
	ip6_xmit+0x1ba6/0x25d0 net/ipv6/ip6_output.c:366		
	inet6 csk xmit+0x442/0x530		
	net/ipv6/inet6_connection_sock.c:135		
	tcp_transmit_skb+0x3b07/0x4880		
	net/ipv4/tcp_output.c:1466		
	tcp_transmit_skb net/ipv4/tcp_output.c:1484		
	[inline]		
	tcp_connect+0x35b6/0x7130		
	net/ipv4/tcp_output.c:4143		
	tcp_v6_connect+0x1bcc/0x1e40		
	net/ipv6/tcp_ipv6.c:333		
	inet_stream_connect+0x2ef/0x1730		
	net/ipv4/af_inet.c:679		
	inet_stream_connect+0x6a/0xd0		
	net/ipv4/af_inet.c:750		
	do_sys_connect net/socket.c:2088 [inline]		
	se_sys_connect net/socket.c:2085 [inline]		
	x64_sys_connect+0x91/0xe0 net/socket.c:2085		
	x64_sys_call+0x27a5/0x3ba0 arch/x86/include/generated/asm/syscalls 64.h:43		
	do_syscall_x64 arch/x86/entry/common.c:52		
	[inline]		
	do_syscall_64+0xcd/0x1e0		
	arch/x86/entry/common.c:83		
	entry_SYSCALL_64_after_hwframe+0x77/0x7f		
	Uninit was stored to memory at:		
	nf_reject_ip6_tcphdr_put+0x60c/0x6c0		
	net/ipv6/netfilter/nf_reject_ipv6.c:249		
	nf_send_reset6+0xd84/0x15b0		
	net/ipv6/netfilter/nf_reject_ipv6.c:344		
	nft_reject_inet_eval+0x3c1/0x880		
	net/netfilter/nft_reject_inet.c:48		
	expr_call_ops_eval		
	net/netfilter/nf_tables_core.c:240 [inline]		
	nft_do_chain+0x438/0x22a0		

		net/netfilter/nf_tables_core.c:288			
		nft_do_chain_inet+0x41a/0x4f0			
		net/netfilter/nft_chain_filter.c:161			
		nf_hook_entry_hookfn include/linux/netfilter.h:154			
		[inline]			
		nf_hook_slow+0xf4/0x400 net/netfilter/core.c:626			
		nf_hook include/linux/netfilter.h:269 [inline]			
		NF_HOOK include/linux/netfilter.h:312 [inline]			
		ipv6_rcv+0x29b/0x390 net/ipv6/ip6_input.c:310			
		netif_receive_skb_one_core			
		truncated			
CVE-2024-46902	trendmicr	A vulnerability in Trend Micro Deep Discovery	2024-10-22	9.1	Critical
	0 -	Inspector (DDI) versions 5.8 and above could allow an			
	multiple	attacker to disclose sensitive information affected			
	products	installations. Please note: an attacker must first			
		obtain the ability to execute high-privileged code			
		(admin user rights) on the target system in order to			
		exploit this vulnerability.			
CVE-2024-26271	liferay -	Cross-site request forgery (CSRF) vulnerability in the	2024-10-22	8.8	High
	multiple	My Account widget in Liferay Portal 7.4.3.75 through			0
	products	7.4.3.111, and Liferay DXP 2023.Q4.0 through			
	P	2023.Q4.2, 2023.Q3.1 through 2023.Q3.5, 7.4 update			
		75 through update 92 and 7.3 update 32 through			
		update 36 allows remote attackers to (1) change user			
		passwords, (2) shut down the server, (3) execute			
		arbitrary code in the scripting console, (4) and			
		perform other administrative actions via the			
		_com_liferay_my_account_web_portlet_MyAccount			
		Portlet_backURL parameter.			
CVE-2024-26272	liferay -	Cross-site request forgery (CSRF) vulnerability in the	2024-10-22	8.8	High
012 202 1 20272	multiple	content page editor in Liferay Portal 7.3.2 through	20212022	0.0	
	products	7.4.3.107, and Liferay DXP 2023.Q4.0 through			
	produces	2023.Q4.2, 2023.Q3.1 through 2023.Q3.5, 7.4 GA			
		through update 92 and 7.3 GA through update 35			
		allows remote attackers to (1) change user			
		passwords, (2) shut down the server, (3) execute			
		arbitrary code in the scripting console, (4) and			
		perform other administrative actions via the			
		p_l_back_url parameter.			
CVE-2024-26273	liferay -	Cross-site request forgery (CSRF) vulnerability in the	2024-10-22	8.8	High
<u>UVL 2024-202/3</u>	multiple	content page editor in Liferay Portal 7.4.0 through	2024-10-22	0.0	i ligit
	products	7.4.3.103, and Liferay DXP 2023.Q4.0 through			
	products	2023.Q4.2, 2023.Q3.1 through 2023.Q3.5, 7.4 GA			
		through update 92 and 7.3 update 29 through update			
		35 allows remote attackers to (1) change user			
		passwords, (2) shut down the server, (3) execute			
		arbitrary code in the scripting console, (4) and			
		perform other administrative actions via the			
		_com_liferay_commerce_catalog_web_internal_portl			
		et_CommerceCatalogsPortlet_redirect parameter.			

CV/F 2024 20002	1:6		2024 40 22	0.0	111-1-
<u>CVE-2024-38002</u>	liferay -	The workflow component in Liferay Portal 7.3.2	2024-10-22	8.8	High
	multiple	through 7.4.3.111, and Liferay DXP 2023.Q4.0			
	products	through 2023.Q4.5, 2023.Q3.1 through 2023.Q3.8,			
		7.4 GA through update 92 and 7.3 GA through update			
		36 does not properly check user permissions before			
		updating a workflow definition, which allows remote			
		authenticated users to modify workflow definitions			
		and execute arbitrary code (RCE) via the headless API.			
<u>CVE-2024-45518</u>	zimbra -	An issue was discovered in Zimbra Collaboration (ZCS)	2024-10-22	8.8	High
	multiple	10.1.x before 10.1.1, 10.0.x before 10.0.9, 9.0.0			
	products	before Patch 41, and 8.8.15 before Patch 46. It allows			
		authenticated users to exploit Server-Side Request			
		Forgery (SSRF) due to improper input sanitization and			
		misconfigured domain whitelisting. This issue permits			
		unauthorized HTTP requests to be sent to internal			
		services, which can lead to Remote Code Execution			
		(RCE) by chaining Command Injection within the			
		internal service. When combined with existing XSS			
		vulnerabilities, this SSRF issue can further facilitate			
		Remote Code Execution (RCE).			
<u>CVE-2024-10230</u>	google -	Type Confusion in V8 in Google Chrome prior to	2024-10-22	8.8	High
	chrome	130.0.6723.69 allowed a remote attacker to			
		potentially exploit heap corruption via a crafted			
		HTML page. (Chromium security severity: High)			
<u>CVE-2024-10231</u>	google -	Type Confusion in V8 in Google Chrome prior to	2024-10-22	8.8	High
	chrome	130.0.6723.69 allowed a remote attacker to			
		potentially exploit heap corruption via a crafted			
		HTML page. (Chromium security severity: High)			
<u>CVE-2024-47014</u>	google -	Android before 2024-10-05 on Google Pixel devices	2024-10-25	8.8	High
	Android	allows privilege escalation in the ABL component, A-			
		330537292.			
<u>CVE-2024-20260</u>	cisco -	A vulnerability in the VPN and management web	2024-10-23	8.6	High
	multiple	servers of the Cisco Adaptive Security Virtual			
	products	Appliance (ASAv) and Cisco Secure Firewall Threat			
		Defense Virtual (FTDv), formerly Cisco Firepower			
		Threat Defense Virtual, platforms could allow an			
		unauthenticated, remote attacker to cause the virtual			
		devices to run out of system memory, which could			
		cause SSL VPN connection processing to slow down			
		and eventually cease all together. This vulnerability is			
		due to a lack of proper memory management for new			
		incoming SSL/TLS connections on the virtual			
		platforms. An attacker could exploit this vulnerability			
		by sending a large number of new incoming SSL/TLS			
		connections to the targeted virtual platform. A			
		successful exploit could allow the attacker to deplete			
		system memory, resulting in a denial of service			
		(DoS) condition. The memory could be reclaimed			
		slowly if the attack traffic is stopped, but a manual			
		reload may be required to restore operations quickly.			

01/5 2024 20220			2024 40 22	0.0	112.1
<u>CVE-2024-20330</u>	cisco -	A vulnerability in the Snort 2 and Snort 3 TCP and	2024-10-23	8.6	High
	Cisco	UDP detection engine of Cisco Firepower Threat			
	Firepower	Defense (FTD) Software for Cisco Firepower 2100			
	Threat	Series Appliances could allow an unauthenticated,			
	Defense	remote attacker to cause memory corruption, which			
	Software	could cause the Snort detection engine to restart			
		unexpectedly. This vulnerability is due to improper			
		memory management when the Snort detection			
		engine processes specific TCP or UDP packets. An			
		attacker could exploit this vulnerability by sending			
		crafted TCP or UDP packets through a device that is			
		inspecting traffic using the Snort detection engine. A			
		successful exploit could allow the attacker to restart			
		the Snort detection engine repeatedly, which could			
		cause a denial of service (DoS) condition. The DoS			
		condition impacts only the traffic through the device			
		that is examined by the Snort detection engine. The			
		device can still be managed over the network.			
		Note: Once a memory block is corrupted, it cannot be			
		cleared until the Cisco Firepower 2100 Series			
		Appliance is manually reloaded. This means that the			
		Snort detection engine could crash repeatedly,			
		causing traffic that is processed by the Snort			
		detection engine to be dropped until the device is			
		manually reloaded.			
CVE-2024-20339	cisco -	A vulnerability in the TLS processing feature of Cisco	2024-10-23	8.6	High
	Cisco	Firepower Threat Defense (FTD) Software for Cisco			
	Firepower	Firepower 2100 Series could allow an			
	Threat	unauthenticated, remote attacker to cause a denial of			
	Defense	service (DoS) condition on an affected device. This			
	Software	vulnerability is due to an issue that occurs when TLS			
		traffic is processed. An attacker could exploit this			
		vulnerability by sending certain TLS traffic over IPv4			
		through an affected device. A successful exploit could			
		allow the attacker to cause the device to reload,			
		resulting in a DoS condition and impacting traffic to			
		and through the affected device.			
<u>CVE-2024-20351</u>	cisco -	A vulnerability in the TCP/IP traffic handling function	2024-10-23	8.6	High
	Cisco	of the Snort Detection Engine of Cisco Firepower			
	Firepower	Threat Defense (FTD) Software and Cisco FirePOWER			
	Threat	Services could allow an unauthenticated, remote			
	Defense	attacker to cause legitimate network traffic to be			
	Software	dropped, resulting in a denial of service (DoS)			
		condition. This vulnerability is due to the improper			
		handling of TCP/IP network traffic. An attacker could			
		exploit this vulnerability by sending a large amount of			
		TCP/IP network traffic through the affected device. A			
		successful exploit could allow the attacker to cause			
		the Cisco FTD device to drop network traffic, resulting			
		in a DoS condition. The affected device must be			
		rebooted to resolve the DoS condition.			

CVE-2024-20402	cisco -	A vulnerability in the SSL VPN feature for Cisco	2024-10-23	8.6	High
<u>CVL-2024-20402</u>	multiple	Adaptive Security Appliance (ASA) Software and Cisco	2024-10-23	0.0	Ingi
	products	Firepower Threat Defense (FTD) Software could allow			
	products	an unauthenticated, remote attacker to cause an			
		affected device to reload unexpectedly, resulting in a			
		denial of service (DoS) condition. This vulnerability is			
		due to a logic error in memory management when			
		the device is handling SSL VPN connections. An			
		attacker could exploit this vulnerability by sending			
		crafted SSL/TLS packets to the SSL VPN server of the			
		affected device. A successful exploit could allow the			
		attacker to cause the device to reload, resulting in a			
		DoS condition.			
CVE-2024-20426	cisco -	A vulnerability in the Internet Key Exchange version 2	2024-10-23	8.6	High
	multiple	(IKEv2) protocol for VPN termination of Cisco		0.0	
	products	Adaptive Security Appliance (ASA) Software and Cisco			
	1	Firepower Threat Defense (FTD) Software could allow			
		an unauthenticated, remote attacker to cause a			
		denial of service (DoS) condition on an affected			
		device. This vulnerability is due to insufficient input			
		validation. An attacker could exploit this vulnerability			
		by sending crafted IKEv2 traffic to an affected device.			
		A successful exploit could allow the attacker to cause			
		the device to reload, resulting in a DoS condition.			
CVE-2024-20494	cisco -	A vulnerability in the TLS cryptography functionality	2024-10-23	8.6	High
	multiple	of Cisco Adaptive Security Appliance (ASA) Software			-
	products	and Cisco Firepower Threat Defense (FTD) Software			
		could allow an unauthenticated, remote attacker to			
		cause the device to reload unexpectedly, resulting in			
		a denial of service (DoS) condition. This vulnerability			
		is due to improper data validation during the TLS 1.3			
		handshake. An attacker could exploit this			
		vulnerability by sending a crafted TLS 1.3 packet to an			
		affected system through a TLS 1.3-enabled listening			
		socket. A successful exploit could allow the attacker			
		to cause the device to reload, resulting in a DoS			
		condition. Note: This vulnerability can also impact the			
		integrity of a device by causing VPN HostScan			
		communication failures or file transfer failures when			
		Cisco ASA Software is upgraded using Cisco Adaptive			
01/5 2024 202405		Security Device Manager (ASDM).	2024 46 55		
<u>CVE-2024-20495</u>	cisco -	A vulnerability in the Remote Access VPN feature of	2024-10-23	8.6	High
	multiple	Cisco Adaptive Security Appliance (ASA) Software and			
	products	Cisco Firepower Threat Defense (FTD) Software could			
		allow an unauthenticated, remote attacker to cause			
		the device to reload unexpectedly, resulting in a			
		denial of service (DoS) condition on an affected device. This vulnerability is due to improper			
		validation of client key data after the TLS session is			
		established. An attacker could exploit this			
		vulnerability by sending a crafted key value to an			
		vumerability by sending a craited key value to all			

		affected system over the secure TLS session. A			
		successful exploit could allow the attacker to cause			
CVE 2024 47004		the device to reload, resulting in a DoS condition.	2024-10-23	0 5	Lliah
<u>CVE-2024-47904</u>	siemens -	A vulnerability has been identified in InterMesh 7177	2024-10-23	8.5	High
	intermesh	Hybrid 2.0 Subscriber (All versions < V8.2.12),			
	_7177_hy	InterMesh 7707 Fire Subscriber (All versions <			
	brid_2.0_s	V7.2.12 only if the IP interface is enabled (which is			
	ubscriber	not the default configuration)). The affected devices			
		contain a SUID binary that could allow an			
		authenticated local attacker to execute arbitrary			
		commands with root privileges.			
<u>CVE-2024-5608</u>	manageen	Zohocorp ManageEngine ADAudit Plus versions	2024-10-24	8.3	High
	gine -	below 8121 are vulnerable to SQL Injection in the			
	ADAudit	technician reports feature.			
	Plus				
CVE-2024-10229	google -	Inappropriate implementation in Extensions in	2024-10-22	8.1	High
	chrome	Google Chrome prior to 130.0.6723.69 allowed a			
		remote attacker to bypass site isolation via a crafted			
		Chrome Extension. (Chromium security severity:			
		High)			
CVE-2024-47023	google -	there is a possible man-in-the-middle attack due to a	2024-10-25	8.1	High
	android	logic error in the code. This could lead to remote			
		escalation of privilege with no additional execution			
		privileges needed. User interaction is not needed for			
		exploitation.			
CVE-2024-47675	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products	bpf: Fix use-after-free in			
		<pre>bpf_uprobe_multi_link_attach() If bpf_link_prime()</pre>			
		fails, bpf_uprobe_multi_link_attach() goes to the			
		error_free label and frees the array of bpf_uprobe's			
		without calling bpf_uprobe_unregister(). This leaks			
		<pre>bpf_uprobe->uprobe and worse, this frees</pre>			
		bpf_uprobe->consumer without removing it from the			
		uprobe->consumers list.			
CVE-2024-47676	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products	mm/hugetlb.c: fix UAF of vma in hugetlb fault			
		pathway			
		Syzbot reports a UAF in hugetIb_fault(). This happens			
		because vmf_anon_prepare() could drop the per-			
		VMA lock and allow the current VMA to be freed			
		before hugetlb_vma_unlock_read() is called. We can			
		before hugetlb_vma_unlock_read() is called. We can			
		before hugetlb_vma_unlock_read() is called. We can fix this by using a modified version of vmf_anon_prepare() that			
		before hugetlb_vma_unlock_read() is called. We can fix this by using a modified version of			
		before hugetlb_vma_unlock_read() is called. We can fix this by using a modified version of vmf_anon_prepare() that doesn't release the VMA lock on failure, and then release it ourselves			
CVE-2024-47682	linux -	before hugetlb_vma_unlock_read() is called. We can fix this by using a modified version of vmf_anon_prepare() that doesn't release the VMA lock on failure, and then release it ourselves after hugetlb_vma_unlock_read().	2024-10-21	7.8	High
<u>CVE-2024-47682</u>	linux - multiple	before hugetlb_vma_unlock_read() is called. We can fix this by using a modified version of vmf_anon_prepare() that doesn't release the VMA lock on failure, and then release it ourselves	2024-10-21	7.8	High

		ad wood black shows to the A		I	
		sd_read_block_characteristics()			
		Ff the device returns page 0xb1 with length 8			
		(happens with qemu v2.x, for			
		example), sd_read_block_characteristics() may			
		attempt an out-of-bounds memory access when			
0.15.0004.45004		accessing the zoned field at offset 8.			
<u>CVE-2024-47691</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products	f2fs: fix to avoid use-after-free in			
		f2fs_stop_gc_thread()			
		syzbot reports a f2fs bug as below:			
		dump_stack lib/dump_stack.c:88 [inline]			
		dump_stack_lvl+0x241/0x360 lib/dump_stack.c:114			
		print_report+0xe8/0x550 mm/kasan/report.c:491			
		kasan_report+0x143/0x180 mm/kasan/report.c:601			
		kasan_check_range+0x282/0x290			
		mm/kasan/generic.c:189			
		instrument_atomic_read_write include/linux/instrumented.h:96 [inline]			
		atomic fetch add relaxed			
		include/linux/atomic/atomic-instrumented.h:252			
		[inline]			
		refcount_add include/linux/refcount.h:184 [inline]			
		refcount_inc include/linux/refcount.h:241 [inline]			
		refcount_inc include/linux/refcount.h:258 [inline]			
		get_task_struct include/linux/sched/task.h:118			
		[inline]			
		kthread_stop+0xca/0x630 kernel/kthread.c:704			
		f2fs_stop_gc_thread+0x65/0xb0 fs/f2fs/gc.c:210			
		f2fs_do_shutdown+0x192/0x540 fs/f2fs/file.c:2283			
		f2fs_ioc_shutdown fs/f2fs/file.c:2325 [inline]			
		f2fs_ioctl+0x443a/0xbe60 fs/f2fs/file.c:4325			
		vfs_ioctl fs/ioctl.c:51 [inline]			
		do_sys_ioctl fs/ioctl.c:907 [inline]			
		se_sys_ioctl+0xfc/0x170 fs/ioctl.c:893			
		do_syscall_x64 arch/x86/entry/common.c:52 [inline]			
		do_syscall_64+0xf3/0x230			
		arch/x86/entry/common.c:83			
		entry_SYSCALL_64_after_hwframe+0x77/0x7f			
		The root cause is below race condition, it may cause			
		use-after-free			
		issue in sbi->gc_th pointer.			
		- remount			
		- f2fs_remount			
		- f2fs_stop_gc_thread			
		- kfree(gc_th)			
		- f2fs_ioc_shutdown			
		- f2fs_do_shutdown			
		- f2fs_stop_gc_thread			
		<pre>- kthread_stop(gc_th->f2fs_gc_task)</pre>			
		: sbi->gc_thread = NULL;			

		We will call \$25a day about day or () in two wat have			
		We will call f2fs_do_shutdown() in two paths:			
		- for f2fs_ioc_shutdown() path, we should grab sb-			
		>s_umount semaphore			
		for fixing.			
		- for f2fs_shutdown() path, it's safe since caller has			
		already grabbed			
		sb->s_umount semaphore.			
<u>CVE-2024-47695</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products	RDMA/rtrs-clt: Reset cid to con_num - 1 to stay in			
		bounds			
		In the function init_conns(), after the create_con()			
		and create_cm() for			
		loop if something fails. In the cleanup for loop after			
		the destroy tag, we			
		access out of bound memory because cid is set to			
		clt_path->s.con_num.			
		This commits resets the cid to clt_path->s.con_num -			
		1, to stay in bounds			
		in the cleanup loop later.			
<u>CVE-2024-47696</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products	RDMA/iwcm: Fix			
		WARNING:at_kernel/workqueue.c:#check_flush_dep			
		endency			
		In the commit aee2424246f9 ("RDMA/iwcm: Fix a			
		use-after-free related to			
		destroying CM IDs"), the function flush_workqueue is			
		invoked to flush the			
		work queue iwcm_wq.			
		But at that time, the work queue iwcm_wq was			
		created via the function			
		alloc_ordered_workqueue without the flag			
		WQ_MEM_RECLAIM.			
		Because the current process is trying to flush the			
		whole iwcm_wq, if			
		iwcm_wq doesn't have the flag WQ_MEM_RECLAIM,			
		verify that the current			
		process is not reclaiming memory or running on a			
		workqueue which doesn't			
		have the flag WQ_MEM_RECLAIM as that can break			
		forward-progress guarantee			
		leading to a deadlock. The call trace is as below:			
		[125.350876][T1430] Call Trace:			
		[125.356281][T1430] <task></task>			
		[125.361285][T1430]?warn (kernel/panic.c:693)			
		[125.367640][T1430] ? check_flush_dependency (kernel/workqueue.c:3706 (discriminator 9))			
		[125.375689][T1430] ? report_bug (lib/bug.c:180			
		[125.375689][11430] ? report_bug (10/bug.c:180 lib/bug.c:219)			
		IID/ DUB.C.213)			

r		1	
	[125.382505][T1430] ? handle_bug		
	(arch/x86/kernel/traps.c:239)		
	[125.388987][T1430] ? exc_invalid_op		
	(arch/x86/kernel/traps.c:260 (discriminator 1))		
	[125.395831][T1430] ? asm_exc_invalid_op		
	(arch/x86/include/asm/idtentry.h:621)		
	[125.403125][T1430] ? check_flush_dependency		
	(kernel/workqueue.c:3706 (discriminator 9))		
	[125.410984][T1430] ? check_flush_dependency		
	(kernel/workqueue.c:3706 (discriminator 9))		
	[125.418764][T1430]flush_workqueue		
	(kernel/workqueue.c:3970)		
	[125.426021][T1430] ?pfxmight_resched		
	(kernel/sched/core.c:10151)		
	[125.433431][T1430] ? destroy_cm_id		
	(drivers/infiniband/core/iwcm.c:375) iw_cm		
	[125.441209][T1430] ?pfxflush_workqueue		
	(kernel/workqueue.c:3910)		
	[125.473900][T1430] ? _raw_spin_lock_irqsave		
	(arch/x86/include/asm/atomic.h:107		
	include/linux/atomic/atomic-arch-fallback.h:2170		
	include/linux/atomic/atomic-instrumented.h:1302		
	include/asm-generic/qspinlock.h:111		
	include/linux/spinlock.h:187		
	include/linux/spinlock_api_smp.h:111		
	kernel/locking/spinlock.c:162)		
	[125.473909][T1430] ?		
	pfxraw_spin_lock_irqsave		
	(kernel/locking/spinlock.c:161)		
	[125.482537][T1430] _destroy_id		
	(drivers/infiniband/core/cma.c:2044) rdma_cm		
	[125.495072][T1430] nvme_rdma_free_queue		
	(drivers/nvme/host/rdma.c:656		
	drivers/nvme/host/rdma.c:650) nvme_rdma		
	[125.505827][T1430] nvme_rdma_reset_ctrl_work		
	(drivers/nvme/host/rdma.c:2180) nvme_rdma		
	[125.505831][T1430] process_one_work		
	(kernel/workqueue.c:3231)		
	[125.515122][T1430] worker_thread		
	(kernel/workqueue.c:3306 kernel/workqueue.c:3393)		
	[125.515127][T1430] ? pfx worker thread		
	(kernel/workqueue.c:3339)		
	[125.531837][T1430] kthread (kernel/kthread.c:389)		
	[125.539864][T1430] ?pfx_kthread		
	(kernel/kthread.c:342)		
	[125.550628][T1430] ret_from_fork		
	(arch/x86/kernel/process.c:147)		
	[125.558840][T1430] ?pfx_kthread		
	(kernel/kthread.c:342)		
	[125.558844][T1430] ret_from_fork_asm		
	[125.558844][11430] ret_from_fork_asm (arch/x86/entry/entry_64.S:257)		
	(arch/x00/end/y/end/y_04.3.23/)		

		[125.566487][T1430]			
		[125.566488][T1430][end trace			
		000000000000000000000000000000000000000			
CVE-2024-47697	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
<u>CVE-2024-47097</u>		been resolved:	2024-10-21	7.0	півн
	multiple				
	products	drivers: media: dvb-frontends/rtl2830: fix an out-of-			
		bounds write error			
		Ensure index in rtl2830_pid_filter does not exceed 31			
		to prevent			
		out-of-bounds access.			
		dev->filters is a 32-bit value, so set_bit and clear_bit			
		functions should			
		only operate on indices from 0 to 31. If index is 32, it			
		will attempt to			
		access a non-existent 33rd bit, leading to out-of-			
		bounds access.			
		Change the boundary check from index > 32 to index			
		>= 32 to resolve this			
		issue.			
<u>CVE-2024-47698</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products	drivers: media: dvb-frontends/rtl2832: fix an out-of-			
		bounds write error			
		Ensure index in rtl2832_pid_filter does not exceed 31			
		to prevent			
		out-of-bounds access.			
		dev->filters is a 32-bit value, so set_bit and clear_bit			
		functions should			
		only operate on indices from 0 to 31. If index is 32, it			
		will attempt to			
		access a non-existent 33rd bit, leading to out-of-			
		bounds access.			
		Change the boundary check from index > 32 to index			
		>= 32 to resolve this			
		issue.			
		[hverkuil: added fixes tag, rtl2830_pid_filter ->			
		rtl2832_pid_filter in logmsg]			
<u>CVE-2024-47701</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products	ext4: avoid OOB when system.data xattr changes			
		underneath the filesystem			
		When looking up for an entry in an inlined directory,			
		if e_value_offs is			
		changed underneath the filesystem by some change			
		in the block device, it			
		will lead to an out-of-bounds access that KASAN			
		detects as an UAF.			
		EXT4-fs (loop0): mounted filesystem 00000000-0000-			
		0000-0000-000000000000 r/w without journal.			
		Quota mode: none.			
		loop0: detected capacity change from 2048 to 2047			

BUG: KASAN: use-after-free in		
ext4_search_dir+0xf2/0x1c0 fs/ext4/namei.c:1500		
Read of size 1 at addr ffff88803e91130f by task syz-		
executor269/5103		
CPU: 0 UID: 0 PID: 5103 Comm: syz-executor269 Not		
tainted 6.11.0-rc4-syzkaller #0		
Hardware name: QEMU Standard PC (Q35 + ICH9,		
2009), BIOS 1.16.3-debian-1.16.3-2~bpo12+1		
04/01/2014		
Call Trace:		
<task></task>		
dump_stack lib/dump_stack.c:93 [inline]		
dump_stack_lvl+0x241/0x360 lib/dump_stack.c:119		
print_address_description mm/kasan/report.c:377		
[inline]		
print_report+0x169/0x550 mm/kasan/report.c:488		
kasan_report+0x143/0x180 mm/kasan/report.c:601		
ext4_search_dir+0xf2/0x1c0 fs/ext4/namei.c:1500		
ext4_find_inline_entry+0x4be/0x5e0		
fs/ext4/inline.c:1697		
ext4_find_entry+0x2b4/0x1b30		
fs/ext4/namei.c:1573		
ext4_lookup_entry fs/ext4/namei.c:1727 [inline]		
ext4_lookup+0x15f/0x750 fs/ext4/namei.c:1795		
lookup_one_qstr_excl+0x11f/0x260 fs/namei.c:1633		
filename_create+0x297/0x540 fs/namei.c:3980		
do_symlinkat+0xf9/0x3a0 fs/namei.c:4587		
do_sys_symlinkat fs/namei.c:4610 [inline]		
se_sys_symlinkat fs/namei.c:4607 [inline]		
x64_sys_symlinkat+0x95/0xb0 fs/namei.c:4607		
do_syscall_x64 arch/x86/entry/common.c:52 [inline]		
do_syscall_64+0xf3/0x230		
arch/x86/entry/common.c:83		
entry_SYSCALL_64_after_hwframe+0x77/0x7f		
RIP: 0033:0x7f3e73ced469		
Code: 28 00 00 00 75 05 48 83 c4 28 c3 e8 21 18 00		
00 90 48 89 f8 48 89 f7 48 89 d6 48 89 ca 4d 89 c2 4d		
89 c8 4c 8b 4c 24 08 0f 05 <48> 3d 01 f0 ff ff 73 01 c3		
48 c7 c1 b8 ff ff ff f7 d8 64 89 01 48		
RSP: 002b:00007fff4d40c258 EFLAGS: 00000246		
ORIG_RAX: 000000000000010a		
RAX: ffffffffffffffda RBX: 0032656c69662f2e RCX:		
00007f3e73ced469		
RDX: 000000020000200 RSI: 00000000ffffff9c RDI:		
0000000200001c0		
RBP: 000000000000000 R08: 00007fff4d40c290		
R09: 00007fff4d40c290		
R10: 0023706f6f6c2f76 R11: 000000000000246 R12:		
00007fff4d40c27c		
R13: 000000000000003 R14: 431bde82d7b634db		
	II	

		R15: 00007fff4d40c2b0			
		Calling ext4_xattr_ibody_find right after reading the			
		inode with			
		ext4_get_inode_loc will lead to a check of the validity			
		of the xattrs, avoiding this problem.			
<u>CVE-2024-47711</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products	af_unix: Don't return OOB skb in manage_oob().			
		syzbot reported use-after-free in			
		unix_stream_recv_urg(). [0]			
		The scenario is			
		1. send(MSG_OOB)			
		2. recv(MSG_OOB)			
		-> The consumed OOB remains in recv queue			
		3. send(MSG_OOB)			
		4. recv()			
		-> manage_oob() returns the next skb of the			
		consumed OOB			
		-> This is also OOB, but unix_sk(sk)->oob_skb is not			
		cleared			
		5. recv(MSG_OOB)			
		-> unix_sk(sk)->oob_skb is used but already freed			
		The recent commit 8594d9b85c07 ("af_unix: Don't			
		call skb_get() for OOB			
		skb.") uncovered the issue.			
		If the OOB skb is consumed and the next skb is			
		peeked in manage_oob(),			
		we still need to check if the skb is OOB.			
		Let's do so by falling back to the following checks in			
		manage_oob() and add the test case in selftest.			
		Note that we need to add a similar check for			
		SIOCATMARK.			
		[0]:			
		BUG: KASAN: slab-use-after-free in			
		unix_stream_read_actor+0xa6/0xb0			
		net/unix/af_unix.c:2959			
		Read of size 4 at addr ffff8880326abcc4 by task syz-			
		executor178/5235			
		CPU: 0 UID: 0 PID: 5235 Comm: syz-executor178 Not			
		tainted 6.11.0-rc5-syzkaller-00742-gfbdaffe41adc #0			
		Hardware name: Google Google Compute			
		Engine/Google Compute Engine, BIOS Google			
		08/06/2024			
		Call Trace:			
		<task></task>			
		dump_stack lib/dump_stack.c:93 [inline]			
		dump_stack_lvl+0x241/0x360 lib/dump_stack.c:119			
		print_address_description mm/kasan/report.c:377			
		[inline]			
		print_report+0x169/0x550 mm/kasan/report.c:488			

	I	
kasan_report+0x143/0x180 mm/kasan/report.c:601		
unix_stream_read_actor+0xa6/0xb0		
net/unix/af_unix.c:2959		
unix_stream_recv_urg+0x1df/0x320		
net/unix/af_unix.c:2640		
unix_stream_read_generic+0x2456/0x2520		
net/unix/af_unix.c:2778		
unix_stream_recvmsg+0x22b/0x2c0		
net/unix/af_unix.c:2996		
sock_recvmsg_nosec net/socket.c:1046 [inline]		
sock_recvmsg+0x22f/0x280 net/socket.c:1068		
sys_recvmsg+0x1db/0x470 net/socket.c:2816		
sys_recvmsg net/socket.c:2858 [inline]		
sys_recvmsg+0x2f0/0x3e0 net/socket.c:2888		
do_syscall_x64 arch/x86/entry/common.c:52 [inline]		
do_syscall_64+0xf3/0x230		
arch/x86/entry/common.c:83		
entry_SYSCALL_64_after_hwframe+0x77/0x7f		
RIP: 0033:0x7f5360d6b4e9		
Code: 48 83 c4 28 c3 e8 37 17 00 00 0f 1f 80 00 00 00		
00 48 89 f8 48 89 f7 48 89 d6 48 89 ca 4d 89 c2 4d 89		
c8 4c 8b 4c 24 08 0f 05 <48> 3d 01 f0 ff ff 73 01 c3 48		
c7 c1 b8 ff ff f7 d8 64 89 01 48		
RSP: 002b:00007fff29b3a458 EFLAGS: 00000246		
ORIG_RAX: 00000000000002f		
RAX: fffffffffffffda RBX: 00007fff29b3a638 RCX:		
00007f5360d6b4e9		
RDX: 000000000000001 RSI: 000000002000640		
RDI: 000000000000003		
RBP: 00007f5360dde610 R08: 000000000000000		
R09: 000000000000000		
R10: 00000000000000 R11: 00000000000246		
R12: 000000000000001		
R13: 00007fff29b3a628 R14: 0000000000000001		
R15: 000000000000001		
Allocated by task 5235:		
kasan_save_stack mm/kasan/common.c:47 [inline]		
kasan_save_track+0x3f/0x80		
mm/kasan/common.c:68		
unpoison_slab_object mm/kasan/common.c:312		
[inline]		
kasan_slab_alloc+0x66/0x80		
mm/kasan/common.c:338		
kasan_slab_alloc include/linux/kasan.h:201 [inline]		
slab_post_alloc_hook mm/slub.c:3988 [inline]		
slab_alloc_node mm/slub.c:4037 [inline]		
kmem_cache_alloc_node_noprof+0x16b/0x320		
mm/slub.c:4080		
alloc_skb+0x1c3/0x440 net/core/skbuff.c:667		
alloc_skb include/linux/skbuff.h:1320 [inline]		
	1	1

[1	· · · · · ·			1
		alloc_skb_with_frags+0xc3/0x770			
		net/core/skbuff.c:6528			
		sock_alloc_send_pskb+0x91a/0xa60			
		net/core/sock.c:2815			
		<pre>sock_alloc_send_skb include/net/sock.h:1778</pre>			
		[inline]			
		queue_oob+0x108/0x680 net/unix/af_unix.c:2198			
		unix_stream_sendmsg+0xd24/0xf80			
		net/unix/af_unix.c:2351			
		<pre>sock_sendmsg_nosec net/socket.c:730 [inline]</pre>			
		<pre>sock_sendmsg+0x221/0x270 net/socket.c:745</pre>			
		sys_sendmsg+0x525/0x7d0 net/socket.c:2597			
		sys_sendmsg net/socket.c:2651 [inline]			
		sys_sendmsg+0x2b0/0x3a0 net/socket.c:2680			
		do_syscall_x64 arch/x86/entry/common.c:52 [inline]			
		do_syscall_64+0xf3/0x230			
		arch/x86/entry/common.c:83			
		entry_SYSCALL_64_after_hwframe+0x77/0x7f			
		Freed by task 5235:			
		kasan_save_stack mm/kasan/common.c:47			
		truncated			
CVE-2024-47718	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products	wifi: rtw88: always wait for both firmware loading			
	p	attempts In 'rtw_wait_firmware_completion()',			
		always wait for both (regular and			
		wowlan) firmware loading attempts. Otherwise if			
		'rtw_usb_intf_init()'			
		has failed in 'rtw_usb_probe()',			
		'rtw_usb_disconnect()' may issue			
		'ieee80211_free_hw()' when one of			
		'rtw_load_firmware_cb()' (usually			
		the wowlan one) is still in progress, causing UAF			
		detected by KASAN.			
CVE-2024-47719	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
<u>CVE 2021 17715</u>	multiple	been resolved:	20211021	7.0	
	products	iommufd: Protect against overflow of ALIGN() during			
	products	iova allocation			
		Userspace can supply an iova and uptr such that the			
		target iova alignment			
		becomes really big and ALIGN() overflows which			
		corrupts the selected area			
		range during allocation. CONFIG_IOMMUFD_TEST			
		can detect this:			
		WARNING: CPU: 1 PID: 5092 at			
		drivers/iommu/iommufd/io_pagetable.c:268			
		iopt_alloc_area_pages			
		drivers/iommu/iommufd/io_pagetable.c:268 [inline]			
		WARNING: CPU: 1 PID: 5092 at			
		drivers/iommu/iommufd/io_pagetable.c:268			
		iopt_map_pages+0xf95/0x1050			
	1				

	drivers lienne liener of lie seast-ble - 252	1
	drivers/iommu/iommufd/io_pagetable.c:352	
	Modules linked in:	
	CPU: 1 PID: 5092 Comm: syz-executor294 Not	
	tainted 6.10.0-rc5-syzkaller-00294-g3ffea9a7a6f7 #0	
	Hardware name: Google Google Compute	
	Engine/Google Compute Engine, BIOS Google	
	06/07/2024	
	RIP: 0010:iopt_alloc_area_pages	
	drivers/iommu/iommufd/io_pagetable.c:268 [inline]	
	RIP: 0010:iopt_map_pages+0xf95/0x1050	
	drivers/iommu/iommufd/io_pagetable.c:352	
	Code: fc e9 a4 f3 ff ff e8 1a 8b 4c fc 41 be e4 ff ff ff	
	e9 8a f3 ff ff e8 0a 8b 4c fc 90 0f 0b 90 e9 37 f5 ff ff e8	
	fc 8a 4c fc 90 <0f> 0b 90 e9 68 f3 ff ff 48 c7 c1 ec 82	
	ad 8f 80 e1 07 80 c1 03 38	
	RSP: 0018:ffffc90003ebf9e0 EFLAGS: 00010293	
	RAX: fffffff85499fa4 RBX: 0000000ffffffef RCX:	
	ffff888079b49e00	
	RDX: 00000000000000 RSI: 0000000ffffffef RDI:	
	000000000000000000000000000000000000000	
	RBP: ffffc90003ebfc50 R08: ffffffff85499b30 R09:	
	fffffff85499942	
	R10: 000000000000002 R11: ffff888079b49e00	
	R12: ffff8880228e0010	
	R13: 00000000000000 R14: 1ffff920007d7f68	
	R15: ffffc90003ebfd00	
	FS: 000055557d760380(0000)	
	GS:ffff8880b9500000(0000)	
	knlGS:00000000000000	
	CS: 0010 DS: 0000 ES: 0000 CR0:	
	000000080050033	
	CR2: 0000000005fdeb8 CR3: 00000007404a000	
	CR4: 0000000003506f0	
	DR0: 00000000000000 DR1: 000000000000000000000000000000000000	
	DR2: 00000000000000	
	DR3: 00000000000000 DR6: 0000000fffe0ff0	
	DR7: 000000000000400	
	Call Trace:	
	<task></task>	
	iommufd_ioas_copy+0x610/0x7b0	
	drivers/iommu/iommufd/ioas.c:274	
	iommufd_fops_ioctl+0x4d9/0x5a0	
	drivers/iommu/iommufd/main.c:421	
	vfs_ioctl fs/ioctl.c:51 [inline]	
	do_sys_ioctl fs/ioctl.c:907 [inline]	
	se_sys_ioctl+0xfc/0x170 fs/ioctl.c:893	
	do_syscall_x64 arch/x86/entry/common.c:52	
	[inline]	
	do_syscall_64+0xf3/0x230	
	arch/x86/entry/common.c:83	
<u> </u>	entry_SYSCALL_64_after_hwframe+0x77/0x7f	

		Cap the automatic alignment to the huge page size,			
		which is probably a			
		better idea overall. Huge automatic alignments can			
		fragment and chew up			
		the available IOVA space without any reason.			
<u>CVE-2024-47727</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products	x86/tdx: Fix "in-kernel MMIO" check			
		TDX only supports kernel-initiated MMIO operations.			
		The handle_mmio()			
		function checks if the #VE exception occurred in the			
		kernel and rejects			
		the operation if it did not.			
		However, userspace can deceive the kernel into			
		performing MMIO on its			
		behalf. For example, if userspace can point a syscall			
		to an MMIO address,			
		syscall does get_user() or put_user() on it, triggering			
		MMIO #VE. The kernel will treat the #VE as in-kernel			
		MMIO. Ensure that the target MMIO address is within			
		the kernel before decoding			
		instruction.			
CVE-2024-47730	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products	crypto: hisilicon/qm - inject error before stopping			
	p. 0 0.0000	queue The master ooo cannot be completely closed			
		when the			
		accelerator core reports memory error. Therefore,			
		the driver needs to inject the gm error to close the			
		master ooo. Currently, the qm error is injected after			
		stopping queue, memory may be released			
		immediately after stopping queue, causing the device			
		to access the released memory. Therefore, error is			
		injected to close master ooo before stopping queue			
		to ensure that the device does not access			
		the released memory.			
CVE-2024-47732	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
<u>CVL-2024-47732</u>	multiple	been resolved:	2024-10-21	7.0	ingn
	products	been resolved.			
	products	crupto: ica Eix potential use after free bug			
		crypto: iaa - Fix potential use after free bug			
		The free_device_compression_mode(iaa_device,			
		device_mode) function frees			
		"device_mode" but it iss passed to			
		iaa_compression_modes[i]->free() a few			
		lines later resulting in a use after free.			
		The good news is that, so far as I can tell, nothing			
		implements the			
		->free() function and the use after free happens in			
		dead code. But, with			
		ueau coue. Dul, willi			

		this fix, when something does implement it, we'll be			
		ready. :)			
	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	⊔iah
<u>CVE-2024-47742</u>		been resolved:	2024-10-21	7.0	High
	multiple	been resolved.			
	products	firmen and handlers Diach and handlers a			
		firmware_loader: Block path traversal			
		Mart finner and a set hand a dad strings and a			
		Most firmware names are hardcoded strings, or are			
		constructed from fairly			
		constrained format strings where the dynamic parts			
		are just some hex			
		numbers or such.			
		However, there are a couple codepaths in the kernel			
		where firmware file			
		names contain string components that are passed through from a device or			
		semi-privileged userspace; the ones I could find (not			
		counting interfaces			
		that require root privileges) are:			
		- lpfc_sli4_request_firmware_update() seems to			
		construct the firmware			
		filename from "ModelName", a string that was			
		previously parsed out of			
		some descriptor ("Vital Product Data") in			
		lpfc_fill_vpd()			
		- nfp_net_fw_find() seems to construct a firmware			
		filename from a model			
		name coming from nfp_hwinfo_lookup(pf->hwinfo,			
		"nffw.partno"), which I			
		think parses some descriptor that was read from			
		the device.			
		(But this case likely isn't exploitable because the			
		format string looks			
		like "netronome/nic_%s", and there shouldn't be			
		any *folders* starting			
		with "netronome/nic_". The previous case was			
		different because there,			
		the "%s" is *at the start* of the format string.)			
		- module_flash_fw_schedule() is reachable from the			
		ETHTOOL_MSG_MODULE_FW_FLASH_ACT netlink			
		command, which is marked as			
		GENL_UNS_ADMIN_PERM (meaning			
		CAP_NET_ADMIN inside a user namespace is			
		enough to pass the privilege check), and takes a			
		userspace-provided			
		firmware name.			
		(But I think to reach this case, you need to have			
		CAP_NET_ADMIN over a			
		network namespace that a special kind of ethernet			

		device is mapped into,			
		so I think this is not a viable attack path in practice.)			
		Fix it by rejecting any firmware names containing ""			
		path components.			
		For what it's worth, I went looking and haven't found			
		any USB device			
		drivers that use the firmware loader dangerously.			
<u>CVE-2024-47745</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products				
		mm: call the security_mmap_file() LSM hook in			
		remap_file_pages()			
		The remap_file_pages syscall handler calls			
		do_mmap() directly, which			
		doesn't contain the LSM security check. And if the			
		process has called personality(READ_IMPLIES_EXEC) before and			
		remap_file_pages() is called for			
		RW pages, this will actually result in remapping the			
		pages to RWX,			
		bypassing a W^X policy enforced by SELinux.			
		by passing a wax policy enforced by Stelliux.			
		So we should check prot by security_mmap_file LSM			
		hook in the			
		remap_file_pages syscall handler before do_mmap()			
		is called. Otherwise, it			
		potentially permits an attacker to bypass a W^X			
		policy enforced by			
		SELinux.			
		The bypass is similar to CVE-2016-10044, which			
		bypass the same thing via			
		AIO and can be found in [1].			
		The PoC:			
		\$ cat > test.c			
		int main(uaid) (
		int main(void) {			
		<pre>size_t pagesz = sysconf(_SC_PAGE_SIZE); int mfd = syscall(SVS_momfd_croate_"test"_0);</pre>			
		<pre>int mfd = syscall(SYS_memfd_create, "test", 0); const char *buf = mmap(NULL, 4 * pagesz,</pre>			
		PROT_READ PROT_WRITE,			
		MAP_SHARED, mfd, 0);			
		unsigned int old = syscall(SYS_personality, 0xffffffff);			
		syscall(SYS_personality, READ_IMPLIES_EXEC old);			
		syscall(SYS_remap_file_pages, buf, pagesz, 0, 2, 0);			
		syscall(SYS_personality, old);			
	1				

		<pre>// show the RWX page exists even if W^X policy is enforced int fd = open("/proc/self/maps", O_RDONLY); unsigned char buf2[1024]; while (1) { int ret = read(fd, buf2, 1024); if (ret <= 0) break; write(1, buf2, ret); } close(fd); } \$ gcc test.c -o test \$./test grep rwx 7f1836c34000-7f1836c35000 rwxs 00002000 00:01 2050 /memfd:test (deleted) [PM: subject line tweaks]</pre>			
<u>CVE-2024-47748</u>	linux - multiple products	In the Linux kernel, the following vulnerability has been resolved: vhost_vdpa: assign irq bypass producer token correctly We used to call irq_bypass_unregister_producer() in vhost_vdpa_setup_vq_irq() which is problematic as we don't know if the	2024-10-21	7.8	High
		token pointer is still valid or not. Actually, we use the eventfd_ctx as the token so the life cycle of the token should be bound to the VHOST_SET_VRING_CALL instead of vhost_vdpa_setup_vq_irq() which could be called by set_status().			
		Fixing this by setting up irq bypass producer's token when handling VHOST_SET_VRING_CALL and un-registering the producer before calling vhost_vring_ioctl() to prevent a possible use after free as eventfd could have been released in vhost_vring_ioctl(). And such registering and unregistering will only be done if DRIVER_OK is set.			
<u>CVE-2024-47750</u>	linux - multiple products	In the Linux kernel, the following vulnerability has been resolved: RDMA/hns: Fix Use-After-Free of rsv_qp on HIP08	2024-10-21	7.8	High

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		Currently rsv_qp is freed before			
		ib_unregister_device() is called			
		on HIP08. During the time interval, users can still			
		dereg MR and			
		rsv_qp will be used in this process, leading to a UAF.			
		Move the			
		release of rsv_qp after calling ib_unregister_device()			
		to fix it.			
<u>CVE-2024-47751</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products				
		PCI: kirin: Fix buffer overflow in			
		kirin_pcie_parse_port()			
		Within kirin_pcie_parse_port(), the pcie->num_slots			
		is compared to			
		<pre>pcie->gpio_id_reset size (MAX_PCI_SLOTS) which is</pre>			
		correct and would lead			
		to an overflow.			
		Thus, fix condition to pcie->num_slots + 1 >=			
		MAX_PCI_SLOTS and move			
		pcie->num_slots increment below the if-statement to			
		avoid out-of-bounds			
		array access.			
		Found by Linux Verification Center (linuxtesting.org)			
		with SVACE.			
		[kwilczynski: commit log]			
CVE-2024-49852	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:		_	0
	products				
		scsi: elx: libefc: Fix potential use after free in			
		efc_nport_vport_del()			
		The kref_put() function will call nport->release if the			
		refcount drops to			
		zero. The nport->release release function is			
		_efc_nport_free() which frees			
		"nport". But then we dereference "nport" on the			
		next line which is a use			
		after free. Re-order these lines to avoid the use after			
		free.			
CVE-2024-49853	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
<u>UVL-2024-43033</u>	multiple	been resolved:	2024-10-21	7.0	i ligit
	products				
	products	firmwarayarm, semiy Eix dauble free in ODTEE			
		firmware: arm_scmi: Fix double free in OPTEE			
		transport			
		Channels can be charad between protocols avaid			
		Channels can be shared between protocols, avoid			

		freeing the same channel			
		descriptors twice when unloading the stack.			
CVE-2024-49854	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
012 2021 10001	multiple	been resolved:	20212021	7.10	
	products	been resolved.			
	products	black bfg: fix usf for accessing waker, bfgg after			
		block, bfq: fix uaf for accessing waker_bfqq after			
		splitting			
		After commit 42c206 cd7222 ("block bfg, don't brock			
		After commit 42c306ed7233 ("block, bfq: don't break			
		merge chain in			
		bfq_split_bfqq()"), if the current procress is the last			
		holder of bfqq,			
		the bfqq can be freed after bfq_split_bfqq(). Hence			
		recored the bfqq and			
		then access bfqq->waker_bfqq may trigger UAF.			
		What's more, the waker_bfqq			
		may in the merge chain of bfqq, hence just recored			
		waker_bfqq is still			
		not safe.			
		Fix the problem by adding a helper bfq_waker_bfqq()			
		to check if			
		bfqq->waker_bfqq is in the merge chain, and current			
		procress is the only			
		holder.			
CVE-2024-49865	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products				
		drm/xe/vm: move xa_alloc to prevent UAF			
		Evil user can guess the next id of the vm before the			
		ioctl completes and			
		then call vm destroy ioctl to trigger UAF since create			
		ioctl is still			
		referencing the same vm. Move the xa_alloc all the			
		way to the end to			
		prevent this.			
		v2:			
		- Rebase			
		(cherry picked from commit			
		dcfd3971327f3ee92765154baebbaece833d3ca9)			
CVE-2024-49869	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
<u>UVL 2024-43005</u>	linux_kern el	been resolved:	2024-10-21	7.0	111811
	EI	btrfs: send: fix buffer overflow detection when			
		copying path to cache entry			
		Starting with commit c0247d200o72 ("btafes cond			
		Starting with commit c0247d289e73 ("btrfs: send:			
		annotate struct			

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	name_cache_entry withcounted_by()") we		
	annotated the variable length		
	array "name" from the name_cache_entry structure		
	withcounted_by() to		
	improve overflow detection. However that alone was		
	not correct, because		
	the length of that array does not match the		
	"name_len" field - it matches		
	that plus 1 to include the NUL string terminator, so		
	that makes a		
	fortified kernel think there's an overflow and report a		
	splat like this:		
	splat like tills.		
	strcpy: detected buffer overflow: 20 byte write of		
	buffer size 19		
	WARNING: CPU: 3 PID: 3310 at		
	fortify_report+0x45/0x50		
	CPU: 3 UID: 0 PID: 3310 Comm: btrfs Not tainted		
	6.11.0-prnet #1		
	Hardware name: CompuLab Ltd. sbc-ihsw/Intense-		
	PC2 (IPC2), BIOS IPC2_3.330.7 X64 03/15/2018		
	RIP: 0010:fortify_report+0x45/0x50		
	Code: 48 8b 34 ()		
	RSP: 0018:ffff97ebc0d6f650 EFLAGS: 00010246		
	RAX: 7749924ef60fa600 RBX: ffff8bf5446a521a RCX:		
	00000000000027		
	RDX: 0000000ffffdfff RSI: ffff97ebc0d6f548 RDI:		
	ffff8bf84e7a1cc8		
	RBP: ffff8bf548574080 R08: ffffffffa8c40e10 R09:		
	000000000005ffd		
	R10: 000000000000004 R11: fffffffa8c70e10 R12:		
	ffff8bf551eef400		
	R13: 000000000000000 R14: 000000000000013		
	R15: 0000000000003a8		
	FS: 00007fae144de8c0(0000)		
	GS:ffff8bf84e780000(0000) knlGS:000000000000000		
	CS: 0010 DS: 0000 ES: 0000 CR0:		
	000000080050033		
	CR2: 00007fae14691690 CR3: 00000001027a2003		
	CR4: 0000000001706f0		
	Call Trace:		
	<task></task>		
	?warn+0x12a/0x1d0		
	?fortify_report+0x45/0x50		
	? report_bug+0x154/0x1c0		
	? handle_bug+0x42/0x70		
	? exc_invalid_op+0x1a/0x50		
	? asm_exc_invalid_op+0x1a/0x20		
	?fortify_report+0x45/0x50		
	fortify_panic+0x9/0x10		
I		I	1

get_cur_path-0:2070x3b0 send_extent_data-0:x709/0x10d0 ? find_parent_nodes+0:x22df/0x25d0 ? masnomem+0:x130x50 ? marce_inser_range=0:x50x100 ? btrstc_iru_cache_store+0:x510x1e0 ? lterate_extent_inodes+0:x52df0:x6a0 process_extent+0:adds=0:x52df0:x6a0 process_extent+0:adds=0:x52df0:x6a0 ? _pfx_lockup_backref_cache+0:x10/0x10 ? _pfx_iterate_backref_cache+0:x10/0x10 ? _pfx_iterate_backref_st-0:x10/0x10 ? _pfx_iterate_backrefs+0:x10/0x10 ? _pfx_iterate_backrefs+0:x10/0x10 ? hree_divance+0:x827/0x390 ? tree_divance+0:x827/0x390 ? tree_divance+0:x827/0x390 ? tree_divance+0:x827/0x390 ? memcmp_extent_buffer+0:xd7/0x160 send_subwid+0:xf0:x100 btrfs_joct1=exd+0:x10:x100 btrfs_joct1=exd+0:x10:x100 ? _se_sys_joct1+0:x2:x0 @ _syscall_64+0:x85/0x160 ? _socal_ext_1_0_user_mode+0:x75/0x0a0 ? do_syscall_64+0:x82/0x160 ? do_syscall_64+0:x82/0x160 ? do_syscall_64+0:x82/0x160 ? do_syscall_64+0:x82/0x630 entry_SYSCAL_64_aft=hwframe+0:x75/0x7e RIP: 00000000000000000 <td< th=""><th></th><th></th></td<>		
<pre>send_extent_data=0x709/0x1000 ? find_parent_nodes=0x22df0x25d0 ? mas_nomem=0x13/0x90 ? ntree_insert_range=0xa5/0x110 ? btrfs_inv_cache_store=0x65f0x1e0 ? terate_extent_inodes=0x52df0x2s0 process_extent=0xa96/0x11a0 ? _pfx_itore_backref_cache=0x10/0x10 changed_cb=0x66f0/0x930 ? tree_advance=0x362/0x390 ? tree_advance=0x362/0x390 ? tree_advance=0x362/0x390 ? tree_advance=0x362/0x300 ? memomp_extent_buffer=0xd7/0x160 send_subvieNdf0a/0x1520 btrfs_ioctl_send=0x1ac/0x240 btrfs_ioctl_send=0x1ac/0x240 btrfs_ioctl_send=0x1ac/0x240 btrfs_ioctl_send=0x1ac/0x100 ? _backgs/0x150 do_syscall_64+0x85/0x150 ? _count memog_event=x4x68/0x100 ? handle_mm_fault=0x1327/0x160 ? adv_user_addr_faul+0x1327/0x160 ? adv_user_addr_faul+0x21d/0x630 entry_SYSCALL_64_after_hwframe=0x76/0x7e RIP:0033:0x7fae145eeb4f Code: 00 48 89 () RSP: 002b:000000000000000000000000000000000</pre>	get_cur_name_and_parent+0x3bc/0x3c0	
? find_parent_onde=v0x22df/0x25d0 ? mas_nomem+0x13/0x30 ? Thtree_insert_range+0xa5/0x110 ? htrits_iru_cache_store+0x52/0x100 ? hterate_stent_indes+0x52/0x100 ? _pfx_lootup_backref_cache+0x10/0x10 ? _pfx_torup_backref_cache+0x10/0x10 ? _pfx_torup_backref_cache+0x10/0x10 ? _pfx_terate_backref=cache+0x10/0x10 ? _pfx_terate_backref=cache+0x10/0x10 ? _pfx_terate_backref=cache+0x10/0x10 changed_cb+0x6fa/0x930 ? tree_advance+0x362/0x390 ? tree_advance+0x36/0x140 ? _pfxclone_root_cmp_sort+0x10/0x10 _btrfs_iocit_send+0x1a6/0x140 ? _pfxclose ? _se_s ys_iocit+0xa6/0x150 do_syscall_64+0x8/0x160 ? _se_s ys_iocit+0x1a8/0x140 ? yscall_64+0x8/0x160 ? do_user_addr_fault+0x127/0x150 ? do_user_addr_fault+0x21d/0x633 entry_SYSCAL_64_after_hwframe+0x76/0x7e RIP:00300000000000000		
? ma_nomem-v13/0x80 ? mtree_insert_range+0x85/0x110 ? btrfs_inc_ache_store+0x5f0x1e0 ? terate_extent_inodes+0x52d/0x5a0 process_extent+0x86/0x11a0 ? _pfx_itore_backref_cache+0x10/0x10 ? _pfx_itore_backref_cache+0x10/0x10 ? _pfx_itore_backref_cache+0x10/0x10 ? _pfx_iterate_backrefs+0x10/0x10 ? _pfx_iterate_backrefs+0x10/0x10 check_extent_item+0x10/0x10 check_extent_bife+0x07/0x160 send_subvol+0x0fa/0x1320 btrfs_ioct1_send+0x160x1200 btrfs_ioct1_send+0x160x1200 btrfs_ioct1_send+0x160x120 btrfs_ioct1_send+0x160x120 btrfs_ioct1_send+0x160x120 btrfs_ioct1+0x75b/0x850 _se_sys_ioct1+0x75b/0x850 _se_sys_ioct1+0x75b/0x850 _se_sys_ioct1+0x75b/0x850 ? _se_sys_if_isprocmask+0x11/0x180 ? syscall_64+0x81/0x160 ? do_user_addr_faul+0x21d/0x630 entry_iSYSCALL_64_after_howframe+0x76/0x7e RIP:0033:0x7fae145eeb4f Code:00 48 89 () RSP: 0000000000000004 RAX: iffiffiffiffiffitab80:0 EFLAGS: 00000746 RDP: 00000000000000004 RDP: 0000000000000000004 <		
? mtroe_insert_range+0x3/0x110 ? btrfs_iru_cache_store40x5/0x120 ? iterate_extent_inodes+0x52d/0x5a0 process_extent+0x396/0x11a0 ? _pfx_itore_backref_cache+0x10/0x10 ? _pfx_itore_backref_cache+0x10/0x10 ? _pfx_itore_backref_cache+0x10/0x10 ? _pfx_itore_backref_cache+0x10/0x10 ? _pfx_itore_backref_cache+0x10/0x10 ? _pfx_itore_backref_cache+0x10/0x10 changed_tb+0x6f3/0x330 ? tree_adware+0x3c2/0x390 ? memomp_extent_buffer+0xd7/0x160 send send ptfs_iott1_send+0x16/0x11d0 ? _pfx_iott+0x475/0x850 _ses_sys_iott+0x40/0x150 do_syscall_64+0x81/0x160 ? _ses_sys_iott+0x47/0x150 ? _ses_sys_iott+0x47/0x160 ? _ses_sys_iott+0x47/0x160 ? user_addr_fault+0x127/0x150 ? _ses_sys_iott+0x47/0x180 ? syscall_64+0x81/0x160 ? do_user_addr_fault+0x121/0x630 entry_SYSCALL_64_after_hvframe+0x76/0x7e RIP:0033:0x7fae145eb4f Code:004 88 () RSP: 000000000000004 RDP: 000000000000000000000000000000000000	_, _	
<pre>? btrfs_fru_cache_store40x5f/0x1e0 ? iterate_extent_inodes+0x52d/0x5a0 process_extent+0xa95/0x11a0 ?fx_store_backref_cache+0x10/0x10 ?fx_store_backref_cache+0x10/0x10 ?fx_store_backref_cache+0x10/0x10 ?fx_store_backref_s40x10/0x10 changed_b4+0x6f/0x930 ? tree_advance+0x362/0x390 ? memcmp_extent_buffer+0xd7/0x160 send_subvol+0x160/0x1120 btrfs_ioctl_send+0x106b/0x1100 btrfs_ioctl_send+0x10/0x10 0btrfs_ioctl_send+0x10/0x10 ?fxclone_root_cmp_sort+0x10/0x10 btrfs_ioctl_send+0x16/0x240 btrfs_ioctl_send+0x16/0x250 ?se_sy_srt_signrocmask+0x6f/0x100 ? handle_mm_fault+0x1327/0x160 ? do_syscall_64+0x91/0x160 ? do_s</pre>	_	
<pre>? iterate_extent+ixed=3d/0x5a0 process_extent+0xa96/0x11a0 ?pfx_lookup_backref_cache+0x10/0x10 ?pfx_toret_backref=xche+0x10/0x10 ?pfx_toret_backref=xche+0x10/0x10 changed_b+0x6fa/0x330 ? tree_advance+0x327/0x390 ? memcmp_extent_buffer+0xd7/0x160 send_subvol+0x16a/0x120 btrfs_ioct1_send+0x10x6fb/0x11d0 ?pfxclone_root_cmp_sort+0x10/0x10 btrfs_joct1=send+0x10x0850 ifsoct=1send+0x10x0850 ?soct=xchex0x69/0x100 ? handle_mm_fault+0x1327/0x150 ?sesys_iot1+0xca/0x150 ? do_syscall_64+0x32f/0x160 ? syscall_ext_to_user_mode+0x75/0xa0 ? do_user_addr_fault+0x21d/0x630 entry_SYSCALL_64_after_hwframe+0x76/0x7e RIP:0033:0x7fae145eeb4f Code::00 48 89 () RSP:002b:000007fdf1cb03b0 EFLAGS: 00000246 ORIG_RAX: 00000000000000 RAX: fffffffffffffffffa RBX: 00000000000004 RCX: 000007fee145eeb4f RDX: 000007fdf1cb0ad0 RSI: 000000000000246 R12: 0000000000000000000000004 RBP: 0000000000000000000000004 RBP: 00000000000000000000000000000004 RBP: 000000000000000000000000000000000000</pre>		
process_extent+0xa96/0x11a0 ?pfx_lookup_backref_cache+0x10/0x10 ?pfx_iterate_backref>cache+0x10/0x10 ?pfx_iterate_backref>cache+0x10/0x10 ?pfx_check_extent_item+0x10/0x10 changed_cb+0x6fa/0x930 ? tree_advance+0x362/0x390 ? memcmp_extent_buffer+0xd7/0x160 send_subvol+0x0a/0x1520 btrfs_loctl_send+0x1ac/0x140 ?pfx_clone_root_cmp_sort+0x10/0x10 _btrfs_loctl_send+0x1ac/0x240 btrfs_loctl_send+0x1ac/0x240 btrfs_loctl_send+0x1ac/0x150 se_sys_icl+0x0/0x150 do_syscall_64+0x85/0x100 ? handle_mm_fault+0x1327/0x150 ?se_sys_rct_sigprocmask+0x6/0x100 ? handle_mi_fault+0x1327/0x160 ? do_syscall_64+0x91/0x160 ? do_syscall_64+0x91/0x160 ? do_syscall_64+0x91/0x160 ? do_syscall_64+0x91/0x160 ? do_syscall_64+0x91/0x630 entry_SYSCALL_64_after_hwframe0x76/0x7e RIP: 0033:0x7fae145eeb4f RDI: 000000000000000 RAX: (GMITMITMIGH RSI: 00000000004489426 RDI: 0000000000000000 RBP: 0000000000000000000000004 RBP: 00000000000000000000000000000004 R13: 0000000000		
?pfx_store_backref_cache+0x10/0x10 ?pfx_store_backref_cache+0x10/0x10 ?pfx_check_extent_item+0x10/0x10 ?pfx_check_extent_item+0x10/0x10 changed_cb+0x6fa/0x330 ? tree_advance+0x362/0x330 ? memcmp_extent_buffer+0xd7/0x160 send_subwol+0xf0a/0x1520 btrfs_ioctl_send+0x106/0x11d0 ?pfxclone_root_cmp_sort+0x10/0x10 btrfs_ioctl_send+0x106/0x11d0 ?count_memcg_events+0x69/0x100 ? handle_mm_fault+0x1327/0x15c0 do_syscall_64v0x85/0x160 ?sys_call_64v0x85/0x160 ? do_user_addr_fault+0x1327/0x15c0 ? adv_syscall_64v0x81/0x180 ? syscall_exit_to_user_mode+0x75/0xa0 ? do_user_addr_fault+0x132/0x150 ? do_user_addr_fault+0x1660 ? do_user_addr_fault+0x21d/0x630 entry_SYSCALL_64_after_hwframe+0x76/0x7e RIP: 0033:0x7fae145eeb4f Code: 0048 88 () RAX: ffffffffffd RBX: 0000000000000 RCX: 000007ffd1tcb0ad0 RSI: 0000000000000 RCX: 000007ffd1tcb0ad0 RSI: 000007fae144006c0 RD9: 00000000000000 R11: 000005c499fab2e0 R15: 000000000000000 R11: 000055c499fab2e0 R15: 0000000000000000 R11: 000055c499fab2e0 <		
?_pf_store_backref_cache+0x10/0x10?_pf_t_iterate_backrefs+0x10/0x10?_pf_cchcck_ceturit_item+0x10/0x10changed_cb+0x6fa/0x390? tree_advance+0x362/0x390? memcmp_extent_buffer+0x47/0x160send_subvoi+0xf0a/0x1520btrfs_ioctl_send+0x106b/0x11d0?_pf_<_clone_root_cmp_sort+0x10/0x10		
<pre>?pfr_iterate_backrefs+0x10/0x10 ?pfr_check_extent_itern0x10/0x10 changed_ch+0x6f3/0x330 ? tree_advance+0x362/0x330 ? memcmp_extent_buffer+0xd7/0x160 send_suboi+0xf0a/0x1520 btrfs_ioctl_send+0x106b/0x1100 ?pfrclone_root_cmp_sort+0x10/0x10 btrfs_ioctl_send+0x1ac/0x240 btrfs_ioctl_send+0x1ac/0x240 dtrfs_ioctl_send+0x1ac/0x240 btrfs_ioctl_send+0x1ac/0x240 dtrfs_ioctl_send+0x1ac/0x240 btrfs_ioctl_send+0x1ac/0x240 dtrfs_ioctl_send+0x1ac/0x240 dtrfs_ioctl_send+0x1ac/0x240 dtrfs_ioctl_send+0x1ac/0x240 ?count_memcg_events+0x65/0x100 ? handle_mm_fault+0x1327/0x15c0 ? dto_user_addr_fault+0x121/0x630 entry_sYSCAIL_64_after_hwframe+0x76/0x7e RP: 0033:0x7fac125eeb4f Code: 00 48 89 () RSP: 002b:000007ffdf1cb09b0 FLAGS: 00000246 ORIG_RAX: 00000000000000 RAX: ffffffffffffffda RBX: 0000000000000 RCX: 00007ffd1cb0sd0 RSI: 000000000000000000000000000000000000</pre>		
?pfx_check_extent_item+0x10/0x10 changed_ch+0x6fa/0x930 ? tree_advance+0x63c2/0x390 ? memcmp_extent_buffer+0xd7/0x160 send_subvol+0x106/0x1520 btrfs_ioctl_send+0x1606/0x1100 ?pfxclone_root_cmp_sort+0x10/0x10 _btrfs_ioctl_send+0x1ac/0x240 btrfs_ioctl_send+0x1ac/0x240 btrfs_ioctl+0x7b/0x850 se_sys_ioct+0xca/0x150 do_syscall_64+0x85/0x160 ?count_memcg_events+0x69/0x100 ? handle_mm_fault+0x1327/0x15c0 ?se_sys_rt_sigprocmask+0xf1/0x180 ? syscall_exit_to_user_mode+0x75/0xa0 ? do_syscall_exit_to_user_mode+0x75/0xa0 ? do_syscall_64+0x91/0x160 ? do_user_addr_fault+0x21d/0x630 entry_SYSCALL_64_after_hwframe+0x76/0x7e RIP:0033:0x7fae145ee04f Code: 00 48 89 () RSP:0002b:00007ffdf1cb0940 FELAGS: 0000004 RCX: 00007fae145ee04f RDX: 000007ffdf1cb0940 RSI: 000000000004 RCX: 00007ffd1cb0927 R10: 000000000000004 RAX: ffffffffffffffffa RBX: 000000000000246 R13: 0000000000000004 R13: 00000000000004 R13: 0000000000000000004 RIP: 000000000000000000000000000000000000		
changed_cb+0x6fa/0x930? tree_advance+0x362/0x390? memcp_extent_buffer+0x037/0x160send_subvol+0xf0a/0x1520btrfs_iott_send+0x106b/0x11d0?pfx_clone_root_cmp_sort+0x10/0x10_btrfs_iott_send+0x1ac/0x240btrfs_iott+0x75b/0x850se_sys_iott+0xca/0x150do_syscall_64+0x85/0x160?count_memcg_events+0x69/0x100? handle_mm_fault+0x1327/0x150? do_syscall_64+0x91/0x160? do_syscall_64+0x91/0x160R dostinouting tensionR as in 00000000000000000000000000000000000		
? tree_advance+0x362/0x390? memcmp_extent_buffer+0xd7/0x160send_subvol+0x100/0x1520btrfs_ioctl_send+0x106b/0x11d0?		
? memcmp_extent_buffer+0xd7/0x160 send_subvi+0xf0a/0x1520btrfs_ioctl_send+0x106b/0x1100?pfxclone_root_cmp_sort+0x10/0x100 _btrfs_ioctl+0x075b/0x850se_sys_ioct+0xca/0x150do_syscall_64+0x85/0x160?count_memcg_events+0x69/0x100? handle_mm_fault+0x1327/0x15c0?se_sys_it_sigprocmask+0xf1/0x180? syscall_64+0x93/0x160? do_user_addr_fault+0x1327/0x15c0? do_user_addr_fault+0x1327/0x160? do_user_addr_fault+0x127/0x160? do_user_addr_fault+0x127/0x160? do_user_addr_fault+0x127/0x160RIP: 0033:0x7fae145eeb4fCode: 00 48 89 ()RSP: 002b:00007ffdf1cb09b0 EFLAGS: 00000246ORIG_RAX: 000000000000000RAX: fffffffffffffad RSX: 000000000000004 RCX:00007fae145eeb4fRDD: 000000000000004RBP: 00000000000004RBP: 000000000000000000000000000004RD: 000000000000000000000000000000000000		
send_subvol+0xf0a/0x1520btrfs_joctl_send+0x106b/0x11d0?_pfxclone_root_cmp_sort+0x10/0x10_btrfs_joctl=send+0x1ac/0x240btrfs_joctl+0x75b/0x850se_sys_joct+0xca/0x150do_syscall_64+0x85/0x160?count_memcg_events+0x69/0x100? handle_mm_fault+0x1327/0x15c0?_se_sys_incit+ix_to_user_mode+0x75/0xa0? do_syscall_64+0x91/0x160? do_syscall_64+0x91/0x160? do_syscall_64+0x91/0x160? do_syscall_64+0x91/0x160? do_syscall_64+0x91/0x160? do_syscall_64+0x91/0x160RiP: 003:0x7fae145eeb4fCode: 00 48 89 ()RSP: 002b:00000000000010RAX: fffffffffffffda RBX: 000000000000004489426RDI: 000000000000004RDS: 00007fdf1cb0ad0 RSI: 00000000000000246RD: 0000000000000004RBP: 0000000000000000000000000000000246R12: 00007fdf1cb0az7R10: 00000000000000000000000000000000000	? tree_advance+0x362/0x390	
btrfs_ioctl_send+0x106b/0x11d0 ?pfx_clone_root_cmp_sort+0x10/0x10 _btrfs_ioctl_send+0x1ac/0x240 btrfs_ioctl+0xr5b/0x850 _se_sys_ioctl+0xa/0x150 do_syscall_64+0x85/0x160 ?count_memcg_events+0x69/0x100 ? handle_mm_fault+0x1327/0x15c0 ?se_sys_rt_sigprocmask+0xf1/0x180 ? do_syscall_64+0x91/0x160 ? do_syscall_64+0x91/0x160 ? do_user_addr_fault+0x21d/0x630 entry_SYSCALL_64_after_hwframe+0x76/0x7e RIP:0033:0x7fae144Seeb4f Code: 00 48 89 () RSP: 002b:00007ffd1tb090 EFLAGS: 00000246 ORIG_RAX: 000000000000000000000000000000000000		
?pfxclone_root_cmp_sort+0x10/0x10 _btrfs_iotl=sed+0x1ac/0x240 btrfs_iotl=v0x75b/0x850 _se_sys_iotl+0xca/0x150 do_syscall_64+0x85/0x160 ?count_memcg_events+0x69/0x100 ? handle_mm_fault+0x1327/0x15c0 ?se_sys_int_sigprocmask+0xf1/0x180 ? syscall_exit_to_user_mode+0x75/0xa0 ? do_user_addr fault+0x21d/0x630 entry_sYSCALL_64_after_hwframe+0x76/0x7e RIP: 0033:0x7fae145eeb4f Code: 00 48 89 () RSP: 002b:000000000000000000000000000000000		
trtfs_ioctl_send+0x1ac/0x240btrfs_ioctl+0x75b/0x850_se_sys_ioctl+0xca(0x150)do_syscall_64+0x85/0x160?count_memcg_events+0x69/0x100? handle_mm_fault+0x1327/0x15c0? _se_sys_rt_sigprocmask+0x11/0x180? syscall_exit_to_user_mode+0x75/0xa0? do_syscall_64+0x91/0x160? do_syscall_64+0x91/0x160? do_user_addr_fault+0x21d/0x630entry_SYSCALL_6A;ter_hw/frame+0x76/0x7eRIP:0033:0x7fae145eeb4fCode: 00 48 89 ()RSP: 002b:00007ffd1cb09b0 EFLAGS: 00000246ORIG_RAX: 000000000000000000000000000000000000		
btrfs_ioctl+0x75b/0x850 _se_sys_ioctl+0xca/0x150 do_syscall_64+0x85/0x160 ? _count_memcg_events+0x69/0x100 ? handle_mm_fault+0x1327/0x15c0 ? _se_sys_rt_sigprocmask+0xf1/0x180 ? syscall_exit_to_user_mode+0x75/0xa0 ? do_syscall_64+0x91/0x160 ? do_syscall_64+0x91/0x160 ? do_user_addr_fault+0x21d/0x630 entry_SYSCAL_64_after_hwframe+0x76/0x7e RIP: 0033:0x7fae145eeb4f Code: 00 48 89 () RSP: 002b:00007ffd1cb09b0 EFLAGS: 00000246 ORIG_RAX: 000000000000000 RAX: ffffffffffffda RBX: 00000000000004489426 RDI: 00000000000004 RBP: 000007ffd1cb0927 R10: 00000000000008f R08: 00007fae144006c0 R09: 00007ffd1cb1ce8 R13: 000007ffd1cb1ce8 R13: 000007ffd1cb1ce8 R13: 0000000000004 		
se_sys_ioctl+0xca/0x150 do_syscall_64+0x85/0x160 ?count_memcg_events+0x69/0x100 ? handle_mm_fault+0x1327/0x15c0 ?se_sys_rt_sigprocmask+0xf1/0x180 ? syscall_exit_to_user_mode+0x75/0xa0 ? do_syscall_64+0x91/0x160 ? do_user_addr_fault+0x21d/0x630 entry_SYSCALL_64_after_hwframe+0x76/0x7e RIP: 0033:0x7fae145eeb4f Code: 00 48 89 () RSP: 002b:00007ffd1cb09b0 EFLAGS: 00000246 ORIG_RAX: 00000000000010 RAX: ffffffffffda RBX: 0000000000004 RCX: 00007fae145eeb4f RDX: 00007ffd1cb0ad0 RSI: 0000000000040489426 RDI: 000000000000004 RBP: 000000000000004 RBP: 000000000000008 R11: 00000000000246 R12: 000007ffd1cb0927 R10: 000000000000008 R11: 000055c499fab2e0 R15: 000000000000004 <pre> R15: 0000000000004 </pre>		
do_syscall_64+0x85/0x160?count_memcg_events+0x69/0x100? handle_mm_fault+0x1327/0x15c0?se_sys_rt_sigprocmask+0xf1/0x180? syscall_exit_to_user_mode+0x75/0xa0? do_syscall_64+0x91/0x160? do_syscall_64+0x91/0x160? do_syscall_64+0x91/0x160RIP: 0033:0x7fae145eeb4fCode: 00 48 89 ()RSP: 002b:0007ffdf1cb09b0 EFLAGS: 00000246ORIG_RAX: 00000000000010RAX: fffffffffffdd RBX: 000000000000040489426RD: 00000000000004RD: 00000000000000000000000000000004489426RD: 000000000000000000000000000000000000	btrfs_ioctl+0x75b/0x850	
<pre>?count_memcg_events+0x69/0x100 ? handle_mm_fault+0x1327/0x15c0 ?se _sys_rt_sigprocmask+0x1/0x180 ? syscall_ext_to_user_mode+0x75/0xa0 ? do_user_addr_fault+0x21d/0x630 entry_SYSCALL_64_after_hwframe+0x76/0x7e RIP: 0033:0x7fae145eeb4f Code: 00 48 89 () RSP: 002b:00007ffd1tcb09b0 EFLAGS: 00000246 ORIG_RAX: 00000000000000 RAX: ffffffffffffa RBX: 000000000000 RCX: 00007fae145eeb4f RDX: 00007ffd1cb0ad0 RSI: 0000000040489426 RDI: 000000000000004 RBP: 00000000000004 RBP: 00000000000004 RBP: 000000000000008 R11: 00000000000246 R12: 00007ffd1cb0927 R10: 000000000000000 R14: 000055c499fab2e0 R15: 0000000000000004 Fix this by not storing the NUL string terminator since we don't actually need it for name cache entries, this way "name_len"</pre>	se_sys_ioctl+0xca/0x150	
<pre>? handle_mm_fault+0x1327/0x15c0 ?se_sys_rt_sigprocmask+0xf1/0x180 ? syscall_exit_to_user_mode+0x75/0xa0 ? do_syscall_64+0x91/0x160 ? do_user_addr_fault+0x21d/0x630 entry_SYSCALL_64_after_hwframe+0x76/0x7e RIP: 0033:0x7fae145eeb4f Code: 00 48 89 () RSP: 002b:00007ftdf1cb09b0 EFLAGS: 00000246 ORIG_RAX: 00000000000010 RAX: ffffffffffffa RBX: 00000000000004 RCX: 00007fae145eeb4f RDX: 00007ftdf1cb0ad0 RSI: 000000000040489426 RDI: 000000000000004 RBP: 00000000000008 R11: 00000000000246 R12: 00007ftdf1cb0927 R10: 000000000000008 R11: 00000000000246 R12: 00007ftdf1cb1ce8 R13: 0000000000000000003 R14: 000055c499fab2e0 R15: 0000000000000004 </pre>	do_syscall_64+0x85/0x160	
<pre>?se_sys_rt_sigprocmask+0xf1/0x180 ? syscall_exit_to_user_mode+0x75/0xa0 ? do_syscall_64+0x91/0x160 ? do_user_addr_fault+0x21d/0x630 entry_SYSCALL_64_after_hwframe+0x76/0x7e RIP: 0033:0x7fae145eeb4f Code: 00 48 89 () RSP: 002b:00007ffdf1cb09b0 EFLAGS: 00000246 ORIG_RAX: 0000000000010 RAX: ffffffffffffd RBX: 000000000004 RCX: 00007fae145eeb4f RDX: 00007ffdf1cb0ad0 RSI: 00000000040489426 RDI: 000000000000004 RBP: 00000000000008 R1: 00000000000246 R12: 00007ffdf1cb1ce8 R13: 0000000000000003 R14: 000055c499fab2e0 R15: 000000000000004 Fix this by not storing the NUL string terminator since we don't actually need it for name cache entries, this way "name_len"</pre>	?count_memcg_events+0x69/0x100	
<pre>? syscall_exit_to_user_mode+0x75/0xa0 ? do_syscall_64+0x91/0x160 ? do_user_addr_fault+0x21d/0x630 entry_SYSCALL_64_after_hwframe+0x76/0x7e RIP: 0033:0x7fae145eeb4f Code: 00 48 89 () RSP: 002b:00007ffdf1cb09b0 EFLAGS: 00000246 ORIG_RAX: 00000000000000 RAX: fffffffffffda RBX: 00000000000000 RCX: 00007fae145eeb4f RDX: 00007ffdf1cb0ad0 RSI: 000000040489426 RDI: 00000000000004 RBP: 0000000000004 RBP: 0000000000008 R11: 00000000000246 R12: 00007ffdf1cb0927 R10: 00000000000008 R11: 000055c499fab2e0 R13: 000000000000004 Fix this by not storing the NUL string terminator since we don't actually need it for name cache entries, this way "name_len"</pre>	? handle_mm_fault+0x1327/0x15c0	
? do_syscall_64+0x91/0x160? do_user_addr_fault+0x21d/0x630entry_SYSCALL_64_after_hwframe+0x76/0x7eRIP: 0033:0x7fae145eeb4fCode: 00 48 89 ()RSP: 002b:00007fdf1cb09b0 EFLAGS: 00000246ORIG_RAX: 00000000000010RAX: ffffffffffffffd RBX: 000000000004 RCX:00007fae145eeb4fRDX: 00007fdf1cb0ad0 RSI: 000000040489426RDI: 0000000000004RBP: 0000000000004RBP: 00000000000004RBP: 00000000000008 R11: 0000000000246R12: 00007ffdf1cb0z27R10: 00000000000000000000000000000000000	?se_sys_rt_sigprocmask+0xf1/0x180	
? do_user_addr_fault+0x21d/0x630entry_SYSCALL_64_after_hwframe+0x76/0x7eRIP: 0033:0x7fae145eeb4fCode: 00 48 89 ()RSP: 002b:00007ffdf1cb09b0 EFLAGS: 00000246ORIG_RAX: 00000000000000RAX: ffffffffffffffa RBX: 000000000000000004 RCX:00007fae145eeb4fRDX: 00007ffdf1cb0ad0 RSI: 000000040489426RDI: 0000000000004RBP: 0000000000004RBP: 0000000000008 R11: 0000000000246R12: 00007ffdf1cb0927R10: 0000000000008 R11: 0000000000246R13: 0000000000000003 R14: 000055c499fab2e0R15: 0000000000004R15: 0000000000004R15: 000000000000000000000000000000000000	? syscall_exit_to_user_mode+0x75/0xa0	
entry_SYSCALL_64_after_hwframe+0x76/0x7eRIP: 0033:0x7fae145eeb4fCode: 00 48 89 ()RSP: 002b:00007ffdf1cb09b0 EFLAGS: 00000246ORIG_RAX: 00000000000000RAX: fffffffffffda RBX: 00000000000000 RCX:00007fae145eeb4fRDX: 00007ffdf1cb0ad0 RSI: 000000040489426RDI: 00000000000004RSP: 0000000000004RBP: 0000000000008 R11: 0000000000246R12: 00007ffdf1cb0927R10: 00000000000000000000000000000000000	? do_syscall_64+0x91/0x160	
RIP: 0033:0x7fae145eebdf Code: 00 48 89 () RSP: 002b:00007ffdf1cb09b0 EFLAGS: 00000246 ORIG_RAX: 0000000000000 RAX: fffffffffffda RBX: 000000000000 RCX: 00007fae145eebdf RDX: 00007ffdf1cb0ad0 RSI: 0000000489426 RDI: 0000000000004 RBP: 000000000004 RBP: 000000000008 R11: 00007fae144006c0 R09: 00007ffdf1cb0927 R10: 0000000000008 R11: 0000000000246 R13: 0000000000003 R14: 000055c499fab2e0 R13: 00000000000004	? do_user_addr_fault+0x21d/0x630	
Code: 00 48 89 ()RSP: 002b:00007ffdf1cb09b0 EFLAGS: 00000246ORIG_RAX: 0000000000000RAX: fffffffffffda RBX: 00000000000004 RCX:00007fae145eeb4fRDX: 00007ffdf1cb0ad0 RSI: 000000040489426RDI: 00000000000004RBP: 0000000000008 R08: 00007fae144006c0R09: 00007ffdf1cb0927R10: 00000000000008 R11: 00000000000246R12: 00007ffdf1cb1ce8R13: 0000000000003 R14: 000055c499fab2e0R15: 0000000000004Fix this by not storing the NUL string terminator sincewe don't actuallyneed it for name cache entries, this way "name_len"	entry_SYSCALL_64_after_hwframe+0x76/0x7e	
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ORIG_RAX: 000000000000000000000000000000000000	Code: 00 48 89 ()	
RAX: ffffffffffffffffffffffffffffffffffff	RSP: 002b:00007ffdf1cb09b0 EFLAGS: 00000246	
00007fae145eeb4fRDX: 00007fdf1cb0ad0 RSI: 000000040489426RDI: 00000000000004RBP: 0000000000078fe R08: 00007fae144006c0R09: 00007fdf1cb0927R10: 00000000000008 R11: 00000000000246R12: 00007fdf1cb1ce8R13: 00000000000003 R14: 000055c499fab2e0R15: 0000000000004Fix this by not storing the NUL string terminator sincewe don't actuallyneed it for name cache entries, this way "name_len"	ORIG_RAX: 00000000000000000	
RDX: 00007ffdf1cb0ad0 RSI: 000000040489426RDI: 00000000000004RBP: 0000000000078fe R08: 00007fae144006c0R09: 00007ffdf1cb0927R10: 0000000000008 R11: 0000000000246R12: 00007ffdf1cb1ce8R13: 00000000000003 R14: 000055c499fab2e0R15: 00000000000004Fix this by not storing the NUL string terminator sincewe don't actuallyneed it for name cache entries, this way "name_len"	RAX: ffffffffffffda RBX: 000000000000004 RCX:	
RDI: 000000000000004 RBP: 000000000078fe R08: 00007fae144006c0 R09: 00007ffdf1cb0927 R10: 0000000000008 R11: 0000000000246 R12: 00007ffdf1cb1ce8 R13: 0000000000003 R14: 000055c499fab2e0 R15: 00000000000004 Fix this by not storing the NUL string terminator since we don't actually need it for name cache entries, this way "name_len"	00007fae145eeb4f	
RBP: 000000000078fe R08: 00007fae144006c0R09: 00007ffdf1cb0927R10: 00000000000008 R11: 0000000000246R12: 00007ffdf1cb1ce8R13: 0000000000003 R14: 000055c499fab2e0R15: 00000000000004/TASK>Fix this by not storing the NUL string terminator sincewe don't actuallyneed it for name cache entries, this way "name_len"	RDX: 00007ffdf1cb0ad0 RSI: 000000040489426	
R09: 00007ffdf1cb0927 R10: 00000000000000000000000000000000000	RDI: 000000000000004	
R10: 00000000000000000000000000000000000	RBP: 0000000000078fe R08: 00007fae144006c0	
R12: 00007ffdf1cb1ce8 R13: 0000000000003 R14: 000055c499fab2e0 R15: 00000000000004 Fix this by not storing the NUL string terminator since we don't actually need it for name cache entries, this way "name_len"	R09: 00007ffdf1cb0927	
R13: 000000000000000000000000000000000000	R10: 00000000000008 R11: 0000000000246	
R15: 0000000000004 Fix this by not storing the NUL string terminator since we don't actually need it for name cache entries, this way "name_len"	R12: 00007ffdf1cb1ce8	
 Fix this by not storing the NUL string terminator since we don't actually need it for name cache entries, this way "name_len"	R13: 000000000000003 R14: 000055c499fab2e0	
Fix this by not storing the NUL string terminator since we don't actually need it for name cache entries, this way "name_len"	R15: 000000000000004	
we don't actually need it for name cache entries, this way "name_len"		
need it for name cache entries, this way "name_len"	Fix this by not storing the NUL string terminator since	
	we don't actually	
	need it for name cache entries, this way "name_len"	
corresponds to the	corresponds to the	
actual size of the "name" array. This requires marking	actual size of the "name" array. This requires marking	

		the "neme" error			[]
		the "name" array			
		field withnonstring and using memcpy() instead of			
		strcpy() as			
		recommended by the guidelines at:			
		https://github.com/KSPP/linux/issues/90			
CVE-2024-49876	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			_
	products				
	-	drm/xe: fix UAF around queue destruction			
		We currently do stuff like queuing the final			
		destruction step on a			
		random system wq, which will outlive the driver			
		instance. With bad			
		timing we can teardown the driver with one or more			
		work workqueue still			
		being alive leading to various UAF splats. Add a fini			
		step to ensure			
		user queues are properly torn down. At this point			
		GuC should already be			
		nuked so queue itself should no longer be referenced			
		from hw pov.			
		v2 (Matt B)			
		- Looks much safer to use a waitqueue and then just			
		wait for the			
		xa_array to become empty before triggering the			
		drain.			
		(cherry picked from commit			
		861108666cc0e999cffeab6aff17b662e68774e3)			
CVE-2024-49880	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			U
	products				
		ext4: fix off by one issue in alloc_flex_gd()			
		Wesley reported an issue:			
		EVTA for (dm []), registing files when from 7160 to			
		EXT4-fs (dm-5): resizing filesystem from 7168 to 786432 blocks			
		[cut here]			
		kernel BUG at fs/ext4/resize.c:324!			
		CPU: 9 UID: 0 PID: 3576 Comm: resize2fs Not tainted			
		6.11.0+ #27			
		RIP: 0010:ext4_resize_fs+0x1212/0x12d0			
		Call Trace:			
		ext4_ioctl+0x4e0/0x1800			
		ext4_ioctl+0x12/0x20			
		x64_sys_ioctl+0x99/0xd0			
L	I	^073y3_10(11,0/33/0/00			

x64_sys_call_64h0720d0 do_syscall_64h07270x110 entry_SYSCALL_64_after_hwframe+0x76/0x7e ====================================			
entry_SYSCALL_64_after_hwframe+0x76/0x7e		x64_sys_call+0x1206/0x20d0	
		do_syscall_64+0x72/0x110	
While reviewing the patch, Honza found that when adjusting resize_bg in alloc_flex_gd(), it was possible for flex_gd->resize_bg to be bigger than flexbg_size. The reproduction of the problem requires the following: o_group = flexbg_size * 2 * n; o_size = (o_group + 1) * group_size; n_group: (o_group + flexbg_size, o_group + flexbg_size * 2) o_size = (n_group + 1) * group_size; Take n=0,flexbg_size=16 as an example: lat:15 o		entry_SYSCALL_64_after_hwframe+0x76/0x7e	
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rm -f \$img truncate -s 600M \$img mkfs.ext4 -F \$img -b 1024 -G 16 8M dev=`losetup -fshow \$img` mkdir -p /tmp/test mount \$dev /tmp/test resize2fs \$dev 248M Delete the problematic plus 1 to fix the issue, and add		img_tect img	
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dev=`losetup -fshow \$img` mkdir -p /tmp/test mount \$dev /tmp/test resize2fs \$dev 248M Delete the problematic plus 1 to fix the issue, and add		-	
mkdir -p /tmp/test mount \$dev /tmp/test resize2fs \$dev 248M Delete the problematic plus 1 to fix the issue, and add		-	
mount \$dev /tmp/test resize2fs \$dev 248M Delete the problematic plus 1 to fix the issue, and add		dev=`losetup -fshow \$img`	
resize2fs \$dev 248M Delete the problematic plus 1 to fix the issue, and add		mkdir -p /tmp/test	
resize2fs \$dev 248M Delete the problematic plus 1 to fix the issue, and add			
Delete the problematic plus 1 to fix the issue, and add			
		Delete the problematic plus 1 to fix the issue, and add	
to prevent the issue from happening again.		to prevent the issue from happening again.	
[Note: another reproucer which this commit fixes is:		[Note: another reproucer which this commit fixes is:	
img=test.img		img=test.img	
rm -f \$img		rm -f \$img	
truncate -s 25MiB \$img		-	
mkfs.ext4 -b 4096 -E		-	
nodiscard,lazy_itable_init=0,lazy_journal_init=0 \$img			
truncate -s 3GiB \$img			
dev=`losetup -fshow \$img`		· · ·	
l mkdir -n /tmn/test		mkdir -p /tmp/test	

		was wat follow (the set			
		mount \$dev /tmp/test			
		resize2fs \$dev 3G			
		umount \$dev			
		losetup -d \$dev			
CVE 2024 40992	linuv	TYT]	2024-10-21	70	High
<u>CVE-2024-49882</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products	ext4: fix double brelse() the buffer of the extents path			
		ext4. It double breise() the burler of the extents path			
		In ext4_ext_try_to_merge_up(), set path[1].p_bh to			
		NULL after it has been			
		released, otherwise it may be released twice. An			
		example of what triggers			
		this is as follows:			
		split2 map split1			
		ext4_ext_map_blocks			
		ext4_ext_handle_unwritten_extents			
		ext4_split_convert_extents			
		// path->p_depth == 0			
		ext4_split_extent			
		// 1. do split1			
		ext4_split_extent_at			
		ext4_ext_insert_extent			
		ext4_ext_create_new_leaf			
		ext4_ext_grow_indepth			
		le16_add_cpu(&neh->eh_depth, 1)			
		ext4_find_extent			
		// return -ENOMEM			
		<pre>// get error and try zeroout</pre>			
		path = ext4_find_extent			
		path->p_depth = 1			
		ext4_ext_try_to_merge			
		ext4_ext_try_to_merge_up			
		path->p_depth = 0			
		<pre>brelse(path[1].p_bh)> not set to NULL here</pre>			
		<pre>// zeroout success</pre>			
		// 2. update path			
		ext4_find_extent			
		// 3. do split2			
		ext4_split_extent_at			
		ext4_ext_insert_extent			
		ext4_ext_create_new_leaf			
		ext4_ext_grow_indepth			
		le16_add_cpu(&neh->eh_depth, 1)			
		ext4_find_extent			
		path[0].p_bh = NULL;			

		path->p_depth = 1			
		read_extent_tree_block> return err // path[1].p_bh is still the old value			
		ext4_free_ext_path			
		ext4_ext_drop_refs			
		// path->p_depth == 1			
		brelse(path[1].p_bh)> brelse a buffer			
		twice			
		Finally got the following WARRNING when removing the buffer from Iru:			
		VFS: brelse: Trying to free free buffer			
		WARNING: CPU: 2 PID: 72 at fs/buffer.c:1241			
		brelse+0x58/0x90			
		CPU: 2 PID: 72 Comm: kworker/u19:1 Not tainted			
		6.9.0-dirty #716			
		RIP: 0010:brelse+0x58/0x90 Call Trace:			
		<task></task>			
		find_get_block+0x6e7/0x810			
		bdev_getblk+0x2b/0x480			
		ext4_get_inode_loc+0x48a/0x1240			
		ext4_get_inode_loc+0xb2/0x150			
		ext4_reserve_inode_write+0xb7/0x230			
		ext4_mark_inode_dirty+0x144/0x6a0			
		ext4_ext_insert_extent+0x9c8/0x3230			
		ext4_ext_map_blocks+0xf45/0x2dc0			
		ext4_map_blocks+0x724/0x1700			
		ext4_do_writepages+0x12d6/0x2a70			
		[]			
CVE-2024-49883	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			-
	products				
		ext4: aovid use-after-free in ext4_ext_insert_extent()			
		As Ojaswin mentioned in Link, in			
		ext4_ext_insert_extent(), if the path is			
		reallocated in ext4_ext_create_new_leaf(), we'll use			
		the stale path and			
		cause UAF. Below is a sample trace with dummy			
		values:			
		ext4_ext_insert_extent			
		path = *ppath = 2000			
		ext4_ext_create_new_leaf(ppath)			
		ext4_find_extent(ppath)			
		path = *ppath = 2000			
		if (depth > path[0].p_maxdepth)			

		1	1	1	
		kfree(path = 2000);			
		*ppath = path = NULL;			
		path = kcalloc() = 3000			
		*ppath = 3000;			
		return path;			
		/* here path is still 2000, UAF! */			
		eh = path[depth].p_hdr			
		BUG: KASAN: slab-use-after-free in			
		ext4_ext_insert_extent+0x26d4/0x3330			
		Read of size 8 at addr ffff8881027bf7d0 by task			
		kworker/u36:1/179			
		CPU: 3 UID: 0 PID: 179 Comm: kworker/u6:1 Not			
		tainted 6.11.0-rc2-dirty #866			
		Call Trace:			
		<task></task>			
		ext4_ext_insert_extent+0x26d4/0x3330			
		ext4_ext_map_blocks+0xe22/0x2d40			
		ext4_map_blocks+0x71e/0x1700			
		ext4_do_writepages+0x1290/0x2800			
		[]			
		Allocated by task 179:			
		ext4_find_extent+0x81c/0x1f70			
		ext4_ext_map_blocks+0x146/0x2d40			
		ext4_map_blocks+0x71e/0x1700			
		ext4_do_writepages+0x1290/0x2800			
		ext4_writepages+0x26d/0x4e0			
		do_writepages+0x175/0x700			
		[]			
		Freed by task 179:			
		kfree+0xcb/0x240			
		ext4_find_extent+0x7c0/0x1f70			
		ext4_ext_insert_extent+0xa26/0x3330			
		ext4_ext_map_blocks+0xe22/0x2d40			
		ext4_map_blocks+0x71e/0x1700			
		ext4_do_writepages+0x1290/0x2800			
		ext4_writepages+0x26d/0x4e0			
		do_writepages+0x175/0x700			
		[]			
		So use * anoth to undete the noth to sucid the above			
		So use *ppath to update the path to avoid the above			
		problem.			
<u>CVE-2024-49884</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products				
		ext4: fix slab-use-after-free in ext4_split_extent_at()			
			1	I	1

We hit the following use-after-free:		
BUG: KASAN: slab-use-after-free in		
ext4_split_extent_at+0xba8/0xcc0		
Read of size 2 at addr ffff88810548ed08 by task		
kworker/u20:0/40		
CPU: 0 PID: 40 Comm: kworker/u20:0 Not tainted		
6.9.0-dirty #724		
Call Trace:		
<task></task>		
kasan_report+0x93/0xc0		
ext4_split_extent_at+0xba8/0xcc0		
ext4_split_extent.isra.0+0x18f/0x500		
ext4_split_convert_extents+0x275/0x750		
ext4_ext_handle_unwritten_extents+0x73e/0x1580		
ext4_ext_map_blocks+0xe20/0x2dc0		
ext4_map_blocks+0x724/0x1700		
ext4_do_writepages+0x12d6/0x2a70		
[]		
Allocated by task 40:		
kmalloc_noprof+0x1ac/0x480		
ext4_find_extent+0xf3b/0x1e70		
ext4_ext_map_blocks+0x188/0x2dc0		
ext4_map_blocks+0x724/0x1700		
ext4_do_writepages+0x12d6/0x2a70		
[]		
Freed by tech 40:		
Freed by task 40: kfree+0xf1/0x2b0		
ext4_find_extent+0xa71/0x1e70		
ext4_ext_insert_extent+0xa22/0x3260		
ext4_split_extent_at+0x3ef/0xcc0 ext4_split_extent.isra.0+0x18f/0x500		
ext4_split_convert_extents+0x275/0x750		
ext4_ext_handle_unwritten_extents+0x73e/0x1580		
ext4_ext_map_blocks+0xe20/0x2dc0		
ext4_map_blocks+0x724/0x1700		
ext4_do_writepages+0x12d6/0x2a70		
[]		
The flow of issue triggering is as follows:		
ext4_split_extent_at		
path = *ppath		
ext4_ext_insert_extent(ppath)		
ext4_ext_create_new_leaf(ppath)		
ext4_find_extent(orig_path)		
path = *orig_path		
	1 1	<u> </u>

		read_extent_tree_block			
		// return -ENOMEM or -EIO			
		ext4_free_ext_path(path)			
		kfree(path)			
		*orig_path = NULL			
		a. If err is -ENOMEM:			
		ext4_ext_dirty(path + path->p_depth)			
		// path use-after-free !!!			
		b. If err is -EIO and we have EXT_DEBUG defined:			
		ext4_ext_show_leaf(path)			
		eh = path[depth].p_hdr			
		// path also use-after-free !!!			
		So when trying to zeroout or fix the extent length, call			
		ext4_find_extent()			
		to update the path.			
		In addition we use *anoth directly as an			
		In addition we use *ppath directly as an			
		ext4_ext_show_leaf() input to			
		avoid possible use-after-free when EXT_DEBUG is			
		defined, and to avoid			
		unnecessary path updates.			
CVE-2024-49889	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products				
		ext4: avoid use-after-free in ext4_ext_show_leaf()			
		In ext4_find_extent(), path may be freed by error or			
		be reallocated, so			
		using a previously saved *ppath may have been freed			
		and thus may trigger			
		use-after-free, as follows:			
		ext4_split_extent			
		path = *ppath;			
		ext4_split_extent_at(ppath)			
		path = ext4_find_extent(ppath)			
		ext4_split_extent_at(ppath)			
		<pre>// ext4_find_extent fails to free path</pre>			
		// but zeroout succeeds			
		ext4_ext_show_leaf(inode, path)			
		eh = path[depth].p_hdr			
		// path use-after-free !!!			
		Similar to ext4_split_extent_at(), we use *ppath			
		directly as an input to			
		ext4_ext_show_leaf(). Fix a spelling error by the way.			
		Same problem in			
		ext4_ext_handle_unwritten_extents(). Since 'path' is			
		only			

			1		
		used in ext4_ext_show_leaf(), remove 'path' and use			
		*ppath directly.			
		This issue is triggered only when EXT_DEBUG is			
		defined and therefore does			
		not affect functionality.	2024 46 54		
<u>CVE-2024-49894</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products				
		drm/amd/display: Fix index out of bounds in			
		degamma hardware format translation			
		Fixes index out of bounds issue in			
		<pre>`cm_helper_translate_curve_to_degamma_hw_form</pre>			
		at` function. The issue could occur when the index 'i' exceeds the number of			
		transfer function			
		points (TRANSFER_FUNC_POINTS).			
		The fix adds a check to ensure 'i' is within bounds			
		before accessing the			
		transfer function points. If 'i' is out of bounds the			
		function returns			
		false to indicate an error.			
		Reported by smatch:			
		drivers/gpu/drm/amd/amdgpu//display/dc/dcn10/d			
		cn10_cm_common.c:594			
		cm_helper_translate_curve_to_degamma_hw_forma			
		t() error: buffer overflow 'output_tf->tf_pts.red' 1025			
		<pre><= s32max</pre>			
		drivers/gpu/drm/amd/amdgpu//display/dc/dcn10/d			
		cn10 cm common.c:595			
		cm_helper_translate_curve_to_degamma_hw_forma			
		t() error: buffer overflow 'output_tf->tf_pts.green'			
		1025 <= s32max			
		drivers/gpu/drm/amd/amdgpu//display/dc/dcn10/d			
		cn10_cm_common.c:596			
		cm_helper_translate_curve_to_degamma_hw_forma			
		t() error: buffer overflow 'output_tf->tf_pts.blue'			
		1025 <= s32max			
CVE-2024-49895	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products				
		drm/amd/display: Fix index out of bounds in DCN30			
		degamma hardware format translation			
		This commit addresses a potential index out of			
		bounds issue in the			
		`cm3_helper_translate_curve_to_degamma_hw_for			
		mat` function in the DCN30			

Г					
		color management module. The issue could occur			
		when the index 'i'			
		exceeds the number of transfer function points			
		(TRANSFER_FUNC_POINTS).			
		The fix adds a check to ensure 'i' is within bounds			
		before accessing the			
		transfer function points. If 'i' is out of bounds, the			
		function returns			
		false to indicate an error.			
		Reported by smatch:			
		drivers/gpu/drm/amd/amdgpu//display/dc/dcn30/d			
		cn30_cm_common.c:338			
		cm3_helper_translate_curve_to_degamma_hw_form			
		at() error: buffer overflow 'output_tf->tf_pts.red'			
		1025 <= s32max			
		drivers/gpu/drm/amd/amdgpu//display/dc/dcn30/d			
		cn30_cm_common.c:339			
		cm3_helper_translate_curve_to_degamma_hw_form			
		at() error: buffer overflow 'output_tf->tf_pts.green'			
		1025 <= s32max			
		drivers/gpu/drm/amd/amdgpu//display/dc/dcn30/d			
		cn30_cm_common.c:340			
		cm3_helper_translate_curve_to_degamma_hw_form			
		at() error: buffer overflow 'output_tf->tf_pts.blue'			
		1025 <= s32max			
<u>CVE-2024-49924</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products	fhdow wofh: Fix possible use ofter free in			
		fbdev: pxafb: Fix possible use after free in pxafb_task()			
		In the pxafb_probe function, it calls the			
		pxafb_init_fbinfo function,			
		after which &fbi->task is associated with pxafb_task.			
		Moreover,			
		within this pxafb_init_fbinfo function, the			
		pxafb_blank function			
		within the &pxafb_ops struct is capable of scheduling			
		work.			
		If we remove the module which will call			
		pxafb_remove to make cleanup,			
		it will call unregister_framebuffer function which can			
		call			
		do_unregister_framebuffer to free fbi->fb through			
		put_fb_info(fb_info), while the work mentioned			
		above will be used.			
		The sequence of operations that may lead to a UAF			
1	1	bug is as follows:	1		

CPU0 CPU1			
pxafb_task pxafb_remove unregister_framebuffer(info) do_unregister_framebuffer(fb_info) put_fb_info(fb_info) // free fbi->fb set_ctrlr_state(fbi, state) pxafb_lcd_power(fbi, 0) fbi->lcd_power(on, &fbi->fb.var) // use fbi->fb Fix it by ensuring that the work is canceled before proceeding			
with the cleanup in pxafb_remove.			
Note that only root user can remove the driver at runtime.			
In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	7.8	High
wifi: ath11k: fix array out-of-bound access in SoC stats			
Currently, the ath11k_soc_dp_stats::hal_reo_error array is defined with a			
<pre>the ath11k_dp_process_rx() function access ath11k_soc_dp_stats::hal_reo_error</pre>			
destination SRNG ring ID, which is incorrect. SRNG ring ID differ from			
array access. To fix this issue, modify ath11k_dp_process_rx() to use the			
normal ring ID directly instead of the SRNG ring ID to avoid out-of- bounds array access.			
Tested-on: QCN9074 hw1.0 PCI WLAN.HK.2.7.0.1- 01744-QCAHKSWPL_SILICONZ-1			
In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	7.8	High
wifi: ath12k: fix array out-of-bound access in SoC stats			
Currently, the ath12k_soc_dp_stats::hal_reo_error array is defined with a maximum size of DP REO DST RING MAX. However,			
	<pre> pxafb_task pxafb_remove unregister_framebuffer(finfo) do_unregister_framebuffer(fb_info) put_fb_info(fb_info) // free fbi->fb set_ctrlr_state(fbi, state) pxafb_lcd_power(fbi, 0) fbi->lcd_power(fbi, 0) fbi->lcd_power(on, &fbi->fb.var) // use fbi->fb</pre> Fix it by ensuring that the work is canceled before proceeding with the cleanup in pxafb_remove. Note that only root user can remove the driver at <u>runtime.</u> In the Linux kernel, the following vulnerability has been resolved: wifi: ath11k: fix array out-of-bound access in SoC stats Currently, the ath11k_soc_dp_stats::hal_reo_error array is defined with a maximum size of DP_REO_DST_RING_MAX. However, the ath11k_dp_process_rx() function access ath11k_soc_dp_stats::hal_reo_error using the REO destination SRNG ring ID, which is incorrect. SRNG ring ID differ from normal ring ID, and this usage leads to out-of-bounds array access. To fix this issue, modify ath11k_dp_process_rx() to use the normal ring ID directly instead of the SRNG ring ID to avoid out-of- bounds array access. Tested-on: QCN9074 hw1.0 PCI WLAN.HK.2.7.0.1- <u>01744-QCAHKSWPL_SILICONZ-1</u> In the Linux kernel, the following vulnerability has been resolved: wifi: ath12k: fix array out-of-bound access in SoC stats Currently, the ath12k_soc_dp_stats::hal_reo_error	pxafb_taskpxafb_remove unregister_framebuffer(info) do_unregister_framebuffer(fb_info) put_fb_info(fb_info) // free fbi->fb set_ctrlr_state(fbi, state)	pxafb_taskpxafb_removeunregister_framebuffer(info)do_unregister_framebuffer(info)put_fb_info(fb_info)put_fb_info(fb_info)

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		the ath12k_dp_rx_process()			
		function access ath12k_soc_dp_stats::hal_reo_error			
		using the REO			
		destination SRNG ring ID, which is incorrect. SRNG			
		ring ID differ from			
		normal ring ID, and this usage leads to out-of-bounds			
		array access. To			
		fix this issue, modify ath12k_dp_rx_process() to use			
		the normal ring ID			
		directly instead of the SRNG ring ID to avoid out-of-			
		bounds array access.			
		Tested-on: QCN9274 hw2.0 PCI WLAN.WBE.1.0.1-			
		00029-QCAHKSWPL_SILICONZ-1			
CVE-2024-49936	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			_
	products				
		net/xen-netback: prevent UAF in xenvif_flush_hash()			
		During the list_for_each_entry_rcu iteration call of			
		xenvif_flush_hash,			
		kfree_rcu does not exist inside the rcu read critical			
		section, so if			
		kfree_rcu is called when the rcu grace period ends			
		during the iteration,			
		UAF occurs when accessing head->next after the			
		entry becomes free.			
		,			
		Therefore, to solve this, you need to change it to			
		list_for_each_entry_safe.			
CVE-2024-49950	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products				
	p	Bluetooth: L2CAP: Fix uaf in l2cap_connect			
		[Syzbot reported]			
		BUG: KASAN: slab-use-after-free in			
		l2cap_connect.constprop.0+0x10d8/0x1270			
		net/bluetooth/l2cap_core.c:3949			
		Read of size 8 at addr ffff8880241e9800 by task			
		kworker/u9:0/54			
		CPU: 0 UID: 0 PID: 54 Comm: kworker/u9:0 Not			
		tainted 6.11.0-rc6-syzkaller-00268-g788220eee30d			
		#0			
		Hardware name: Google Google Compute			
		Engine/Google Compute Engine, BIOS Google			
		08/06/2024			
		Workqueue: hci2 hci_rx_work			
		Call Trace:			
		<task></task>			
	I				

[]		
	dump_stack lib/dump_stack.c:93 [inline]	
	dump_stack_lvl+0x116/0x1f0 lib/dump_stack.c:119	
	print_address_description mm/kasan/report.c:377	
	[inline]	
	print_report+0xc3/0x620 mm/kasan/report.c:488	
	kasan_report+0xd9/0x110 mm/kasan/report.c:601	
	l2cap_connect.constprop.0+0x10d8/0x1270	
	net/bluetooth/l2cap_core.c:3949	
	l2cap_connect_req net/bluetooth/l2cap_core.c:4080	
	[inline]	
	l2cap_bredr_sig_cmd	
	net/bluetooth/l2cap_core.c:4772 [inline]	
	l2cap_sig_channel net/bluetooth/l2cap_core.c:5543	
	[inline]	
	l2cap_recv_frame+0xf0b/0x8eb0	
	net/bluetooth/l2cap_core.c:6825	
	l2cap_recv_acldata+0x9b4/0xb70	
	net/bluetooth/l2cap_core.c:7514	
	hci_acldata_packet net/bluetooth/hci_core.c:3791	
	[inline]	
	hci_rx_work+0xaab/0x1610	
	net/bluetooth/hci_core.c:4028	
	process_one_work+0x9c5/0x1b40	
	kernel/workqueue.c:3231	
	process_scheduled_works kernel/workqueue.c:3312	
	[inline]	
	worker_thread+0x6c8/0xed0	
	kernel/workqueue.c:3389	
	kthread+0x2c1/0x3a0 kernel/kthread.c:389	
	ret_from_fork+0x45/0x80	
	arch/x86/kernel/process.c:147	
	ret_from_fork_asm+0x1a/0x30	
	arch/x86/entry/entry_64.S:244	
	Freed by tech 5245	
	Freed by task 5245:	
	kasan_save_stack+0x33/0x60	
	mm/kasan/common.c:47	
	kasan_save_track+0x14/0x30	
	mm/kasan/common.c:68	
	kasan_save_free_info+0x3b/0x60	
	mm/kasan/generic.c:579	
	poison_slab_object+0xf7/0x160	
	mm/kasan/common.c:240	
	kasan_slab_free+0x32/0x50	
	mm/kasan/common.c:256	
	kasan_slab_free include/linux/kasan.h:184 [inline]	
	slab_free_hook mm/slub.c:2256 [inline]	
	slab_free mm/slub.c:4477 [inline]	
	kfree+0x12a/0x3b0 mm/slub.c:4598	
	l2cap_conn_free net/bluetooth/l2cap_core.c:1810	

		[inline]			
		kref put include/linux/kref.h:65 [inline]			
		l2cap_conn_put net/bluetooth/l2cap_core.c:1822			
		[inline]			
		l2cap_conn_del+0x59d/0x730			
		net/bluetooth/l2cap_core.c:1802			
		l2cap_connect_cfm+0x9e6/0xf80			
		net/bluetooth/l2cap_core.c:7241			
		hci_connect_cfm			
		include/net/bluetooth/hci_core.h:1960 [inline]			
		hci_conn_failed+0x1c3/0x370			
		net/bluetooth/hci_conn.c:1265			
		hci_abort_conn_sync+0x75a/0xb50			
		net/bluetooth/hci_sync.c:5583			
		abort_conn_sync+0x197/0x360			
		net/bluetooth/hci_conn.c:2917			
		hci_cmd_sync_work+0x1a4/0x410			
		net/bluetooth/hci_sync.c:328			
		process_one_work+0x9c5/0x1b40			
		kernel/workqueue.c:3231			
		process_scheduled_works kernel/workqueue.c:3312			
		[inline]			
		worker_thread+0x6c8/0xed0			
		kernel/workqueue.c:3389			
		kthread+0x2c1/0x3a0 kernel/kthread.c:389			
		ret_from_fork+0x45/0x80			
		arch/x86/kernel/process.c:147			
		ret_from_fork_asm+0x1a/0x30			
		arch/x86/entry/entry_64.S:244			
CVE-2024-49960	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			U
	products				
	•	ext4: fix timer use-after-free on failed mount			
		Syzbot has found an ODEBUG bug in ext4_fill_super			
		The del_timer_sync function cancels the s_err_report			
		timer,			
		which reminds about filesystem errors daily. We			
		should			
		guarantee the timer is no longer active before			
		kfree(sbi).			
		When filesystem mounting fails, the flow goes to			
		failed_mount3,			
		— — — — — — — — — — — — — — — — — — — —			
		where an error occurs when ext4_stop_mmpd is			
		called, causing			
		a read I/O failure. This triggers the ext4_handle_error			
		function			
		that ultimately re-arms the timer,			
		leaving the s_err_report timer active before			

		kfree(sbi) is called.			
		Fix the issue by canceling the s_err_report timer after calling ext4_stop_mmpd.			
CVE-2024-49967	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products				
		ext4: no need to continue when the number of			
		entries is 1			
CVE-2024-49969	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products	drm/amd/dienlaw: Eix index out of bounds in DCN20			
		drm/amd/display: Fix index out of bounds in DCN30 color transformation			
		This commit addresses a potential index out of			
		bounds issue in the			
		`cm3_helper_translate_curve_to_hw_format`			
		function in the DCN30 color			
		management module. The issue could occur when			
		the index 'i' exceeds the			
		number of transfer function points			
		(TRANSFER_FUNC_POINTS).			
		The fix adds a check to ensure 'i' is within bounds			
		before accessing the			
		transfer function points. If 'i' is out of bounds, the			
		function returns			
		false to indicate an error.			
		drivers/gpu/drm/amd/amdgpu//display/dc/dcn30/d			
		cn30_cm_common.c:180			
		cm3_helper_translate_curve_to_hw_format() error:			
		buffer overflow 'output_tf->tf_pts.red' 1025 <=			
		s32max drivers/gpu/drm/amd/amdgpu//display/dc/dcn30/d			
		cn30_cm_common.c:181			
		cm3_helper_translate_curve_to_hw_format() error:			
		buffer overflow 'output_tf->tf_pts.green' 1025 <=			
		s32max			
		drivers/gpu/drm/amd/amdgpu//display/dc/dcn30/d			
		cn30_cm_common.c:182			
		cm3_helper_translate_curve_to_hw_format() error:			
		buffer overflow 'output_tf->tf_pts.blue' 1025 <=			
	1:	s32max	2024 40 24	7.0	112-1-
<u>CVE-2024-49982</u>	linux - multiple	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	7.8	High
	products				
	products	aoe: fix the potential use-after-free problem in more			
		places			

· · · · · · · · · · · · · · · · · · ·			1		
		For fixing CVE-2023-6270, f98364e92662 ("aoe: fix			
		the potential			
		use-after-free problem in aoecmd_cfg_pkts") makes			
		tx() calling dev_put()			
		instead of doing in aoecmd_cfg_pkts(). It avoids that			
		the tx() runs			
		into use-after-free.			
		Then Nicolai Stange found more places in aoe have			
		potential use-after-free			
		problem with tx(). e.g. revalidate(), aoecmd_ata_rw(),			
		resend(), probe()			
		and aoecmd_cfg_rsp(). Those functions also use			
		aoenet_xmit() to push			
		packet to tx queue. So they should also use			
		dev hold() to increase the			
		- 0			
		refcnt of skb->dev.			
		On the other hand, maying day, and () to the former			
		On the other hand, moving dev_put() to tx() causes			
		that the refcnt of			
		skb->dev be reduced to a negative value, because			
		corresponding			
		<pre>dev_hold() are not called in revalidate(),</pre>			
		aoecmd_ata_rw(), resend(),			
		probe(), and aoecmd_cfg_rsp(). This patch fixed this			
		issue.			
<u>CVE-2024-49983</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
<u>CVE-2024-49983</u>	linux - multiple		2024-10-21	7.8	High
<u>CVE-2024-49983</u>		In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
<u>CVE-2024-49983</u>	multiple	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
<u>CVE-2024-49983</u>	multiple	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	7.8	High
<u>CVE-2024-49983</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: ext4: drop ppath from ext4_ext_replay_update_ex()	2024-10-21	7.8	High
<u>CVE-2024-49983</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: ext4: drop ppath from ext4_ext_replay_update_ex()	2024-10-21	7.8	High
<u>CVE-2024-49983</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: ext4: drop ppath from ext4_ext_replay_update_ex() to avoid double-free	2024-10-21	7.8	High
<u>CVE-2024-49983</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: ext4: drop ppath from ext4_ext_replay_update_ex() to avoid double-free When calling ext4_force_split_extent_at() in	2024-10-21	7.8	High
<u>CVE-2024-49983</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: ext4: drop ppath from ext4_ext_replay_update_ex() to avoid double-free When calling ext4_force_split_extent_at() in ext4_ext_replay_update_ex(),	2024-10-21	7.8	High
<u>CVE-2024-49983</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: ext4: drop ppath from ext4_ext_replay_update_ex() to avoid double-free When calling ext4_force_split_extent_at() in ext4_ext_replay_update_ex(), the 'ppath' is updated but it is the 'path' that is freed, thus potentially	2024-10-21	7.8	High
<u>CVE-2024-49983</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: ext4: drop ppath from ext4_ext_replay_update_ex() to avoid double-free When calling ext4_force_split_extent_at() in ext4_ext_replay_update_ex(), the 'ppath' is updated but it is the 'path' that is freed,	2024-10-21	7.8	High
<u>CVE-2024-49983</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: ext4: drop ppath from ext4_ext_replay_update_ex() to avoid double-free When calling ext4_force_split_extent_at() in ext4_ext_replay_update_ex(), the 'ppath' is updated but it is the 'path' that is freed, thus potentially triggering a double-free in the following process:	2024-10-21	7.8	High
<u>CVE-2024-49983</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: ext4: drop ppath from ext4_ext_replay_update_ex() to avoid double-free When calling ext4_force_split_extent_at() in ext4_ext_replay_update_ex(), the 'ppath' is updated but it is the 'path' that is freed, thus potentially triggering a double-free in the following process: ext4_ext_replay_update_ex	2024-10-21	7.8	High
<u>CVE-2024-49983</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: ext4: drop ppath from ext4_ext_replay_update_ex() to avoid double-free When calling ext4_force_split_extent_at() in ext4_ext_replay_update_ex(), the 'ppath' is updated but it is the 'path' that is freed, thus potentially triggering a double-free in the following process: ext4_ext_replay_update_ex ppath = path	2024-10-21	7.8	High
<u>CVE-2024-49983</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: ext4: drop ppath from ext4_ext_replay_update_ex() to avoid double-free When calling ext4_force_split_extent_at() in ext4_ext_replay_update_ex(), the 'ppath' is updated but it is the 'path' that is freed, thus potentially triggering a double-free in the following process: ext4_ext_replay_update_ex ppath = path ext4_force_split_extent_at(&ppath)	2024-10-21	7.8	High
<u>CVE-2024-49983</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: ext4: drop ppath from ext4_ext_replay_update_ex() to avoid double-free When calling ext4_force_split_extent_at() in ext4_ext_replay_update_ex(), the 'ppath' is updated but it is the 'path' that is freed, thus potentially triggering a double-free in the following process: ext4_ext_replay_update_ex ppath = path ext4_force_split_extent_at(&ppath) ext4_split_extent_at	2024-10-21	7.8	High
<u>CVE-2024-49983</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: ext4: drop ppath from ext4_ext_replay_update_ex() to avoid double-free When calling ext4_force_split_extent_at() in ext4_ext_replay_update_ex(), the 'ppath' is updated but it is the 'path' that is freed, thus potentially triggering a double-free in the following process: ext4_ext_replay_update_ex ppath = path ext4_force_split_extent_at(&ppath) ext4_split_extent_at ext4_ext_insert_extent	2024-10-21	7.8	High
<u>CVE-2024-49983</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: ext4: drop ppath from ext4_ext_replay_update_ex() to avoid double-free When calling ext4_force_split_extent_at() in ext4_ext_replay_update_ex(), the 'ppath' is updated but it is the 'path' that is freed, thus potentially triggering a double-free in the following process: ext4_ext_replay_update_ex ppath = path ext4_force_split_extent_at(&ppath) ext4_split_extent_at ext4_ext_insert_extent ext4_ext_create_new_leaf	2024-10-21	7.8	High
<u>CVE-2024-49983</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: ext4: drop ppath from ext4_ext_replay_update_ex() to avoid double-free When calling ext4_force_split_extent_at() in ext4_ext_replay_update_ex(), the 'ppath' is updated but it is the 'path' that is freed, thus potentially triggering a double-free in the following process: ext4_ext_replay_update_ex ppath = path ext4_force_split_extent_at(&ppath) ext4_split_extent_at ext4_ext_insert_extent ext4_ext_create_new_leaf ext4_ext_grow_indepth	2024-10-21	7.8	High
<u>CVE-2024-49983</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: ext4: drop ppath from ext4_ext_replay_update_ex() to avoid double-free When calling ext4_force_split_extent_at() in ext4_ext_replay_update_ex(), the 'ppath' is updated but it is the 'path' that is freed, thus potentially triggering a double-free in the following process: ext4_ext_replay_update_ex ppath = path ext4_force_split_extent_at(&ppath) ext4_split_extent_at ext4_ext_insert_extent ext4_ext_insert_extent ext4_ext_grow_indepth ext4_find_extent	2024-10-21	7.8	High
<u>CVE-2024-49983</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: ext4: drop ppath from ext4_ext_replay_update_ex() to avoid double-free When calling ext4_force_split_extent_at() in ext4_ext_replay_update_ex(), the 'ppath' is updated but it is the 'path' that is freed, thus potentially triggering a double-free in the following process: ext4_ext_replay_update_ex ppath = path ext4_force_split_extent_at(&ppath) ext4_split_extent_at ext4_ext_insert_extent ext4_ext_create_new_leaf ext4_ext_grow_indepth ext4_find_extent if (depth > path[0].p_maxdepth)	2024-10-21	7.8	High
<u>CVE-2024-49983</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: ext4: drop ppath from ext4_ext_replay_update_ex() to avoid double-free When calling ext4_force_split_extent_at() in ext4_ext_replay_update_ex(), the 'ppath' is updated but it is the 'path' that is freed, thus potentially triggering a double-free in the following process: ext4_ext_replay_update_ex ppath = path ext4_force_split_extent_at(&ppath) ext4_split_extent_at ext4_ext_insert_extent ext4_ext_create_new_leaf ext4_ext_grow_indepth ext4_find_extent if (depth > path[0].p_maxdepth) kfree(path)> path First freed	2024-10-21	7.8	High
<u>CVE-2024-49983</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: ext4: drop ppath from ext4_ext_replay_update_ex() to avoid double-free When calling ext4_force_split_extent_at() in ext4_ext_replay_update_ex(), the 'ppath' is updated but it is the 'path' that is freed, thus potentially triggering a double-free in the following process: ext4_ext_replay_update_ex ppath = path ext4_force_split_extent_at(&ppath) ext4_split_extent_at ext4_ext_insert_extent ext4_ext_create_new_leaf ext4_ext_grow_indepth ext4_find_extent if (depth > path[0].p_maxdepth) kfree(path)> path First freed *orig_path = path = NULL> null ppath	2024-10-21	7.8	High
<u>CVE-2024-49983</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: ext4: drop ppath from ext4_ext_replay_update_ex() to avoid double-free When calling ext4_force_split_extent_at() in ext4_ext_replay_update_ex(), the 'ppath' is updated but it is the 'path' that is freed, thus potentially triggering a double-free in the following process: ext4_ext_replay_update_ex ppath = path ext4_force_split_extent_at(&ppath) ext4_split_extent_at ext4_ext_insert_extent ext4_ext_create_new_leaf ext4_ext_grow_indepth ext4_find_extent if (depth > path[0].p_maxdepth) kfree(path)> path First freed	2024-10-21	7.8	High

		So drop the unnecessary ppath and use path directly			
		to avoid this problem.			
		And use ext4_find_extent() directly to update path,			
		avoiding unnecessary			
		memory allocation and freeing. Also, propagate the			
		error returned by			
		ext4_find_extent() instead of using strange error			
		codes.			
CVE-2024-49984	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products				
		drm/v3d: Prevent out of bounds access in			
		performance query extensions			
		Check that the number of perfmons userspace is			
		passing in the copy and			
		reset extensions is not greater than the internal			
		kernel storage where			
		the ids will be copied into.			
CVE-2024-49986	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
512 2021 15500	multiple	been resolved:		7.0	ייפייי
	products				
	products	platform/x86: x86-android-tablets: Fix use after free			
		•			
		on platform_device_register() errors			
		vec andraid tablet remove() frees the ndevs[] array			
		x86_android_tablet_remove() frees the pdevs[] array, so it should not			
		be used after calling x86_android_tablet_remove().			
		When platform dovice register() foils store the			
		When platform_device_register() fails, store the			
		pdevs[x] PTR_ERR() value			
		into the local ret variable before calling			
		x86_android_tablet_remove()			
		to avoid using pdevs[] after it has been freed.			
<u>CVE-2024-49989</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products				
		drm/amd/display: fix double free issue during			
		amdgpu module unload			
		Flexible endpoints use DIGs from available inflexible			
		endpoints,			
		so only the encoders of inflexible links need to be			
		freed.			
		Otherwise, a double free issue may occur when			
		unloading the			
		amdgpu module.			
		[279.190523] RIP: 0010:slab_free+0x152/0x2f0			
		[279.190577] Call Trace:			
		[279.190580] <task></task>			
		[279.190577] Call Trace:			

	(
		[279.190582] ? show_regs+0x69/0x80			
		[279.190590] ? die+0x3b/0x90			
		[279.190595] ? do_trap+0xc8/0xe0			
		[279.190601] ? do_error_trap+0x73/0xa0			
		[279.190605] ?slab_free+0x152/0x2f0			
		[279.190609] ? exc_invalid_op+0x56/0x70			
		[279.190616] ?slab_free+0x152/0x2f0			
		[279.190642] ? asm_exc_invalid_op+0x1f/0x30			
		[279.190648] ?			
		dcn10_link_encoder_destroy+0x19/0x30 [amdgpu]			
		[279.191096] ?slab_free+0x152/0x2f0			
		[279.191102] ?			
		dcn10_link_encoder_destroy+0x19/0x30 [amdgpu]			
		[279.191469] kfree+0x260/0x2b0			
		[279.191474]			
		dcn10_link_encoder_destroy+0x19/0x30 [amdgpu]			
		[279.191821] link_destroy+0xd7/0x130 [amdgpu]			
		[279.192248] dc_destruct+0x90/0x270 [amdgpu]			
		[279.192666] dc_destroy+0x19/0x40 [amdgpu]			
		[279.193020] amdgpu_dm_fini+0x16e/0x200			
		[amdgpu]			
		[279.193432] dm_hw_fini+0x26/0x40 [amdgpu]			
		[279.193795]			
		amdgpu_device_fini_hw+0x24c/0x400 [amdgpu]			
		[279.194108]			
		amdgpu_driver_unload_kms+0x4f/0x70 [amdgpu]			
		[279.194436] amdgpu_pci_remove+0x40/0x80			
		[amdgpu]			
		[279.194632] pci_device_remove+0x3a/0xa0			
		[279.194638] device remove+0x40/0x70			
		[279.194642]			
		device release driver internal+0x1ad/0x210			
		[279.194647] driver_detach+0x4e/0xa0			
		[279.194650] bus_remove_driver+0x6f/0xf0			
		[279.194653] driver_unregister+0x33/0x60			
		[279.194657] pci_unregister_driver+0x44/0x90			
		[279.194662] amdgpu_exit+0x19/0x1f0 [amdgpu]			
		[279.194939]			
		do_sys_delete_module.isra.0+0x198/0x2f0			
		[279.194946]			
		x64_sys_delete_module+0x16/0x20			
		[279.194950] do_syscall_64+0x58/0x120			
		[279.194954]			
		entry_SYSCALL_64_after_hwframe+0x6e/0x76			
		[279.194980]			
CVE-2024-49991	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products				
		drm/amdkfd: amdkfd_free_gtt_mem clear the			
		correct pointer			

			Ι		
		Pass pointer reference to amdgpu_bo_unref to clear			
		the correct pointer,			
		otherwise amdgpu_bo_unref clear the local variable,			
		the original pointer			
		not set to NULL, this could cause use-after-free bug.			
CVE-2024-49992	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products				
		drm/stm: Avoid use-after-free issues with crtc and			
		plane			
		Itdc_load() calls functions			
		drm_crtc_init_with_planes(),			
		drm_universal_plane_init() and drm_encoder_init().			
		These functions			
		should not be called with parameters allocated with			
		devm_kzalloc()			
		to avoid use-after-free issues [1].			
		Use allocations managed by the DRM framework.			
		Found by Linux Verification Center (linuxtesting.org).			
		[1]			
		https://lore.kernel.org/lkml/u366i76e3qhh3ra5oxrtn			
		gjtm2u5lterkekcz6y2jkndhuxzli@diujon4h7qwb/			
CVE-2024-49995	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products				
		tipc: guard against string buffer overrun			
		Smatch reports that copying media_name and			
		if_name to name_parts may			
		overwrite the destination.			
		/bearer.c:166 bearer_name_validate() error:			
		<pre>strcpy() 'media_name' too large for 'name_parts-</pre>			
		>media_name' (32 vs 16)			
		/bearer.c:167 bearer_name_validate() error:			
		strcpy() 'if_name' too large for 'name_parts-			
		>if_name' (1010102 vs 16)			
		This does seem to be the case so guard against this			
		possibility by using			
		strscpy() and failing if truncation occurs.			
		Introduced by commit b97bf3fd8f6a ("[TIPC] Initial			
		merge")			
		Compile tested only.			
		Complie tested only.			

CV/F 2024 4000C	1	In the Linear bound, the following under makility has	2024 10 24	7.0	Llink
<u>CVE-2024-49996</u>	linux - multiple	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	7.8	High
	products				
		cifs: Fix buffer overflow when parsing NFS reparse			
		points			
		Poparco Datal ongth is sum of the Inode Type size and			
		ReparseDataLength is sum of the InodeType size and DataBuffer size.			
		So to get DataBuffer size it is needed to subtract			
		InodeType's size from			
		ReparseDataLength.			
		Function cifs_strndup_from_utf16() is currentlly			
		accessing buf->DataBuffer			
		at position after the end of the buffer because it does			
		not subtract			
		InodeType size from the length. Fix this problem and correctly subtract			
		variable len.			
		Member InodeType is present only when reparse			
		buffer is large enough. Check			
		for ReparseDataLength before accessing InodeType to prevent another invalid			
		memory access.			
		Major and minor rdev values are present also only			
		when reparse buffer is			
		large enough. Check for reparse buffer size before calling reparse_mkdev().			
CVE-2024-50007	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:		_	0
	products				
		ALSA: asihpi: Fix potential OOB array access			
		ASIHPI driver stores some values in the static array			
		upon a response			
		from the driver, and its index depends on the			
		firmware. We shouldn't			
		trust it blindly.			
		This patch adds a sanity check of the array index to fit			
		in the array			
	1: -	size.	2024 40 24	7.0	111.1
<u>CVE-2022-48948</u>	linux - multiple	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	7.8	High
	products				
	1	usb: gadget: uvc: Prevent buffer overflow in setup			
		handler			
		Sotup function use function sotup permits control			
		Setup function uvc_function_setup permits control			

					1
		transfer			
		requests with up to 64 bytes of payload			
		(UVC_MAX_REQUEST_SIZE),			
		data stage handler for OUT transfer uses memcpy to			
		copy req->actual			
		bytes to uvc_event->data.data array of size 60. This			
		may result			
		in an overflow of 4 bytes.			
<u>CVE-2022-48950</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products				
		perf: Fix perf_pending_task() UaF			
		Per syzbot it is possible for perf_pending_task() to			
		run after the			
		event is free()'d. There are two related but distinct			
		cases:			
		- the task_work was already queued before			
		destroying the event;			
		- destroying the event itself queues the task_work.			
		- destroying the event itself queues the task_work.			
		The first cannot be solved using task_work_cancel()			
		since			
		perf_release() itself might be called from a task_work			
		(fput),			
		which means the current->task_works list is already			
		empty and			
		task_work_cancel() won't be able to find the			
		perf_pending_task()			
		entry.			
		The simplest alternative is extending the perf_event			
		lifetime to cover			
		the task_work.			
		_			
		The second is just silly, queueing a task_work while			
		you know the			
		event is going away makes no sense and is easily			
		avoided by			
		re-arranging how the event is marked STATE_DEAD			
		and ensuring it goes			
		through STATE_OFF on the way down.			
CVE-2022-48951	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products				
		ASoC: ops: Check bounds for second channel in			
		snd_soc_put_volsw_sx()			
		The bounds checks in snd_soc_put_volsw_sx() are			
		only being applied to the			

		first shownol, morning it is specified to contain a set of			
		first channel, meaning it is possible to write out of			
		bounds values to the			
		second channel in stereo controls. Add appropriate checks.			
CVE 2022 480E4	linux -		2024-10-21	7.8	High
<u>CVE-2022-48954</u>		In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products	s390/geth: fix use-after-free in hsci			
		ssol/deth. hx use-alter-free in fisch			
		KASAN found that addr was dereferenced after			
		br2dev_event_work was freed.			
		BUG: KASAN: use-after-free in			
		qeth_l2_br2dev_worker+0x5ba/0x6b0			
		Read of size 1 at addr 00000000fdcea440 by task			
		kworker/u760:4/540			
		CPU: 17 PID: 540 Comm: kworker/u760:4 Tainted: G			
		E 6.1.0-			
		20221128.rc7.git1.5aa3bed4ce83.300.fc36.s390x+kas			
		an #1			
		Hardware name: IBM 8561 T01 703 (LPAR)			
		Workqueue: 0.0.8000_event qeth_l2_br2dev_worker			
		Call Trace:			
		[<00000016944d4ce>] dump_stack_lvl+0xc6/0xf8			
		[<00000016942cd9c>]			
		print_address_description.constprop.0+0x34/0x2a0			
		[<000000016942d118>] print_report+0x110/0x1f8			
		[<0000000167a7bd04>] kasan_report+0xfc/0x128			
		[<00000016938d79a>]			
		qeth_l2_br2dev_worker+0x5ba/0x6b0			
		[<0000001673edd1e>]			
		process_one_work+0x76e/0x1128			
		[<0000001673ee85c>]			
		worker_thread+0x184/0x1098			
		[<000000016740718a>] kthread+0x26a/0x310			
		[<00000001672c606a>]ret_from_fork+0x8a/0xe8			
		[<00000001694711da>] ret_from_fork+0xa/0x40			
		Allocated by task 108338:			
		kasan_save_stack+0x40/0x68			
		kasan_set_track+0x36/0x48			
		kasan_kmalloc+0xa0/0xc0			
		qeth_l2_switchdev_event+0x25a/0x738			
		atomic_notifier_call_chain+0x9c/0xf8			
		br_switchdev_fdb_notify+0xf4/0x110			
		fdb_notify+0x122/0x180			
		fdb_add_entry.constprop.0.isra.0+0x312/0x558			
		br_fdb_add+0x59e/0x858 rtnl_fdb_add+0x58a/0x928			
		rtnetlink_rcv_msg+0x5f8/0x8d8			
		netlink rcv skb+0x1f2/0x408			

ГГ		[
	netlink_unicast+0x570/0x790		
	netlink_sendmsg+0x752/0xbe0		
	sock_sendmsg+0xca/0x110		
	sys_sendmsg+0x510/0x6a8		
	sys_sendmsg+0x12a/0x180		
	sys_sendmsg+0xe6/0x168		
	do_sys_socketcall+0x3c8/0x468		
	do_syscall+0x22c/0x328		
	do_syscall+0x94/0xf0		
	system_call+0x82/0xb0		
	Freed by task 540:		
	kasan_save_stack+0x40/0x68		
	kasan_set_track+0x36/0x48		
	kasan_save_free_info+0x4c/0x68		
	kasan_slab_free+0x14e/0x1a8		
	kasan_slab_free+0x24/0x30		
	kmem_cache_free+0x168/0x338		
	qeth_l2_br2dev_worker+0x154/0x6b0		
	process_one_work+0x76e/0x1128		
	worker_thread+0x184/0x1098		
	kthread+0x26a/0x310		
	ret_from_fork+0x8a/0xe8		
	ret_from_fork+0xa/0x40		
	Last potentially related work creation:		
	kasan_save_stack+0x40/0x68		
	kasan_record_aux_stack+0xbe/0xd0		
	insert_work+0x56/0x2e8		
	queue_work+0x4ce/0xd10		
	queue_work_on+0xf4/0x100		
	qeth_l2_switchdev_event+0x520/0x738		
	atomic_notifier_call_chain+0x9c/0xf8		
	br_switchdev_fdb_notify+0xf4/0x110		
	fdb_notify+0x122/0x180		
	fdb_add_entry.constprop.0.isra.0+0x312/0x558		
	br_fdb_add+0x59e/0x858		
	rtnl_fdb_add+0x58a/0x928		
	rtnetlink_rcv_msg+0x5f8/0x8d8		
	netlink_rcv_skb+0x1f2/0x408		
	netlink_unicast+0x570/0x790		
	netlink_sendmsg+0x752/0xbe0		
	sock_sendmsg+0xca/0x110		
	sys_sendmsg+0x510/0x6a8		
	do_sys_socketcall+0x3c8/0x468		
	do_syscall+0x22c/0x328		
	do_syscall+0x94/0xf0		
	system_call+0x82/0xb0		
	Second to last potentially related work creation:		
	kasan_save_stack+0x40/0x68		
	kasan_record_aux_stack+0xbe/0xd0		
L L		<u> </u>	I

		Infrage call results /0.700			
		kvfree_call_rcu+0xb2/0x760			
		kernfs_unlink_open_file+0x348/0x430			
		kernfs_fop_release+0xc2/0x320			
		fput+0x1ae/0x768			
		task_work_run+0x1bc/0x298			
		exit_to_user_mode_prepare+0x1a0/0x1a8			
		do_syscall+0x94/0xf0			
		system_call+0x82/0xb0			
		The buggy address belongs to the object at 00000000fdcea400			
		which belongs to the cache kmalloc-96 of size 96			
		The buggy address is located 64 bytes inside of			
		96-byte region [00000000fdcea400,			
		00000000fdcea460)			
		The buggy address belongs to the physical page:			
		page:000000005a9c26e8 refcount:1 mapcount:0			
		mapping:000000000000000000 index:0x0 pfn:0xfdcea			
		flags:			
		0x3ffff00000000200(slab node=0 zone=1 lastcpupid			
		=0x1ffff)			
		raw: 3ffff00000000200 0000000000000000			
		000000100000122 00000000000000000000000			
		raw: 0000000000000000 002000410000000			
		fffffff0000001 000000000000000000000000			
		page dumped because: kasan: bad access detected			
		Memory state around the buggy address:			
		00000000fdcea300: fb			
		fc fc fc			
		00000000fdcea380: fb fb fb fb fb fb f			
		truncated			
CVE-2022-48956 lin	nux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
		been resolved:	2024-10-21	7.0	півії
	ultiple	been resolved.			
pro	oducts	inucleousid use often free in inc. freement()			
		<pre>ipv6: avoid use-after-free in ip6_fragment()</pre>			
		Diamod commit claimod row read lock/) was hold by			
		Blamed commit claimed rcu_read_lock() was held by			
		ip6_fragment() callers.			
		It seems to not be always true, at least for UDP stack.			
		syzbot reported:			
		BUG: KASAN: use-after-free in ip6_dst_idev			
		include/net/ip6_fib.h:245 [inline]			
		BUG: KASAN: use-after-free in			
i I					
		BUG: KASAN: use-after-free in			
		BUG: KASAN: use-after-free in ip6_fragment+0x2724/0x2770 net/ipv6/ip6_output.c:951 Read of size 8 at addr ffff88801d403e80 by task syz-			
		BUG: KASAN: use-after-free in ip6_fragment+0x2724/0x2770 net/ipv6/ip6_output.c:951			
		BUG: KASAN: use-after-free in ip6_fragment+0x2724/0x2770 net/ipv6/ip6_output.c:951 Read of size 8 at addr ffff88801d403e80 by task syz-			

6.1.0 ref autholiar 00012 a1212008haf27 #0	1
6.1.0-rc6-syzkaller-00012-g4312098baf37 #0	
Hardware name: Google Google Compute	
Engine/Google Compute Engine, BIOS Google	
10/26/2022	
Call Trace:	
<task></task>	
dump_stack lib/dump_stack.c:88 [inline]	
dump_stack_lvl+0xd1/0x138 lib/dump_stack.c:106	
print_address_description mm/kasan/report.c:284	
[inline]	
print_report+0x15e/0x45d mm/kasan/report.c:395	
kasan_report+0xbf/0x1f0 mm/kasan/report.c:495	
ip6_dst_idev include/net/ip6_fib.h:245 [inline]	
ip6_fragment+0x2724/0x2770	
net/ipv6/ip6_output.c:951	
ip6_finish_output net/ipv6/ip6_output.c:193	
[inline]	
ip6_finish_output+0x9a3/0x1170	
net/ipv6/ip6_output.c:206	
NF_HOOK_COND include/linux/netfilter.h:291	
[inline]	
ip6_output+0x1f1/0x540 net/ipv6/ip6_output.c:227	
dst_output include/net/dst.h:445 [inline]	
ip6_local_out+0xb3/0x1a0	
net/ipv6/output_core.c:161	
ip6_send_skb+0xbb/0x340	
net/ipv6/ip6_output.c:1966	
udp_v6_send_skb+0x82a/0x18a0	
net/ipv6/udp.c:1286	
udp_v6_push_pending_frames+0x140/0x200	
net/ipv6/udp.c:1313	
udpv6_sendmsg+0x18da/0x2c80	
net/ipv6/udp.c:1606	
inet6_sendmsg+0x9d/0xe0 net/ipv6/af_inet6.c:665	
sock sendmsg nosec net/socket.c:714 [inline]	
sock_sendmsg+0xd3/0x120 net/socket.c:734	
sock_write_iter+0x295/0x3d0 net/socket.c:1108	
call_write_iter include/linux/fs.h:2191 [inline]	
new sync write fs/read write.c:491 [inline]	
vfs write+0x9ed/0xdd0 fs/read write.c:584	
ksys write+0x1ec/0x250 fs/read_write.c:637	
do_syscall_x64 arch/x86/entry/common.c:50 [inline]	
do_syscall_64+0x39/0xb0	
arch/x86/entry/common.c:80	
entry_SYSCALL_64_after_hwframe+0x63/0xcd	
RIP: 0033:0x7fde3588c0d9	
Code: 28 00 00 00 75 05 48 83 c4 28 c3 e8 f1 19 00 00	
90 48 89 f8 48 89 f7 48 89 d6 48 89 ca 4d 89 c2 4d 89	
c8 4c 8b 4c 24 08 0f 05 <48> 3d 01 f0 ff ff 73 01 c3 48	
c7 c1 b8 ff ff ff d8 64 89 01 48	
RSP: 002b:00007fde365b6168 EFLAGS: 00000246	<u> </u>

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	ORIG_RAX: 0000000000000000		
	RAX: ffffffffffffda RBX: 00007fde359ac050 RCX:		
	00007fde3588c0d9		
	RDX: 000000000000ffdc RSI: 0000000200000c0 RDI:		
	00000000000000a		
	RBP: 00007fde358e7ae9 R08: 0000000000000000		
	R09: 00000000000000		
	R10: 00000000000000 R11: 00000000000246		
	R12: 000000000000000		
	R13: 00007fde35acfb1f R14: 00007fde365b6300 R15:		
	00000000022000		
	Allocated by task 7618:		
	kasan_save_stack+0x22/0x40		
	mm/kasan/common.c:45		
	kasan_set_track+0x25/0x30		
	mm/kasan/common.c:52		
	kasan_slab_alloc+0x82/0x90		
	mm/kasan/common.c:325		
	kasan_slab_alloc include/linux/kasan.h:201 [inline]		
	slab_post_alloc_hook mm/slab.h:737 [inline]		
	slab_alloc_node mm/slub.c:3398 [inline]		
	slab_alloc mm/slub.c:3406 [inline]		
	kmem_cache_alloc_lru mm/slub.c:3413 [inline]		
	kmem_cache_alloc+0x2b4/0x3d0 mm/slub.c:3422		
	dst_alloc+0x14a/0x1f0 net/core/dst.c:92		
	ip6_dst_alloc+0x32/0xa0 net/ipv6/route.c:344		
	ip6_rt_pcpu_alloc net/ipv6/route.c:1369 [inline]		
	rt6_make_pcpu_route net/ipv6/route.c:1417 [inline]		
	ip6_pol_route+0x901/0x1190 net/ipv6/route.c:2254		
	pol_lookup_func include/net/ip6_fib.h:582 [inline]		
	fib6_rule_lookup+0x52e/0x6f0		
	net/ipv6/fib6_rules.c:121		
	ip6_route_output_flags_noref+0x2e6/0x380		
	net/ipv6/route.c:2625		
	ip6_route_output_flags+0x76/0x320		
	net/ipv6/route.c:2638		
	ip6_route_output include/net/ip6_route.h:98		
	[inline]		
	ip6_dst_lookup_tail+0x5ab/0x1620		
	net/ipv6/ip6_output.c:1092		
	ip6_dst_lookup_flow+0x90/0x1d0		
	net/ipv6/ip6_output.c:1222		
	ip6_sk_dst_lookup_flow+0x553/0x980		
	net/ipv6/ip6_output.c:1260		
	udpv6_sendmsg+0x151d/0x2c80		
	net/ipv6/udp.c:1554		
	inet6_sendmsg+0x9d/0xe0 net/ipv6/af_inet6.c:665		
	sock_sendmsg_nosec n		
	truncated		
I		1 1	1

CVE-2022-48960	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
<u>CVL-2022-48500</u>	multiple	been resolved:	2024-10-21	7.0	i ligit
	products				
		net: hisilicon: Fix potential use-after-free in			
		hix5hd2_rx()			
		The skb is delivered to napi_gro_receive() which may			
		free it, after			
		calling this, dereferencing skb may trigger use-after-			
		free.			
<u>CVE-2022-48962</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products	net: hisilicon: Fix potential use-after-free in			
		hisi_femac_rx()			
		The skb is delivered to napi_gro_receive() which may			
		free it, after			
		calling this, dereferencing skb may trigger use-after-			
CVE-2022-48964	linux -	free. In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
<u>CVL-2022-40304</u>	multiple	been resolved:	2024-10-21	7.0	i ligit
	products				
	·	ravb: Fix potential use-after-free in ravb_rx_gbeth()			
		The skb is delivered to napi_gro_receive() which may free it, after calling this,			
		dereferencing skb may trigger use-after-free.			
CVE-2022-48980	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			0
	products				
		net: dsa: sja1105: avoid out of bounds access in			
		sja1105_init_l2_policing()			
		The SJA1105 family has 45 L2 policing table entries			
		(SJA1105_MAX_L2_POLICING_COUNT) and SJA1110			
		has 110			
		(SJA1110_MAX_L2_POLICING_COUNT). Keeping the			
		table structure but			
		accounting for the difference in port count (5 in SJA1105 vs 10 in			
		SJA1105 vs 10 m SJA1110) does not fully explain the difference.			
		Rather, the SJA1110 also			
		has L2 ingress policers for multicast traffic. If a packet			
		is classified			
		as multicast, it will be processed by the policer index			
		99 + SRCPORT.			
		The sja1105_init_l2_policing() function initializes all			
		L2 policers such			
		that they don't interfere with normal packet			

reception by default. To have a common code between SLA105 and SLA110, the index of the multicast policer for the port is calculated because it's an index that is out of bounds check is performed. The code fails to do the proper thing when determining what to do with the multicast policer of port 0 on SIA105 (ds- >num_losts = 5). The "mcast" index will be equal to 45, which is also equal to table-opps-max_entry_count (SIA105_MAX_L2_POLICING_COUNT). So it passes through the check. But at the same time, SIA1105 doesn't have multicast policers. So the code programs the SHARINDX field of an out-of-bounds element in the L2 Policing table of the static config. The comparison between index 45 and 45 entries should have determined the code to not access this policer index on SIA1105, since its memory wasn't even allocated. With enough bad luck, the out-of-bounds write could even allocated. With enough bad luck, the out-of-bounds write could even allocated. With enough bad luck/(X2340 write disize at addr fiftfi800b57708 b	[]		1 1	1
index of the multicast policer for the port is calculated because it's an index that is out of bounds for SIA1105 but in bounds for SIA1110, and a bounds check is performed. The code fails to do the proper thing when determining what to do with the multicast policer of port 0 on SIA1105 (ds- >num_ports = 5). The "meast" index will be equip count (SIA1105_MAX_L2_POLICING_COUNT). So it passes through the check. But at the same time, SIA1105 doesn't have multicast policers. So the code programs the SHARINDX field of an out-of-bounds element in the L2 Policing table of the static config. The comparison between index 45 and 45 entries should have determined the code to not access this policer index on SIA1105, since its memory wasn't even allocated. With enough bad luck, the out-of-bounds write could even overwrite other valid kernel data, but in this case, the issue was detected using KASAN. Kernel log: Sig1105_sp15.0: Probed switch chip: SIA1105Q 				
policer for the port is calculated because it's an index that is out of bounds for SIA1105 but in bounds for SIA1110, and a bounds for SIA1105 but in bounds for SIA1110, and a bounds check is performed. The code fails to do the proper thing when determining what to do with the multicast policer of port 0 on SIA1105 (ds- >num_ports = 5). The "incast" index will be equal to 45, which is also equal to table>ops>max_entry_count (SIA1105_MAX_L2_POLICINC_COUNT). So it passes through the check. But at the same time, SIA1105 doesn't have multicast policers. So the code programs the SHARINDX field of an out-of-bounds element in the L2 Policing table of the static config. The comparison between index 45 and 45 entries should have determined the code to not access this policer index on SIA1105, since its memory wasn't even allocated. With enough bad luck, the out-of-bounds write could even overwrite other valid kernel data, but in this case, the issue was detected using KASAN. Kernel log: sja1105_spi5.0: Probed switch chip: SIA1105Q ====================================				
that is out of bounds for SIA1105 but in bounds for SIA1110, and a bounds check is performed. The code fails to do the proper thing when determining what to do with the multicast policer of port 0 on SIA1105 (ds. >num_ports = 5). The "mcast" index will be equal to 45, which is also equal to table->ops->max_entry_count (SIA1105_MAX_L2_POLICING_COUNT). So it passes through the check. But at the same time, SIA1105 doesn't have multicast policers. So the code programs the SHARINDX field of an out-of-bounds element in the L2 Policing table of the static config. The comparison between index 45 and 45 entries should have determined the code to not access this policer index on SIA1105, since its memory wasn't even allocated. With enough bad luck, the out-of-bounds write could even overwrite other valid kernel data, but in this case, the issue was detected using KASAN. Kernel log: sja1105_setup-toxtchc/0x2340 Write of size 8 at adf rffff880bd57708 by task kworker/u8:0/8 """ "" <		index of the multicast		
bounds for SIA1105 but in bounds for SIA1110, and a bounds check is performed. The code fails to do the proper thing when determining what to do with the multicast policer of port 0 on SIA1105 (ds->num_ports = 5). The "morest" index will be equal to 45, which is also equal to table->ops->max_entry_courts (SIA1105, MAX_L2_POLICING_COUNT). So it passes through the check. But at the same time, SIA1105 doesn't have multicast policers. So the code programs the SHARINDX field of an out-of-bounds element in the L2 Policing table of the static config. The comparison between index 45 and 45 entries should have determined the code to not access this policer index on SIA1105, since its memory wasn't even allocated. With enough bad luck, the out-of-bounds write could even overwrite other valid kernel data, but in this case, the issue was detected using KASAN. Kernel log: sja1105 spi5.0: Probed switch chip: SIA1105Q ====================================		policer for the port is calculated because it's an index		
bounds check is performed. The code fails to do the proper thing when determining what to do with the multicast policer of port 0 on SJA1105 (ds- >num_ports = 5). The "meast" index will be equal to 45, which is also equal to table>ops-smax_entry_count (SJA1105_MAX_L2_POLICING_COUNT). So it passes through the check. But at the same time, SJA1105 doesn't have multicast policers. So the code programs the SHARINDX field of an out-of-bounds element in the L2 Policing table of the static config. The comparison between index 45 and 45 entries should have determined the code to not access this policer index on SJA1105, since its memory wasn't even allocated. With enough bad luck, the out-of-bounds write could even overwrite other valid kernel data, but in this case, the issue was detected using KASAN. Kernel log: sja1105_setup-toxt.tbc/Dx2340 Write of size 8 at addr fifff880bd57708 by task kworker/u8:0/8 register_switch+Ox1284/0x18d0 <td></td> <td>that is out of</td> <td></td> <td></td>		that is out of		
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dsa_register_switch+0x1284/0x18d0				
sja1105_probe+0x/48/0x840 				
		sja1105_probe+0x748/0x840		
Allocated by task 8:		Allocated by task 8:		

		 sja1105_setup+0x1bcc/0x2340 dsa_register_switch+0x1284/0x18d0 sja1105_probe+0x748/0x840 			
<u>CVE-2022-48981</u>	linux - multiple products	In the Linux kernel, the following vulnerability has been resolved: drm/shmem-helper: Remove errant put in error path drm_gem_shmem_mmap() doesn't own this reference, resulting in the GEM object getting prematurely freed leading to a later use-after-free.	2024-10-21	7.8	High
<u>CVE-2022-48990</u>	linux - multiple products	In the Linux kernel, the following vulnerability has been resolved: drm/amdgpu: fix use-after-free during gpu recovery [Why] [754.862560] refcount_t: underflow; use-after- free. [754.862898] Call Trace: [754.862903] <task> [754.862913] amdgpu_job_free_cb+0xc2/0xe1 [amdgpu] [754.863543] drm_sched_main.cold+0x34/0x39 [amd_sched] [How] The fw_fence may be not init, check whether dma_fence_init</task>	2024-10-21	7.8	High
CVE-2022-49006	linux - multiple products	is performed before job free In the Linux kernel, the following vulnerability has been resolved: tracing: Free buffers when a used dynamic event is removed After 65536 dynamic events have been added and removed, the "type" field of the event then uses the first type number that is available (not currently used by other events). A type number is the identifier of the binary blobs in the tracing ring buffer (known as events) to map them to logic that can parse the binary blob. The issue is that if a dynamic event (like a kprobe event) is traced and	2024-10-21	7.8	High

j		1	ı
	is in the ring buffer, and then that event is removed		
	(because it is		
	dynamic, which means it can be created and		
	destroyed), if another dynamic		
	event is created that has the same number that new		
	event's logic on		
	parsing the binary blob will be used.		
	To show how this can be an issue, the following can		
	crash the kernel:		
	# cd /sys/kernel/tracing		
	# for i in `seq 65536`; do		
	echo 'p:kprobes/foo do_sys_openat2 \$arg1:u32' >		
	kprobe_events		
	# done		
	For every iteration of the above, the writing to the		
	kprobe_events will		
	remove the old event and create a new one (with the		
	same format) and		
	increase the type number to the next available on		
	until the type number		
	reaches over 65535 which is the max number for the		
	16 bit type. After it		
	reaches that number, the logic to allocate a new		
	number simply looks for		
	the next available number. When an dynamic event is removed, that number		
	is then available to be reused by the next dynamic		
	event created. That is,		
	once the above reaches the max number, the number		
	assigned to the event in		
	that loop will remain the same.		
	Now that means deleting one dynamic event and		
	created another will reuse		
	the previous events type number. This is where bad		
	things can happen.		
	After the above loop finishes, the kprobes/foo event		
	which reads the		
	do_sys_openat2 function call's first parameter as an		
	integer.		
	# echo 1 > kprobes/foo/enable		
	# cat /etc/passwd > /dev/null		
	# cat trace		
	cat-2211 [005] 2007.849603: foo:		
	(do_sys_openat2+0x0/0x130) arg1=4294967196		
	cat-2211 [005] 2007.849620: foo:		
	(do_sys_openat2+0x0/0x130) arg1=4294967196		

	1	1	1		
		cat-2211 [005] 2007.849838: foo:			
		(do_sys_openat2+0x0/0x130) arg1=4294967196			
		cat-2211 [005] 2007.849880: foo:			
		(do_sys_openat2+0x0/0x130) arg1=4294967196			
		# echo 0 > kprobes/foo/enable			
		Now if we delete the kprobe and create a new one			
		that reads a string:			
		# echo 'p:kprobes/foo do_sys_openat2			
		+0(\$arg2):string' > kprobe_events			
		And now we can the trace:			
		# cat trace			
		sendmail-1942 [002] 530.136320: foo:			
		(do_sys_openat2+0x0/0x240) arg1= cat-2046			
		[004] 530.930817: foo:			
		(do_sys_openat2+0x0/0x240)			
		arg1=" 00000000000000000000			
		000000000000000000000000000000000000000			
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
		cat-2046 [004] 530.930961: foo:			
		(do_sys_openat2+0x0/0x240)			
		00000000000000000000000000000000000000			
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
		00000000000"			
		cat-2046 [004] 530.934278: foo:			
		(do_sys_openat2+0x0/0x240)			
		\			
		cat-2046 [004] 530.934563: foo:			
		(do sys openat2+0x0/0x240)			
		•••truncated			
CVE 2022 4001 4	linux		2024-10-21	7.8	Lliah
<u>CVE-2022-49014</u>	linux -	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	ŏ. /	High
	multiple				
	products	nati tuni Eix usa oftar frag in tuni datach()			
		net: tun: Fix use-after-free in tun_detach()			
		syzbot reported use-after-free in tun_detach() [1].			
		This causes call			
		trace like below:			
		נומנכ ווגב שבוטש.			

BUG: KASAN: use-after-free in	
notifier_call_chain+0x1ee/0x200 kernel/notifier.c:75	
Read of size 8 at addr ffff88807324e2a8 by task syz-	
executor.0/3673	
CPUL O PID: 2072 Communication over successfor O Net to interd	
CPU: 0 PID: 3673 Comm: syz-executor.0 Not tainted	
6.1.0-rc5-syzkaller-00044-gcc675d22e422 #0	
Hardware name: Google Google Compute	
Engine/Google Compute Engine, BIOS Google 10/26/2022	
Call Trace:	
<task></task>	
dump_stack lib/dump_stack.c:88 [inline] dump_stack_lvl+0xd1/0x138 lib/dump_stack.c:106	
print_address_description mm/kasan/report.c:284	
[inline]	
print_report+0x15e/0x461 mm/kasan/report.c:395	
kasan_report+0xbf/0x1f0 mm/kasan/report.c:395	
notifier call chain+0x1ee/0x200 kernel/notifier.c:75	
call_netdevice_notifiers_info+0x86/0x130	
net/core/dev.c:1942	
call_netdevice_notifiers_extack net/core/dev.c:1983	
[inline]	
call_netdevice_notifiers net/core/dev.c:1997 [inline]	
netdev_wait_allrefs_any net/core/dev.c:10237	
[inline]	
netdev_run_todo+0xbc6/0x1100	
net/core/dev.c:10351	
tun_detach drivers/net/tun.c:704 [inline]	
tun_chr_close+0xe4/0x190 drivers/net/tun.c:3467	
fput+0x27c/0xa90 fs/file table.c:320	
task_work_run+0x16f/0x270 kernel/task_work.c:179	
exit_task_work include/linux/task_work.h:38 [inline]	
do_exit+0xb3d/0x2a30 kernel/exit.c:820	
do_group_exit+0xd4/0x2a0 kernel/exit.c:950	
get_signal+0x21b1/0x2440 kernel/signal.c:2858	
arch_do_signal_or_restart+0x86/0x2300	
arch/x86/kernel/signal.c:869	
exit_to_user_mode_loop	
kernel/entry/common.c:168 [inline]	
exit_to_user_mode_prepare+0x15f/0x250	
kernel/entry/common.c:203	
syscall_exit_to_user_mode_work	
kernel/entry/common.c:285 [inline]	
syscall_exit_to_user_mode+0x1d/0x50	
kernel/entry/common.c:296	
do_syscall_64+0x46/0xb0	
arch/x86/entry/common.c:86	
entry_SYSCALL_64_after_hwframe+0x63/0xcd	

I					
		The cause of the issue is that sock_put() from			
		tun_detach() drops			
		last reference count for struct net, and then			
		notifier_call_chain()			
		from netdev_state_change() accesses that struct net.			
		This patch fives the issue by calling cody put() from			
		This patch fixes the issue by calling sock_put() from tun_detach()			
		after all necessary accesses for the struct net has			
		done.			
CVE-2022-49015	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			-
	products				
		net: hsr: Fix potential use-after-free			
		The skb is delivered to netif_rx() which may free it,			
		after calling this,			
		dereferencing skb may trigger use-after-free.			
CVE-2022-49017	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
0.1 2022 45017	multiple	been resolved:	20211021	,.0	
	products				
	p. 0 0 0 0 0 0	tipc: re-fetch skb cb after tipc_msg_validate			
		As the call trace shows, the original skb was freed in			
		tipc_msg_validate(),			
		and dereferencing the old skb cb would cause an use-			
		after-free crash.			
		BUG: KASAN: use-after-free in			
		tipc_crypto_rcv_complete+0x1835/0x2240 [tipc]			
		Call Trace:			
		<irq></irq>			
		tipc_crypto_rcv_complete+0x1835/0x2240 [tipc]			
		tipc_crypto_rcv+0xd32/0x1ec0 [tipc]			
		tipc_rcv+0x744/0x1150 [tipc]			
		Allocated by task 47078:			
		kmem_cache_alloc_node+0x158/0x4d0			
		alloc_skb+0x1c1/0x270			
		tipc_buf_acquire+0x1e/0xe0 [tipc]			
		tipc_msg_create+0x33/0x1c0 [tipc]			
		tipc_link_build_proto_msg+0x38a/0x2100 [tipc]			
		tipc_link_timeout+0x8b8/0xef0 [tipc]			
		tipc_link_timeout+0x8b8/0xef0 [tipc] tipc_node_timeout+0x2a1/0x960 [tipc]			
		tipc_link_timeout+0x8b8/0xef0 [tipc]			
		tipc_link_timeout+0x8b8/0xef0 [tipc] tipc_node_timeout+0x2a1/0x960 [tipc] call_timer_fn+0x2d/0x1c0 			
		tipc_link_timeout+0x8b8/0xef0 [tipc] tipc_node_timeout+0x2a1/0x960 [tipc] call_timer_fn+0x2d/0x1c0 Freed by task 47078:			
		tipc_link_timeout+0x8b8/0xef0 [tipc] tipc_node_timeout+0x2a1/0x960 [tipc] call_timer_fn+0x2d/0x1c0 			

		tipc_rcv+0x744/0x1150 [tipc]			
		This patch fixes it by re-fetching the skb cb from the			
		new allocated skb			
		after calling tipc_msg_validate().			
CVE-2022-49022	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products				
		wifi: mac8021: fix possible oob access in			
		ieee80211_get_rate_duration			
		Fix possible out-of-bound access in			
		ieee80211_get_rate_duration routine			
		as reported by the following UBSAN report:			
		UBSAN: array-index-out-of-bounds in			
		net/mac80211/airtime.c:455:47			
		index 15 is out of range for type 'u16 [12]'			
		CPU: 2 PID: 217 Comm: kworker/u32:10 Not tainted			
		6.1.0-060100rc3-generic			
		Hardware name: Acer Aspire TC-281/Aspire TC-281,			
		BIOS R01-A2 07/18/2017			
		Workqueue: mt76 mt76u_tx_status_data [mt76_usb]			
		Call Trace: <task></task>			
		show_stack+0x4e/0x61			
		dump_stack_lvl+0x4a/0x6f			
		dump_stack+0x10/0x18			
		ubsan_epilogue+0x9/0x43			
		ubsan_handle_out_of_bounds.cold+0x42/0x47			
		ieee80211_get_rate_duration.constprop.0+0x22f/0x			
		2a0 [mac80211]			
		? ieee80211_tx_status_ext+0x32e/0x640			
		[mac80211]			
		ieee80211_calc_rx_airtime+0xda/0x120 [mac80211]			
		ieee80211_calc_tx_airtime+0xb4/0x100 [mac80211]			
		mt76x02_send_tx_status+0x266/0x480			
		[mt76x02_lib]			
		mt76x02_tx_status_data+0x52/0x80 [mt76x02_lib] mt76u tx status data+0x67/0xd0 [mt76 usb]			
		process one work+0x225/0x400			
		worker_thread+0x50/0x3e0			
		? process_one_work+0x400/0x400			
		kthread+0xe9/0x110			
		? kthread_complete_and_exit+0x20/0x20			
		ret_from_fork+0x22/0x30			
CVE-2022-49023	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products				
		wifi: cfg80211: fix buffer overflow in elem			
		comparison			

		For vendor elements, the code here assumes that 5			
		octets			
		are present without checking. Since the element itself			
		is			
		already checked to fit, we only need to check the length.			
CVE-2022-49025	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
<u>CVL 2022 15025</u>	multiple	been resolved:	20211021	7.0	
	, products				
		net/mlx5e: Fix use-after-free when reverting			
		termination table			
		When having multiple dests with termination tables			
		and second one			
		or afterwards fails the driver reverts usage of term			
		tables but			
		doesn't reset the assignment in attr-			
		>dests[num_vport_dests].termtbl which case a use-after-free when releasing the rule.			
		Fix by resetting the assignment of termtbl to null.			
CVE-2022-49026	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			_
	products				
		e100: Fix possible use after free in			
		e100_xmit_prepare			
		In e100_xmit_prepare(), if we can't map the skb, then			
		return -ENOMEM, so			
		e100_xmit_frame() will return NETDEV_TX_BUSY and			
		the upper layer will			
		resend the skb. But the skb is already freed, which			
		will cause UAF bug			
		when the upper layer resends the skb.			
		Remove the harmful free.			
<u>CVE-2022-49029</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			-
	products				
		hwmon: (ibmpex) Fix possible UAF when			
		ibmpex_register_bmc() fails			
		Smatch report warning as follows:			
		drivers/hwmon/ibmpex.c:509 ibmpex_register_bmc()			
		warn:			
		'&data->list' not removed from list			
		If ibmpex_find_sensors() fails in			
		ibmpex_register_bmc(), data will			
		be freed, but data->list will not be removed from			

		driver_data.bmc_data,			
		then list traversal may cause UAF.			
		then list traversar may cause OAF.			
		Eiv by removeing it from driver, data hmc, data			
		Fix by removeing it from driver_data.bmc_data			
CV/F 2022 40020		before free().	2024 10 21	7.0	11:-1-
<u>CVE-2022-49030</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products				
		libbpf: Handle size overflow for ringbuf mmap			
		The maximum size of ringbuf is 2GB on x86-64 host,			
		so 2 * max_entries			
		will overflow u32 when mapping producer page and			
		data pages. Only			
		casting max_entries to size_t is not enough, because			
		for 32-bits			
		application on 64-bits kernel the size of read-only			
		mmap region			
		also could overflow size_t.			
		So fixing it by casting the size of read-only mmap			
		region into au64			
		and checking whether or not there will be overflow			
		during mmap.			
CVE-2024-50029	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			0
	products				
	•	Bluetooth: hci_conn: Fix UAF in			
		hci_enhanced_setup_sync			
		'_'			
		This checks if the ACL connection remains valid as it			
		could be destroyed			
		while hci_enhanced_setup_sync is pending on			
		cmd_sync leading to the			
		following trace:			
		BUG: KASAN: slab-use-after-free in			
		hci_enhanced_setup_sync+0x91b/0xa60			
		Read of size 1 at addr ffff888002328ffd by task			
		kworker/u5:2/37			
		CPU: 0 UID: 0 PID: 37 Comm: kworker/u5:2 Not			
		tainted 6.11.0-rc6-01300-g810be445d8d6 #7099			
		Hardware name: QEMU Standard PC (Q35 + ICH9,			
		2009), BIOS 1.16.3-2.fc40 04/01/2014			
		Workqueue: hci0 hci_cmd_sync_work			
		Call Trace:			
		<task></task>			
		dump_stack_lvl+0x5d/0x80			
		? hci_enhanced_setup_sync+0x91b/0xa60			
		print_report+0x152/0x4c0			

l,	2 hai an han and active arma (0, 0.1 h/0, ac 0.	
	? hci_enhanced_setup_sync+0x91b/0xa60	
	?virt_addr_valid+0x1fa/0x420	
	? hci_enhanced_setup_sync+0x91b/0xa60	
	kasan_report+0xda/0x1b0	
	? hci_enhanced_setup_sync+0x91b/0xa60	
	hci_enhanced_setup_sync+0x91b/0xa60	
	?pfx_hci_enhanced_setup_sync+0x10/0x10	
	?pfxmutex_lock+0x10/0x10	
	hci_cmd_sync_work+0x1c2/0x330	
	process_one_work+0x7d9/0x1360	
	?pfx_lock_acquire+0x10/0x10	
	?pfx_process_one_work+0x10/0x10	
	? assign_work+0x167/0x240	
	worker_thread+0x5b7/0xf60	
	?kthread_parkme+0xac/0x1c0	
	?pfx_worker_thread+0x10/0x10	
	?pfx_worker_thread+0x10/0x10	
	kthread+0x293/0x360	
	?pfx_kthread+0x10/0x10	
	ret_from_fork+0x2f/0x70	
	?pfx_kthread+0x10/0x10	
	ret_from_fork_asm+0x1a/0x30	
	Allocated by task 34:	
	kasan_save_stack+0x30/0x50	
	kasan_save_track+0x14/0x30	
	kasan_kmalloc+0x8f/0xa0	
	hci_conn_add+0x187/0x17d0	
	hci_connect_sco+0x2e1/0xb90	
	sco_sock_connect+0x2a2/0xb80	
	sys_connect+0x227/0x2a0	
	x64_sys_connect+0x6d/0xb0	
	do_syscall_64+0x71/0x140	
	entry_SYSCALL_64_after_hwframe+0x76/0x7e	
	Freed by task 37:	
	kasan_save_stack+0x30/0x50	
	kasan_save_track+0x14/0x30	
	kasan_save_free_info+0x3b/0x60	
	kasan_slab_free+0x101/0x160	
	kfree+0xd0/0x250	
	device_release+0x9a/0x210	
	kobject_put+0x151/0x280	
	hci_conn_del+0x448/0xbf0	
	hci_abort_conn_sync+0x46f/0x980	
	hci_cmd_sync_work+0x1c2/0x330	
	process_one_work+0x7d9/0x1360	
	worker_thread+0x5b7/0xf60	
	kthread+0x293/0x360	

		ret_from_fork+0x2f/0x70			
		ret_from_fork_asm+0x1a/0x30			
CVE-2024-50030	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:		-	0
	products				
		drm/xe/ct: prevent UAF in send_recv()			
		Ensure we serialize with completion side to prevent			
		UAF with fence going			
		out of scope on the stack, since we have no clue if it			
		will fire after			
		the timeout before we can erase from the xa. Also we			
		have some dependent			
		loads and stores for which we need the correct			
		ordering, and we lack the			
		needed barriers. Fix this by grabbing the ct->lock			
		after the wait, which			
		is also held by the completion side.			
		v2 (Badal):			
		- Also print done after acquiring the lock and seeing			
		timeout.			
		(cherry picked from commit			
		52789ce35c55ccd30c4b67b9cc5b2af55e0122ea)			
<u>CVE-2024-50043</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products	nfed: fix possible badness in EREE STATEID			
		nfsd: fix possible badness in FREE_STATEID			
		When multiple FREE_STATEIDs are sent for the same			
		delegation stateid,			
		it can lead to a possible either use-after-free or			
		counter refcount			
		underflow errors.			
		In nfsd4_free_stateid() under the client lock we find a			
		delegation			
		stateid, however the code drops the lock before			
		calling nfs4_put_stid(),			
		that allows another FREE_STATE to find the stateid			
		again. The first one			
		will proceed to then free the stateid which leads to			
		either			
		use-after-free or decrementing already zeroed			
		counter.			
CVE-2024-50047	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
	multiple	been resolved:			
	products				
		smb: client: fix UAF in async decryption			

ГТ		1	
	Doing an async decryption (large read) crashes with a		
	slab-use-after-free way down in the crypto API.		
	Reproducer:		
	# mount.cifs -o,seal,esize=1 //srv/share /mnt		
	# dd if=/mnt/largefile of=/dev/null		
	[194.196391]		
	[194.196844] BUG: KASAN: slab-use-after-free in		
	gf128mul_4k_lle+0xc1/0x110		
	[194.197269] Read of size 8 at addr		
	ffff888112bd0448 by task kworker/u77:2/899		
	[194.197707]		
	[194.197818] CPU: 12 UID: 0 PID: 899 Comm:		
	kworker/u77:2 Not tainted 6.11.0-lku-00028-		
	gfca3ca14a17a-dirty #43		
	[194.198400] Hardware name: QEMU Standard PC		
	(Q35 + ICH9, 2009), BIOS rel-1.16.2-3-gd478f380-		
	prebuilt.gemu.org 04/01/2014		
	[194.199046] Workqueue: smb3decryptd		
	smb2_decrypt_offload [cifs]		
	[194.200032] Call Trace:		
	[194.200191] <task></task>		
	[194.200327] dump_stack_lvl+0x4e/0x70		
	[194.200558] ? gf128mul_4k_lle+0xc1/0x110		
	[194.200809] print_report+0x174/0x505		
	[194.201040] ?		
	pfxraw_spin_lock_irqsave+0x10/0x10		
	[194.201352] ? srso_return_thunk+0x5/0x5f		
	[194.201604] ?virt_addr_valid+0xdf/0x1c0		
	[194.201868] ? gf128mul_4k_lle+0xc1/0x110		
	[194.202128] kasan_report+0xc8/0x150		
	<pre>[194.202361] ? gf128mul_4k_lle+0xc1/0x110</pre>		
	[194.202616] gf128mul_4k_lle+0xc1/0x110		
	[194.202863] ghash_update+0x184/0x210		
	[194.203103] shash_ahash_update+0x184/0x2a0		
	[194.203377] ?		
	pfx_shash_ahash_update+0x10/0x10		
	[194.203651] ? srso_return_thunk+0x5/0x5f		
	[194.203877] ?		
	crypto_gcm_init_common+0x1ba/0x340		
	[194.204142]		
	gcm_hash_assoc_remain_continue+0x10a/0x140		
	[194.204434] crypt_message+0xec1/0x10a0 [cifs]		
	[194.206489] ?pfx_crypt_message+0x10/0x10		
	[cifs]		
	[194.208507] ? srso_return_thunk+0x5/0x5f		
	[194.209205] ? srso_return_thunk+0x5/0x5f		
	[194.209925] ? srso_return_thunk+0x5/0x5f		
	[194.210443] ? srso_return_thunk+0x5/0x5f		
	[134.210445] ! 5150_1010111_11011K+0X5/0X51		l

		<u>.</u>			
		[194.211037] decrypt_raw_data+0x15f/0x250			
		[cifs]			
		[194.212906] ?			
		pfx_decrypt_raw_data+0x10/0x10 [cifs]			
		[194.214670] ? srso_return_thunk+0x5/0x5f			
		[194.215193]			
		smb2_decrypt_offload+0x12a/0x6c0 [cifs]			
		This is because TFM is being used in parallel.			
		Fix this by allocating a new AEAD TFM for async			
		decryption, but keep			
		the existing one for synchronous READ cases (similar			
		to what is done			
		in smb3_calc_signature()).			
		Also remove the calls to aead_request_set_callback() and			
		crypto_wait_req() since it's always going to be a			
CVE-2024-50055	linux -	synchronous operation. In the Linux kernel, the following vulnerability has	2024-10-21	7.8	High
<u>CVE-2024-30033</u>	multiple	been resolved:	2024-10-21	7.0	півн
		been resolved.			
	products	driver core bus Fix double free in driver AD			
		driver core: bus: Fix double free in driver API			
		bus_register()			
		For bus_register(), any error which happens after			
		kset_register() will			
		cause that @priv are freed twice, fixed by setting @priv with NULL after			
		the first free.			
CVE-2024-9050	red hat -	A flaw was found in the libreswan client plugin for	2024-10-22	7.8	High
<u>CVE-2024-9030</u>	multiple	NetworkManager (NetkworkManager-libreswan),	2024-10-22	7.0	Fight
	products	where it fails to properly sanitize the VPN			
	products				
		configuration from the local unprivileged user. In this			
		configuration, composed by a key-value format, the			
		plugin fails to escape special characters, leading the			
		application to interpret values as keys. One of the			
		most critical parameters that could be abused by a			
		malicious user is the `leftupdown`key. This key takes			
		an executable command as a value and is used to			
		specify what executes as a callback in			
		NetworkManager-libreswan to retrieve configuration			
		settings back to NetworkManager. As			
		NetworkManager uses Polkit to allow an unprivileged			
		user to control the system's network configuration, a			
		malicious actor could achieve local privilege			
		escalation and potential code execution as root in the			
		targeted machine by creating a malicious			
		configuration.			

CVE-2024-45334	trendmicr	Trend Micro Antivirus One versions 3.10.4 and below	2024-10-22	7.8	High
	O -	(Consumer) is vulnerable to an Arbitrary			
	antivirus_	Configuration Update that could allow unauthorized			
	one	access to product configurations and functions.			
CVE-2024-47012	google -	In mm_GetMobileIdIndexForNsUpdate of	2024-10-25	7.8	High
	android	mm_GmmPduCodec.c, there is a possible out of			
		bounds write due to an incorrect bounds check. This			
		could lead to local escalation of privilege with no			
		additional execution privileges needed. User			
		interaction is not needed for exploitation.			
CVE-2024-47013	google -	In pmucal_rae_handle_seq_int of flexpmu_cal_rae.c,	2024-10-25	7.8	High
	Android	there is a possible arbitrary write due to uninitialized			C
		data. This could lead to local escalation of privilege			
		with no additional execution privileges needed. User			
		interaction is not needed for exploitation.			
CVE-2024-47016	google -	there is a possible privilege escalation due to an	2024-10-25	7.8	High
	Android	insecure default value. This could lead to local		,	
	, and old	escalation of privilege with no additional execution			
		privileges needed. User interaction is not needed for			
		exploitation.			
CVE-2024-47017	google -	In ufshc_scsi_cmd of ufs.c, there is a possible stack	2024-10-25	7.8	High
<u>CVL 2024 47017</u>	android	variable use after free due to a use after free. This	2024 10 25	7.0	i ngri
	android	could lead to local escalation of privilege with no			
		additional execution privileges needed. User			
		interaction is not needed for exploitation.			
CVE-2024-47024	google -	In vring_size of	2024-10-25	7.8	High
<u>CVE-2024-47024</u>	android	external/headers/include/virtio/virtio_ring.h, there is	2024-10-23	7.0	піgн
	anuroiu	a possible out of bounds write due to an integer			
		overflow. This could lead to local escalation of			
		privilege with no additional execution privileges			
		needed. User interaction is not needed for			
01/5 2024 47027		exploitation.	2024 40 25	7.0	112.1
<u>CVE-2024-47027</u>	google -	In sm_mem_compat_get_vmm_obj of	2024-10-25	7.8	High
	android	lib/sm/shared_mem.c, there is a possible arbitrary			
		physical memory access due to improper input			
		validation. This could lead to local escalation of			
		privilege with no additional execution privileges			
		needed. User interaction is not needed for			
		exploitation.			
CVE-2024-47033	google -	In lwis_allocator_free of lwis_allocator.c, there is a	2024-10-25	7.8	High
	android	possible memory corruption due to a use after free.			
		This could lead to local escalation of privilege with no			
		additional execution privileges needed. User			
		interaction is not needed for exploitation.			
CVE-2024-47035	google -	In vring_init of	2024-10-25	7.8	High
	android	external/headers/include/virtio/virtio_ring.h, there is			
		a possible out of bounds write due to a logic error in			
		the code. This could lead to local escalation of			
		privilege with no additional execution privileges			
		needed. User interaction is not needed for			
		exploitation.			

<u>CVE-2024-47041</u>	google -	In valid_address of syscall.c, there is a possible out of bounds read due to an incorrect bounds check. This	2024-10-25	7.8	High
	android	could lead to local escalation of privilege with no			
		additional execution privileges needed. User			
		interaction is not needed for exploitation.			
CVE-2024-20268	cisco -	A vulnerability in the Simple Network Management	2024-10-23	7.7	High
<u>CVL 2024 20200</u>	multiple	Protocol (SNMP) feature of Cisco Adaptive Security	2024 10 25	,.,	I IIGI I
	products	Appliance (ASA) Software and Cisco Firepower Threat			
	products	Defense (FTD) Software could allow an authenticated,			
		remote attacker to cause an unexpected reload of			
		the device.			
		This vulnerability is due to insufficient input			
		validation of SNMP packets. An attacker could exploit			
		this vulnerability by sending a crafted SNMP request			
		to an affected device using IPv4 or IPv6. A successful			
		exploit could allow the attacker to cause the affected			
		device to reload, resulting in a denial of service (DoS)			
		condition. This vulnerability affects all versions of			
		SNMP (versions 1, 2c, and 3) and requires a valid SNMP community string or valid SNMPv3 user			
		credentials.			
CVE-2024-20408	cisco -	A vulnerability in the Dynamic Access Policies (DAP)	2024-10-23	7.7	High
	multiple	feature of Cisco Adaptive Security Appliance (ASA)			
	products	Software and Cisco Firepower Threat Defense (FTD)			
		Software could allow an authenticated, remote			
		attacker to cause an affected device to reload			
		unexpectedly. To exploit this vulnerability, an			
		attacker would need valid remote access VPN user			
		credentials on the affected device.			
		The second se			
		This vulnerability is due to improper validation of			
		data in HTTPS POST requests. An attacker could			
		exploit this vulnerability by sending a crafted HTTPS POST request to an affected device. A successful			
		exploit could allow the attacker to cause the device			
		to reload, resulting in a denial of service (DoS)			
		condition.			
CVE-2024-49997	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.5	High
	multiple	been resolved:			J
	products				
		net: ethernet: lantiq_etop: fix memory disclosure			
		When applying padding, the buffer is not zeroed,			
		which results in memory			
		disclosure. The mentioned data is observed on the			
		wire. This patch uses			
		skb_put_padto() to pad Ethernet frames properly.			

		The mentioned function]
		zeroes the expanded buffer.			
		In case the packet cannot be padded it is silently			
		dropped. Statistics			
		are also not incremented. This driver does not			
		support statistics in the			
		old 32-bit format or the new 64-bit format. These will			
		be added in the			
		future. In its current form, the patch should be easily			
		backported to			
		stable versions.			
		Ethernet MACs on Amazon-SE and Danube cannot do			
		padding of the packets			
		in hardware, so software padding must be applied.			
CVE-2024-44100	google -	Android before 2024-10-05 on Google Pixel devices	2024-10-25	7.5	High
<u>CVL 2024-44100</u>	android	allows information disclosure in the modem	2024-10-23	د.،	111811
		component, A-299774545.			
CVE-2024-44101	google -	there is a possible Null Pointer Dereference (modem	2024-10-25	7.5	High
	android	crash) due to improper input validation. This could	20211025	7.5	
		lead to remote denial of service with no additional			
		execution privileges needed. User interaction is not			
		needed for exploitation.			
CVE-2024-47020	google -	Android before 2024-10-05 on Google Pixel devices	2024-10-25	7.5	High
012 202 1 17 020	android	allows information disclosure in the ABL component,	20212025	,	
		A-331966488.			
CVE-2024-47021	google -	In sms_ExtractCbLanguage of sms_CellBroadcast.c,	2024-10-25	7.5	High
	android	there is a possible out of bounds read due to a			U
		missing bounds check. This could lead to remote			
		information disclosure with no additional execution			
		privileges needed. User interaction is not needed for			
		exploitation.			
CVE-2024-47022	google -	Android before 2024-10-05 on Google Pixel devices	2024-10-25	7.5	High
	android	allows information disclosure in the ACPM			-
		component, A-331255656.			
CVE-2024-44098	google -	In lwis_device_event_states_clear_locked of	2024-10-25	7.4	High
	Android	lwis_event.c, there is a possible privilege escalation			
		due to a double free. This could lead to local			
		escalation of privilege with no additional execution			
		privileges needed. User interaction is not needed for			
		exploitation.			
CVE-2024-47031	google -	Android before 2024-10-05 on Google Pixel devices	2024-10-25	7.4	High
	Android	allows privilege escalation in the ABL component, A-			
		329163861.			
<u>CVE-2024-10234</u>	redhat -	A vulnerability was found in Wildfly, where a user	2024-10-22	7.3	High
	multiple	may perform Cross-site scripting in the Wildfly			
	products	deployment system. This flaw allows an attacker or			
		insider to execute a deployment with a malicious			
		payload, which could trigger undesired behavior			
		against the server.			

015 2024 20157	insit of	A uulaanahilitu in the Cuite Analientiene Comiese	2024 10 21	7 2	Lliah
CVE-2024-30157	mitel -	A vulnerability in the Suite Applications Services	2024-10-21	7.2	High
	micollab	component of Mitel MiCollab through 9.7.1.110 could allow an authenticated attacker with administrative			
		privileges to conduct a SQL Injection attack due to			
		insufficient validation of user input. A successful			
		exploit could allow an attacker to execute arbitrary			
		database and management operations.			
CVE-2024-30158	mitel -	A vulnerability in the web conferencing component of	2024-10-21	7.2	High
<u>CVL 2024 30130</u>	micollab	Mitel MiCollab through 9.7.1.110 could allow an	2024 10 21	7.2	i iigii
	meenab	authenticated attacker with administrative privileges			
		to conduct a SQL Injection attack due to insufficient			
		validation of user input. A successful exploit could			
		allow an attacker to execute arbitrary database and			
		management operations.			
CVE-2024-47686	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.1	High
	multiple	been resolved:			U
	products				
		ep93xx: clock: Fix off by one in			
		ep93xx_div_recalc_rate()			
		The psc->div[] array has psc->num_div elements.			
		These values come from			
		when we call clk_hw_register_div(). It's adc_divisors			
		and			
		ARRAY_SIZE(adc_divisors)) and so on. So this			
		condition needs to be >=			
		instead of > to prevent an out of bounds read.			
<u>CVE-2024-47721</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.1	High
	multiple	been resolved:			
	products	Sector 20 company of C211 count ID			
		wifi: rtw89: remove unused C2H event ID			
		RTW89_MAC_C2H_FUNC_READ_WOW_CAM to			
		prevent out-of-bounds reading			
		The handler of firmware C2H event			
		RTW89_MAC_C2H_FUNC_READ_WOW_CAM isn't			
		implemented, but driver expects number of handlers			
		is			
		NUM_OF_RTW89_MAC_C2H_FUNC_WOW causing			
		out-of-bounds access. Fix it by			
		removing ID.			
		Addresses-Coverity-ID: 1598775 ("Out-of-bounds			
		read")			
CVE-2024-47723	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.1	High
	multiple	been resolved:			-
	products				
		jfs: fix out-of-bounds in dbNextAG() and diAlloc()			
		In dbNextAG() , there is no check for the case where			
		bmp->db_numag is			

	1				1
		greater or same than MAXAG due to a polluted			
		image, which causes an			
		out-of-bounds. Therefore, a bounds check should be			
		added in dbMount().			
		And in dbNovtAC(), a check for the case where correct			
		And in dbNextAG(), a check for the case where agpref			
		is greater than			
		bmp->db_numag should be added, so an out-of-			
		bounds exception should be			
		prevented.			
		Additionally, a check for the case where agno is			
		greater or same than			
		MAXAG should be added in diAlloc() to prevent out-			
		of-bounds.			
CVE-2024-47757	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.1	High
<u>CVL 2024 47757</u>	multiple	been resolved:	2024 10 21	7.1	ingn
	products				
	produces	nilfs2: fix potential oob read in			
		nilfs_btree_check_delete()			
		The function nilfs_btree_check_delete(), which			
		checks whether degeneration			
		to direct mapping occurs before deleting a b-tree			
		entry, causes memory			
		access outside the block buffer when retrieving the			
		maximum key if the			
		root node has no entries.			
		This does not usually happen because b-tree			
		mappings with 0 child nodes			
		are never created by mkfs.nilfs2 or nilfs2 itself.			
		However, it can happen			
		if the b-tree root node read from a device is			
		configured that way, so fix			
		this potential issue by adding a check for that case.			
CVE-2024-49860	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.1	High
	multiple	been resolved:			
	products				
		ACPI: sysfs: validate return type of _STR method			
		Only buffer objects are valid return values of _STR.			
		If something else is returned description_show() will			
		access invalid			
	linuur	memory.	2024 10 24	7 1	Llich
<u>CVE-2024-49861</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.1	High
	multiple	been resolved:			
	products	hof: Fix helper writes to read only mans			
		bpf: Fix helper writes to read-only maps			

		Lonial found an issue that despite user- and BPF-side frozen BPF map (like in case of .rodata), it was still possible to write			
		into it from a BPF program side through specific helpers having ARG_PTR_TO_{LONG,INT} as arguments.			
		In check_func_arg() when the argument is as mentioned, the meta->raw_mode is never set. Later, check_helper_mem_access(), under the case of PTR_TO_MAP_VALUE as register base type, it assumes BPF_READ for the subsequent call to check_map_access_type() and given the BPF map is read-only it succeeds.			
		The helpers really need to be annotated as ARG_PTR_TO_{LONG,INT} MEM_UNINIT when results are written into them as opposed to read out of them. The latter indicates that it's okay to pass a pointer to uninitialized memory as the memory is written to anyway.			
		However, ARG_PTR_TO_{LONG,INT} is a special case of ARG_PTR_TO_FIXED_SIZE_MEM just with additional alignment requirement. So it is better to just get rid of the ARG_PTR_TO_{LONG,INT} special cases altogether and reuse the			
		fixed size memory types. For this, add MEM_ALIGNED to additionally ensure alignment given these helpers write directly into the args via * <ptr> = val. The .arg*_size has been initialized reflecting the actual sizeof(*<ptr>).</ptr></ptr>			
		MEM_ALIGNED can only be used in combination with MEM_FIXED_SIZE annotated argument types, since in !MEM_FIXED_SIZE cases the verifier does not know the buffer size a priori and therefore cannot blindly write * <ptr> = val.</ptr>			
<u>CVE-2024-49862</u>	linux - multiple products	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	7.1	High
		powercap: intel_rapl: Fix off by one in get_rpi() The rp->priv->rpi array is either rpi_msr or rpi_tpmi			

		which have			
		NR_RAPL_PRIMITIVES number of elements. Thus the			
		> needs to be >=			
		to prevent an off by one access.			
<u>CVE-2024-49900</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.1	High
	multiple	been resolved:			
	products				
		jfs: Fix uninit-value access of new_ea in ea_buffer			
		·			
		syzbot reports that lzo1x_1_do_compress is using			
		uninit-value:			
		BUG: KMSAN: uninit-value in			
		lzo1x_1_do_compress+0x19f9/0x2510			
		lib/lzo/lzo1x_compress.c:178			
		Uninit was stored to memory at:			
		ea_put fs/jfs/xattr.c:639 [inline]			
		Local variable ea_buf created at:			
		jfs_setxattr+0x5d/0x1ae0 fs/jfs/xattr.c:662			
		jfs_xattr_set+0xe6/0x1f0 fs/jfs/xattr.c:934			
		=======			
		The second for the first second second for the first second			
		The reason is ea_buf->new_ea is not initialized			
		properly.			
		Fix this by using memset to empty its content at the			
		beginning			
		in ea_get().			
<u>CVE-2024-49928</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.1	High
	multiple	been resolved:			
	products				
		wifi: rtw89: avoid reading out of bounds when			
		loading TX power FW elements			
		Because the loop-expression will do one more time			
		before getting false from			
		cond-expression, the original code copied one more			
		entry size beyond valid			
		region.			
		Fight by maying the entry constants from hereby			
		Fix it by moving the entry copy to loop-body.			

<u>CVE-2022-48966</u>	linux - multiple products	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	7.1	High
	products				
		net: mvneta: Prevent out of bounds read in mvneta_config_rss()			
		The pp->indir[0] value comes from the user. It is passed to:			
		if (cpu_online(pp->rxq_def))			
		inside the mvneta_percpu_elect() function. It needs bounds checkeding to ensure that it is not beyond the end of the cpu			
		bitmap.			
<u>CVE-2022-48967</u>	linux - multiple products	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	7.1	High
	products	NFC: nci: Bounds check struct nfc_target arrays			
		While running under CONFIG_FORTIFY_SOURCE=y, syzkaller reported:			
		memcpy: detected field-spanning write (size 129) of single field "target->sensf_res" at net/nfc/nci/ntf.c:260 (size 18)			
		net/mc/nci/nti.c.200 (Size 18)			
		This appears to be a legitimate lack of bounds checking in			
		nci_add_new_protocol(). Add the missing checks.			
<u>CVE-2022-48999</u>	linux - multiple products	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	7.1	High
	products	ipv4: Handle attempt to delete multipath route when fib_info contains an nh reference			
		Gwangun Jung reported a slab-out-of-bounds access in fib_nh_match: fib_nh_match+0xf98/0x1130 linux-6.0- rc7/net/ipv4/fib_semantics.c:961 fib_table_delete+0x5f3/0xa40 linux-6.0- rc7/net/ipv4/fib_trie.c:1753 inet_rtm_delroute+0x2b3/0x380 linux-6.0- rc7/net/ipv4/fib_frontond c:874			
		rc7/net/ipv4/fib_frontend.c:874 Separate nexthop objects are mutually exclusive with the legacy multipath spec. Fix fib_nh_match to return if the config for the to be deleted route contains a multipath spec while			

		the fib_info			
		is using a nexthop object.			
CVE-2022-49031	linux - multiple	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	7.1	High
	products	iio: health: afe4403: Fix oob read in			
		afe4403_read_raw			
		KASAN report out-of-bounds read as follows:			
		BUG: KASAN: global-out-of-bounds in			
		afe4403_read_raw+0x42e/0x4c0 Read of size 4 at addr ffffffffc02ac638 by task cat/279			
		Call Trace: afe4403_read_raw			
		iio_read_channel_info			
		dev_attr_show			
		The buggy address belongs to the variable: afe4403_channel_leds+0x18/0xfffffffffffffe9e0			
		This issue can be reproduced by singe command:			
		\$ cat /sys/bus/spi/devices/spi0.0/iio\:device0/in_intensity 6_raw			
		The array size of afe4403_channel_leds is less than			
		channels, so access			
		with chan->address cause OOB read in afe4403_read_raw. Fix it by moving			
		access before use it.			
CVE-2022-49032	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.1	High
	multiple products	been resolved:			
		iio: health: afe4404: Fix oob read in afe4404_[read write]_raw			
		KASAN report out-of-bounds read as follows:			
		BUG: KASAN: global-out-of-bounds in			
		afe4404_read_raw+0x2ce/0x380 Read of size 4 at addr fffffffc00e4658 by task cat/278			
		Call Trace:			
		afe4404_read_raw			
		iio_read_channel_info dev_attr_show			
		The buggy address belongs to the variable:			

	afe4404_channel_leds+0x18/0xffffffffffffe9c0			
	This issue can be reproduce by singe command:			
	\$ cat /sys/bus/i2c/devices/0- 0058/iio\:device0/in_intensity6_raw			
	The array size of afe4404_channel_leds and afe4404_channel_offdacs are less than channels, so access with chan->address			
	in afe4404_[read write]_raw. Fix it by moving access			
linux - multiple	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	7.1	High
products	slip: make slhc_remember() more robust against malicious packets			
	syzbot found that slhc_remember() was missing checks against malicious packets [1].			
	slhc_remember() only checked the size of the packet was at least 20, which is not good enough.			
	We need to make sure the packet includes the IPv4 and TCP header that are supposed to be carried.			
	Add iph and th pointers to make the code more readable.			
	[1]			
	BUG: KMSAN: uninit-value in slhc_remember+0x2e8/0x7b0 drivers/net/slip/slhc.c:666 slhc_remember+0x2e8/0x7b0			
	drivers/net/slip/slhc.c:666 ppp_receive_nonmp_frame+0xe45/0x35e0 drivers/net/ppp/ppp_generic.c:2455			
	drivers/net/ppp/ppp_generic.c:2372 [inline] ppp_do_recv+0x65f/0x40d0 drivers/net/ppp/ppp_generic.c:2212			
	ppp_input+0x7dc/0xe60 drivers/net/ppp/ppp_generic.c:2327 pppoe_rcv_core+0x1d3/0x720 drivers/net/ppp/pppoe_s:270			
		This issue can be reproduce by singe command:\$ cat /sys/bus/i2c/devices/0- OD58/iio\:device0/in_intensity6_rawThe array size of afe4404_channel_leds and afe4404_channel_offdacs are less than channels, so access with chan->address cause OOB read in afe4404_[read]write]_raw. Fix it by moving access before use them.linux- multiple productslinux kernel, the following vulnerability has been resolved:slip: make slhc_remember() more robust against malicious packetssyzbot found that slhc_remember() was missing checks against malicious packets [1].slhc_remember() only checked the size of the packet was at least 20, which is not good enough.We need to make sure the packet includes the IPv4 and TCP header that are supposed to be carried.Add iph and th pointers to make the code more readable.[1]BUG: KMSAN: uninit-value in slhc_remember+0x2e8/0x7b0 drivers/net/slip/slhc.:666 slhc_remember+0x2e8/0x7b0 drivers/net/slip/slhc.:666 ppp_receive_nonmp_frame+0xe45/0x35e0 drivers/net/ppp/ppp_generic.:2455 ppp_receive_frame drivers/net/ppp/ppp_generic.:2372 [inline] pp_D_0_recrV0x65/0x40d0 drivers/net/ppp/ppp_generic.:23212 pp_input+0x7dc/0xe60 drivers/net/ppp/ppp_generic.:2327	This issue can be reproduce by singe command: \$ cat /sys/bus/i2c/devices/0- 0058/iio\:device0/in_intensity6_raw The array size of afe4404_channel_leds and afe4404_channel_offdacs are less than channels, so access with chan->address cause 008 read in afe4404_[read write]_raw. Fix it by moving access before use them. linux - multiple products In the Linux kernel, the following vulnerability has been resolved: 2024-10-21 slip: make slhc_remember() more robust against malicious packets syzbot found that slhc_remember() was missing checks against malicious packets [1]. 2024-10-21 slip: make slhc_remember() more robust against malicious packets [2]. slip: make slhc_remember() was missing checks against malicious packets [2]. slip. remember() only checked the size of the packet was at least 20, which is not good enough. We need to make sure the packet includes the IPv4 and TCP header that are supposed to be carried. Add iph and th pointers to make the code more readable. [1] BUG: KMSAN: uninit-value in slhc_remember+0x2e8/0x7b0 drivers/net/slip/slhc.::666 shc_remember+0x2e8/0x7b0 drivers/net/pp/pp_generic.:2372 [inline] ppdo_receive_frame drivers/net/ppp/pp_generic.:2372 [inline] pp_p_do_receive_frame drivers/net/ppp/pp_generic.:2372 [inline] pp_p_do_receive_frame drivers/net/ppp/pp_generic.:2327 pppinput+0x7d(Nxe60 drivers/net/ppp/pp_generic.:2327 ppop_ev_ev_core+0x43/0x720	This issue can be reproduce by singe command: S S cat /sys/bus/l2c/devices/0- 0058/ii0\:device0/in_intensity6_raw Image: Command: The array size of afe4404_channel_elds and afe4404_channel_offdacs are less than channels, so access with chan->address cause OOB read in afe4404_[read]write]_raw. Fix it by moving access before use them. 2024-10-21 Iinux- multiple products In the Linux kernel, the following vulnerability has been resolved: 2024-10-21 7.1 Silp: make slnc_remember() more robust against malicious packets syzbot found that slnc_remember() was missing checks against malicious packets [1]. Slnc_remember() only checked the size of the packet was at least 20, which is not good enough. Image: Common common common common readable. Image: Common common common readable. [1] BUG: KMSAN: uninit-value in slnc_remember+0x2e8/0x7b0 drivers/net/slip/slnc.c:666 slnc_remember+0x2e8/0x7b0 drivers/net/slip/slnc.c:666 Image: Common common readable. Image: Common common readable. [1] BUG: KMSAN: uninit-value in slnc_remember+0x2e8/0x7b0 drivers/net/pp/ppp_generic.c:2372 [nline] ppp_receive_frame drivers/net/pp/ppp_generic.c:2372 [nline] ppp_receive_frame drivers/net/pp/ppp_generic.c:2372 [nline] ppp_receive_frame Image: Common common readable. Image: Common readable. [1] BUG: KMSAN: uninit-value in slnc_remember+0x2e8/0x7b0 drivers/net/pp/ppp_generic.c:2372 [nline] ppp_receive_frame Image: Common common readable. Image: Common readable. Image: Common common readabl

sk_backlog_rcv+0x13b/0x420		
include/net/sock.h:1113		
release_sock+0x1da/0x330 net/core/sock.c:3072		
release_sock+0x6b/0x250 net/core/sock.c:3626		
pppoe_sendmsg+0x2b8/0xb90		
drivers/net/ppp/pppoe.c:903		
sock_sendmsg_nosec net/socket.c:729 [inline]		
sock_sendmsg+0x30f/0x380 net/socket.c:744		
sys_sendmsg+0x903/0xb60 net/socket.c:2602		
sys_sendmsg+0x28d/0x3c0 net/socket.c:2656		
sys_sendmmsg+0x3c1/0x960 net/socket.c:2742		
do_sys_sendmmsg net/socket.c:2771 [inline]		
se_sys_sendmmsg net/socket.c:2768 [inline]		
x64_sys_sendmmsg+0xbc/0x120		
net/socket.c:2768		
x64_sys_call+0xb6e/0x3ba0		
arch/x86/include/generated/asm/syscalls 64.h:308		
do_syscall_x64 arch/x86/entry/common.c:52		
[inline]		
do_syscall_64+0xcd/0x1e0		
arch/x86/entry/common.c:83		
entry_SYSCALL_64_after_hwframe+0x77/0x7f		
Uninit was created at:		
slab_post_alloc_hook mm/slub.c:4091 [inline]		
slab_alloc_node mm/slub.c:4134 [inline]		
kmem_cache_alloc_node_noprof+0x6bf/0xb80		
kmalloc_reserve+0x13d/0x4a0		
net/core/skbuff.c:587		
alloc skb+0x363/0x7b0 net/core/skbuff.c:678		
alloc_skb include/linux/skbuff.h:1322 [inline]		
sock wmalloc+0xfe/0x1a0 net/core/sock.c:2732		
pppoe_sendmsg+0x3a7/0xb90		
drivers/net/ppp/pppoe.c:867		
sock sendmsg nosec net/socket.c:729 [inline]		
sock sendmsg+0x30f/0x380 net/socket.c:744		
sys sendmsg+0x903/0xb60 net/socket.c:2602		
sys sendmsg+0x28d/0x3c0 net/socket.c:2656		
sys_sendmmsg+0x3c1/0x960 net/socket.c:2742		
do sys sendmmsg net/socket.c:2771 [inline]		
se sys sendmmsg net/socket.c:2768 [inline]		
x64_sys_sendmmsg+0xbc/0x120		
net/socket.c:2768		
x64 sys call+0xb6e/0x3ba0		
arch/x86/include/generated/asm/syscalls_64.h:308		
do_syscall_x64 arch/x86/entry/common.c:52		
[inline]		
do_syscall_64+0xcd/0x1e0		
arch/x86/entry/common.c:83		
entry_SYSCALL_64_after_hwframe+0x77/0x7f		
	<u> </u>	

		CPU: 0 UID: 0 PID: 5460 Comm: syz.2.33 Not tainted			
		6.12.0-rc2-syzkaller-00006-g87d6aab2389e #0			
		Hardware name: Google Google Compute			
		Engine/Google Compute Engine, BIOS Google			
		09/13/2024			
CVE-2024-50035	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7.1	High
	multiple	been resolved:			
	products				
		ppp: fix ppp_async_encode() illegal access			
		syzbot reported an issue in ppp_async_encode() [1]			
		In this case, pppoe_sendmsg() is called with a zero			
		size.			
		Then ppp_async_encode() is called with an empty skb.			
		SKU.			
		BUG: KMSAN: uninit-value in ppp async encode			
		drivers/net/ppp/ppp_async.c:545 [inline]			
		BUG: KMSAN: uninit-value in			
		ppp_async_push+0xb4f/0x2660			
		drivers/net/ppp/ppp_async.c:675			
		ppp_async_encode			
		drivers/net/ppp/ppp_async.c:545 [inline]			
		ppp_async_push+0xb4f/0x2660			
		drivers/net/ppp/ppp_async.c:675			
		ppp_async_send+0x130/0x1b0			
		drivers/net/ppp/ppp_async.c:634			
		ppp_channel_bridge_input			
		drivers/net/ppp/ppp_generic.c:2280 [inline]			
		ppp_input+0x1f1/0xe60			
		drivers/net/ppp/ppp_generic.c:2304			
		pppoe_rcv_core+0x1d3/0x720			
		drivers/net/ppp/pppoe.c:379			
		sk_backlog_rcv+0x13b/0x420			
		include/net/sock.h:1113			
		release_sock+0x1da/0x330 net/core/sock.c:3072			
		release_sock+0x6b/0x250 net/core/sock.c:3626			
		pppoe_sendmsg+0x2b8/0xb90			
		drivers/net/ppp/pppoe.c:903			
		<pre>sock_sendmsg_nosec net/socket.c:729 [inline]</pre>			
		sock_sendmsg+0x30f/0x380 net/socket.c:744			
		sys_sendmsg+0x903/0xb60 net/socket.c:2602			
		sys_sendmsg+0x28d/0x3c0 net/socket.c:2656			
		sys_sendmmsg+0x3c1/0x960 net/socket.c:2742			
		do_sys_sendmmsg net/socket.c:2771 [inline]			
		se_sys_sendmmsg net/socket.c:2768 [inline]			
		x64_sys_sendmmsg+0xbc/0x120			
		net/socket.c:2768			
		x64_sys_call+0xb6e/0x3ba0			

	1		1	1	
		arch/x86/include/generated/asm/syscalls_64.h:308			
		do_syscall_x64 arch/x86/entry/common.c:52			
		[inline]			
		do_syscall_64+0xcd/0x1e0			
		arch/x86/entry/common.c:83			
		entry_SYSCALL_64_after_hwframe+0x77/0x7f			
		Uninit was created at:			
		slab_post_alloc_hook mm/slub.c:4092 [inline]			
		slab alloc node mm/slub.c:4135 [inline]			
		kmem_cache_alloc_node_noprof+0x6bf/0xb80			
		mm/slub.c:4187			
		kmalloc_reserve+0x13d/0x4a0			
		net/core/skbuff.c:587			
		alloc_skb+0x363/0x7b0 net/core/skbuff.c:678			
		alloc_skb include/linux/skbuff.h:1322 [inline]			
		sock_wmalloc+0xfe/0x1a0 net/core/sock.c:2732			
		pppoe_sendmsg+0x3a7/0xb90			
		drivers/net/ppp/pppoe.c:867			
		sock_sendmsg_nosec net/socket.c:729 [inline]			
		sock sendmsg+0x30f/0x380 net/socket.c:744			
		sys_sendmsg+0x903/0xb60 net/socket.c:2602			
		sys_sendmsg+0x28d/0x3c0 net/socket.c:2656			
		sys_sendmmsg+0x3c1/0x960 net/socket.c:2742			
		do_sys_sendmmsg net/socket.c:2771 [inline]			
		se_sys_sendmmsg net/socket.c:2768 [inline]			
		x64_sys_sendmmsg+0xbc/0x120			
		net/socket.c:2768			
		x64_sys_call+0xb6e/0x3ba0			
		arch/x86/include/generated/asm/syscalls_64.h:308			
		do syscall x64 arch/x86/entry/common.c:52			
		[inline]			
		do_syscall_64+0xcd/0x1e0			
		arch/x86/entry/common.c:83			
		entry_SYSCALL_64_after_hwframe+0x77/0x7f			
		CPU: 1 UID: 0 PID: 5411 Comm: syz.1.14 Not tainted			
		6.12.0-rc1-syzkaller-00165-g360c1f1f24c6 #0			
		Hardware name: Google Google Compute			
		Engine/Google Compute Engine, BIOS Google			
		09/13/2024			
	linus		2024-10-21	7	Lliah
<u>CVE-2024-47741</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	/	High
	multiple	been resolved:			
	products				
		btrfs: fix race setting file private on concurrent lseek			
		using same fd			
		When doing concurrent Iseek(2) system calls against			
		the same file			
		descriptor, using multiple threads belonging to the			
		same process, we have			

a chart time window where a race harmone and can
a short time window where a race happens and can
result in a memory leak.
The race happens like this:
1) A program opens a file descriptor for a file and
then spawns two
threads (with the pthreads library for example), lets
call them
task A and task B;
2) Tack A calle leady with SEEK, DATA as SEEK, UCLE
2) Task A calls lseek with SEEK_DATA or SEEK_HOLE
and ends up at
file.c:find_desired_extent() while holding a read
lock on the inode;
3) At the start of find_desired_extent(), it extracts the
file's
private_data pointer into a local variable named
'private', which has
a value of NULL;
a value of NOLL;
4) Task B also calls Iseek with SEEK_DATA or
SEEK_HOLE, locks the inode
in shared mode and enters
file.c:find_desired_extent(), where it also
extracts file->private_data into its local variable
'private', which
has a NULL value;
5) Because it saw a NULL file private, task A allocates
a private
structure and assigns to the file structure;
6) Task B also saw a NULL file private so it also
allocates its own file
private and then assigns it to the same file
structure, since both
tasks are using the same file descriptor.
At this point we leak the private structure allocated
by task A.
Besides the memory leak, there's also the detail that
Besides the memory leak, there's also the detail that
both tasks end up
using the same cached state record in the private
structure (struct
btrfs_file_private::llseek_cached_state), which can
result in a
use-after-free problem since one task can free it
while the other is

		still using it (only one task took a reference count on			
		it). Also, sharing			
		the cached state is not a good idea since it could			
		result in incorrect			
		results in the future - right now it should not be a			
		problem because it			
		end ups being used only in extent-io-			
		tree.c:count_range_bits() where we do			
		range validation before using the cached state.			
		Fix this by protecting the private assignment and			
		check of a file while			
		holding the inode's spinlock and keep track of the			
		task that allocated			
		the private, so that it's used only by that task in order			
		to prevent			
		user-after-free issues with the cached state record as			
		well as potentially			
		using it incorrectly in the future.			
<u>CVE-2024-47747</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7	High
	multiple	been resolved:			
	products				
		net: seeq: Fix use after free vulnerability in ether3			
		Driver Due to Race Condition			
		In the ether3_probe function, a timer is initialized			
		with a callback			
		function ether3_ledoff, bound to &prev(dev)->timer.			
		Once the timer is			
		started, there is a risk of a race condition if the			
		module or device			
		is removed, triggering the ether3_remove function to			
		perform cleanup.			
		The sequence of operations that may lead to a UAF			
		bug is as follows:			
		СРИО СРИ1			
		ether3_ledoff			
		ether3_remove			
		free_netdev(dev);			
		put_devic			
		kfree(dev);			
		ether3_outw(priv(dev)->regs.config2 =			
		CFG2_CTRLO, REG_CONFIG2);			
		// use dev			
		Fix it by ensuring that the timer is canceled before			
		proceeding with			
		the cleanup in ether3_remove.			
L	1				

products nbd: fix race between timeout and normal completion If request timetout is handled by nbd_requeue_md(), normal completion has to be stopped for avoiding to complete this requeed request, other use-after-free can be triggered. Fix the race by clearing NBD_CMD_INFLIGHT in nbd_requeue_md(), meantime make sure that cmd->lock is grabbed for clearing the fiag and the requeue. 2024-10-21 7 High CVE-2024-49874 Iinux-multiple products In the Linux kernel, the following vulnerability has been resolved: 2024-10-21 7 High Is::::::::::::::::::::::::::::::::::::	<u>CVE-2024-49855</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7	High
nbd: fix race between timeout and normal completion if request timetout is handled by nbd_requeue_cmd(), normal completion has to be stopped for avoiding to complete this requeued request, other use-after-free can be triggered. Fix the race by clearing NBD_CMD_INFLIGHT in nbd_requeue_cmd(), meantime make sure that cmd->lock is grabbed for clearing the flag and the requeue. 2024-10-21 7 CVE-2024-49874 Iinux-multiple been resolved: In the Linux kernel, the following vulnerability has been resolved: 2024-10-21 7 High is: master: swc: Fix use after free vulnerability in svc_i3c_master_probe function, &master->hj_work is bound with svc_i3c_master_probe function, &master->hj_work is bound with svc_i3c_master_lib_work can start the hj_work, svc_i3c_master_lib_work can start the hj_work, svc_i3c_master_id_handler can start the hj_work, svc_i3c_master_id_handler can start the hj_work. If we remove the module which will call svc_i3c_master_ore to make cleanup, it will free master->base through i3c_master_urregister while the work mentioned above will be used. The sequence of operations that may lead to a UAF bug is as follows: CPU0 CPU1 [svc_i3c_master_hj_work [svc_i3c_master_hj_work [svc_i3c_master_hj_work [svc_i3c_master_hj_work		multiple	been resolved:			
completion If request timetout is handled by nbd_requeue_cmd(), normal completion has to be stopped for avoiding to complete this requeued request, other use-after-free can be triggered. If it is the race by clearing NBD_CMD_INFLIGHT in nbd_requeue_cmd(), meantime make sure that cmd->lock is grabbed for clearing the flag and the requeue. Inux- multiple products In the Linux kernel, the following vulnerability has been resolved: 2024-10-21 7 High is: master: suc: Fix use after free vulnerability in svc_i3c_master_probe function, &master->hj_work is bound with svc_i3c_master_probe function, &master->hj_work is bound with svc_i3c_master_ibi_work. And svc_i3c_master_ibi_work. And svc_i3c_master_ibi_work can start the hj_work. If we remove the module which will call svc_i3c_master_uregister while the work mentioned above will be used. The sequence of operations that may lead to a UAF bug is as follows: CPU0 CPU1 is cpice_disc_master_nj_work If yesc_j3c_master_hj_work CPU1 Is vc_j3c_master_hj_work Image: sequence of operations that may lead to a UAF bug is as follows:		products	nbd: fix race between timeout and normal			
VE-2024-49874 If request timetout is handled by nbd_requeue_cmd(), normal completion has to be stopped for avoiding to complete this requeued request, other use-after-free can be triggered. Image: Completion is it is is is it is is it is is it is is is it is it is is is it is is i						
nbd_requeue_cmd(), normal completion has to be stopped for avoiding to complete this requeued request, other use-after-free can be triggered. Image: Complete the stopped for avoiding to complete the stopped for clearing the flag and the requeue_cmd(), meantime make sure that cmd-slock is grabbed for clearing the flag and the requeue. Image: Complete the stopped for clearing the flag and the requeue. CVE-2024-49874 Intw - multiple products In the Linux kernel, the following vulnerability has been resolved: i3c: master: svc: Fix use after free vulnerability in svc_i3c_master Driver Due to Race Condition 2024-10-21 7 High In the svc_i3c_master Driver Due to Race Condition In the svc_i3c_master_ibi_work, &master->ibi_work is bound with svc_i3c_master_ibi_work, amaster->ibi_work is bound with svc_i3c_master_ibi_work and svc_i3c_master_ibi_work can start the hj_work. If we remove the module which will call svc_i3c_master_remove to make cleanup, it will free master->base through i3c_master_unregister while the work mentioned above will be used. The sequence of operations that may lead to a UAF bug is as follows: CPU0 CPU1						
has to be stopped for avoiding to complete this requeued request, other use-after-free can be triggered. Fix the race by clearing NBD_CMD_INFLIGHT in nbd_requeue_cm(), meantime make sure that cmd->lock is grabbed for clearing the fiag and the requeue. CVE-2024-49874 Intux - multiple In the Linux kernel, the following vulnerability has been resolved: been resolved: i3c: master: svc: Fix use after free vulnerability in svc_i3c_master Driver Due to Race Condition In the svc_i3c_master Driver Due to Race Condition In the svc_i3c_master_probe function, &master->hj_work is bound with svc_i3c_master_ibi_work. And svc_i3c_master_ibi_work. And svc_i3c_master_ibi_work. And svc_i3c_master_im_handler can start the hj.work, svc_i3c_master_ing_handler can start the hj.work, svc_i3c_master_im_handler can start the hj.work. If we remove the module which will call svc_i3c_master_remove to make cleanup, it will free master->base through i3c_master_unregister while the work mentioned above will be used. The sequence of operations that may lead to a UAF bug is as follows: CPU0 CPU1 svc_i3c_master_jh_work lster_ijster lster_ijster_ijster						
requeued request, other use-after-free can be triggered. Fix the race by clearing NBD_CMD_INFLIGHT in nbd_requeue_cmd(), meantime make sure that cmd->lock is grabbed for clearing the fig and the requeue. Inux-i multiple In the Linux kernel, the following vulnerability has 2024-10-21 7 been resolved: i3c: master: svc: Fix use after free vulnerability in svc_i3c_master_probe function, &master-> reverse is bound with svc_i3c_master_probe function, &master->ibi_work is bound with svc_i3c_master_ibi_work and svc_i3c_master_ibi_work. And svc_i3c_master_ibi_work can start the hj_work, svc_i3c_master_remove to make cleanup, it will free master->base through i3c_master_remove to make cleanup, it will free master->base through svc_i3c_master_unegister while the work mentioned above will be used. The sequence of operations that may lead to a UAF bug is as follows: CPU0 CPU1						
use-after-free can be triggered. Fix the race by clearing NBD_CMD_INFLIGHT in nbd_requeue_cmd(), meantime make sure that cmd->lock is grabbed for clearing the fiag and the requeue. Image: State of the sta						
CVE-2024-49874 Fix the race by clearing NB_CMD_INFLIGHT in nbd_requeue_cmd(), meantime make sure that cmd->lock is grabbed for clearing the flag and the requeue. 2024-10-21 7 High CVE-2024-49874 linux - multiple products In the Linux kernel, the following vulnerability has been resolved: 2024-10-21 7 High In the Linux kernel, the following vulnerability in svc_i3c_master Driver Due to Race Condition In the svc_i3c_master_probe function, &master->hj_work is bound with svc_i3c_master_ibi_work. And svc_i3c_master_ibi_work can start the hj_work, svc_i3c_master_ibi_work can start the hj_work, svc_i3c_master_imq_handler can start the ibi_work. If we remove the module which will call svc_i3c_master_remove to make cleanup, it will free master->base through i3c_master_uregister While the work mentioned above will be used. The sequence of operations that may lead to a UAF bug is as follows: CPU0 CPU1 I svc_i3c_master_hj_work Level3c_master_hj_work Level3c_master_hj_work Level3c_master_hj_work						
nbd_requeue_cmd(), meantime make sure that cmd->lock is grabbed for clearing the flag and the requeue. nbd_requeue_chain CVE-2024-49874 linux - multiple products In the Linux kernel, the following vulnerability has been resolved: 2024-10-21 7 Bis: master: svc: Fix use after free vulnerability in svc_i3c_master Driver Due to Race Condition 1 1 In the svc_i3c_master_probe function, &master- >hj_work is bound with svc_i3c_master_ibi_work. And svc_i3c_master_ibi_work. And svc_i3c_master_icip_andler can start the hj_work, svc_i3c_master_irq_handler can start the ibi_work. If we remove the module which will call svc_i3c_master_unregister while the work mentioned above will be used. The sequence of operations that may lead to a UAF bug is as follows: CPU0 CPU1 Isvc_i3c_master_hj_work Isvc_i3c_master_hj_work CPU0 CPU1			use-arter-free can be triggered.			
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flag and the requeue. inux - multiple products In the Linux kernel, the following vulnerability has been resolved: 2024-10-21 7 High i3c: master: svc: Fix use after free vulnerability in svc_i3c_master Driver Due to Race Condition In the svc_i3c_master_probe function, &master->hj_work is bound with svc_i3c_master_hj_work, &master->bi_work is bound with svc_i3c_master_hj_work, And svc_i3c_master_ioi_work can start the hj_work, svc_i3c_master_irq_handler can start the hj_work. If we remove the module which will call svc_i3c_master_remove to make cleanup, it will free master->base through i3c_master_unregister while the work mentioned above will be used. The sequence of operations that may lead to a UAF bug is as follows: CPU0 CPU1						
cvf=2024-49874 linux - multiple products In the Linux kernel, the following vulnerability has been resolved: 2024-10-21 7 High i3c: master: svc: Fix use after free vulnerability in svc_i3c_master Driver Due to Race Condition i3c: master: svc: Fix use after free vulnerability in svc_i3c_master_probe function, &master->hj_work is bound with svc_i3c_master_hj_work, &master->ibi_work is bound with svc_i3c_master_ibi_work. And svc_i3c_master_ibi_work can start the hj_work, svc_i3c_master_irq_handler can start the ibi_work. If we remove the module which will call svc_i3c_master_unregister while the work mentioned above will be used. The sequence of operations that may lead to a UAF bug is as follows: CPU0 CPU1			make sure that cmd->lock is grabbed for clearing the			
CVE-2024-49874 linux - multiple products In the Linux kernel, the following vulnerability has been resolved: 2024-10-21 7 High i3c: master: svc: Fix use after free vulnerability in svc_i3c_master Driver Due to Race Condition i3c: master: svc: Fix use after free vulnerability in svc_i3c_master_probe function, &master- >hj_work is bound with svc_i3c_master_hj_work, &master->ibi_work is bound with svc_i3c_master_ibi_work. And svc_i3c_master_ibi_work can start the hj_work, svc_i3c_master_irq_handler can start the ibi_work. if we remove the module which will call svc_i3c_master_remove to make cleanup, it will free master->base through i3c_master_unregister while the work mentioned above will be used. The sequence of operations that may lead to a UAF bug is as follows: CPU0 CPU1 [svc_i3c_master_hj_work [svc_i3c_master_hj_work CPU0 CPU1			flag and the			
multiple products been resolved: i3c: master: svc: Fix use after free vulnerability in svc_i3c_master Driver Due to Race Condition In the svc_i3c_master_probe function, &master- >hj_work is bound with svc_i3c_master_hj_work, &master->ibi_work is bound with svc_i3c_master_ibi_work. And svc_i3c_master_ibi_work can start the hj_work, svc_i3c_master_irq_handler can start the ibi_work. If we remove the module which will call svc_i3c_master_nemove to make cleanup, it will free master->base through i3c_master_unregister while the work mentioned above will be used. The sequence of operations that may lead to a UAF bug is as follows: CPU0 CPU1 [svc_i3c_master_hj_work						
products i3c: master: svc: Fix use after free vulnerability in svc_i3c_master Driver Due to Race Condition In the svc_i3c_master_probe function, &master->hj_work is bound with svc_i3c_master_hj_work, &master->ibi_work is bound with svc_i3c_master_ibi_work. And svc_i3c_master_ibi_work can start the hj_work, svc_i3c_master_irq_handler can start the ibi_work. If we remove the module which will call svc_i3c_master_remove to make cleanup, it will free master->base through i3c_master_inregister while the work mentioned above will be used. The sequence of operations that may lead to a UAF bug is as follows: CPU0 CPU1 I svc_i3c_master_hj_work	<u>CVE-2024-49874</u>			2024-10-21	7	High
 i3c: master: svc: Fix use after free vulnerability in svc_i3c_master Driver Due to Race Condition In the svc_i3c_master_probe function, &master->hj_work is bound with svc_i3c_master_hj_work, &master->ibi_work is bound with svc_i3c_master_ibi_work. And svc_i3c_master_ibi_work can start the hj_work, svc_i3c_master_irq_handler can start the ibi_work. If we remove the module which will call svc_i3c_master_nemove to make cleanup, it will free master->base through i3c_master_unregister while the work mentioned above will be used. The sequence of operations that may lead to a UAF bug is as follows: CPU0 CPU1 svc_i3c_master_hj_work 		•	been resolved:			
svc_i3c_master Driver Due to Race Condition In the svc_i3c_master_probe function, &master- >hj_work is bound with svc_i3c_master_hj_work, &master->ibi_work is bound with svc_i3c_master_ibi_work. And svc_i3c_master_ibi_work can start the hj_work, svc_i3c_master_irq_handler can start the ibi_work. If we remove the module which will call svc_i3c_master_remove to make cleanup, it will free master->base through i3c_master_unregister while the work mentioned above will be used. The sequence of operations that may lead to a UAF bug is as follows: CPU0 CPU1 svc_i3c_master_hj_work		products	i3c: master: svc: Fix use after free vulnerability in			
In the svc_i3c_master_probe function, &master- >hj_work is bound with svc_i3c_master_hj_work, &master->ibi_work is bound with svc_i3c_master_ibi_work. And svc_i3c_master_ibi_work can start the hj_work, svc_i3c_master_irq_handler can start the ibi_work. If we remove the module which will call svc_i3c_master_remove to make cleanup, it will free master->base through i3c_master_unregister while the work mentioned above will be used. The sequence of operations that may lead to a UAF bug is as follows: CPU0 CPU1 svc_i3c_master_hj_work						
>hj_work is bound with svc_i3c_master_hj_work, &master->ibi_work is bound with svc_i3c_master_ibi_work. And svc_i3c_master_ibi_work can start the hj_work, svc_i3c_master_irq_handler can start the ibi_work. If we remove the module which will call svc_i3c_master_remove to make cleanup, it will free master->base through i3c_master_unregister while the work mentioned above will be used. The sequence of operations that may lead to a UAF bug is as follows: CPU0 CPU1 svc_i3c_master_hj_work						
svc_i3c_master_hj_work, &master->ibi_work is bound with svc_i3c_master_ibi_work. And svc_i3c_master_ibi_work can start the hj_work, svc_i3c_master_irq_handler can start the ibi_work. If we remove the module which will call svc_i3c_master_remove to make cleanup, it will free master->base through i3c_master_unregister while the work mentioned above will be used. The sequence of operations that may lead to a UAF bug is as follows: CPU0 CPU1 svc_i3c_master_hj_work						
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sequence of operations that may lead to a UAF bug is as follows: CPU0 CPU1 svc_i3c_master_hj_work			•			
that may lead to a UAF bug is as follows: CPU0 L V						
CPU0 CPU1 svc_i3c_master_hj_work						
svc_i3c_master_hj_work			that may lead to a OAF bug is as follows.			
			CPU0 CPU1			
svc i3c master remove			svc_i3c_master_hj_work			
			svc_i3c_master_remove			
i3c_master_unregister(&master->base)						
device_unregister(&master->dev)						
device_release						
//free master->base i3c_master_do_daa(&master-			· · ·			
>base)						
//use master->base						

				[[
		Fix it by ensuring that the work is canceled before			
		proceeding with the			
		cleanup in svc_i3c_master_remove.			
CVE-2024-49903	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7	High
	multiple	been resolved:			
	products				
		jfs: Fix uaf in dbFreeBits			
		[syzbot reported]			
		BUG: KASAN: slab-use-after-free in			
		mutex_lock_common kernel/locking/mutex.c:587			
		[inline]			
		BUG: KASAN: slab-use-after-free in			
		mutex_lock+0xfe/0xd70			
		kernel/locking/mutex.c:752			
		Read of size 8 at addr ffff8880229254b0 by task syz-			
		executor357/5216			
		CPU: 0 UID: 0 PID: 5216 Comm: syz-executor357 Not			
		tainted 6.11.0-rc3-syzkaller-00156-gd7a5aa4b3c00 #0			
		Hardware name: Google Google Compute			
		Engine/Google Compute Engine, BIOS Google			
		06/27/2024			
		Call Trace:			
		<task></task>			
		dump_stack lib/dump_stack.c:93 [inline]			
		dump_stack_lvl+0x241/0x360 lib/dump_stack.c:119			
		print_address_description mm/kasan/report.c:377			
		[inline]			
		print_report+0x169/0x550 mm/kasan/report.c:488 kasan report+0x143/0x180 mm/kasan/report.c:601			
		mutex lock common kernel/locking/mutex.c:587			
		[inline]			
		mutex_lock+0xfe/0xd70			
		kernel/locking/mutex.c:752			
		dbFreeBits+0x7ea/0xd90 fs/jfs/jfs_dmap.c:2390			
		dbFreeDmap fs/jfs/jfs_dmap.c:2089 [inline]			
		dbFree+0x35b/0x680 fs/jfs/jfs_dmap.c:409			
		dbDiscardAG+0x8a9/0xa20 fs/jfs/jfs_dmap.c:1650			
		jfs_ioc_trim+0x433/0x670 fs/jfs/jfs_discard.c:100			
		jfs_ioctl+0x2d0/0x3e0 fs/jfs/ioctl.c:131			
		vfs_ioctl fs/ioctl.c:51 [inline]			
		do_sys_ioctl fs/ioctl.c:907 [inline]			
		se_sys_ioctl+0xfc/0x170 fs/ioctl.c:893			
		do_syscall_x64 arch/x86/entry/common.c:52 [inline]			
		do_syscall_64+0xf3/0x230 arch/x86/entry/common.c:83			
		Freed by task 5218:			

		kasan_save_stack mm/kasan/common.c:47 [inline] kasan_save_track+0x3f/0x80 mm/kasan/common.c:68 kasan_save_free_info+0x40/0x50 mm/kasan/generic.c:579 poison_slab_object+0xe0/0x150 mm/kasan/common.c:240 kasan_slab_free+0x37/0x60 mm/kasan/common.c:256 kasan_slab_free include/linux/kasan.h:184 [inline] slab_free_hook mm/slub.c:2252 [inline] slab_free mm/slub.c:4473 [inline] kfree+0x149/0x360 mm/slub.c:4594 dbUnmount+0x11d/0x190 fs/jfs/jfs_dmap.c:278 jfs_mount_rw+0x4ac/0x6a0 fs/jfs/jfs_mount.c:247 jfs_remount+0x3d1/0x6b0 fs/jfs/super.c:454			
		reconfigure_super+0x445/0x880 fs/super.c:1083 vfs_cmd_reconfigure fs/fsopen.c:263 [inline] vfs_fsconfig_locked fs/fsopen.c:292 [inline] do_sys_fsconfig fs/fsopen.c:473 [inline] se_sys_fsconfig+0xb6e/0xf80 fs/fsopen.c:345 do_syscall_x64 arch/x86/entry/common.c:52 [inline] do_syscall_64+0xf3/0x230 arch/x86/entry/common.c:83 entry_SYSCALL_64_after_hwframe+0x77/0x7f			
		[Analysis] There are two paths (dbUnmount and jfs_ioc_trim) that generate race condition when accessing bmap, which leads to the occurrence of uaf. Use the lock s_umount to synchronize them, in order			
		to avoid uaf caused by race condition.			
<u>CVE-2024-49981</u>	linux - multiple products	In the Linux kernel, the following vulnerability has been resolved: media: venus: fix use after free bug in venus_remove due to race condition in venus_probe, core->work is bound with venus_sys_error_handler, which is used to handle error. The code use core- >sys_err_done to make sync work. The core->work is started in venus_event_notify. If we call venus_remove, there might be an unfished work. The possible sequence is as follows:	2024-10-21	7	High

		CPU0 CPU1			
		venus_sys_error_handler			
		venus_remove			
		hfi_destroy			
		venus_hfi_destroy			
		kfree(hdev);			
		hfi_reinit			
		venus_hfi_queues_reinit			
		//use hdev			
		Fix it by canceling the work in venus_remove.			
CVE-2022-48988	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	7	High
	multiple	been resolved:			-
	products				
		memcg: fix possible use-after-free in			
		memcg_write_event_control()			
		momor write event entrally eccentrality			
		memcg_write_event_control() accesses the dentry-			
		>d_name of the specified control fd to route the write call. As a cgroup			
		interface file can't be			
		renamed, it's safe to access d_name as long as the			
		specified file is a			
		regular cgroup file. Also, as these cgroup interface			
		files can't be			
		removed before the directory, it's safe to access the			
		parent too.			
		Prior to 347c4a874710 ("memcg: remove			
		cgroup event->cft"), there was a			
		call tofile_cft() which verified that the specified file			
		is a regular			
		cgroupfs file before further accesses. The cftype			
		pointer returned from			
		file_cft() was no longer necessary and the commit			
		inadvertently dropped			
		the file type check with it allowing any file to slip			
		through. With the			
		invarients broken, the d_name and parent accesses			
		can now race against renames and removals of arbitrary files and cause			
		use-after-free's.			
		Fix the bug by resurrecting the file type check in			
		file_cft(). Now that			
		cgroupfs is implemented through kernfs, checking the			
		file operations needs			
		to go through a layer of indirection. Instead, let's			
		check the superblock			
		and dentry type.			

CVE 2022 40001	lineur	In the Linux kowed, the following wheevebility has	2024 10 21	7	Lliah
<u>CVE-2022-49001</u>	linux - multiple	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	7	High
	products				
		riscv: fix race when vmap stack overflow			
		Currently, when detecting vmap stack overflow, riscv			
		firstly switches			
		to the so called shadow stack, then use this shadow stack to call the			
		get_overflow_stack() to get the overflow stack.			
		However, there's			
		a race here if two or more harts use the same shadow			
		stack at the same time.			
		To solve this race, we introduce spin_shadow_stack			
		atomic var, which will be swap between its own address and 0 in atomic			
		way, when the			
		var is set, it means the shadow_stack is being used;			
		when the var is cleared, it means the shadow_stack isn't being			
		used.			
		[Dalman Add AO to the owner, and also some			
		[Palmer: Add AQ to the swap, and also some			
		comments.]			
CVE-2024-50036	linux -	comments.] In the Linux kernel, the following vulnerability has	2024-10-21	7	High
CVE-2024-50036	multiple		2024-10-21	7	High
<u>CVE-2024-50036</u>		In the Linux kernel, the following vulnerability has	2024-10-21	7	High
<u>CVE-2024-50036</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: net: do not delay dst_entries_add() in dst_release()	2024-10-21	7	High
<u>CVE-2024-50036</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: net: do not delay dst_entries_add() in dst_release() dst_entries_add() uses per-cpu data that might be	2024-10-21	7	High
<u>CVE-2024-50036</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: net: do not delay dst_entries_add() in dst_release() dst_entries_add() uses per-cpu data that might be freed at netns	2024-10-21	7	High
<u>CVE-2024-50036</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: net: do not delay dst_entries_add() in dst_release() dst_entries_add() uses per-cpu data that might be	2024-10-21	7	High
<u>CVE-2024-50036</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: net: do not delay dst_entries_add() in dst_release() dst_entries_add() uses per-cpu data that might be freed at netns dismantle from ip6_route_net_exit() calling dst_entries_destroy()	2024-10-21	7	High
<u>CVE-2024-50036</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: net: do not delay dst_entries_add() in dst_release() dst_entries_add() uses per-cpu data that might be freed at netns dismantle from ip6_route_net_exit() calling	2024-10-21	7	High
<u>CVE-2024-50036</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: net: do not delay dst_entries_add() in dst_release() dst_entries_add() uses per-cpu data that might be freed at netns dismantle from ip6_route_net_exit() calling dst_entries_destroy() Before ip6_route_net_exit() can be called, we release all the dsts associated with this netns, via calls to	2024-10-21	7	High
<u>CVE-2024-50036</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: net: do not delay dst_entries_add() in dst_release() dst_entries_add() uses per-cpu data that might be freed at netns dismantle from ip6_route_net_exit() calling dst_entries_destroy() Before ip6_route_net_exit() can be called, we release all the dsts associated with this netns, via calls to dst_release(),	2024-10-21	7	High
<u>CVE-2024-50036</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: net: do not delay dst_entries_add() in dst_release() dst_entries_add() uses per-cpu data that might be freed at netns dismantle from ip6_route_net_exit() calling dst_entries_destroy() Before ip6_route_net_exit() can be called, we release all the dsts associated with this netns, via calls to	2024-10-21	7	High
<u>CVE-2024-50036</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: net: do not delay dst_entries_add() in dst_release() dst_entries_add() uses per-cpu data that might be freed at netns dismantle from ip6_route_net_exit() calling dst_entries_destroy() Before ip6_route_net_exit() can be called, we release all the dsts associated with this netns, via calls to dst_release(), which waits an rcu grace period before calling dst_destroy()	2024-10-21	7	High
<u>CVE-2024-50036</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: net: do not delay dst_entries_add() in dst_release() dst_entries_add() uses per-cpu data that might be freed at netns dismantle from ip6_route_net_exit() calling dst_entries_destroy() Before ip6_route_net_exit() can be called, we release all the dsts associated with this netns, via calls to dst_release(), which waits an rcu grace period before calling dst_destroy() dst_entries_add() use in dst_destroy() is racy,	2024-10-21	7	High
<u>CVE-2024-50036</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: net: do not delay dst_entries_add() in dst_release() dst_entries_add() uses per-cpu data that might be freed at netns dismantle from ip6_route_net_exit() calling dst_entries_destroy() Before ip6_route_net_exit() can be called, we release all the dsts associated with this netns, via calls to dst_release(), which waits an rcu grace period before calling dst_destroy()	2024-10-21	7	High
<u>CVE-2024-50036</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: net: do not delay dst_entries_add() in dst_release() dst_entries_add() uses per-cpu data that might be freed at netns dismantle from ip6_route_net_exit() calling dst_entries_destroy() Before ip6_route_net_exit() can be called, we release all the dsts associated with this netns, via calls to dst_release(), which waits an rcu grace period before calling dst_destroy() dst_entries_add() use in dst_destroy() is racy, because dst_entries_destroy() could have been called already.	2024-10-21	7	High
<u>CVE-2024-50036</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: net: do not delay dst_entries_add() in dst_release() dst_entries_add() uses per-cpu data that might be freed at netns dismantle from ip6_route_net_exit() calling dst_entries_destroy() Before ip6_route_net_exit() can be called, we release all the dsts associated with this netns, via calls to dst_release(), which waits an rcu grace period before calling dst_destroy() dst_entries_add() use in dst_destroy() is racy, because dst_entries_destroy() could have been called already. Decrementing the number of dsts must happen	2024-10-21	7	High
<u>CVE-2024-50036</u>	multiple	In the Linux kernel, the following vulnerability has been resolved: net: do not delay dst_entries_add() in dst_release() dst_entries_add() uses per-cpu data that might be freed at netns dismantle from ip6_route_net_exit() calling dst_entries_destroy() Before ip6_route_net_exit() can be called, we release all the dsts associated with this netns, via calls to dst_release(), which waits an rcu grace period before calling dst_destroy() dst_entries_add() use in dst_destroy() is racy, because dst_entries_destroy() could have been called already.	2024-10-21	7	High

		 in CONFIG_XFRM case, dst_destroy() can call dst_release_immediate(child), this might also cause UAF if the child does not have DST_NOCOUNT set. IPSEC maintainers might take a look and see how to address this. 			
		 There is also discussion about removing this count of dst, which might happen in future kernels. 			
<u>CVE-2024-50059</u>	linux - multiple products	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	7	High
		ntb: ntb_hw_switchtec: Fix use after free vulnerability in switchtec_ntb_remove due to race condition			
		In the switchtec_ntb_add function, it can call switchtec_ntb_init_sndev function, then &sndev->check_link_status_work is bound with check_link_status_work. switchtec_ntb_link_notification may be called to start the work.			
		If we remove the module which will call switchtec_ntb_remove to make cleanup, it will free sndev through kfree(sndev), while the work mentioned above will be used. The sequence of operations that may lead to a UAF bug is as follows:			
		CPU0 CPU1			
		check_link_status_work switchtec_ntb_remove kfree(sndev); if (sndev->link_force_down) // use sndev			
		Fix it by ensuring that the work is canceled before proceeding with the cleanup in switchtec_ntb_remove.			
CVE-2024-50061	linux - multiple products	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	7	High
		i3c: master: cdns: Fix use after free vulnerability in cdns_i3c_master Driver Due to Race Condition			

					· · · · · · · · · · · · · · · · · · ·
		In the cdns_i3c_master_probe function, &master-			
		>hj_work is bound with			
		cdns_i3c_master_hj. And cdns_i3c_master_interrupt			
		can call			
		cnds_i3c_master_demux_ibis function to start the			
		work.			
		If we remove the module which will call			
		cdns_i3c_master_remove to			
		make cleanup, it will free master->base through			
		i3c_master_unregister			
		while the work mentioned above will be used. The			
		sequence of operations			
		that may lead to a UAF bug is as follows:			
		CPU0 CPU1			
		cdns_i3c_master_hj			
		cdns_i3c_master_remove			
		i3c_master_unregister(&master->base)			
		device_unregister(&master->dev)			
		device_release			
		//free master->base			
		i3c_master_do_daa(&master-			
		>base)			
		//use master->base			
		Fix it by ensuring that the work is canceled before			
		proceeding with			
		the cleanup in cdns_i3c_master_remove.			
CVE-2024-47902	siemens -	A vulnerability has been identified in InterMesh 7177	2024-10-23	6.9	Medium
<u>CVE 2021 17502</u>	intermesh	Hybrid 2.0 Subscriber (All versions < V8.2.12),	20211025	0.5	Wiediam
	_7177_hy	InterMesh 7707 Fire Subscriber (All versions <			
		V7.2.12 only if the IP interface is enabled (which is			
	ubscriber	not the default configuration)). The web server of			
		affected devices does not authenticate GET requests			
		that execute specific commands (such as `ping`) on			
		operating system level.			
CVE-2024-47903	siemens -	A vulnerability has been identified in InterMesh 7177	2024-10-23	6.9	Medium
012 2021 17000	intermesh	Hybrid 2.0 Subscriber (All versions < V8.2.12),	_02 : 10 20	0.5	meanann
	_7177_hy	InterMesh 7707 Fire Subscriber (All versions <			
	brid_2.0_s	V7.2.12 only if the IP interface is enabled (which is			
	ubscriber	not the default configuration)). The web server of			
		affected devices allows to write arbitrary files to the			
		web server's DocumentRoot directory.			
CVE-2024-20485	cisco -	A vulnerability in the VPN web server of Cisco	2024-10-23	6.7	Medium
012 2021 20100	multiple	Adaptive Security Appliance (ASA) Software and Cisco	_02 : 10 20	0.7	
	products	Firepower Threat Defense (FTD) Software could allow			
	P. 544005	an authenticated, local attacker to execute arbitrary			
		code with root-level privileges. Administrator-level			
		privileges are required to exploit this vulnerability.			
<u> </u>		privileges are required to exploit this vallerability.			

				[1
<u>CVE-2024-44141</u>	apple - macOS	This vulnerability is due to improper validation of a specific file when it is read from system flash memory. An attacker could exploit this vulnerability by restoring a crafted backup file to an affected device. A successful exploit could allow the attacker to execute arbitrary code on the affected device after the next reload of the device, which could alter system behavior. Because the injected code could persist across device reboots, Cisco has raised the Security Impact Rating (SIR) of this advisory from Medium to High. The issue was addressed with improved checks. This issue is fixed in macOS Sonoma 14.6. A person with physical access to an unlocked Mac may be able to	2024-10-24	6.6	Medium
<u>CVE-2024-47692</u>	linux - multiple products	gain root code execution. In the Linux kernel, the following vulnerability has been resolved: nfsd: return -EINVAL when namelen is 0	2024-10-21	6.5	Medium
		When we have a corrupted main.sqlite in /var/lib/nfs/nfsdcld/, it may result in namelen being 0, which will cause memdup_user() to return ZERO_SIZE_PTR. When we access the name.data that has been assigned the value of ZERO_SIZE_PTR in nfs4_client_to_reclaim(), null pointer dereference is triggered.			
		[T1205] ====================================			

		[T1205] RDX: 00000000000042b RSI: 00007fff8c4b75f0 RDI: 000000000000008 [T1205] RBP: 00007fdbdb761bb0 R08: 000000000000000 R09: 00000000000001 [T1205] R10: 00000000000000 R11: 000000000000246 R12: 0000000000042b [T1205] R13: 0000000000008 R14: 00007fff8c4b75f0 R15: 0000000000000 [T1205] ====================================			
<u>CVE-2024-47693</u>	linux - multiple products	Fix it by checking namelen.In the Linux kernel, the following vulnerability has been resolved:IB/core: Fix ib_cache_setup_one error flow cleanupWhen ib_cache_update return an error, we exit ib_cache_setup_one instantly with no proper cleanup, even though before this we had already successfully done gid_table_setup_one, that results in the kernel WARN below.	2024-10-21	6.5	Medium

before returning		
the err in order to fix the issue.		
WARNING: CPU: 4 PID: 922 at		
drivers/infiniband/core/cache.c:806		
gid_table_release_one+0x181/0x1a0		
Modules linked in:		
CPU: 4 UID: 0 PID: 922 Comm: c_repro Not tainted		
6.11.0-rc1+ #3		
Hardware name: QEMU Standard PC (i440FX + PIIX,		
1996), BIOS rel-1.13.0-0-gf21b5a4aeb02-		
prebuilt.qemu.org 04/01/2014		
RIP: 0010:gid_table_release_one+0x181/0x1a0		
Code: 44 8b 38 75 0c e8 2f cb 34 ff 4d 8b b5 28 05 00		
00 e8 23 cb 34 ff 44 89 f9 89 da 4c 89 f6 48 c7 c7 d0		
58 14 83 e8 4f de 21 ff <0f> 0b 4c 8b 75 30 e9 54 ff ff		
ff 48 8 3 c4 10 5b 5d 41 5c 41 5d 41		
RSP: 0018:ffffc90002b835b0 EFLAGS: 00010286		
RAX: 00000000000000 RBX: 0000000000000000		
RCX: ffffffff811c8527		
RDX: 00000000000000 RSI: fffffff811c8534 RDI:		
000000000000001		
RBP: ffff8881011b3d00 R08: ffff88810b3abe00 R09:		
205d303839303631		
R10: 666572207972746e R11: 72746e6520444947		
R12: 0000000000000001		
R13: ffff888106390000 R14: ffff8881011f2110 R15:		
000000000000001		
FS: 00007fecc3b70800(0000)		
GS:ffff88813bd00000(0000)		
knlGS:000000000000000		
CS: 0010 DS: 0000 ES: 0000 CR0: 000000080050033		
CR2: 000000020000340 CR3: 00000010435a001		
CR4: 0000000003706b0		
DR0: 000000000000000 DR1: 000000000000000000000000000000000000		
DR2: 00000000000000		
DR3: 00000000000000 DR6: 0000000fffe0ff0 DR7:		
00000000000000000		
Call Trace:		
<task></task>		
? show_regs+0x94/0xa0		
? warn+0x9e/0x1c0		
? gid_table_release_one+0x181/0x1a0		
? report_bug+0x1f9/0x340		
? gid_table_release_one+0x181/0x1a0		
? gld_table_release_one+ox181/0x1a0 ? handle_bug+0xa2/0x110		
? exc_invalid_op+0x31/0xa0		
? asm_exc_invalid_op+0x16/0x20		
?warn_printk+0xc7/0x180		
?warn_printk+0xd4/0x180		
? gid_table_release_one+0x181/0x1a0		

	1		1		1
		ib_device_release+0x71/0xe0			
		?pfx_ib_device_release+0x10/0x10			
		device_release+0x44/0xd0			
		kobject_put+0x135/0x3d0			
		put_device+0x20/0x30			
		rxe_net_add+0x7d/0xa0			
		rxe_newlink+0xd7/0x190			
		nldev_newlink+0x1b0/0x2a0			
		?pfx_nldev_newlink+0x10/0x10			
		rdma_nl_rcv_msg+0x1ad/0x2e0			
		rdma_nl_rcv_skb.constprop.0+0x176/0x210			
		netlink_unicast+0x2de/0x400			
		netlink_sendmsg+0x306/0x660			
		sock_sendmsg+0x110/0x120			
		sys sendmsg+0x30e/0x390			
		sys_sendmsg+0x9b/0xf0			
		? kstrtouint+0x6e/0xa0			
		? kstrtouint_from_user+0x7c/0xb0			
		? get pid task+0xb0/0xd0			
		? proc_fail_nth_write+0x5b/0x140			
		?fget_light+0x9a/0x200			
		? preempt_count_add+0x47/0xa0			
		sys_sendmsg+0x61/0xd0			
		do_syscall_64+0x50/0x110			
CVE 2024 4772C	1	entry_SYSCALL_64_after_hwframe+0x76/0x7e	2024 10 21		D. d. a. alia ana
<u>CVE-2024-47726</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	6.5	Medium
	linux_kern	been resolved:			
	el				
		f2fs: fix to wait dio completion			
		It should wait all switting die weite 10s hefere black			
		It should wait all existing dio write IOs before block			
		removal,			
		otherwise, previous direct write IO may overwrite			
		data in the			
		block which may be reused by other inode.			
<u>CVE-2024-50311</u>	redhat -	A denial of service (DoS) vulnerability was found in	2024-10-22	6.5	Medium
	openshift	OpenShift. This flaw allows attackers to exploit the			
	_containe	GraphQL batching functionality. The vulnerability			
	r_platfor	arises when multiple queries can be sent within a			
	m	single request, enabling an attacker to submit a			
		request containing thousands of aliases in one query.			
		This issue causes excessive resource consumption,			
		leading to application unavailability for legitimate			
		users.			
<u>CVE-2024-46903</u>	trendmicr	A vulnerability in Trend Micro Deep Discovery	2024-10-22	6.5	Medium
	0 -	Inspector (DDI) versions 5.8 and above could allow an			
	multiple	attacker to disclose sensitive information affected			
	products	installations.			

		Please note: an attacker must first obtain the ability to execute low-privileged code on the target system in order to exploit this vulnerability.			
<u>CVE-2024-20340</u>	cisco - multiple products	A vulnerability in the web-based management interface of Cisco Secure Firewall Management Center (FMC) Software, formerly Firepower Management Center Software, could allow an authenticated, remote attacker to perform an SQL injection attack against an affected device. To exploit this vulnerability, an attacker must have a valid account on the device with the role of Security Approver, Intrusion Admin, Access Admin, or Network Admin.	2024-10-23	6.5	Medium
		This vulnerability is due to insufficient validation of user-supplied input. An attacker could exploit this vulnerability by sending a crafted HTTP request to the web-based management interface of an affected device. A successful exploit could allow the attacker to read the contents of databases on the affected device and also obtain limited read access to the underlying operating system.			
<u>CVE-2024-20374</u>	cisco - Cisco Firepower Managem ent Center	A vulnerability in the web-based management interface of Cisco Secure Firewall Management Center (FMC) Software, formerly Firepower Management Center Software, could allow an authenticated, remote attacker with Administrator- level privileges to execute arbitrary commands on the underlying operating system.	2024-10-23	6.5	Medium
		This vulnerability is due to insufficient input validation of certain HTTP request parameters that are sent to the web-based management interface. An attacker could exploit this vulnerability by authenticating to the Cisco FMC web-based management interface and sending a crafted HTTP request to an affected device. A successful exploit could allow the attacker to execute commands as the root user on the affected device. To exploit this vulnerability, an attacker would need Administrator- level credentials.			
<u>CVE-2024-20379</u>	cisco - multiple products	A vulnerability in the web-based management interface of Cisco Secure Firewall Management Center (FMC) Software, formerly Firepower Management Center Software, could allow an authenticated, remote attacker to read arbitrary files from the underlying operating system.	2024-10-23	6.5	Medium

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CVE-2024-20471	cisco -	This vulnerability exists because the web-based management interface does not properly validate user-supplied input. An attacker could exploit this vulnerability by sending a crafted HTTP request to an affected device. A successful exploit could allow the attacker to read arbitrary files on the underlying operating system of the affected device. The attacker would need valid user credentials to exploit this vulnerability. A vulnerability in the web-based management	2024-10-23	6.5	Medium
	multiple products	interface of Cisco Secure Firewall Management Center (FMC) Software could allow an authenticated, remote attacker to conduct SQL injection attacks on an affected system.	2024 10 23	0.5	Weatan
		This vulnerability exists because the web-based management interface does not validate user input adequately. An attacker could exploit this vulnerability by authenticating to the application as an Administrator and sending crafted SQL queries to an affected system. A successful exploit could allow the attacker to obtain unauthorized data from the database and make changes to the system. To exploit this vulnerability, an attacker would need Administrator-level privileges.			
<u>CVE-2024-20472</u>	cisco - multiple products	A vulnerability in the web-based management interface of Cisco Secure Firewall Management Center (FMC) Software could allow an authenticated, remote attacker to conduct SQL injection attacks on an affected system.	2024-10-23	6.5	Medium
		This vulnerability exists because the web-based management interface does not validate user input adequately. An attacker could exploit this vulnerability by authenticating to the application as an Administrator and sending crafted SQL queries to an affected system. A successful exploit could allow the attacker to obtain unauthorized data from the database and make changes to the system. To exploit this vulnerability, an attacker would need Administrator-level privileges.			
<u>CVE-2024-20473</u>	cisco - multiple products	A vulnerability in the web-based management interface of Cisco Secure Firewall Management Center (FMC) Software could allow an authenticated, remote attacker to conduct SQL injection attacks on an affected system.	2024-10-23	6.5	Medium

		This vulnerability exists because the web-based management interface does not validate user input adequately. An attacker could exploit this vulnerability by authenticating to the application as an Administrator and sending crafted SQL queries to an affected system. A successful exploit could allow the attacker to obtain unauthorized data from the database and make changes to the system. To exploit this vulnerability, an attacker would need Administrator-level privileges.			
<u>CVE-2024-20474</u>	cisco - multiple products	A vulnerability in Internet Key Exchange version 2 (IKEv2) processing of Cisco Secure Client Software could allow an unauthenticated, remote attacker to cause a denial of service (DoS) of Cisco Secure Client.	2024-10-23	6.5	Medium
		This vulnerability is due to an integer underflow condition. An attacker could exploit this vulnerability by sending a crafted IKEv2 packet to an affected system. A successful exploit could allow the attacker to cause Cisco Secure Client Software to crash, resulting in a DoS condition on the client software.			
		Note: Cisco Secure Client Software releases 4.10 and earlier were known as Cisco AnyConnect Secure Mobility Client.			
<u>CVE-2024-20482</u>	cisco - multiple products	A vulnerability in the web-based management interface of Cisco Secure Firewall Management Center (FMC) Software, formerly Firepower Management Center Software, could allow an authenticated, remote attacker to elevate privileges on an affected device. To exploit this vulnerability, an attacker must have a valid account on the device that is configured with a custom read-only role.	2024-10-23	6.5	Medium
		This vulnerability is due to insufficient validation of role permissions in part of the web-based management interface. An attacker could exploit this vulnerability by performing a write operation on the affected part of the web-based management interface. A successful exploit could allow the attacker to modify certain parts of the configuration.			
<u>CVE-2024-47481</u>	dell - multiple products	Dell Data Lakehouse, version(s) 1.0.0.0, 1.1.0., contain(s) an Improper Access Control vulnerability. An unauthenticated attacker with adjacent network access could potentially exploit this vulnerability, leading to Denial of service.	2024-10-25	6.5	Medium

CVE-2024-8980	liferay -	The Script Console in Liferay Portal 7.0.0 through	2024-10-22	6.1	Medium
<u>CVE-2024-6960</u>	multiple	7.4.3.101, and Liferay DXP 2023.Q3.1 through	2024-10-22	0.1	Weuluin
	products	2023.Q3.4, 7.4 GA through update 92, 7.3 GA through			
	products	update 35, 7.2 GA through fix pack 20, 7.1 GA			
		through fix pack 28, 7.0 GA through fix pack 102 and			
		6.2 GA through fix pack 173			
		does not sufficiently protect against Cross-Site			
		Request Forgery (CSRF) attacks, which allows remote			
		attackers to execute arbitrary Groovy script via a			
		crafted URL or a XSS vulnerability.			
CVE-2024-20273	cisco -	A vulnerability in the web-based management	2024-10-23	6.1	Medium
<u>CVE-2024-20275</u>	multiple	interface of Cisco Firepower Management Center	2024-10-25	0.1	weuluitt
	products	(FMC) Software could allow an unauthenticated,			
	products	remote attacker to conduct a cross-site scripting (XSS)			
		attack against a user of the interface of an affected			
		device. This vulnerability is due to insufficient validation of user-supplied input by the web-based			
		management interface. An attacker could exploit this			
		-			
		vulnerability by inserting crafted input into various data fields in an affected interface. A successful			
		exploit could allow the attacker to execute arbitrary			
		script code in the context of the interface, or access			
CVE-2024-20275	cisco -	sensitive, browser-based information. A vulnerability in the cluster backup feature of Cisco	2024-10-23	6.1	Medium
<u>CVE-2024-20275</u>	Cisco -	Secure Firewall Management Center (FMC) Software,	2024-10-25	0.1	weuluitt
	Firepower	formerly Firepower Management Center Software,			
	Managem	could allow an authenticated, remote attacker to			
	ent Center	execute arbitrary commands on the underlying			
	chi center	operating system.			
		This vulnerability is due to insufficient validation of			
		user data that is supplied through the web-based			
		management interface. An attacker could exploit this			
		vulnerability by sending a crafted HTTP request to an			
		affected device. A successful exploit could allow the			
		attacker to execute arbitrary operating system			
		commands on the affected device. To exploit this			
		vulnerability, an attacker would need valid			
		credentials for a user account with at least the role of			
		Network Administrator. In addition, the attacker			
		would need to persuade a legitimate user to initiate a			
		cluster backup on the affected device.			
CVE-2024-20341	cisco -	A vulnerability in the VPN web client services feature	2024-10-23	6.1	Medium
	multiple	of Cisco Adaptive Security Appliance (ASA) Software			
	products	and Cisco Firepower Threat Defense (FTD) Software			
	-	could allow an unauthenticated, remote attacker to			
		conduct a cross-site scripting (XSS) attack against a			
		browser that is accessing an affected device. This			
		vulnerability is due to improper validation of user-			

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		supplied input to application endpoints. An attacker			
		could exploit this vulnerability by persuading a user			
		to follow a link designed to submit malicious input to			
		the affected application. A successful exploit could			
		allow the attacker to execute arbitrary HTML or script			
		code in the browser in the context of the web			
		services page.			
<u>CVE-2024-20372</u>	cisco -	A vulnerability in the web-based management	2024-10-23	6.1	Medium
	Cisco	interface of Cisco Firepower Management Center			
	Firepower	(FMC) Software could allow an unauthenticated,			
	Managem	remote attacker to conduct a stored cross-site			
	ent Center	scripting (XSS) attack against a user of the interface of			
		an affected device. This vulnerability is due to			
		insufficient validation of user-supplied input by the			
		web-based management interface. An attacker could			
		exploit this vulnerability by inserting crafted input			
		into various data fields in an affected interface. A			
		successful exploit could allow the attacker to execute			
		arbitrary script code in the context of the interface,			
		or access sensitive, browser-based information.			
<u>CVE-2024-20382</u>	cisco -	A vulnerability in the VPN web client services feature	2024-10-23	6.1	Medium
	multiple	of Cisco Adaptive Security Appliance (ASA) Software			
	products	and Cisco Firepower Threat Defense (FTD) Software			
		could allow an unauthenticated, remote attacker to			
		conduct a cross-site scripting (XSS) attack against a			
		browser that is accessing an affected device. This			
		vulnerability is due to improper validation of user-			
		supplied input to application endpoints. An attacker			
		could exploit this vulnerability by persuading a user			
		to follow a link designed to submit malicious input to			
		the affected application. A successful exploit could			
		allow the attacker to execute arbitrary HTML or script			
		code in the browser in the context of the web			
		services page.			
<u>CVE-2024-20415</u>	cisco -	A vulnerability in the web-based management	2024-10-23	6.1	Medium
	multiple	interface of Cisco Firepower Management Center			
	products	(FMC) Software could allow an unauthenticated,			
		remote attacker to conduct a cross-site scripting (XSS)			
		attack against a user of the interface of an affected			
		device. This vulnerability is due to insufficient			
		validation of user-supplied input by the web-based			
		management interface. An attacker could exploit this			
		vulnerability by inserting crafted input into various			
		data fields in an affected interface. A successful			
		exploit could allow the attacker to execute arbitrary			
		script code in the context of the interface, or access			
		sensitive, browser-based information.			
CVE-2024-20370	cisco -	A vulnerability in the Cisco FXOS CLI feature on	2024-10-23	6	Medium
	multiple	specific hardware platforms for Cisco Adaptive			
	products	Security Appliance (ASA) Software and Cisco			
		Firepower Threat Defense (FTD) Software could allow			

		an authenticated, local attacker to elevate their administrative privileges to root. The attacker would need valid administrative credentials on the device to exploit this vulnerability. This vulnerability exists because certain system configurations and executable files have insecure storage and permissions. An attacker could exploit this vulnerability by authenticating on the device and then performing a series of steps that includes downloading malicious system files and accessing the Cisco FXOS CLI to configure the attack. A successful			
		exploit could allow the attacker to obtain root access			
<u>CVE-2024-20331</u>	cisco - multiple products	on the device. A vulnerability in the session authentication functionality of the Remote Access SSL VPN feature of Cisco Adaptive Security Appliance (ASA) Software and Cisco Firepower Threat Defense (FTD) Software could allow an unauthenticated, remote attacker to prevent users from authenticating.	2024-10-23	5.9	Medium
		This vulnerability is due to insufficient entropy in the authentication process. An attacker could exploit this vulnerability by determining the handle of an authenticating user and using it to terminate their authentication session. A successful exploit could allow the attacker to force a user to restart the authentication process, preventing a legitimate user from establishing remote access VPN sessions.			
<u>CVE-2024-10295</u>	red hat - Red Hat 3scale API Managem ent Platform 2	A flaw was found in Gateway. Sending a non-base64 'basic' auth with special characters can cause APICast to incorrectly authenticate a request. A malformed basic authentication header containing special characters bypasses authentication and allows unauthorized access to the backend. This issue can occur due to a failure in the base64 decoding process, which causes APICast to skip the rest of the authentication checks and proceed with routing the request upstream.	2024-10-24	5.9	Medium
<u>CVE-2024-38314</u>	ibm - Maximo Applicatio n Suite - Monitor Compone nt	IBM Maximo Application Suite - Monitor Component 8.10, 8.11, and 9.0 could disclose information in the form of the hard-coded cryptographic key to an attacker that has compromised environment.	2024-10-24	5.9	Medium
CVE-2024-20297	cisco - multiple products	A vulnerability in the AnyConnect firewall for Cisco Adaptive Security Appliance (ASA) Software and Cisco Firepower Threat Defense (FTD) Software could allow an unauthenticated, remote attacker to bypass a	2024-10-23	5.8	Medium

			-		
		configured access control list (ACL) and allow traffic			
		that should have been denied to flow through an			
		affected device. This vulnerability is due to a logic			
		error in populating group ACLs when an AnyConnect			
		client establishes a new session toward an affected			
		device. An attacker could exploit this vulnerability by			
		establishing an AnyConnect connection to the			
		affected device. A successful exploit could allow the			
		attacker to bypass configured ACL rules.			
CVE-2024-20299	cisco -	A vulnerability in the AnyConnect firewall for Cisco	2024-10-23	5.8	Medium
	multiple	Adaptive Security Appliance (ASA) Software and Cisco			
	products	Firepower Threat Defense (FTD) Software could allow			
	P	an unauthenticated, remote attacker to bypass a			
		configured access control list (ACL) and allow traffic			
		that should have been denied to flow through an			
		affected device. This vulnerability is due to a logic			
		error in populating group ACLs when an AnyConnect			
		client establishes a new session toward an affected			
		device. An attacker could exploit this vulnerability by			
		establishing an AnyConnect connection to the			
		affected device. A successful exploit could allow the			
CV/F 2024 20242		attacker to bypass configured ACL rules.	2024 10 22	F 0	N. A. a. a. Li a.
CVE-2024-20342	cisco -	Multiple Cisco products are affected by a vulnerability	2024-10-23	5.8	Medium
	Cisco	in the rate filtering feature of the Snort detection			
	Firepower	engine that could allow an unauthenticated, remote			
	Threat	attacker to bypass a configured rate limiting filter.			
	Defense				
	Software				
		This vulnerability is due to an incorrect connection			
		count comparison. An attacker could exploit this			
		vulnerability by sending traffic through an affected			
		device at a rate that exceeds a configured rate filter.			
		A successful exploit could allow the attacker to			
		successfully bypass the rate filter. This could allow			
		unintended traffic to enter the network protected by			
		the affected device.			
CVE-2024-20384	cisco -	A vulnerability in the Network Service Group (NSG)	2024-10-23	5.8	Medium
	multiple	feature of Cisco Adaptive Security Appliance (ASA)			
	products	Software and Cisco Firepower Threat Defense (FTD)			
		Software could allow an unauthenticated, remote			
		attacker to bypass a configured access control list			
		(ACL) and allow traffic that should be denied to flow			
		through an affected device.			
		This vulnerability is due to a logic error that occurs			
		when NSG ACLs are populated on an affected device.			
		An attacker could exploit this vulnerability by			
		establishing a connection to the affected device. A			
L		establishing a connection to the affected device. A			

		successful exploit could allow the attacker to bypass configured ACL rules.			
<u>CVE-2024-20407</u>	cisco - Cisco Firepower Threat Defense Software	A vulnerability in the interaction between the TCP Intercept feature and the Snort 3 detection engine on Cisco Firepower Threat Defense (FTD) Software could allow an unauthenticated, remote attacker to bypass configured policies on an affected system. Devices that are configured with Snort 2 are not affected by this vulnerability.	2024-10-23	5.8	Medium
		This vulnerability is due to a logic error when handling embryonic (half-open) TCP connections. An attacker could exploit this vulnerability by sending a crafted traffic pattern through an affected device. A successful exploit could allow unintended traffic to enter the network protected by the affected device.			
<u>CVE-2024-20431</u>	cisco - Cisco Firepower Threat Defense Software	A vulnerability in the geolocation access control feature of Cisco Firepower Threat Defense (FTD) Software could allow an unauthenticated, remote attacker to bypass an access control policy. This vulnerability is due to improper assignment of geolocation data. An attacker could exploit this vulnerability by sending traffic through an affected device. A successful exploit could allow the attacker to bypass a geolocation-based access control policy and successfully send traffic to a protected device.	2024-10-23	5.8	Medium
<u>CVE-2024-20481</u>	cisco - multiple products	A vulnerability in the Remote Access VPN (RAVPN) service of Cisco Adaptive Security Appliance (ASA) Software and Cisco Firepower Threat Defense (FTD) Software could allow an unauthenticated, remote attacker to cause a denial of service (DoS) of the RAVPN service. This vulnerability is due to resource exhaustion. An attacker could exploit this vulnerability by sending a large number of VPN authentication requests to an affected device. A successful exploit could allow the attacker to exhaust resources, resulting in a DoS of the RAVPN service on the affected device. Depending on the impact of the attack, a reload of the device may be required to restore the RAVPN service. Services that are not related to VPN are not affected.	2024-10-23	5.8	Medium
		Cisco Talos discussed these attacks in the blog post Large-scale brute-force activity targeting VPNs, SSH services with commonly used login credentials.			

<u>CVE-2024-47677</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple products	been resolved:			
	products	exfat: resolve memory leak from			
		exfat_create_upcase_table()			
		If exfat_load_upcase_table reaches end and returns -			
		EINVAL,			
		allocated memory doesn't get freed and while exfat_load_default_upcase_table allocates more			
		memory, leading to a			
		memory leak.			
		Here's link to syzkaller crash report illustrating this			
		issue:			
		https://syzkaller.appspot.com/text?tag=CrashReport &x=1406c201980000			
<u>CVE-2024-47678</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple products	been resolved:			
	p	icmp: change the order of rate limits			
		ICMP messages are ratelimited :			
		Telvir messages are rateminited .			
		After the blamed commits, the two rate limiters are			
		applied in this order:			
		1) host wide ratelimit (icmp_global_allow())			
		2) Per destination ratelimit (inetpeer based)			
		In order to avoid side-channels attacks, we need to			
		apply the per destination check first.			
		This patch makes the following change :			
		1) icmp_global_allow() checks if the host wide limit is			
		reached.			
		But credits are not yet consumed. This is deferred to 3)			
		2) The per destination limit is checked/updated.			
		This might add a new node in inetpeer tree.			
		 icmp_global_consume() consumes tokens if prior operations succeeded. 			
		This means that host wide ratelimit is still effective			
		in keeping inetpeer tree small even under DDOS.			

		As a bonus, I removed icmp_global.lock as the fast path can use a lock-free operation.			
<u>CVE-2024-47680</u>	linux - multiple products	In the Linux kernel, the following vulnerability has been resolved: f2fs: check discard support for conventional zones As the helper function f2fs_bdev_support_discard()	2024-10-21	5.5	Medium
		shows, f2fs checks if the target block devices support discard by calling bdev_max_discard_sectors() and bdev_is_zoned(). This check works well for most cases, but it does not work for conventional zones on zoned			
		<pre>block devices. F2fs assumes that zoned block devices support discard, and callssubmit_discard_cmd(). Whensubmit_discard_cmd() is called for sequential write required zones, it works fine since</pre>			
		submit_discard_cmd() issues zone reset commands instead of discard commands. However, whensubmit_discard_cmd() is called for conventional zones,blkdev_issue_discard() is called even when the			
		devices do not support discard. The inappropriateblkdev_issue_discard() call was not a problem before the commit 30f1e7241422 ("block: move discard checks into the joctl			
		handler") becauseblkdev_issue_discard() checked if the target devices support discard or not. If not, it returned EOPNOTSUPP. After the commit,blkdev_issue_discard() no longer checks it.			
		It always returns zero and sets NULL to the given bio pointer. This NULL pointer triggers f2fs_bug_on() insubmit_discard_cmd(). The BUG is recreated with the commands below at the umount step, where			
		/dev/nullb0 is a zoned null_blk with 5GB total size, 128MB zone size and 10 conventional zones. \$ mkfs.f2fs -f -m /dev/nullb0			
		\$ mount /dev/nullb0 /mnt \$ for ((i=0;i<5;i++)); do dd if=/dev/zero of=/mnt/test			

				1	
		bs=65536 count=1600 conv=fsync; done			
		\$ umount /mnt			
		To fix the BUG, avoid the inappropriate			
		blkdev_issue_discard() call.			
		When discard is requested for conventional zones,			
		check if the device			
		supports discard or not. If not, return EOPNOTSUPP.			
CVE-2024-47681	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
	•	wifi: mt76: mt7996: fix NULL pointer dereference in			
		mt7996_mcu_sta_bfer_he			
		Fix the NULL pointer dereference in			
		mt7996_mcu_sta_bfer_he			
		routine adding an sta interface to the mt7996 driver.			
		Found by code review.			
	linuv	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>CVE-2024-47683</u>	linux - multiple	been resolved:	2024-10-21	5.5	weaturn
	•	been resolved:			
	products				
		drm/amd/display: Skip Recompute DSC Params if no			
		Stream on Link			
		[why]			
		Encounter NULL pointer dereference uner mst + dsc			
		setup.			
		BUG: kernel NULL pointer dereference, address:			
		00000000000008			
		PGD 0 P4D 0			
		Oops: 0000 [#1] PREEMPT SMP NOPTI			
		CPU: 4 PID: 917 Comm: sway Not tainted 6.3.9-			
		arch1-1 #1			
		124dc55df4f5272ccb409f39ef4872fc2b3376a2			
		Hardware name: LENOVO			
		20NKS01Y00/20NKS01Y00, BIOS R12ET61W(1.31)			
		07/28/2022			
		RIP:			
		0010:drm dp atomic find time slots+0x5e/0x260			
		[drm_display_helper]			
		Code: 01 00 00 48 8b 85 60 05 00 00 48 63 80 88 00			
		00 00 3b 43 28 0f 8d 2e 01 00 00 48 8b 53 30 48 8d			
		04 80 48 8d 04 c2 48 8b 40 18 <48> 8>			
		RSP: 0018:ffff960cc2df77d8 EFLAGS: 00010293			
		RAX: 00000000000000 RBX: ffff8afb87e81280			
		RCX: 00000000000224			
		RDX: ffff8afb9ee37c00 RSI: ffff8afb8da1a578 RDI:			
		ffff8afb87e81280			
		RBP: ffff8afb83d67000 R08: 0000000000000001			

		R09: ffff8afb9652f850			
		R10: ffff960cc2df7908 R11: 0000000000000002			
		R12: 00000000000000			
		R13: ffff8afb8d7688a0 R14: ffff8afb8da1a578 R15:			
		00000000000224			
		FS: 00007f4dac35ce00(0000)			
		GS:ffff8afe30b0000(0000)			
		knlGS:00000000000000			
		CS: 0010 DS: 0000 ES: 0000 CR0:			
		000000080050033			
		CR2: 000000000000008 CR3: 00000010ddc6000			
		CR4: 000000003506e0			
		Call Trace:			
		<task></task>			
		?die+0x23/0x70			
		? page_fault_oops+0x171/0x4e0			
		? plist_add+0xbe/0x100			
		? exc_page_fault+0x7c/0x180			
		? asm_exc_page_fault+0x26/0x30			
		? drm_dp_atomic_find_time_slots+0x5e/0x260			
		[drm_display_helper			
		0e67723696438d8e02b741593dd50d80b44c2026]			
		? drm_dp_atomic_find_time_slots+0x28/0x260			
		[drm_display_helper			
		0e67723696438d8e02b741593dd50d80b44c2026]			
		compute_mst_dsc_configs_for_link+0x2ff/0xa40			
		[amdgpu			
		62e600d2a75e9158e1cd0a243bdc8e6da040c054]			
		? fill_plane_buffer_attributes+0x419/0x510			
		[amdgpu			
		62e600d2a75e9158e1cd0a243bdc8e6da040c054]			
		compute_mst_dsc_configs_for_state+0x1e1/0x250			
		[amdgpu			
		62e600d2a75e9158e1cd0a243bdc8e6da040c054]			
		amdgpu_dm_atomic_check+0xecd/0x1190			
		[amdgpu			
		62e600d2a75e9158e1cd0a243bdc8e6da040c054]			
		drm_atomic_check_only+0x5c5/0xa40			
		drm_mode_atomic_ioctl+0x76e/0xbc0			
		[how]			
		dsc recompute should be skipped if no mode change			
		detected on the new			
		request. If detected, keep checking whether the			
		stream is already on			
		current state or not.			
CVE-2024-47684	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
012 2021 17004	multiple	been resolved:		5.5	meanann
	products				
	P. 000005	tcp: check skb is non-NULL in tcp_rto_delta_us()			
					l

We have some machines running stock Ubuntu		
20.04.6 which is their 5.4.0-174-generic		
kernel that are running ceph and recently hit a null		
ptr dereference in		
tcp_rearm_rto(). Initially hitting it from the TLP path,		
but then later we also		
saw it getting hit from the RACK case as well. Here		
are examples of the oops		
messages we saw in each of those cases:		
Jul 26 15:05:02 rx [11061395.780353] BUG: kernel		
NULL pointer dereference, address:		
000000000000000000000000000000000000000		
Jul 26 15:05:02 rx [11061395.787572] #PF: supervisor		
read access in kernel mode		
Jul 26 15:05:02 rx [11061395.792971] #PF:		
error code(0x0000) - not-present page		
Jul 26 15:05:02 rx [11061395.798362] PGD 0 P4D 0		
Jul 26 15:05:02 rx [11061395.801164] Oops: 0000		
[#1] SMP NOPTI		
Jul 26 15:05:02 rx [11061395.805091] CPU: 0 PID:		
9180 Comm: msgr-worker-1 Tainted: G W 5.4.0-174-		
generic #193-Ubuntu		
Jul 26 15:05:02 rx [11061395.814996] Hardware		
name: Supermicro SMC 2x26 os-gen8 64C NVME-Y		
256G/H12SSW-NTR, BIOS 2.5.V1.2U.NVMe.UEFI		
05/09/2023		
Jul 26 15:05:02 rx [11061395.825952] RIP:		
0010:tcp_rearm_rto+0xe4/0x160		
Jul 26 15:05:02 rx [11061395.830656] Code: 87 ca 04		
00 00 00 5b 41 5c 41 5d 5d c3 c3 49 8b bc 24 40 06 00		
00 eb 8d 48 bb cf f7 53 e3 a5 9b c4 20 4c 89 ef e8 0c		
fe 0e 00 <48> 8b 78 20 48 c1 ef 03 48 89 f8 41 8b bc		
24 80 04 00 00 48 f7 e3		
Jul 26 15:05:02 rx [11061395.849665] RSP:		
0018:ffffb75d40003e08 EFLAGS: 00010246		
Jul 26 15:05:02 rx [11061395.855149] RAX:		
000000000000000 RBX: 20c49ba5e353f7cf RCX:		
00000000000000		
Jul 26 15:05:02 rx [11061395.862542] RDX:		
000000062177c30 RSI: 00000000000231c RDI:		
ffff9874ad283a60		
Jul 26 15:05:02 rx [11061395.869933] RBP:		
ffffb75d40003e20 R08: 0000000000000000 R09:		
ffff987605e20aa8		
Jul 26 15:05:02 rx [11061395.877318] R10:		
ffffb75d40003f00 R11: ffffb75d4460f740 R12:		
ffff9874ad283900		
Jul 26 15:05:02 rx [11061395.884710] R13:		
ffff9874ad283a60 R14: ffff9874ad283980 R15:		
	1 1	1

		1	
	ffff9874ad283d30		
	Jul 26 15:05:02 rx [11061395.892095] FS:		
	00007f1ef4a2e700(0000) GS:ffff987605e00000(0000)		
	knlGS:00000000000000		
	Jul 26 15:05:02 rx [11061395.900438] CS: 0010 DS:		
	0000 ES: 0000 CR0: 000000080050033		
	Jul 26 15:05:02 rx [11061395.906435] CR2:		
	00000000000000020 CR3: 0000003e450ba003 CR4:		
	00000000760ef0		
	Jul 26 15:05:02 rx [11061395.913822] PKRU:		
	55555554		
	Jul 26 15:05:02 rx [11061395.916786] Call Trace:		
	Jul 26 15:05:02 rx [11061395.919488]		
	Jul 26 15:05:02 rx [11061395.921765] ?		
	show_regs.cold+0x1a/0x1f		
	Jul 26 15:05:02 rx [11061395.925859] ?		
	die+0x90/0xd9		
	Jul 26 15:05:02 rx [11061395.929169] ?		
	no_context+0x196/0x380		
	Jul 26 15:05:02 rx [11061395.933088] ?		
	ip6_protocol_deliver_rcu+0x4e0/0x4e0		
	Jul 26 15:05:02 rx [11061395.938216] ?		
	ip6_sublist_rcv_finish+0x3d/0x50		
	Jul 26 15:05:02 rx [11061395.943000] ?		
	bad_area_nosemaphore+0x50/0x1a0		
	Jul 26 15:05:02 rx [11061395.947873] ?		
	bad_area_nosemaphore+0x16/0x20		
	Jul 26 15:05:02 rx [11061395.952486] ?		
	do_user_addr_fault+0x267/0x450		
	Jul 26 15:05:02 rx [11061395.957104] ?		
	ipv6_list_rcv+0x112/0x140		
	Jul 26 15:05:02 rx [11061395.961279] ?		
	do_page_fault+0x58/0x90		
	Jul 26 15:05:02 rx [11061395.965458] ?		
	do_page_fault+0x2c/0xe0		
	Jul 26 15:05:02 rx [11061395.969465] ?		
	page_fault+0x34/0x40		
	Jul 26 15:05:02 rx [11061395.973217] ?		
	tcp_rearm_rto+0xe4/0x160		
	Jul 26 15:05:02 rx [11061395.977313] ?		
	tcp_rearm_rto+0xe4/0x160		
	Jul 26 15:05:02 rx [11061395.981408]		
	tcp_send_loss_probe+0x10b/0x220		
	Jul 26 15:05:02 rx [11061395.985937]		
	tcp_write_timer_handler+0x1b4/0x240		
	Jul 26 15:05:02 rx [11061395.990809]		
	tcp_write_timer+0x9e/0xe0		
	Jul 26 15:05:02 rx [11061395.994814] ?		
	tcp_write_timer_handler+0x240/0x240		
	Jul 26 15:05:02 rx [11061395.999866]		
	call timer fn+0x32/0x130		
<u> </u>		1	I

		Jul 26 15:05:02 rx [11061396.003782]			
		run_timers.part.0+0x180/0x280			
		Jul 26 15:05:02 rx [11061396.008309] ?			
		recalibrate_cpu_khz+0x10/0x10			
		Jul 26 15:05:02 rx [11061396.012841] ?			
		native_x2apic_icr_write+0x30/0x30			
		Jul 26 15:05:02 rx [11061396.017718] ?			
		lapic_next_even			
		truncated			
<u>CVE-2024-47687</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		vdpa/mlx5: Fix invalid mr resource destroy			
		Certain error paths from mlx5_vdpa_dev_add() can			
		end up releasing mr			
		resources which never got initialized in the first place.			
		This patch adds the missing check in			
		mlx5_vdpa_destroy_mr_resources()			
		to block releasing non-initialized mr resources.			
		Reference trace:			
		mlx5_core 0000:08:00.2:			
		mlx5_vdpa_dev_add:3274:(pid 2700) warning: No			
		mac address provisioned?			
		BUG: kernel NULL pointer dereference, address:			
		00000000000000			
		<pre>#PF: supervisor read access in kernel mode</pre>			
		<pre>#PF: error_code(0x0000) - not-present page</pre>			
		PGD 140216067 P4D 0			
		Oops: 0000 [#1] PREEMPT SMP NOPTI			
		CPU: 8 PID: 2700 Comm: vdpa Kdump: loaded Not			
		tainted 5.14.0-496.el9.x86_64 #1			
		Hardware name: QEMU Standard PC (Q35 + ICH9,			
		2009), BIOS rel-1.13.0-0-gf21b5a4aeb02-			
		prebuilt.qemu.org 04/01/2014			
		RIP: 0010:vhost_iotlb_del_range+0xf/0xe0			
		[vhost_iotlb]			
		Code: []			
		RSP: 0018:ff1c823ac23077f0 EFLAGS: 00010246			
		RAX: ffffffffc1a21a60 RBX: ffffffff899567a0 RCX:			
		00000000000000			
		RDX: fffffffffffffff RSI: 00000000000000 RDI:			
		000000000000000			
		RBP: ff1bda1f7c21e800 R08: 0000000000000000			
		R09: ff1c823ac2307670			
		R10: ff1c823ac2307668 R11: fffffff8a9e7b68 R12:			
		000000000000000			
		R13: 000000000000000 R14: ff1bda1f43e341a0			
		113.00000000000000000000000000000000000		1	

R15: 0000000ffffffea		
FS: 00007f56eba7c740(0000)		
GS:ff1bda269f800000(0000)		
knlGS:00000000000000		
CS: 0010 DS: 0000 ES: 0000 CR0:		
000000080050033		
CR2: 00000000000000 CR3: 000000104d90001		
CR4: 000000000771ef0		
DR0: 00000000000000 DR1: 000000000000000000000000000000000000		
DR2: 00000000000000		
DR3: 000000000000000 DR6: 0000000fffe0ff0		
DR7: 000000000000400		
PKRU: 55555554		
Call Trace:		
? show_trace_log_lvl+0x1c4/0x2df		
? show_trace_log_lvl+0x1c4/0x2df		
? mlx5 vdpa free+0x3d/0x150 [mlx5 vdpa]		
?diebody.cold+0x8/0xd		
? page fault oops+0x134/0x170		
?irq_work_queue_local+0x2b/0xc0		
? irq_work_queue+0x2c/0x50		
? exc_page_fault+0x62/0x150		
? asm_exc_page_fault+0x22/0x30		
?pfx_mlx5_vdpa_free+0x10/0x10 [mlx5_vdpa]		
? vhost_iotlb_del_range+0xf/0xe0 [vhost_iotlb]		
mlx5_vdpa_free+0x3d/0x150 [mlx5_vdpa]		
vdpa_release_dev+0x1e/0x50 [vdpa]		
device_release+0x31/0x90		
kobject_cleanup+0x37/0x130		
mlx5_vdpa_dev_add+0x2d2/0x7a0 [mlx5_vdpa]		
vdpa_nl_cmd_dev_add_set_doit+0x277/0x4c0		
[vdpa]		
genl_family_rcv_msg_doit+0xd9/0x130		
genl_family_rcv_msg+0x14d/0x220		
?		
fx_vdpa_nl_cmd_dev_add_set_doit+0x10/0x10		
[vdpa]		
? _copy_to_user+0x1a/0x30		
? move_addr_to_user+0x4b/0xe0		
genl_rcv_msg+0x47/0xa0		
?import_iovec+0x46/0x150		
?pfx_genl_rcv_msg+0x10/0x10		
netlink_rcv_skb+0x54/0x100		
genl_rcv+0x24/0x40		
netlink_unicast+0x245/0x370		
netlink_sendmsg+0x206/0x440		
sys_sendto+0x1dc/0x1f0		
? do_read_fault+0x10c/0x1d0		
? do_pte_missing+0x10d/0x190		
x64_sys_sendto+0x20/0x30		
	1 1	

			1	-	
		do_syscall_64+0x5c/0xf0			
		?count_memcg_events+0x4f/0xb0			
		? mm_account_fault+0x6c/0x100			
		? handle_mm_fault+0x116/0x270			
		? do_user_addr_fault+0x1d6/0x6a0			
		? do_syscall_64+0x6b/0xf0			
		? clear_bhb_loop+0x25/0x80			
		? clear_bhb_loop+0x25/0x80			
		? clear_bhb_loop+0x25/0x80			
		? clear bhb loop+0x25/0x80			
		? clear_bhb_loop+0x25/0x80			
		entry_SYSCALL_64_after_hwframe+0x78/0x80			
<u>CVE-2024-47688</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		driver core: Fix a potential null-ptr-deref in			
		module_add_driver()			
		Inject fault while probing of-fpga-region, if kasprintf()			
		fails in			
		module_add_driver(), the second sysfs_remove_link()			
		in exit path will cause			
		null-ptr-deref as below because kernfs_name_hash()			
		will call strlen() with			
		NULL driver_name.			
		Fix it hy releasing resources based on the exit path			
		Fix it by releasing resources based on the exit path			
		sequence.			
		KASAN: null-ptr-deref in range			
		[0x0000000000000-0x000000000000007]			
		Mem abort info:			
		ESR = 0x000000096000005			
		EC = 0x25: DABT (current EL), IL = 32 bits			
		SET = 0, FnV = 0			
		EA = 0, $S1PTW = 0$			
		FSC = 0x05: level 1 translation fault			
		Data abort info:			
		ISV = 0, ISS = 0x00000005, ISS2 = 0x00000000			
		CM = 0, $WnR = 0$, $TnD = 0$, $TagAccess = 0$			
		GCS = 0, $Overlay = 0$, $DirtyBit = 0$, $Xs = 0$			
		[dfffffc00000000] address between user and kernel			
		address ranges			
		Internal error: Oops: 000000096000005 [#1]			
		PREEMPT SMP			
		Dumping ftrace buffer:			
		(ftrace buffer empty)			
		Modules linked in: of_fpga_region(+) fpga_region			
		fpga_bridge cfg80211 rfkill 8021q garp mrp stp llc			
		ipv6 [last unloaded: of_fpga_region]			
		CPU: 2 UID: 0 PID: 2036 Comm: modprobe Not			
			l		l

tainted 6.11.0-rc2-g6a0e38264012 #295	
Hardware name: linux,dummy-virt (DT)	
pstate: 60000005 (nZCv daif -PAN -UAO -TCO -DIT -	
SSBS BTYPE=)	
pc : strlen+0x24/0xb0	
lr : kernfs_name_hash+0x1c/0xc4	
sp : ffffffc081f97380	
x29: ffffffc081f97380 x28: ffffffc081f97b90 x27:	
ffffff80c821c2a0	
x26: ffffffedac0be418 x25: 000000000000000 x24:	
ffffff80c09d2000	
x23: 00000000000000 x22: 000000000000000	
x21: 00000000000000	
x20: 00000000000000 x19: 000000000000000	
x18: 00000000001840	
x17: 00000000000000 x16: 000000000000000	
x15: 1ffffff8103f2e42	
x14: 0000000f1f1f1f1 x13: 000000000000004 x12:	
fffffb01812d61d	
x11: 1ffffff01812d61c x10: ffffffb01812d61c x9 :	
dffffc00000000	
x8 : 0000004fe7ed29e4 x7 : ffffff80c096b0e7 x6 :	
00000000000001	
x5 : ffffff80c096b0e0 x4 : 1ffffffdb990efa2 x3 :	
00000000000000	
x2 : 00000000000000 x1 : dffffc00000000 x0 :	
00000000000000	
Call trace:	
strlen+0x24/0xb0	
kernfs_name_hash+0x1c/0xc4	
kernfs find ns+0x118/0x2e8	
kernfs remove by name ns+0x80/0x100	
sysfs remove link+0x74/0xa8	
module_add_driver+0x278/0x394	
bus add driver+0x1f0/0x43c	
driver_register+0xf4/0x3c0	
platform driver register+0x60/0x88	
of fpga region init+0x20/0x1000 [of fpga region]	
do one initcall+0x110/0x788	
do_init_module+0x1dc/0x5c8	
load_module+0x3c38/0x4cac	
init_module_from_file+0xd4/0x128	
idempotent init module+0x2cc/0x528	
arm64_sys_finit_module+0xac/0x100	
invoke syscall+0x6c/0x258	
el0_svc_common.constprop.0+0x160/0x22c	
do_el0_svc+0x44/0x5c	
el0_svc+0x48/0x5c	
el0t_64_sync_handler+0x13c/0x158	
el0t_64_sync+0x190/0x194	
Code: f2fbffe1 a90157f4 12000802 aa0003f5	

		(38e16861)			
		[end trace 000000000000000]			
CVE 2024 47000	1	Kernel panic - not syncing: Oops: Fatal exception	2024 40 24		
<u>CVE-2024-47690</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		f2fs: get rid of online repaire on corrupted directory			
		a hat was to for her and take			
		syzbot reports a f2fs bug as below:			
		kernel BUG at fs/f2fs/inode.c:896!			
		RIP: 0010:f2fs_evict_inode+0x1598/0x15c0			
		fs/f2fs/inode.c:896			
		Call Trace:			
		evict+0x532/0x950 fs/inode.c:704			
		dispose_list fs/inode.c:747 [inline]			
		evict inodes+0x5f9/0x690 fs/inode.c:797			
		generic_shutdown_super+0x9d/0x2d0			
		fs/super.c:627			
		kill_block_super+0x44/0x90 fs/super.c:1696			
		kill_f2fs_super+0x344/0x690 fs/f2fs/super.c:4898			
		deactivate_locked_super+0xc4/0x130 fs/super.c:473			
		cleanup_mnt+0x41f/0x4b0 fs/namespace.c:1373			
		task_work_run+0x24f/0x310 kernel/task_work.c:228			
		ptrace_notify+0x2d2/0x380 kernel/signal.c:2402			
		ptrace_report_syscall include/linux/ptrace.h:415			
		[inline]			
		ptrace_report_syscall_exit			
		include/linux/ptrace.h:477 [inline]			
		syscall_exit_work+0xc6/0x190			
		kernel/entry/common.c:173			
		syscall_exit_to_user_mode_prepare			
		kernel/entry/common.c:200 [inline]			
		syscall_exit_to_user_mode_work			
		kernel/entry/common.c:205 [inline]			
		syscall_exit_to_user_mode+0x279/0x370			
		kernel/entry/common.c:218			
		do_syscall_64+0x100/0x230			
		arch/x86/entry/common.c:89			
		entry_SYSCALL_64_after_hwframe+0x77/0x7f			
		RIP: 0010:f2fs_evict_inode+0x1598/0x15c0			
		fs/f2fs/inode.c:896			
		Online repaire on corrupted directory in f2fs_lookup()			
		can generate			
		dirty data/meta while racing w/ readonly remount, it			
		may leave dirty			
		inode after filesystem becomes readonly, however,			
		checkpoint() will			
		skips flushing dirty inode in a state of readonly mode,			
		result in			

		above panic.			
		Let's get rid of online repaire in f2fs_lookup(), and			
		leave the work			
		to fsck.f2fs.	2024 40 24		
<u>CVE-2024-47694</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	linux_kern el	been resolved:			
		IB/mlx5: Fix UMR pd cleanup on error flow of driver init			
		The cited commit moves the pd allocation from function			
		mlx5r_umr_resource_cleanup() to a new function			
		mlx5r_umr_cleanup(). So the fix in commit [1] is broken. In error flow, will			
		hit panic [2].			
		Fix it by checking pd pointer to avoid panic if it is NULL;			
		[1] RDMA/mlx5: Fix UMR cleanup on error flow of driver init			
		[2]			
		[347.567063] infiniband mlx5_0: Couldn't register device with driver model			
		[347.591382] BUG: kernel NULL pointer			
		dereference, address: 0000000000000020			
		[347.593438] #PF: supervisor read access in kernel			
		mode			
		[347.595176] #PF: error_code(0x0000) - not-			
		present page			
		[347.596962] PGD 0 P4D 0 [347.601361] RIP:			
		0010:ib dealloc pd user+0x12/0xc0 [ib core]			
		[347.604171] RSP: 0018:ffff888106293b10 EFLAGS:			
		00010282			
		[347.604834] RAX: 000000000000000 RBX:			
		000000000000000e RCX: 0000000000000000			
		[347.605672] RDX: ffff888106293ad0 RSI:			
		00000000000000 RDI: 000000000000000			
		[347.606529] RBP: 000000000000000 R08: ffff888106293ae0 R09: ffff888106293ae0			
		[347.607379] R10: 0000000000000008 R11:			
		00000000000000 R12: 000000000000000000000000000000000000			
		[347.608224] R13: fffffffa0704dc0 R14:			
		000000000000001 R15: 0000000000000000			
		[347.609067] FS: 00007fdc720cd9c0(0000)			
		GS:ffff88852c880000(0000)			
		knlGS:00000000000000			
		[347.610094] CS: 0010 DS: 0000 ES: 0000 CR0:			

000000080050033	
[347.610727] CR2: 0000000000000020 CR3:	
000000103012003 CR4: 000000000370eb0	
[347.611421] DR0: 00000000000000 DR1:	
00000000000000 DR2: 0000000000000000	
[347.612113] DR3: 00000000000000 DR6:	
00000000fffe0ff0 DR7: 0000000000000400	
[347.612804] Call Trace:	
[347.613130] <task></task>	
[347.613417] ?die+0x20/0x60	
[347.613793] ? page_fault_oops+0x150/0x3e0	
[347.614243] ? free_msg+0x68/0x80 [mlx5_core]	
[347.614840] ? cmd_exec+0x48f/0x11d0	
[mlx5_core]	
[347.615359] ? exc_page_fault+0x74/0x130	
[347.615808] ? asm_exc_page_fault+0x22/0x30	
[347.616273] ? ib_dealloc_pd_user+0x12/0xc0	
[ib_core]	
[347.616801] mlx5r_umr_cleanup+0x23/0x90	
[mlx5_ib]	
[347.617365]	
mlx5_ib_stage_pre_ib_reg_umr_cleanup+0x36/0x40	
[mlx5_ib]	
[347.618025]mlx5_ib_add+0x96/0xd0 [mlx5_ib]	
[347.618539] mlx5r_probe+0xe9/0x310 [mlx5_ib]	
[347.619032] ? kernfs_add_one+0x107/0x150	
[347.619478] ?mlx5_ib_add+0xd0/0xd0	
[mlx5_ib]	
[347.619984] auxiliary_bus_probe+0x3e/0x90	
[347.620448] really probe+0xc5/0x3a0	
[347.620857]driver_probe_device+0x80/0x160	
[347.621325] driver_probe_device+0x1e/0x90	
[347.621770]driver_attach+0xec/0x1c0	
[347.62217] <u></u>	
device_attach_driver+0x100/0x100	
[347.622724] bus for each dev+0x71/0xc0	
[347.622724] bus_lol_each_dev+0x71/0xc0 [347.623151] bus_add_driver+0xed/0x240	
[347.623570] driver_register+0x58/0x100	
[347.623998]	
auxiliary_driver_register+0x6a/0xc0	
[347.624499] ? driver_register+0xae/0x100	
[347.624940] ? 0xfffffffa0893000	
[347.625329] mlx5_ib_init+0x16a/0x1e0 [mlx5_ib]	
[347.625845] do_one_initcall+0x4a/0x2a0	
[347.626273] ? gcov_event+0x2e2/0x3a0	
[347.626706] do_init_module+0x8a/0x260	
[347.627126] init_module_from_file+0x8b/0xd0	
[347.627596]	
x64_sys_finit_module+0x1ca/0x2f0	
[347.628089] do_syscall_64+0x4c/0x100	

CVE-2024-47699	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>CVE-2024-47099</u>	multiple	been resolved:	2024-10-21	5.5	weulum
	products				
	•	nilfs2: fix potential null-ptr-deref in			
		nilfs_btree_insert()			
		Patch series "nilfs2: fix potential issues with empty b-			
		tree nodes".			
		This series addresses three potential issues with			
		empty b-tree nodes that			
		can occur with corrupted filesystem images, including			
		one recently			
		discovered by syzbot.			
		This patch (of 3):			
		life is there is burgly an another devices and the is the second			
		If a b-tree is broken on the device, and the b-tree height is greater than			
		2 (the level of the root node is greater than 1) even if			
		the number of			
		child nodes of the b-tree root is 0, a NULL pointer			
		dereference occurs in			
		nilfs_btree_prepare_insert(), which is called from			
		nilfs_btree_insert().			
		This is because, when the number of child nodes of			
		the b-tree root is 0,			
		nilfs_btree_do_lookup() does not set the block buffer			
		head in any of			
		path[x].bp_bh, leaving it as the initial value of NULL,			
		but if the level			
		of the b-tree root node is greater than 1, nilfs_btree_get_nonroot_node(),			
		which accesses the buffer memory of path[x].bp_bh,			
		is called.			
		Fix this issue by adding a check to nilfs_btree_root_broken(), which			
		performs sanity checks when reading the root node			
		from the device, to			
		detect this inconsistency.			
		Thanks to Lizhi Xu for trying to solve the bug and			
		clarifying the cause			
CVE-2024-47700	linux -	early on. In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>CVL 2027 77700</u>	multiple	been resolved:	2024 10-21	5.5	wiculum
	products				
		ext4: check stripe size compatibility on remount as			

		well			
		We disable stripe size inext4_fill_super if it is not a multiple of the cluster ratio however this check is missed when			
		trying to remount. This can leave us with cases where stripe < cluster_ratio after			
		remount:set making EXT4_B2C(sbi->s_stripe) become 0 that can cause some unforeseen bugs like divide by 0.			
		Fix that by adding the check in remount path as well.			
<u>CVE-2024-47702</u>	linux - multiple products	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	products	bpf: Fail verification for sign-extension of packet data/data_end/data_meta			
		syzbot reported a kernel crash due to commit 1f1e864b6555 ("bpf: Handle sign-extenstin ctx member accesses").			
		The reason is due to sign-extension of 32-bit load for packet data/data_end/data_meta uapi field.			
		The original code looks like: r2 = *(s32 *)(r1 + 76) /* loadsk_buff->data */ r3 = *(u32 *)(r1 + 80) /* loadsk_buff- >data end */			
		r0 = r2 r0 += 8			
		if r3 > r0 goto +1 Note thatsk_buff->data load has 32-bit sign			
		extension.			
		After verification and convert_ctx_accesses(), the final asm code looks like: r2 = *(u64 *)(r1 +208)			
		r2 = (s32)r2 r3 = *(u64 *)(r1 +80) r0 = r2			
		r0 += 8 if r3 > r0 goto pc+1 			
		Note that 'r2 = (s32)r2' may make the kernel sk_buff->data address invalid which may cause runtime failure.			
		Currently, in C code, typically we have void *data = (void *)(long)skb->data;			

, ,			I	1	,
		void *data_end = (void *)(long)skb->data_end;			
		and it will generate			
		r2 = *(u64 *)(r1 +208)			
		r3 = *(u64 *)(r1 +80)			
		r0 = r2			
		r0 += 8			
		if r3 > r0 goto pc+1			
		If we allow sign-extension,			
		void *data = (void *)(long)(int)skb->data;			
		<pre>void *data_end = (void *)(long)skb->data_end;</pre>			
		the generated code looks like			
		r2 = *(u64 *)(r1 +208)			
		r2 <<= 32			
		r2 s>>= 32			
		r3 = *(u64 *)(r1 +80)			
		r0 = r2			
		r0 += 8			
		if r3 > r0 goto pc+1			
		and this will cause verification failure since "r2 <<=			
		32" is not allowed			
		as "r2" is a packet pointer.			
		To fix this issue for case			
		r2 = *(s32 *)(r1 + 76) /* loadsk_buff->data */			
		this patch added additional checking in			
		is_valid_access() callback			
		function for packet data/data_end/data_meta			
		access. If those accesses			
		are with sign-extenstion, the verification will fail.			
		[1]			
		https://lore.kernel.org/bpf/00000000000000000000000000000000000			
		d236d37@google.com/			
CVE-2024-47703	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u></u>	multiple	been resolved:		5.5	
	products				
	,	bpf, lsm: Add check for BPF LSM return value			
		A bpf prog returning a positive number attached to			
		file_alloc_security			
		hook makes kernel panic.			
		This happens because file system can not filter out			
		the positive number			
		returned by the LSM prog using IS_ERR, and			
		misinterprets this positive			
		number as a file pointer.			

			1		,
		Given that hook file_alloc_security never returned			
		positive number			
		before the introduction of BPF LSM, and other BPF			
		LSM hooks may			
		encounter similar issues, this patch adds LSM return			
		value check			
		in verifier, to ensure no unexpected value is returned.			
<u>CVE-2024-47704</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		drm/amd/display: Check link_res->hpo_dp_link_enc			
		before using it			
		[WHAT & HOW]			
		Functions dp_enable_link_phy and			
		dp_disable_link_phy can pass link_res			
		without initializing hpo_dp_link_enc and it is			
		necessary to check for			
		null before dereferencing.			
		This fixes 2 FORWARD_NULL issues reported by			
		Coverity.			
<u>CVE-2024-47705</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products	history (franciscus) is a state of the state of the second state o			
		block: fix potential invalid pointer dereference in			
		blk_add_partition			
		The bly add partition() function initially used a single			
		The blk_add_partition() function initially used a single if-condition			
		(IS_ERR(part)) to check for errors when adding a partition. This was			
		modified to handle the specific case of -ENXIO			
		separately, allowing the			
		function to proceed without logging the error in this			
		case. However,			
		this change unintentionally left a path where			
		md_autodetect_dev()			
		could be called without confirming that part is a valid			
		pointer.			
		pointer.			
		This commit separates the error handling logic by			
		splitting the			
		initial if-condition, improving code readability and			
		handling specific			
		error scenarios explicitly. The function now			
		distinguishes the general			
		error case from -ENXIO without altering the existing			
		behavior of			
		md_autodetect_dev() calls.			

CVE-2024-47706	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
012 2021 17700	multiple	been resolved:	20211021	5.5	Weddun
	products				
		block, bfq: fix possible UAF for bfqq->bic with merge			
		chain			
		1) initial state, three tasks:			
		Process 1 Process 2 Process 3			
		(BIC1) (BIC2) (BIC3)			
		V V V bfqq1 bfqq2 bfqq3			
		process ref: 1 1 1			
		2) bfqq1 merged to bfqq2:			
		Process 1 Process 2 Process 3			
		(BIC1) (BIC2) (BIC3)			
		?			
		\\			
		VV bfqq1>bfqq2 bfqq3			
		process ref: 0 2 1			
		3) bfqq2 merged to bfqq3:			
		Process 1 Process 2 Process 3			
		(BIC1) (BIC2) (BIC3)			
		here -> ?			
		\\\\ V V			
		bfqq1>bfqq2>bfqq3			
		process ref: 0 1 3			
		In this case, IO from Process 1 will get bfqq2 from BIC1 first, and then			
		get bfqq3 through merge chain, and finially handle IO			
		by bfqq3.			
		Howerver, current code will think bfqq2 is owned by			
		BIC1, like initial			
		state, and set bfqq2->bic to BIC1.			
		bfq_insert_request			
		-> by Process 1			
		bfqq = bfq_init_rq(rq)			
		bfqq = bfq_get_bfqq_handle_split			
		bfqq = bic_to_bfqq			
		-> get bfqq2 from BIC1 bfqq->ref++			
		איץץ־אוטודד			

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	rq->elv.priv[0] = bic		
	rq->elv.priv[1] = bfqq		
	if (bfqq_process_refs(bfqq) == 1)		
	bfqq->bic = bic		
	-> record BIC1 to bfqq2		
	bfq_insert_request		
	new_bfqq = bfq_setup_cooperator		
	-> get bfqq3 from bfqq2->new_bfqq		
	bfqq_request_freed(bfqq)		
	new_bfqq->ref++		
	rq->elv.priv[1] = new_bfqq		
	-> handle IO by bfqq3		
	Fix the problem by checking bfqq is from merge chain		
	fist. And this		
	might fix a following problem reported by our		
	syzkaller(unreproducible):		
	BUG: KASAN: slab-use-after-free in		
	bfq_do_early_stable_merge block/bfq-		
	iosched.c:5692 [inline]		
	BUG: KASAN: slab-use-after-free in		
	bfq_do_or_sched_stable_merge block/bfq-		
	iosched.c:5805 [inline]		
	BUG: KASAN: slab-use-after-free in		
	bfq_get_queue+0x25b0/0x2610 block/bfq-		
	iosched.c:5889		
	Write of size 1 at addr ffff888123839eb8 by task		
	kworker/0:1H/18595		
	CPU: 0 PID: 18595 Comm: kworker/0:1H Tainted: G		
	L 6.6.0-07439-gba2303cacfda #6		
	Hardware name: QEMU Standard PC (i440FX + PIIX,		
	1996), BIOS rel-1.14.0-0-g155821a1990b-		
	prebuilt.qemu.org 04/01/2014		
	Workqueue: kblockd blk_mq_requeue_work		
	Call Trace:		
	<task></task>		
	dump_stack lib/dump_stack.c:88 [inline]		
	dump_stack_lvl+0x91/0xf0 lib/dump_stack.c:106		
	print_address_description mm/kasan/report.c:364		
	[inline]		
	print_report+0x10d/0x610 mm/kasan/report.c:475		
	kasan_report+0x8e/0xc0 mm/kasan/report.c:588		
	bfq_do_early_stable_merge block/bfq-		
	iosched.c:5692 [inline]		
	bfq_do_or_sched_stable_merge block/bfq-		
	iosched.c:5805 [inline]		
	bfq_get_queue+0x25b0/0x2610 block/bfq-		
L	wiy_6ci_queue · 0x2000/0x2010 010000/01q-		

		inschool c:E880			1
		iosched.c:5889			
		<pre>bfq_get_bfqq_handle_split+0x169/0x5d0 block/bfq- iosched.c:6757</pre>			
		bfq_init_rq block/bfq-iosched.c:6876 [inline]			
		bfq_insert_request block/bfq-iosched.c:6254 [inline]			
		bfq_insert_requests+0x1112/0x5cf0 block/bfq-			
		iosched.c:6304			
		blk_mq_insert_request+0x290/0x8d0 block/blk- mq.c:2593			
		blk mg requeue work+0x6bc/0xa70 block/blk-			
		mq.c:1502			
		process_one_work kernel/workqueue.c:2627 [inline]			
		process_scheduled_works+0x432/0x13f0			
		kernel/workqueue.c:2700			
		worker_thread+0x6f2/0x1160			
		kernel/workqueue.c:2781			
		kthread+0x33c/0x440 kernel/kthread.c:388			
		ret_from_fork+0x4d/0x80			
		arch/x86/kernel/process.c:147			
		ret_from_fork_asm+0x1b/0x30			
		arch/x86/entry/entry_64.S:305			
		Allocated by task 20776:			
		kasan_save_stack+0x20/0x40			
		mm/kasan/common.c:45			
		kasan_set_track+0x25/0x30			
		mm/kasan/common.c:52			
		kasan_slab_alloc+0x87/0x90			
		mm/kasan/common.c:328			
		kasan_slab_alloc include/linux/kasan.h:188 [inline]			
		slab_post_alloc_hook mm/slab.h:763 [inline]			
		slab_alloc_node mm/slub.c:3458 [inline]			
		kmem_cache_alloc_node+0x1a4/0x6f0			
		mm/slub.c:3503			
		ioc_create_icq block/blk-ioc.c:370 [inline]			
		truncated			
CVE-2024-47707	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		ipv6: avoid possible NULL deref in			
		rt6_uncached_list_flush_dev()			
		Blamed commit accidentally removed a check for rt-			
		>rt6i_idev being NULL,			
		as spotted by syzbot:			
		Oops: general protection fault, probably for non-			
		canonical address 0xdffffc0000000000: 0000 [#1]			
		PREEMPT SMP KASAN PTI			
		KASAN: null-ptr-deref in range			
	I		1	I	1

l		
	[0x0000000000000-0x0000000000000007]	
	CPU: 1 UID: 0 PID: 10998 Comm: syz-executor Not	
	tainted 6.11.0-rc6-syzkaller-00208-g625403177711	
	#0	
	Hardware name: Google Google Compute	
	Engine/Google Compute Engine, BIOS Google	
	08/06/2024	
	RIP: 0010:rt6_uncached_list_flush_dev	
	net/ipv6/route.c:177 [inline]	
	RIP: 0010:rt6_disable_ip+0x33e/0x7e0	
	net/ipv6/route.c:4914	
	Code: 41 80 3c 04 00 74 0a e8 90 d0 9b f7 48 8b 7c 24	
	08 48 8b 07 48 89 44 24 10 4c 89 f0 48 c1 e8 03 48 b9	
	00 00 00 00 00 fc ff df <80> 3c 08 00 74 08 4c 89 f7 e8	
	64 d0 9b f7 48 8b 44 24 18 49 39 06	
	RSP: 0018:ffffc900047374e0 EFLAGS: 00010246	
	RAX: 00000000000000 RBX: 1ffff1100fdf8f33 RCX:	
	dffffc000000000	
	RDX: 00000000000000 RSI: 000000000000004	
	RDI: ffff88807efc78c0	
	RBP: ffffc900047375d0 R08: 000000000000003 R09:	
	fffff520008e6e8c	
	R10: dffffc000000000 R11: fffff520008e6e8c R12:	
	1ffff1100fdf8f18	
	R13: ffff88807efc7998 R14: 000000000000000 R15:	
	ffff88807efc7930	
	FS: 000000000000000000000000000000000000	
	GS:ffff8880b890000(0000)	
	knlGS:00000000000000	
	CS: 0010 DS: 0000 ES: 0000 CR0: 000000080050033	
	CR2: 000000020002a80 CR3: 000000022f62000	
	CR4: 000000003506f0	
	DR0: 00000000000000 DR1: 0000000000000000	
	DR2: 00000000000000	
	DR3: 00000000000000 DR6: 0000000fffe0ff0 DR7:	
	00000000000400	
	Call Trace:	
	<task></task>	
	addrconf_ifdown+0x15d/0x1bd0	
	net/ipv6/addrconf.c:3856	
	addrconf_notify+0x3cb/0x1020	
	notifier_call_chain+0x19f/0x3e0 kernel/notifier.c:93	
	call_netdevice_notifiers_extack net/core/dev.c:2032	
	[inline]	
	call_netdevice_notifiers net/core/dev.c:2046 [inline]	
	unregister_netdevice_many_notify+0xd81/0x1c40	
	net/core/dev.c:11352	
	unregister_netdevice_many net/core/dev.c:11414	
	[inline]	
	unregister_netdevice_queue+0x303/0x370	
	net/core/dev.c:11289	

unregister notelasies	
unregister_netdevice	
include/linux/netdevice.h:3129 [inline]	
tun_detach+0x6b9/0x1600 drivers/net/tun.c:685	
tun_detach drivers/net/tun.c:701 [inline]	
tun_chr_close+0x108/0x1b0 drivers/net/tun.c:3510	
fput+0x24a/0x8a0 fs/file_table.c:422	
task_work_run+0x24f/0x310	
kernel/task_work.c:228	
exit_task_work include/linux/task_work.h:40 [inline]	
do_exit+0xa2f/0x27f0 kernel/exit.c:882	
do_group_exit+0x207/0x2c0 kernel/exit.c:1031	
do_sys_exit_group kernel/exit.c:1042 [inline]	
se_sys_exit_group kernel/exit.c:1040 [inline]	
x64_sys_exit_group+0x3f/0x40 kernel/exit.c:1040	
x64_sys_call+0x2634/0x2640	
arch/x86/include/generated/asm/syscalls_64.h:232	
do_syscall_x64 arch/x86/entry/common.c:52	
[inline]	
do_syscall_64+0xf3/0x230	
arch/x86/entry/common.c:83	
entry_SYSCALL_64_after_hwframe+0x77/0x7f	
RIP: 0033:0x7f1acc77def9	
Code: Unable to access opcode bytes at	
0x7f1acc77decf.	
RSP: 002b:00007ffeb26fa738 EFLAGS: 00000246	
ORIG_RAX: 000000000000000000000000000000000000	
RAX: fffffffffffffda RBX: 000000000000000 RCX:	
00007f1acc77def9	
RDX: 00000000000000 RSI: 0000000000000000	
RDI: 000000000000043	
RBP: 00007f1acc7dd508 R08: 00007ffeb26f84d7 R09:	
00000000000003	
R10: 000000000000000 R11: 000000000000246	
R12: 000000000000001	
R13: 0000000000000003 R14: 00000000ffffffff R15:	
00007ffeb26fa8e0	
Modules linked in:	
[end trace 000000000000000000]	
RIP: 0010:rt6_uncached_list_flush_dev	
net/ipv6/route.c:177 [inline]	
RIP: 0010:rt6_disable_ip+0x33e/0x7e0	
net/ipv6/route.c:4914	
Code: 41 80 3c 04 00 74 0a e8 90 d0 9b f7 48 8b 7c 24	
08 48 8b 07 48 89 44 24 10 4c 89 f0 48 c1 e8 03 48 b9	
00 00 00 00 00 fc ff df <80> 3c 08 00 74 08 4c 89 f7 e8	
64 d0 9b f7 48 8b 44 24 18 49 39 06	
RSP: 0018:ffffc900047374e0 EFLAGS: 00010246	
RAX: 00000000000000 RBX: 1ffff1100fdf8f33 RCX:	
dfffc000000000	
RDX: 000000000000000 RSI: 0000000000000004	

		RDI: ffff88807efc78c0			
		R truncated			
<u>CVE-2024-47708</u>	linux - linux_kern	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	el				
		netkit: Assign missing bpf_net_context			
		During the introduction of struct bpf_net_context			
		handling for XDP-redirect, the netkit driver has been missed,			
		which also requires it			
		because NETKIT_REDIRECT invokes skb_do_redirect()			
		which is accessing the per-CPU variables. Otherwise we see the following			
		crash:			
		BUG: kernel NULL pointer dereference, address:			
		00000000000038			
		bpf_redirect() netkit_xmit()			
		dev_hard_start_xmit()			
		Set the bpf_net_context before invoking			
		netkit_xmit() program within the netkit driver.			
<u>CVE-2024-47709</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple products	been resolved:			
	products	can: bcm: Clear bo->bcm_proc_read after			
		remove_proc_entry().			
		syzbot reported a warning in bcm_release(). [0]			
		The blamed change fixed another warning that is			
		triggered when connect() is issued again for a socket whose			
		connect() ed device has			
		been unregistered.			
		However, if the socket is just close()d without the 2nd			
		connect(), the			
		remaining bo->bcm_proc_read triggers unnecessary remove_proc_entry()			
		in bcm_release().			
		Let's clear bo->bcm_proc_read after			
		remove_proc_entry() in bcm_notify().			
		[0]			
		name '4986'			

MADNING, CDU, O DID, FOOA at fallens a lange at a	1 1	
WARNING: CPU: 0 PID: 5234 at fs/proc/generic.c:711		
remove_proc_entry+0x2e7/0x5d0		
fs/proc/generic.c:711		
Modules linked in:		
CPU: 0 UID: 0 PID: 5234 Comm: syz-executor606 Not		
tainted 6.11.0-rc5-syzkaller-00178-g5517ae241919		
#0		
Hardware name: Google Google Compute		
Engine/Google Compute Engine, BIOS Google		
08/06/2024		
RIP: 0010:remove_proc_entry+0x2e7/0x5d0		
fs/proc/generic.c:711		
Code: ff eb 05 e8 cb 1e 5e ff 48 8b 5c 24 10 48 c7 c7		
e0 f7 aa 8e e8 2a 38 8e 09 90 48 c7 c7 60 3a 1b 8c 48		
89 de e8 da 42 20 ff 90 <0f> 0b 90 90 48 8b 44 24 18		
48 c7 44 24 40 0e 36 e0 45 49 c7 04 07		
RSP: 0018:ffffc9000345fa20 EFLAGS: 00010246		
RAX: 2a2d0aee2eb64600 RBX: ffff888032f1f548 RCX:		
ffff888029431e00		
RDX: 000000000000000 RSI: 0000000000000000		
RDI: 000000000000000		
RBP: ffffc9000345fb08 R08: fffffff8155b2f2 R09:		
1ffff1101710519a		
R10: dffffc000000000 R11: ffffed101710519b R12:		
ffff888011d38640		
R13: 000000000000004 R14: 0000000000000000		
R15: dffffc000000000		
FS: 000000000000000000000000000000000000		
GS:ffff8880b8800000(0000)		
knlGS:00000000000000		
CS: 0010 DS: 0000 ES: 0000 CR0: 000000080050033		
CR2: 00007fcfb52722f0 CR3: 00000000e734000		
CR4: 0000000003506f0		
DR0: 00000000000000 DR1: 0000000000000000		
DR2: 000000000000000		
DR3: 0000000000000 DR6: 0000000fffe0ff0 DR7:		
00000000000400		
Call Trace:		
<task></task>		
bcm_release+0x250/0x880 net/can/bcm.c:1578		
sock release net/socket.c:659 [inline]		
sock_close+0xbc/0x240 net/socket.c:1421		
fput+0x24a/0x8a0 fs/file_table.c:422		
task_work_run+0x24f/0x310 kernel/task_work.c:228		
exit_task_work include/linux/task_work.h:40 [inline]		
do_exit+0xa2f/0x27f0 kernel/exit.c:882		
do_group_exit+0x207/0x2c0 kernel/exit.c:1031		
do_sys_exit_group kernel/exit.c:1042 [inline]		
se_sys_exit_group kernel/exit.c:1040 [inline]		
x64_sys_exit_group+0x3f/0x40 kernel/exit.c:1040		
x64_sys_call+0x2634/0x2640		
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		arch/x86/include/generated/asm/syscalls_64.h:232			
		do_syscall_x64 arch/x86/entry/common.c:52 [inline]			
		do_syscall_64+0xf3/0x230			
		arch/x86/entry/common.c:83			
		entry_SYSCALL_64_after_hwframe+0x77/0x7f			
		RIP: 0033:0x7fcfb51ee969			
		Code: Unable to access opcode bytes at			
		0x7fcfb51ee93f.			
		RSP: 002b:00007ffce0109ca8 EFLAGS: 00000246			
		ORIG RAX: 000000000000000000000000000000000000			
		RAX: ffffffffffffda RBX: 000000000000001 RCX:			
		00007fcfb51ee969			
		RDX: 0000000000000003c RSI: 0000000000000000			
		RDI: 000000000000001			
		RBP: 00007fcfb526f3b0 R08: fffffffffffb8 R09:			
		000055550000000			
		R10: 0000555500000000 R11: 00000000000246			
		R12: 00007fcfb526f3b0			
		R13: 00000000000000 R14: 00007fcfb5271ee0			
		R15: 00007fcfb51bf160			
CVE-2024-47710	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		<pre>sock_map: Add a cond_resched() in sock_hash_free()</pre>			
		Several syzbot soft lockup reports all have in common			
		sock_hash_free()			
		If a map with a large number of buckets is destroyed,			
		we need to yield			
		the cpu when needed.			
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<u>CVE-2024-47712</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		wifi: wilc1000: fix potential RCU dereference issue in			
		wilc_parse_join_bss_param			
		In the `wilc_parse_join_bss_param` function, the TSF			
		field of the `ies`			
		structure is accessed after the RCU read-side critical			
		section is			
		unlocked. According to RCU usage rules, this is illegal.			
		Reusing this			
		pointer can lead to unpredictable behavior, including			
		accessing memory			
		that has been updated or causing use-after-free			
		issues.			
		This possible bug was identified using a static analysis			
		tool developed			
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		by myself, specifically designed to detect RCU-related issues.			
		To address this, the TSF value is now stored in a local			
		variable			
		`ies_tsf` before the RCU lock is released. The `param-			
		>tsf_lo`field is			
		then assigned using this local variable, ensuring that			
		the TSF value is safely accessed.			
CVE-2024-47713	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple products	been resolved:			
	products	wifi: mac80211: use two-phase skb reclamation in			
		ieee80211_do_stop()			
		Since 'dev_queue_xmit()' should be called with			
		interrupts enabled,			
		the following backtrace:			
		ieee80211_do_stop()			
		 spin_lock_irqsave(&local->queue_stop_reason_lock,			
		flags)			
		ieee80211_free_txskb()			
		ieee80211_report_used_skb()			
		ieee80211_report_ack_skb()			
		cfg80211_mgmt_tx_status_ext() nl80211_frame_tx_status()			
		genlmsg_multicast_netns()			
		genlmsg_multicast_netns_filtered()			
		nlmsg_multicast_filtered()			
		netlink_broadcast_filtered()			
		do_one_broadcast() netlink_broadcast_deliver()			
		netlink_sendskb()			
		netlink_deliver_tap()			
		netlink_deliver_tap_skb()			
		dev_queue_xmit()			
		dev_queue_xmit() ; with IRQS disabled			
		spin_unlock_irqrestore(&local-			
		>queue_stop_reason_lock, flags)			
		issues the warning (as reported by syzbot			
		reproducer):			
		WARNING: CPU: 2 PID: 5128 at kernel/softirg.c:362			
		local_bh_enable_ip+0xc3/0x120			

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		Fix this by implementing a two-phase skb reclamation			
		in linee20211 de ster(), where actual work is			
		'ieee80211_do_stop()', where actual work is performed			
		outside of a section with interrupts disabled.			
CVE-2024-47714	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>CVL-2024-47714</u>	multiple	been resolved:	2024-10-21	5.5	Wedlum
	products				
	p. 0 0.0.000	wifi: mt76: mt7996: use hweight16 to get correct tx			
		antenna			
		The chainmask is u16 so using hweight8 cannot get			
		correct tx_ant.			
		Without this patch, the tx_ant of band 2 would be -1			
		and lead to the			
		following issue:			
		BUG: KASAN: stack-out-of-bounds in			
CVE 2024 47745	l:	mt7996_mcu_add_sta+0x12e0/0x16e0 [mt7996e]	2024 10 24		Madhum
<u>CVE-2024-47715</u>	linux - multiple	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	products				
	products	wifi: mt76: mt7915: fix oops on non-dbdc mt7986			
		mt7915_band_config() sets band_idx = 1 on the main			
		phy for mt7986			
		with MT7975_ONE_ADIE or MT7976_ONE_ADIE.			
		Commit 0335c034e726 ("wifi: mt76: fix race			
		condition related to			
		checking tx queue fill status") introduced a			
		dereference of the			
		phys array indirectly indexed by band_idx via wcid-			
		>phy_idx in mt76_wcid_cleanup(). This caused the following			
		Oops on affected			
		mt7986 devices:			
		Unable to handle kernel read from unreadable			
		memory at virtual address 000000000000024			
		Mem abort info:			
		ESR = 0x000000096000005			
		EC = 0x25: DABT (current EL), IL = 32 bits			
		SET = 0, FnV = 0			
		EA = 0, S1PTW = 0			
		FSC = 0x05: level 1 translation fault			
		Data abort info:			
		ISV = 0, ISS = 0x00000005			
		CM = 0, $WnR = 0$			
		user pgtable: 4k pages, 39-bit VAs, pgdp=0000000042545000			
		[00000000000024] pgd=000000000000000,			
		[0000000000024] pgu=000000000000000000000000000000000000			

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	p4d=000000000000000, pud=000000000000000000000000000000000000		
	Internal error: Oops: 000000096000005 [#1] SMP		
	Modules linked in: mt7915e mt76_connac_lib		
	mt76 mac80211 cfg80211		
	CPU: 2 PID: 1631 Comm: hostapd Not tainted		
	5.15.150 #0		
	Hardware name: ZyXEL EX5700 (Telenor) (DT)		
	pstate: 80400005 (Nzcv daif +PAN -UAO -TCO -DIT -		
	SSBS BTYPE=)		
	pc : mt76_wcid_cleanup+0x84/0x22c [mt76]		
	lr : mt76_wcid_cleanup+0x64/0x22c [mt76]		
	sp : ffffffc00a803700		
	x29: ffffffc00a803700 x28: ffffff80008f7300 x27:		
	ffffff80003f3c00		
	x26: ffffff80000a7880 x25: ffffffc008c26e00 x24:		
	00000000000001		
	x23: ffffffc000a68114 x22: 000000000000000 x21:		
	ffffff8004172cc8		
	x20: ffffffc00a803748 x19: ffffff8004152020 x18:		
	00000000000000		
	x17: 0000000000017c0 x16: ffffffc008ef5000 x15:		
	000000000000be0		
	x14: ffffff8004172e28 x13: ffffff8004172e28 x12:		
	00000000000000		
	x11: 00000000000000 x10: ffffff8004172e30 x9 :		
	ffffff8004172e28		
	x8 : 000000000000000 x7 : ffffff8004156020 x6 :		
	00000000000000		
	x5:00000000000031x4:0000000000000x3:		
	000000000000001		
	x2 : 000000000000000 x1 : ffffff80008f7300 x0 :		
	00000000000024		
	Call trace:		
	mt76_wcid_cleanup+0x84/0x22c [mt76]		
	mt76_sta_remove+0x70/0xbc [mt76]		
	mt7915_eeprom_get_power_delta+0x11e4/0x23a0		
	[mt7915e]		
	drv_sta_state+0x144/0x274 [mac80211]		
	sta_info_move_state+0x1cc/0x2a4 [mac80211]		
	sta_set_sinfo+0xaf8/0xc24 [mac80211]		
	sta_info_destroy_addr_bss+0x4c/0x6c [mac80211]		
	ieee80211_color_change_finish+0x1c08/0x1e70		
	[mac80211]		
	cfg80211_check_station_change+0x1360/0x4710		
	[cfg80211]		
	genl_family_rcv_msg_doit+0xb4/0x110		
	genl_rcv_msg+0xd0/0x1bc		
	netlink_rcv_skb+0x58/0x120		
	genl rcv+0x34/0x50		

netlink_unicast+0x1f0/0x2ec netlink_sendmsg+0x198/0x3d0
sys_sendmsg+0x80/0xf0 sys_sendmsg+0x44/0xa0 arm64_sys_sendmsg+0x20/0x30 invoke_syscall.constprop.0+0x4c/0xe0 do_el0_svc+0x40/0xd0 el0_svc+0x14/0x4c el0t_64_sync_handler+0x100/0x110 el0t_64_sync+0x15c/0x160 Code: d2800002 910092c0 52800023 f9800011
arm64_sys_sendmsg+0x20/0x30 invoke_syscall.constprop.0+0x4c/0xe0 do_el0_svc+0x40/0xd0 el0_svc+0x14/0x4c el0t_64_sync_handler+0x100/0x110 el0t_64_sync+0x15c/0x160 Code: d2800002 910092c0 52800023 f9800011
invoke_syscall.constprop.0+0x4c/0xe0 do_el0_svc+0x40/0xd0 el0_svc+0x14/0x4c el0t_64_sync_handler+0x100/0x110 el0t_64_sync+0x15c/0x160 Code: d2800002 910092c0 52800023 f9800011
do_el0_svc+0x40/0xd0 el0_svc+0x14/0x4c el0t_64_sync_handler+0x100/0x110 el0t_64_sync+0x15c/0x160 Code: d2800002 910092c0 52800023 f9800011
do_el0_svc+0x40/0xd0 el0_svc+0x14/0x4c el0t_64_sync_handler+0x100/0x110 el0t_64_sync+0x15c/0x160 Code: d2800002 910092c0 52800023 f9800011
el0_svc+0x14/0x4c el0t_64_sync_handler+0x100/0x110 el0t_64_sync+0x15c/0x160 Code: d2800002 910092c0 52800023 f9800011
el0t_64_sync_handler+0x100/0x110 el0t_64_sync+0x15c/0x160 Code: d2800002 910092c0 52800023 f9800011
el0t_64_sync+0x15c/0x160 Code: d2800002 910092c0 52800023 f9800011
Code: d2800002 910092c0 52800023 f9800011
(0001/001)
[end trace 7e42dd9a39ed2281]
Fix by using mt76_dev_phy() which will map band_idx
to the correct phy
for all hardware combinations.
CVE-2024-47716 linux - In the Linux kernel, the following vulnerability has 2024-10-21 5.5 Medium
multiple been resolved:
products
ARM: 9410/1: vfp: Use asm volatile in fmrx/fmxr
macros
Floating point instructions in userspace can crash
some arm kernels
built with clang/LLD 17.0.6:
BUG: unsupported FP instruction in kernel mode
FPEXC == 0xc0000780
Internal error: Oops - undefined instruction: 0 [#1]
ARM
CPU: 0 PID: 196 Comm: vfp-reproducer Not tainted
6.10.0 #1
Hardware name: BCM2835
PC is at vfp_support_entry+0xc8/0x2cc
LR is at do_undefinstr+0xa8/0x250
pc : [<c0101d50>] lr : [<c010a80c>] psr:</c010a80c></c0101d50>
a0000013
sp:dc8d1f68 ip:60000013 fp:bedea19c
r10: ec532b17 r9 : 00000010 r8 : 0044766c
r7:c0000780 r6:ec532b17 r5:c1c13800 r4:
dc8d1fb0
r3:c10072c4 r2:c0101c88 r1:ec532b17 r0:
0044766c
Flags: NzCv IRQs on FIQs on Mode SVC_32 ISA
ARM Segment none
Control: 00c5387d Table: 0251c008 DAC:
0000051
Register r0 information: non-paged memory
Register r1 information: vmalloc memory

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	Register r2 information: non-slab/vmalloc memory	
	Register r3 information: non-slab/vmalloc memory	
	Register r4 information: 2-page vmalloc region	
	Register r5 information: slab kmalloc-cg-2k	
	Register r6 information: vmalloc memory	
	Register r7 information: non-slab/vmalloc memory	
	Register r8 information: non-paged memory	
	Register r9 information: zero-size pointer	
	Register r10 information: vmalloc memory	
	Register r11 information: non-paged memory	
	Register r12 information: non-paged memory	
	Process vfp-reproducer (pid: 196, stack limit =	
	0x61aaaf8b)	
	Stack: (0xdc8d1f68 to 0xdc8d2000)	
	1f60: 0000081f b6f69300 0000000f	
	c10073f4 c10072c4 dc8d1fb0	
	1f80: ec532b17 0c532b17 0044766c b6f9ccd8	
	00000000 c010a80c 00447670 60000010	
	1fa0: ffffffff c1c13800 00c5387d c0100f10 b6f68af8	
	00448fc0 00000000 bedea188	
	1fc0: bedea314 00000001 00448ebc b6f9d000	
	00447608 b6f9ccd8 00000000 bedea19c	
	1fe0: bede9198 bedea188 b6e1061c 0044766c	
	60000010 ffffffff 00000000 00000000	
	Call trace:	
	[<c0101d50>] (vfp_support_entry) from</c0101d50>	
	[<c010a80c>] (do_undefinstr+0xa8/0x250)</c010a80c>	
	[<c010a80c>] (do_undefinstr) from [<c0100f10>]</c0100f10></c010a80c>	
	(und_usr+0x70/0x80)	
	Exception stack(0xdc8d1fb0 to 0xdc8d1ff8)	
	1fa0: b6f68af8 00448fc0	
	0000000 bedea188	
	1fc0: bedea314 00000001 00448ebc b6f9d000	
	00447608 b6f9ccd8 00000000 bedea19c	
	1fe0: bede9198 bedea188 b6e1061c 0044766c	
	6000010 ffffffff	
	Code: 0a000061 e3877202 e594003c e3a09010	
	(eef16a10)	
	[end trace 00000000000000]	
	Kernel panic - not syncing: Fatal exception in	
	interrupt	
	[end Kernel panic - not syncing: Fatal exception	
	in interrupt]	
	This is a minimal userspace reproducer on a	
	Raspberry Pi Zero W:	
	#include <stdio.h></stdio.h>	
	#include <math.h></math.h>	
	int main(void)	

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		{ double v = 1.0; printf("%fn", NAN + *(volatile double *)&v); return 0; }			
		Another way to consistently trigger the oops is:			
		calvin@raspberry-pi-zero-w ~\$ python -c "import json"			
		The bug reproduces only when the kernel is built with DYNAMIC_DEBUG=n, because the pr_debug() calls act as barriers even when not activated.			
		This is the output from the same kernel source built with the same compiler and DYNAMIC_DEBUG=y, where the userspace reproducer works as expected:			
		VFP: bounce: trigger ec532b17 fpexc c0000780 VFP: emulate: INST=0xee377b06 SCR=0x00000000 VFP: bounce: trigger eef1fa10 fpexc c0000780 VFP: emulate: INST=0xeeb40b40 SCR=0x00000000 VFP: raising exceptions 30000000			
		calvin@raspberry-pi-zero-w ~\$./vfp-reproducer nan			
		Crudely grepping for vmsr/vmrs instructions in the otherwise nearly idential text for vfp_support_entry() makes the problem obvious:			
		vmlinux.llvm.good [0xc0101cb8] <+48>: vmrs r7, fpexc vmlinux.llvm.good [0xc0101cd8] <+80>: vmsr fpexc, r0 vmlinux.llvm.good [0xc0101d20			
		truncated			
<u>CVE-2024-47717</u>	linux - multiple products	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
		RISC-V: KVM: Don't zero-out PMU snapshot area before freeing data			
		With the latest Linux-6.11-rc3, the below NULL pointer crash is observed when SBI PMU snapshot is enabled for the guest and			

the grant is formatively		
the guest is forcefully		
powered-off.		
Unable to handle kernel NULL pointer dereference		
at virtual address 00000000000000508		
Oops [#1]		
Modules linked in: kvm		
CPU: 0 UID: 0 PID: 61 Comm: term-poll Not tainted		
6.11.0-rc3-00018-g44d7178dd77a #3		
Hardware name: riscv-virtio,qemu (DT)		
epc :kvm_write_guest_page+0x94/0xa6 [kvm]		
ra :kvm_write_guest_page+0x54/0xa6 [kvm]		
epc : fffffff01590e98 ra : fffffff01590e58 sp :		
ffff8f80001f39b0		
gp : ffffffff81512a60 tp : ffffaf80024872c0 t0 :		
ffffaf800247e000		
t1 : 00000000000000000 t2 : 00000000000000		
ffff8f80001f39f0		
s1 : 00007fff89ac4000 a0 : fffffff015dd7e8 a1 :		
000000000000086		
a2 : 000000000000000 a3 : ffffaf800000000 a4 :		
ffffaf80024882c0		
a5 : 000000000000000 a6 : ffffaf800328d780 a7 :		
0000000000001cc		
s2 : ffffaf800197bd00 s3 : 000000000828c4 s4 :		
ffffaf800248c000		
s5 : ffffaf800247d000 s6 : 000000000001000 s7 :		
00000000001000		
s8 : 000000000000000 s9 : 00007fff861fd500 s10:		
00000000000001		
s11: 00000000800000 t3 : 000000000004d3 t4		
: 000000000004d3		
t5 : ffffffff814126e0 t6 : ffffffff81412700		
status: 000000200000120 badaddr:		
000000000000508 cause: 000000000000000		
[<fffffff01590e98>]</fffffff01590e98>		
<pre>kvm_write_guest_page+0x94/0xa6 [kvm]</pre>		
[<fffffff015943a6>]</fffffff015943a6>		
kvm_vcpu_write_guest+0x56/0x90 [kvm]		
[<fffffff015a175c>]</fffffff015a175c>		
kvm_pmu_clear_snapshot_area+0x42/0x7e [kvm]		
[<fffffff015a1972>]</fffffff015a1972>		
kvm_riscv_vcpu_pmu_deinit.part.0+0xe0/0x14e		
[kvm]		
[<fffffff015a2ad0>]</fffffff015a2ad0>		
kvm_riscv_vcpu_pmu_deinit+0x1a/0x24 [kvm]		
[<fffffff0159b344>]</fffffff0159b344>		
kvm_arch_vcpu_destroy+0x28/0x4c [kvm]		
[<ffffffff0158e420>] kvm_destroy_vcpus+0x5a/0xda</ffffffff0158e420>		
[kvm]		
[<fffffff0159930c>]</fffffff0159930c>		
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	kvm_arch_destroy_vm+0x14/0x28 [kvm] [<fffffff01593260>] kvm_destroy_vm+0x168/0x2a0 [kvm] [<fffffff015933d4>] kvm_put_kvm+0x3c/0x58 [kvm] [<ffffffff01593412>] kvm_vm_release+0x22/0x2e [kvm] Clearly, the kvm_vcpu_write_guest() function is crashing because it is being called from kvm_pmu_clear_snapshot_area() upon guest tear down. To address the above issue, simplify the kvm_pmu_clear_snapshot_area() to</ffffffff01593412></fffffff015933d4></fffffff01593260>			
	The kvm_pmu_clear_snapshot_area() is also called when guest changes			
	PMU snapshot area of a VCPU but even in this case the previous PMU			
	snaphsot area must not be zeroed-out because the guest might have			
	reclaimed the pervious PMU snapshot area for some other purpose.			
<u>CVE-2024-47720</u> linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
multiple products	been resolved:			
p.044000	drm/amd/display: Add null check for			
	set_output_gamma in			
	dcn30_set_output_transfer_func			
	This commit adds a null check for the			
	<pre>set_output_gamma function pointer in the dcn30_set_output_transfer_func function.</pre>			
	Previously,			
	set_output_gamma was being checked for nullity at			
	line 386, but then it was being dereferenced without any nullity check at			
	line 401. This			
	could potentially lead to a null pointer dereference			
	error if set_output_gamma is indeed null.			
	To fix this, we now ensure that set_output_gamma is not null before			
	dereferencing it. We do this by adding a nullity check for			
	set_output_gamma before the call to set_output_gamma at line 401. If			

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	set_output_gamma is null, we log an error message
	and do not call the
	function.
	This fix prevents a potential null pointer dereference
	error.
	drivers/gpu/drm/amd/amdgpu//display/dc/hwss/dc
	n30/dcn30_hwseq.c:401
	dcn30_set_output_transfer_func()
	error: we previously assumed 'mpc->funcs-
	>set_output_gamma' could be null (see line 386)
	drivers/gpu/drm/amd/amdgpu//display/dc/hwss/dc
	n30/dcn30_hwseq.c
	373 bool dcn30_set_output_transfer_func(struct
	dc *dc,
	374 struct pipe_ctx *pipe_ctx,
	375 const struct dc_stream_state
	*stream)
	376 {
	377 int mpcc_id = pipe_ctx->plane_res.hubp-
	>inst;
	378 struct mpc *mpc = pipe_ctx-
	>stream_res.opp->ctx->dc->res_pool->mpc;
	379 const struct pwl_params *params = NULL;
	380 bool ret = false;
	381
	382 /* program OGAM or 3DLUT only for the
	top pipe*/
	383 if (pipe_ctx->top_pipe == NULL) {
	384 /*program rmu shaper and 3dlut in
	MPC*/
	385 ret =
	dcn30_set_mpc_shaper_3dlut(pipe_ctx, stream);
	>set_output_gamma) {
	^^^^^^^^^ If this is NULL
	387 if (stream-
	>out_transfer_func.type == TF_TYPE_HWPWL)
	388 params = &stream-
	>out_transfer_func.pwl;
	389 else if (pipe_ctx->stream-
	>out_transfer_func.type ==
	390
	TF_TYPE_DISTRIBUTED_POINTS &&
	391
	cm3_helper_translate_curve_to_hw_format(
	392 &stream-

					I
		>out_transfer_func,			
		393 &mpc->blender_params,			
		false))			
		394 params = &mpc-			
		>blender_params;			
		395 /* there are no ROM LUTs in			
		OUTGAM */			
		396 if (stream-			
		<pre>>out_transfer_func.type == TF_TYPE_PREDEFINED)</pre>			
		397 BREAK_TO_DEBUGGER();			
		398 }			
		399 }			
		400			
		> 401 mpc->funcs->set_output_gamma(mpc,			
		mpcc_id, params);			
		^^^^^ Then it			
		will crash			
		402 return ret;			
		403 }			
CVE-2023-52917	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
	p	ntb: intel: Fix the NULL vs IS_ERR() bug for			
		debugfs_create_dir()			
		The debugfs_create_dir() function returns error			
		pointers.			
		It never returns NULL. So use IS ERR() to check it.			
CVE-2024-47724	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:	20212021	515	meanann
	products				
	p	wifi: ath11k: use work queue to process beacon tx			
		event			
		Commit 3a415daa3e8b ("wifi: ath11k: add P2P IE in			
		beacon template")			
		from Feb 28, 2024 (linux-next), leads to the following			
		Smatch static			
		checker warning:			
		drivers/net/wireless/ath/ath11k/wmi.c:1742			
		ath11k_wmi_p2p_go_bcn_ie()			
		warn: sleeping in atomic context			
		The reason is that ath11k_bcn_tx_status_event() will			
		directly call might			
		sleep function ath11k_wmi_cmd_send() during RCU			
		read-side critical			
		sections. The call trace is like:			
L					

		ath11k here the status avent()			
		ath11k_bcn_tx_status_event() -> rcu_read_lock()			
		-> ath11k_mac_bcn_tx_event() -> ath11k mac setup bcn tmpl()			
		\sim ath 11k which can take ()			
		-> ath11k_wmi_bcn_tmpl()			
		-> ath11k_wmi_cmd_send()			
		-> rcu_read_unlock()			
		Commit 89642220842E ("ath11k; add support for BSS			
		Commit 886433a98425 ("ath11k: add support for BSS color change") added the			
		ath11k_mac_bcn_tx_event(), commit 01e782c89108			
		("ath11k: fix warning			
		of RCU usage for			
		ath11k_mac_get_arvif_by_vdev_id()") added the RCU			
		lock			
		to avoid warning but also introduced this BUG.			
		Use work queue to avoid directly calling			
		ath11k_mac_bcn_tx_event()			
		during RCU critical sections. No need to worry about			
		the deletion of vif			
		because cancel_work_sync() will drop the work if it			
		doesn't start or			
		block vif deletion until the running work is done.			
		Tested-on: WCN6855 hw2.0 PCI WLAN.HSP.1.1-			
		03125-QCAHSPSWPL_V1_V2_SILICONZ_LITE- 3.6510.30			
	linux -		2024-10-21	5.5	Medium
<u>CVE-2024-47728</u>		In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products	haf Zara formar ADC DTD TO (LONG INT) area in			
		bpf: Zero former ARG_PTR_TO_{LONG,INT} args in			
		case of error			
		Foundly and the size is a large subject formation book			
		For all non-tracing helpers which formerly had			
		ARG_PTR_TO_{LONG,INT} as input			
		arguments, zero the value for the case of an error as			
		otherwise it could leak			
		memory. For tracing, it is not needed given			
		CAP_PERFMON can already read all			
		kernel memory anyway hence bpf_get_func_arg()			
		and bpf_get_func_ret() is skipped			
		in here.			
		Also the MTH beloes anti- lon printer value is heire			
		Also, the MTU helpers mtu_len pointer value is being			
		written but also read.			
		Technically, the MEM_UNINIT should not be there in			
		order to always force init.			
		Removing MEM_UNINIT needs more verifier rework			
1		though: MEM_UNINIT right now			

		implies two things actually: i) write into memory, ii)			
		memory does not have			
		to be initialized. If we lift MEM_UNINIT, it then			
		becomes: i) read into memory,			
		ii) memory must be initialized. This means that for			
		bpf_*_check_mtu() we're			
		readding the issue we're trying to fix, that is, it would			
		then be able to			
		write back into things like .rodata BPF maps. Follow-			
		up work will rework the			
		MEM_UNINIT semantics such that the intent can be			
		better expressed. For now			
		just clear the *mtu_len on error path which can be			
		lifted later again.			
<u>CVE-2024-47729</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	linux_kern	been resolved:			
	el				
		drm/xe: Use reserved copy engine for user binds on			
		faulting devices			
		User binds map to engines with can fault, faults			
		depend on user binds			
		completion, thus we can deadlock. Avoid this by using			
		reserved copy			
		engine for user binds on faulting devices.			
		While we are here, normalize bind queue creation			
		with a helper.			
		v2:			
		- Pass in extensions to bind queue creation (CI)			
		v3:			
		- s/resevered/reserved (Lucas)			
		- Fix NULL hwe check (Jonathan)			
CVE-2024-47731	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		drivers/perf: Fix ali_drw_pmu driver interrupt status			
		clearing			
		The alibaba_uncore_pmu driver forgot to clear all			
		interrupt status			
		in the interrupt processing function. After the PMU			
		counter overflow			
		interrupt occurred, an interrupt storm occurred,			
		causing the system			
		to hang.			
		Therefore, clear the correct interrupt status in the			
		Therefore, clear the correct interrupt status in the interrupt handling			
		function to fix it.			
	I				

CVE 2024 47722	linuv	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>CVE-2024-47733</u>	linux - multiple	been resolved:	2024-10-21	5.5	weatum
	products				
	p	netfs: Delete subtree of 'fs/netfs' when netfs module			
		exits			
		In netfs_init() or fscache_proc_init(), we create			
		dentry under 'fs/netfs',			
		but in netfs_exit(), we only delete the proc entry of			
		'fs/netfs' without			
		deleting its subtree. This triggers the following			
		WARNING:			
		remove_proc_entry: removing non-empty directory			
		'fs/netfs', leaking at least 'requests' WARNING: CPU: 4 PID: 566 at fs/proc/generic.c:717			
		remove_proc_entry+0x160/0x1c0			
		Modules linked in: netfs(-)			
		CPU: 4 UID: 0 PID: 566 Comm: rmmod Not tainted			
		6.11.0-rc3 #860			
		RIP: 0010:remove_proc_entry+0x160/0x1c0			
		Call Trace:			
		<task></task>			
		netfs_exit+0x12/0x620 [netfs]			
		do_sys_delete_module.isra.0+0x14c/0x2e0			
		do_syscall_64+0x4b/0x110			
		entry_SYSCALL_64_after_hwframe+0x76/0x7e			
		=======================================			
		Therefore use remove_proc_subtree() instead of			
		remove_proc_entry() to fix the above problem.			
CVE-2024-47734	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>CVL-2024-47734</u>	multiple	been resolved:	2024-10-21	5.5	weulum
	products				
	p	bonding: Fix unnecessary warnings and logs from			
		bond_xdp_get_xmit_slave()			
		syzbot reported a WARNING in			
		<pre>bond_xdp_get_xmit_slave. To reproduce</pre>			
		this[1], one bond device (bond1) has xdpdrv, which			
		increases			
		bpf_master_redirect_enabled_key. Another bond			
		device (bond0) which is			
		unsupported by XDP but its slave (veth3) has			
		xdpgeneric that returns			
		XDP_TX. This triggers WARN_ON_ONCE() from the xdp_master_redirect().			
		To reduce unnecessary warnings and improve log			
		management, we need to			
		המהמצבוויבות, שב הפפע נט			

			r		
		delete the WARN_ON_ONCE() and add ratelimit to			
		the netdev_err().			
		[1] Steps to reproduce:			
		# Needs tx_xdp with return XDP_TX;			
		ip I add veth0 type veth peer veth1			
		ip l add veth3 type veth peer veth4			
		ip l add bond0 type bond mode 6 #			
		BOND_MODE_ALB, unsupported by XDP			
		ip I add bond1 type bond #			
		BOND_MODE_ROUNDROBIN by default			
		ip l set veth0 master bond1			
		ip l set bond1 up			
		# Increases bpf_master_redirect_enabled_key			
		ip I set dev bond1 xdpdrv object tx_xdp.o section			
		xdp_tx			
		ip l set veth3 master bond0			
		ip l set bond0 up			
		ip l set veth4 up			
		# Triggers WARN_ON_ONCE() from the			
		xdp_master_redirect()			
		ip I set veth3 xdpgeneric object tx_xdp.o section			
		xdp_tx			
CVE-2024-47735	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
	p. 0 0 0 0 00	RDMA/hns: Fix spin_unlock_irgrestore() called with			
		IRQs enabled			
		Fix missuse of spin_lock_irq()/spin_unlock_irq() when			
		spin_lock_irqsave()/spin_lock_irqrestore() was hold.			
		This was discovered through the lock debugging, and			
		the corresponding			
		log is as follows:			
		raw local irg restore() called with IRQs enabled			
		WARNING: CPU: 96 PID: 2074 at			
		kernel/locking/irqflag-debug.c:10			
		warn_bogus_irq_restore+0x30/0x40			
		Call trace:			
		warn_bogus_irq_restore+0x30/0x40			
		_raw_spin_unlock_irgrestore+0x84/0xc8			
		add_qp_to_list+0x11c/0x148 [hns_roce_hw_v2]			
		aua_qp_to_iist+0x11t/0x140 [iiiis_10te_iiw_v2]			
		has rece create an common constaron 0.0.240/0.			
		hns_roce_create_qp_common.constprop.0+0x240/0x			
		780 [hns_roce_hw_v2]			
		hns_roce_create_qp+0x98/0x160 [hns_roce_hw_v2]			
		create_qp+0x138/0x258			
		ib_create_qp_kernel+0x50/0xe8			

			1	1	1
		create_mad_qp+0xa8/0x128			
		ib_mad_port_open+0x218/0x448			
		ib_mad_init_device+0x70/0x1f8			
		add_client_context+0xfc/0x220			
		enable_device_and_get+0xd0/0x140			
		ib_register_device.part.0+0xf4/0x1c8			
		ib_register_device+0x34/0x50			
		hns_roce_register_device+0x174/0x3d0 [hns_roce_hw_v2]			
		hns_roce_init+0xfc/0x2c0 [hns_roce_hw_v2]			
		hns_roce_hw_v2_init_instance+0x7c/0x1d0			
		[hns_roce_hw_v2]			
		hns_roce_hw_v2_init_instance+0x9c/0x180			
		[hns_roce_hw_v2]			
CVE-2024-47736	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
012 202 1 11/00	multiple	been resolved:	20212021	5.5	medium
	products				
	P	erofs: handle overlapped pclusters out of crafted			
		images properly			
		syzbot reported a task hang issue due to a deadlock			
		case where it is			
		waiting for the folio lock of a cached folio that will be			
		used for			
		cache I/Os.			
		After looking into the crafted fuzzed image, I found			
		it's formed with			
		several overlapped big pclusters as below:			
		Ext: logical offset length : physical offset			
		length			
		0: 0 16384 16384 : 151552 167936			
		16384			
		1: 16384 32768 16384 : 155648 172032			
		16384			
		2: 32768 49152 16384 : 537223168			
		537239552 16384			
		· · · · · · · · · · · · · · · · · · ·			
		Here, extent 0/1 are physically overlapped although			
		it's entirely			
		impossible for normal filesystem images generated			
		by mkfs.			
		First, managed folios containing compressed data will			
		be marked as			
		up-to-date and then unlocked immediately (unlike in-			
		place folios) when			
		compressed I/Os are complete. If physical blocks are not submitted in			
		ווטר שטוווונוכע ווו			

					,
		the incremental order, there should be separate BIOs			
		to avoid dependency			
		issues. However, the current code mis-arranges			
		z_erofs_fill_bio_vec()			
		and BIO submission which causes unexpected BIO			
		waits.			
		Second, managed folios will be connected to their			
		own pclusters for			
		efficient inter-queries. However, this is somewhat			
		hard to implement			
		easily if overlapped big pclusters exist. Again, these			
		only appear in			
		fuzzed images so let's simply fall back to temporary			
		short-lived pages			
		for correctness.			
		Additionally, it justifies that referenced managed			
		folios cannot be			
		truncated for now and reverts part of commit			
		2080ca1ed3e4 ("erofs: tidy			
		up `struct z_erofs_bvec`") for simplicity although it			
		shouldn't be any			
		difference.			
<u>CVE-2024-47737</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		nfsd: call cache_put if xdr_reserve_space returns			
		NULL			
		If not enough buffer space available, but			
		idmap_lookup has triggered			
		lookup_fn which calls cache_get and returns			
		successfully. Then we			
		missed to call cache_put here which pairs with			
		cache_get.			
		Reviwed-by: Jeff Layton <jlayton@kernel.org></jlayton@kernel.org>			
<u>CVE-2024-47739</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		padata: use integer wrap around to prevent deadlock			
		on seq_nr overflow			
		When submitting more than 2^32 padata objects to			
		padata_do_serial, the			
		current sorting implementation incorrectly sorts			
		padata objects with			
		overflowed seq_nr, causing them to be placed before			
		existing objects in			
		the reorder list. This leads to a deadlock in the			

				1	
		serialization process			
		as padata_find_next cannot match padata->seq_nr			
		and pd->processed			
		because the padata instance with overflowed seq_nr			
		will be selected			
		next.			
		To fix this, we use an unsigned integer wrap around			
		to correctly sort			
		padata objects in scenarios with integer overflow.			
	1:		2024 10 21		
<u>CVE-2024-47743</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		KEYS: prevent NULL pointer dereference in			
		find_asymmetric_key()			
		In find_asymmetric_key(), if all NULLs are passed in			
		the id_{0,1,2}			
		arguments, the kernel will first emit WARN but then			
		have an oops			
		because id_2 gets dereferenced anyway.			
		Add the missing id_2 check and move WARN_ON() to			
		the final else branch			
		to avoid duplicate NULL checks.			
		Found by Linux Verification Contex (linuxtesting eve)			
		Found by Linux Verification Center (linuxtesting.org)			
		with Svace static			
		analysis tool.			
<u>CVE-2024-47744</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		KVM: Use dedicated mutex to protect			
		kvm_usage_count to avoid deadlock			
		Use a dedicated mutex to guard kvm_usage_count to			
		fix a potential deadlock			
		on x86 due to a chain of locks and SRCU			
		synchronizations. Translating the			
		below lockdep splat, CPU1 #6 will wait on CPU0 #1,			
		CPU0 #8 will wait on			
		CPU2 #3, and CPU2 #7 will wait on CPU1 #4 (if there's			
		a writer, due to the			
		fairness of r/w semaphores).			
		CPU0 CPU1 CPU2			
		1 lock(&kvm->slots_lock);			
		2 lock(&vcpu->mutex);			
		3 lock(&kvm->srcu);			
		4 lock(cpu_hotplug_lock);			
		5 lock(kvm_lock);			
	1		1	t	1

[]			I
	6 lock(&kvm->slots_lock); 7		
	/ lock(cpu_hotplug_lock);		
	8 sync(&kvm->srcu);		
	o sync(akvin-zsica),		
	Note, there are likely more potential deadlocks in		
	KVM x86, e.g. the same		
	pattern of taking cpu_hotplug_lock outside of		
	kvm_lock likely exists with		
	kvmclock_cpufreq_notifier():		
	cpuhp_cpufreq_online()		
	-> cpufreq_online()		
	<pre>-> cpufreq_gov_performance_limits()</pre>		
	->cpufreq_driver_target()		
	->target_index()		
	-> cpufreq_freq_transition_begin()		
	construct notify transition()		
	-> cpufreq_notify_transition()		
	ا ->kvmclock_cpufreq_notifier()		
	But, actually triggering such deadlocks is beyond rare		
	due to the		
	combination of dependencies and timings involved.		
	E.g. the cpufreq		
	notifier is only used on older CPUs without a constant		
	TSC, mucking with		
	the NX hugepage mitigation while VMs are running is		
	very uncommon, and		
	doing so while also onlining/offlining a CPU		
	(necessary to generate		
	contention on cpu_hotplug_lock) would be even		
	more unusual.		
	The most robust solution to the general		
	cpu hotplug lock issue is likely		
	to switch vm_list to be an RCU-protected list, e.g. so		
	that x86's cpufreq		
	notifier doesn't to take kvm_lock. For now, settle for		
	fixing the most		
	blatant deadlock, as switching to an RCU-protected		
	list is a much more		
	involved change, but add a comment in locking.rst to		
	call out that care		
	needs to be taken when walking holding kvm_lock		

and walking vm_list.	
WARNING: possible circular locking dependency	
detected	
6.10.0-smpc257535a0c9d-pip #330 Tainted: G S	
0	
tee/35048 is trying to acquire lock:	
ff6a80eced71e0a8 (&kvm->slots_lock){+.+.}-{3:3},	
at: set_nx_huge_pages+0x179/0x1e0 [kvm]	
but task is already holding lock:	
fffffffc07abb08 (kvm_lock){+.+.}-{3:3}, at:	
<pre>set_nx_huge_pages+0x14a/0x1e0 [kvm]</pre>	
which lock already depends on the new lock.	
the existing dependency chain (in reverse order) is:	
-> #3 (kvm_lock){+.+.}-{3:3}:	
mutex_lock+0x6a/0xb40	
mutex_lock_nested+0x1f/0x30	
kvm_dev_ioctl+0x4fb/0xe50 [kvm]	
se_sys_ioctl+0x7b/0xd0	
x64_sys_ioctl+0x21/0x30	
x64_sys_call+0x15d0/0x2e60	
do_syscall_64+0x83/0x160	
entry_SYSCALL_64_after_hwframe+0x76/0x7e	
-> #2 (cpu_hotplug_lock){++++}-{0:0}:	
cpus_read_lock+0x2e/0xb0	
static_key_slow_inc+0x16/0x30	
kvm lapic set base+0x6a/0x1c0 [kvm]	
kvm_set_apic_base+0x8f/0xe0 [kvm]	
kvm_set_msr_common+0x9ae/0xf80 [kvm]	
vmx_set_msr+0xa54/0xbe0 [kvm_intel]	
kvm set msr+0xb6/0x1a0 [kvm]	
kvm_arch_vcpu_ioctl+0xeca/0x10c0 [kvm]	
kvm_vcpu_ioctl+0x485/0x5b0 [kvm]	
se_sys_ioctl+0x7b/0xd0	
x64_sys_ioctl+0x21/0x30	
x64_sys_call+0x15d0/0x2e60	
do_syscall_64+0x83/0x160	
entry_SYSCALL_64_after_hwframe+0x76/0x7e	
-> #1 (&kvm->srcu){.+.+}-{0:0}:	
synchronize srcu+0x44/0x1a0	

		truncated			
CVE-2024-47746	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		fuse: use exclusive lock when			
		FUSE_I_CACHE_IO_MODE is set			
		This may be a typo. The comment has said shared			
		locks are			
		not allowed when this bit is set. If using shared lock,			
		the			
		wait in `fuse_file_cached_io_open` may be forever.			
<u>CVE-2024-47749</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple products	been resolved:			
	products	RDMA/cxgb4: Added NULL check for lookup atid			
		The lookup_atid() function can return NULL if the			
		ATID is			
		invalid or does not exist in the identifier table, which			
		could lead to dereferencing a null pointer without a			
		check in the `act_establish()` and `act_open_rpl()` functions.			
		Add a NULL check to prevent null pointer			
		dereferencing.			
		Ŭ			
		Found by Linux Verification Center (linuxtesting.org)			
		with SVACE.			
<u>CVE-2024-47752</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple products	been resolved:			
	products	media: mediatek: vcodec: Fix H264 stateless decoder			
		smatch warning			
		Fix a smatch static checker warning on			
		vdec_h264_req_if.c.			
	linus	Which leads to a kernel crash when fb is NULL.	2024 10 21	F F	Medium
<u>CVE-2024-47753</u>	linux - multiple	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	iviedium
	products				
	1	media: mediatek: vcodec: Fix VP8 stateless decoder			
		smatch warning			
		Fix a smatch static checker warning on			
		vdec_vp8_req_if.c.			
CVE-2024-47754	linux -	Which leads to a kernel crash when fb is NULL. In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>CVL 2024-47734</u>	multiple	been resolved:	2024-10-21	J.J	weulum
	products				
		media: mediatek: vcodec: Fix H264 multi stateless			
		media: mediatek: vcodec: Fix H264 multi stateless			

		decoder smatch warning			
		Fix a smatch static checker warning on			
		vdec_h264_req_multi_if.c.			
		Which leads to a kernel crash when fb is NULL.			
<u>CVE-2024-47756</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple products	been resolved:			
	p	PCI: keystone: Fix if-statement expression in ks_pcie_quirk()			
		This code accidentally uses && where was			
		intended. It potentially			
		results in a NULL dereference.			
		Thus, fix the if-statement expression to use the correct condition.			
	liner	[kwilczynski: commit log]	2024 40 24		Madium
<u>CVE-2024-49850</u>	linux - multiple products	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	products	bpf: correctly handle malformed			
		BPF_CORE_TYPE_ID_LOCAL relos			
		In case of malformed relocation record of kind			
		BPF_CORE_TYPE_ID_LOCAL			
		referencing a non-existing BTF type, function bpf_core_calc_relo_insn			
		would cause a null pointer deference.			
		Fix this by adding a proper check upper in call stack, as malformed			
		relocation records could be passed from user space.			
		Simplest reproducer is a program:			
		r0 = 0			
		exit			
		With a single relocation record:			
		.insn_off = 0, /* patch first instruction */			
		.type_id = 100500, /* this type id does not exist			
		/ .access_str_off = 6, / offset of string "0" */			
		.kind = BPF_CORE_TYPE_ID_LOCAL,			
		See the link for original reproducer or next commit			
		for a test case.			

CVE-2024-49851	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>CVL 2024 45051</u>	multiple	been resolved:	2024 10 21	5.5	Wiedlam
	products				
		tpm: Clean up TPM space after command failure			
		tpm_dev_transmit prepares the TPM space before			
		attempting command			
		transmission. However if the command fails no			
		rollback of this			
		preparation is done. This can result in transient			
		handles being leaked if the device is subsequently closed with no further			
		commands performed.			
		Fix this by flushing the space in the event of			
		command transmission			
		failure.			
CVE-2024-49856	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products	x86/sgx: Fix deadlock in SGX NUMA node search			
		Nov sgx. The deadlock in SGX Norma hode search			
		When the current node doesn't have an EPC section			
		configured by firmware			
		and all other EPC sections are used up, CPU can get			
		stuck inside the			
		while loop that looks for an available EPC page from remote nodes			
		indefinitely, leading to a soft lockup. Note how			
		nid_of_current will			
		never be equal to nid in that while loop because			
		nid_of_current is not			
		set in sgx_numa_mask.			
		Also worth mentioning is that it's perfectly fine for			
		the firmware not			
		to setup an EPC section on a node. While setting up			
		an EPC section on each node can enhance performance, it is not a			
		requirement for			
		functionality.			
		Rework the loop to start and end on *a* node that			
		has SGX memory. This			
		avoids the deadlock looking for the current SGX-			
		lacking node to show up			
01/5 2024 40255	1: -	in the loop when it never will.	2024 40 24		
<u>CVE-2024-49857</u>	linux - linux_kern	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	el				
		wifi: iwlwifi: mvm: set the cipher for secured NDP			
	•	· · ·	•		

		ranging			
		<u>מיישייט</u>			
		The cipher pointer is not set, but is derefereced trying			
		to set its			
		content, which leads to a NULL pointer dereference.			
		Fix it by pointing to the cipher parameter before			
		dereferencing.			
<u>CVE-2024-49858</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products	efistub/tpm: Use ACPI reclaim memory for event log			
		to avoid corruption			
		The TPM event log table is a Linux specific construct,			
		where the data			
		produced by the GetEventLog() boot service is cached			
		in memory, and			
		passed on to the OS using an EFI configuration table.			
		The use of FELLOADED DATA have require in the			
		The use of EFI_LOADER_DATA here results in the region being left			
		unreserved in the E820 memory map constructed by			
		the EFI stub, and this			
		is the memory description that is passed on to the			
		incoming kernel by			
		kexec, which is therefore unaware that the region			
		should be reserved.			
		Even though the utility of the TPM2 event log after a			
		kexec is			
		questionable, any corruption might send the parsing code off into the			
		weeds and crash the kernel. So let's use			
		EFI_ACPI_RECLAIM_MEMORY			
		instead, which is always treated as reserved by the			
		E820 conversion			
		logic.			
CVE-2024-49863	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		vhost/scsi: null-ptr-dereference in			
		vhost_scsi_get_req()			
		Since commit 3f8ca2e115e5 ("vhost/scsi: Extract			
		common handling code			
		from control queue handler") a null pointer			
		dereference bug can be			
		triggered when guest sends an SCSI AN request.			
		In vhost_scsi_ctl_handle_vq(), `vc.target` is assigned			
		with			

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	`&v_req.tmf.lun[1]` within a switch-case block and is		
	then passed to vhost_scsi_get_req() which extracts `vc->req` and		
	`tpg`. However, for		
	a `VIRTIO_SCSI_T_AN_*` request, tpg is not required,		
	so 'vc.target' is		
	set to NULL in this branch. Later, in		
	vhost_scsi_get_req(),		
	`vc->target` is dereferenced without being checked,		
	leading to a null		
	pointer dereference bug. This bug can be triggered		
	from guest.		
	When this bug occurs, the vhost_worker process is		
	killed while holding		
	`vq->mutex` and the corresponding tpg will remain		
	occupied indefinitely.		
	indemittely.		
	Below is the KASAN report:		
	Oops: general protection fault, probably for non-		
	canonical address		
	0xdffffc0000000000: 0000 [#1] PREEMPT SMP KASAN		
	NOPTI		
	KASAN: null-ptr-deref in range		
	[0x00000000000000-0x000000000000000007]		
	CPU: 1 PID: 840 Comm: poc Not tainted 6.10.0+ #1		
	Hardware name: QEMU Ubuntu 24.04 PC (i440FX +		
	PIIX, 1996), BIOS		
	1.16.3-debian-1.16.3-2 04/01/2014		
	RIP: 0010:vhost_scsi_get_req+0x165/0x3a0		
	Code: 00 fc ff df 48 89 fa 48 c1 ea 03 80 3c 02 00 0f 85		
	2b 02 00 00		
	48 b8 00 00 00 00 00 fc ff df 4d 8b 65 30 4c 89 e2 48 c1 ea 03 <0f> b6		
	04 02 4c 89 e2 83 e2 07 38 d0 7f 08 84 c0 0f 85 be 01		
	00 00		
	RSP: 0018:ffff888017affb50 EFLAGS: 00010246		
	RAX: dffffc000000000 RBX: ffff88801b000000 RCX:		
	00000000000000		
	RDX: 00000000000000 RSI: 000000000000000		
	RDI: ffff888017affcb8		
	RBP: ffff888017affb80 R08: 000000000000000 R09:		
	00000000000000		
	R10: 00000000000000 R11: 000000000000000		
	R12: 000000000000000		
	R13: ffff888017affc88 R14: ffff888017affd1c R15:		
	ffff888017993000		
	FS: 000055556e076500(0000)		
	GS:ffff88806b100000(0000)		
	knlGS:00000000000000		

		CS: 0010 DS: 0000 ES: 0000 CR0: 000000080050033			
		CR2: 0000000200027c0 CR3: 000000010ed0004			
		CR4: 00000000370ef0			
		Call Trace:			
		<task></task>			
		? show_regs+0x86/0xa0			
		? die_addr+0x4b/0xd0			
		? exc_general_protection+0x163/0x260			
		? asm_exc_general_protection+0x27/0x30			
		? vhost_scsi_get_req+0x165/0x3a0			
		vhost_scsi_ctl_handle_vq+0x2a4/0xca0			
		?pfx_vhost_scsi_ctl_handle_vq+0x10/0x10			
		?switch_to+0x721/0xeb0			
		?schedule+0xda5/0x5710			
		?kasan_check_write+0x14/0x30			
		?_raw_spin_lock+0x82/0xf0			
		vhost_scsi_ctl_handle_kick+0x52/0x90			
		vhost_run_work_list+0x134/0x1b0			
		vhost_task_fn+0x121/0x350			
		[end trace 000000000000000]			
		Let's add a check in vhost_scsi_get_req.			
		[whitespace fixes]			
CVE-2024-49867	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>CVL-2024-45007</u>	multiple	been resolved:	2024-10-21	5.5	Weddun
		been resolved.			
	products	http://wait.for.fivun.warkars.hafara.stanning.alaanar			
		btrfs: wait for fixup workers before stopping cleaner			
		kthread during umount			
		During unmount, at close_ctree(), we have the			
		following steps in this order:			
		1) Park the cleaner kthread - this doesn't destroy the			
		kthread, it basically			
		halts its execution (wake ups against it work but do			
		nothing);			
		2) We stop the cleaner kthread - this results in freeing			
		the respective			
		struct task_struct;			
		3) We call btrfs_stop_all_workers() which waits for			
		any jobs running in all			
		the work queues and then free the work queues.			
1		the work queues and then hee the work queues.			
		Support reported a case where a finus worker secultar			
		Syzbot reported a case where a fixup worker resulted			
		Syzbot reported a case where a fixup worker resulted in a crash when doing a delayed iput on its inode while attempting to wake			

		1	
	up the cleaner at		
	<pre>btrfs_add_delayed_iput(), because the task_struct of</pre>		
	the cleaner kthread		
	was already freed. This can happen during unmount		
	because we don't wait		
	for any fixup workers still running before we call		
	kthread_stop() against		
	the cleaner kthread, which stops and free all its		
	resources.		
	Fix this by waiting for any fixup workers at		
	close_ctree() before we call		
	kthread_stop() against the cleaner and run pending		
	delayed iputs.		
	The stack traces reported by syzbot were the		
	following:		
	BUG: KASAN: slab-use-after-free in		
	lock_acquire+0x77/0x2050		
	kernel/locking/lockdep.c:5065		
	Read of size 8 at addr ffff8880272a8a18 by task		
	kworker/u8:3/52		
	CPU: 1 UID: 0 PID: 52 Comm: kworker/u8:3 Not		
	tainted 6.12.0-rc1-syzkaller #0		
	Hardware name: Google Google Compute		
	Engine/Google Compute Engine, BIOS Google		
	09/13/2024		
	Workqueue: btrfs-fixup btrfs_work_helper		
	Call Trace:		
	<task></task>		
	dump_stack lib/dump_stack.c:94 [inline]		
	dump_stack_lvl+0x241/0x360 lib/dump_stack.c:120		
	print_address_description mm/kasan/report.c:377		
	[inline]		
	print_report+0x169/0x550 mm/kasan/report.c:488		
	kasan_report+0x143/0x180 mm/kasan/report.c:601		
	lock_acquire+0x77/0x2050		
	kernel/locking/lockdep.c:5065		
	lock_acquire+0x1ed/0x550		
	kernel/locking/lockdep.c:5825		
	raw_spin_lock_irqsave		
	include/linux/spinlock_api_smp.h:110 [inline]		
	_raw_spin_lock_irqsave+0xd5/0x120		
	kernel/locking/spinlock.c:162		
	class_raw_spinlock_irqsave_constructor		
	include/linux/spinlock.h:551 [inline]		
	try_to_wake_up+0xb0/0x1480		
	kernel/sched/core.c:4154		
	btrfs_writepage_fixup_worker+0xc16/0xdf0		
L I		II	II

fs/btrfs/inode.c:2842		
btrfs_work_helper+0x390/0xc50 fs/btrfs/async-		
thread.c:314		
process_one_work kernel/workqueue.c:3229		
[inline]		
process_scheduled_works+0xa63/0x1850		
kernel/workqueue.c:3310		
worker_thread+0x870/0xd30		
kernel/workqueue.c:3391		
kthread+0x2f0/0x390 kernel/kthread.c:389		
ret_from_fork+0x4b/0x80		
arch/x86/kernel/process.c:147		
ret_from_fork_asm+0x1a/0x30		
arch/x86/entry/entry_64.S:244		
Allocated by task 2:		
kasan_save_stack mm/kasan/common.c:47 [inline]		
kasan_save_track+0x3f/0x80		
mm/kasan/common.c:68		
unpoison_slab_object mm/kasan/common.c:319		
[inline]		
kasan_slab_alloc+0x66/0x80		
mm/kasan/common.c:345		
kasan_slab_alloc include/linux/kasan.h:247 [inline]		
slab_post_alloc_hook mm/slub.c:4086 [inline]		
slab_alloc_node mm/slub.c:4135 [inline]		
kmem_cache_alloc_node_noprof+0x16b/0x320		
mm/slub.c:4187		
alloc_task_struct_node kernel/fork.c:180 [inline]		
dup_task_struct+0x57/0x8c0 kernel/fork.c:1107		
copy_process+0x5d1/0x3d50 kernel/fork.c:2206		
kernel_clone+0x223/0x880 kernel/fork.c:2787		
kernel thread+0x1bc/0x240 kernel/fork.c:2849		
create_kthread kernel/kthread.c:412 [inline]		
kthreadd+0x60d/0x810 kernel/kthread.c:765		
ret_from_fork+0x4b/0x80		
arch/x86/kernel/process.c:147		
ret_from_fork_asm+0x1a/0x30		
arch/x86/entry/entry_64.S:244		
· · · · · · · · · · · · · · · · · · ·		
Freed by task 61:		
kasan_save_stack mm/kasan/common.c:47 [inline]		
kasan_save_track+0x3f/0x80		
mm/kasan/common.c:68		
kasan_save_free_info+0x40/0x50		
mm/kasan/generic.c:579		
poison_slab_object mm/kasan/common.c:247		
[inline]		
kasan_slab_free+0x59/0x70		
mm/kasan/common.c:264		
, ,	<u> </u>	

		kasan_slab_free include/linux/kasan.h:230 [inline] slab_free_h truncated			
<u>CVE-2024-49868</u>	linux - multiple products	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	products	btrfs: fix a NULL pointer dereference when failed to start a new trasacntion			
		[BUG] Syzbot reported a NULL pointer dereference with the following crash:			
		FAULT_INJECTION: forcing a failure. start_transaction+0x830/0x1670 fs/btrfs/transaction.c:676			
		prepare_to_relocate+0x31f/0x4c0 fs/btrfs/relocation.c:3642 relocate_block_group+0x169/0xd20			
		fs/btrfs/relocation.c:3678 BTRFS info (device loop0): balance: ended with			
		status: -12 Oops: general protection fault, probably for non- canonical address 0xdffffc00000000cc: 0000 [#1] PREEMPT SMP KASAN NOPTI			
		KASAN: null-ptr-deref in range [0x00000000000660-0x000000000000667] RIP: 0010:btrfs_update_reloc_root+0x362/0xa80			
		fs/btrfs/relocation.c:926 Call Trace: <task> commit_fs_roots+0x2ee/0x720</task>			
		fs/btrfs/transaction.c:1496 btrfs_commit_transaction+0xfaf/0x3740 fs/btrfs/transaction.c:2430			
		del_balance_item fs/btrfs/volumes.c:3678 [inline] reset_balance_state+0x25e/0x3c0 fs/btrfs/volumes.c:3742			
		btrfs_balance+0xead/0x10c0 fs/btrfs/volumes.c:4574 btrfs_ioctl_balance+0x493/0x7c0			
		fs/btrfs/ioctl.c:3673 vfs_ioctl fs/ioctl.c:51 [inline] do_sys_ioctl fs/ioctl.c:907 [inline] se_sys_ioctl+0xf9/0x170 fs/ioctl.c:893			
		do_syscall_x64 arch/x86/entry/common.c:52 [inline] do_syscall_64+0xf3/0x230			
		arch/x86/entry/common.c:83 entry_SYSCALL_64_after_hwframe+0x77/0x7f			

[,
		[CAUSE] The allocation failure happens at the			
		start_transaction() inside			
		prepare_to_relocate(), and during the error handling			
		we call			
		unset_reloc_control(), which makes fs_info-			
		>balance_ctl to be NULL.			
		Then we continue the error path cleanup in			
		btrfs_balance() by calling			
		reset_balance_state() which will call			
		del_balance_item() to fully delete			
		the balance item in the root tree.			
		However during the small window between			
		set_reloc_contrl() and			
		unset_reloc_control(), we can have a subvolume tree			
		update and created a			
		reloc_root for that subvolume.			
		Then we go into the final btrfs_commit_transaction()			
		of			
		del_balance_item(), and into			
		btrfs_update_reloc_root() inside			
		commit_fs_roots().			
		That function checks if fs_info->reloc_ctl is in the			
		merge_reloc_tree			
		stage, but since fs_info->reloc_ctl is NULL, it results a			
		NULL pointer			
		dereference.			
		[FIX] Just add extra check on fs_info->reloc_ctl inside			
		btrfs_update_reloc_root(), before checking			
		fs_info->reloc_ctl->merge_reloc_tree.			
		That DEAD_RELOC_TREE handling is to prevent			
		further modification to the			
		reloc tree during merge stage, but since there is no			
		reloc_ctl at all,			
		we do not need to bother that.			
CVE-2024-49870	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		cachefiles: fix dentry leak in cachefiles_open_file()			
		A deptry look may be equed where a look we call it.			
		A dentry leak may be caused when a lookup cookie and a cull are concurrent:			
		and a cuil are concurrent:			
				l	

P1 P2	
cachefiles_lookup_cookie	
cachefiles_look_up_object	
lookup_one_positive_unlocked	
// get dentry	
cachefiles_cull	
inode->i_flags = S_KERNEL_FILE;	
cachefiles_open_file	
cachefiles_mark_inode_in_use	
cachefiles_mark_inode_in_use	
can_use = false	
if (!(inode->i_flags & S_KERNEL_FILE))	
can_use = true	
return false	
return false	
<pre>// Returns an error but doesn't put dentry</pre>	
After that the following WARNING will be triggered	
when the backend folder	
is umounted:	
BUG: Dentry 00000008ad87947{i=7a,n=Dx_1_1.img}	
still in use (1) [unmount of ext4 sda]	
WARNING: CPU: 4 PID: 359261 at fs/dcache.c:1767	
umount_check+0x5d/0x70	
CPU: 4 PID: 359261 Comm: umount Not tainted 6.6.0-	
dirty #25	
RIP: 0010:umount_check+0x5d/0x70	
Call Trace:	
<task></task>	
d walk+0xda/0x2b0	
do_one_tree+0x20/0x40	
shrink_dcache_for_umount+0x2c/0x90	
generic_shutdown_super+0x20/0x160	
kill_block_super+0x1a/0x40	
ext4_kill_sb+0x22/0x40	
deactivate_locked_super+0x35/0x80	
cleanup_mnt+0x104/0x160	
Whether cachefiles_open_file() returns true or false,	
the reference count	
obtained by lookup_positive_unlocked() in	
cachefiles_look_up_object()	
should be released.	
Therefore release that reference count in	
Therefore release that reference count in	
cachefiles_look_up_object() to	
fix the above issue and simplify the code.	

01/5 2024 40074	L	In the Linear Leaned, the following and solution because	2024 10 21		N 4 a alterna
<u>CVE-2024-49871</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		Input: adp5589-keys - fix NULL pointer dereference			
		We register a devm action to call			
		adp5589_clear_config() and then pass			
		the i2c client as argument so that we can call			
		i2c_get_clientdata() in			
		order to get our device object. However,			
		i2c_set_clientdata() is only			
		being set at the end of the probe function which			
		means that we'll get a			
		NULL pointer dereference in case the probe function			
		fails early.			
CVE-2024-49873	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	linux_kern	been resolved:			
	el				
		mm/filemap: fix filemap_get_folios_contig THP panic			
		Patch series "memfd-pin huge page fixes".			
		Fix multiple bugs that occur when using			
		memfd_pin_folios with hugetlb			
		pages and THP. The hugetlb bugs only bite when the			
		page is not yet			
		faulted in when memfd_pin_folios is called. The THP			
		bug bites when the			
		starting offset passed to memfd_pin_folios is not			
		huge page aligned. See			
		the commit messages for details.			
		This patch (of 5):			
		memfd_pin_folios on memory backed by THP panics			
		if the requested start			
		offset is not huge page aligned:			
		BUG: kernel NULL pointer dereference, address:			
		0000000000036			
		RIP: 0010:filemap_get_folios_contig+0xdf/0x290			
		RSP: 0018:ffffc9002092fbe8 EFLAGS: 00010202			
		RAX: 000000000000002 RBX: 0000000000000000			
		RCX: 000000000000002			
		The fault occurs here, because xas_load returns a			
		folio with value 2:			
		filemap_get_folios_contig()			
		for (folio = xas_load(&xas); folio && xas.xa_index			
			•		

		<= end;			
		folio = xas_next(&xas)) {			
		 if (!folio_try_get(folio)) < BOOM			
		"2" is an xarray sibling entry. We get it because			
		memfd_pin_folios does			
		not round the indices passed to			
		filemap_get_folios_contig to huge page			
		boundaries for THP, so we load from the middle of a			
		huge page range see a			
		sibling. (It does round for hugetlbfs, at the			
		is_file_hugepages test).			
		To fix, if the folio is a sibling, then return the next			
		index as the			
		starting point for the next call to			
		filemap_get_folios_contig.			
<u>CVE-2024-49875</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		nfsd: map the EBADMSG to nfserr_io to avoid			
		warning			
		Ext4 will throw -EBADMSG through ext4_readdir			
		when a checksum error			
		occurs, resulting in the following WARNING.			
		Fix it by mapping EBADMSG to nfserr_io.			
		nfsd_buffered_readdir			
		iterate_dir // -EBADMSG -74			
		ext4_readdir // .iterate_shared			
		ext4_dx_readdir			
		ext4_htree_fill_tree			
		htree_dirblock_to_tree			
		ext4_read_dirblock			
		ext4_read_dirblock			
		ext4_dirblock_csum_verify			
		warn_no_space_for_csum			
		warn_no_space_for_csum			
		return ERR_PTR(-EFSBADCRC) // -EBADMSG -74 nfserrno // WARNING			
		[161.115610][cut here]			
		[161.116465] nfsd: non-standard errno: -74			
		[161.117315] WARNING: CPU: 1 PID: 780 at			
		fs/nfsd/nfsproc.c:878 nfserrno+0x9d/0xd0			
		[161.118596] Modules linked in:			
		[161.119243] CPU: 1 PID: 780 Comm: nfsd Not			
		tainted 5.10.0-00014-g79679361fd5d #138			

[161.120684] Hardware name: QEMU Standard PC		
(i440FX + PIIX, 1996), BIOS rel-1.14.0-0-		
g155821a1990b-prebuilt.qe		
mu.org 04/01/2014		
[161.123601] RIP: 0010:nfserrno+0x9d/0xd0		
[161.124676] Code: 0f 87 da 30 dd 00 83 e3 01 b8		
00 00 00 05 75 d7 44 89 ee 48 c7 c7 c0 57 24 98 89 44		
24 04 c6		
05 ce 2b 61 03 01 e8 99 20 d8 00 <0f> 0b 8b 44 24 04		
eb b5 4c 89 e6 48 c7 c7 a0 6d a4 99 e8 cc 15 33		
[161.127797] RSP: 0018:ffffc90000e2f9c0 EFLAGS:		
00010286		
[161.128794] RAX: 000000000000000 RBX:		
00000000000000 RCX: 0000000000000000		
[161.130089] RDX: 1ffff1103ee16f6d RSI:		
000000000000008 RDI: fffff520001c5f2a		
[161.131379] RBP: 000000000000022 R08:		
000000000000001 R09: ffff8881f70c1827		
[161.132664] R10: ffffed103ee18304 R11:		
000000000000001 R12: 000000000000021		
[161.133949] R13: 00000000ffffffb6 R14:		
ffff8881317c0000 R15: ffffc90000e2fbd8		
[161.135244] FS: 00000000000000000000000000000000000		
GS:ffff8881f7080000(0000)		
knlGS:00000000000000		
[161.136695] CS: 0010 DS: 0000 ES: 0000 CR0:		
000000080050033		
[161.137761] CR2: 00007fcaad70b348 CR3:		
000000144256006 CR4: 000000000770ee0		
[161.139041] DR0: 000000000000000 DR1:		
00000000000000 DR2: 0000000000000000		
[161.140291] DR3: 000000000000000 DR6:		
00000000fffe0ff0 DR7: 0000000000000400		
[161.141519] PKRU: 55555554		
[161.142076] Call Trace:		
[161.142575] ?warn+0x9b/0x140		
[161.143229] ? nfserrno+0x9d/0xd0		
[161.143872] ? report bug+0x125/0x150		
[161.144595] ? handle_bug+0x41/0x90		
[161.145284] ? exc_invalid_op+0x14/0x70		
[161.146009] ? asm_exc_invalid_op+0x12/0x20		
[161.146816] ? nfserrno+0x9d/0xd0		
[161.147487] nfsd_buffered_readdir+0x28b/0x2b0		
[161.148333] ?		
nfsd4_encode_dirent_fattr+0x380/0x380		
[161.149258] ? nfsd_buffered_filldir+0xf0/0xf0		
[161.149238] ? Inst_burrered_initia (0x10)0x10		
wait_for_concurrent_writes+0x170/0x170		
[161.151004] ? generic_file_llseek_size+0x48/0x160		
[161.151895] nfsd_readdir+0x132/0x190		
[161.151895] [161.152/00190 [161.152606] ?		
	I	

	1			1	1
		nfsd4_encode_dirent_fattr+0x380/0x380			
		[161.153516] ? nfsd_unlink+0x380/0x380			
		[161.154256] ? override_creds+0x45/0x60			
		[161.155006] nfsd4_encode_readdir+0x21a/0x3d0			
		[161.155850] ?			
		nfsd4_encode_readlink+0x210/0x210			
		[161.156731] ? write_bytes_to_xdr_buf+0x97/0xe0			
		[161.157598] ?			
		write_bytes_to_xdr_buf+0xd0/0xd0			
		[161.158494] ? lock_downgrade+0x90/0x90			
		[161.159232] ? nfs4svc_decode_voidarg+0x10/0x10			
		[161.160092]			
		nfsd4_encode_operation+0x15a/0x440			
		[161.160959] nfsd4_proc_compound+0x718/0xe90			
		[161.161818] nfsd_dispatch+0x18e/0x2c0			
		[161.162586] svc_process_common+0x786/0xc50			
		[161.163403] ? nfsd_svc+0x380/0x380			
		[161.164137] ? svc_printk+0x160/0x160			
		[161.164846] ?			
		svc_xprt_do_enqueue.part.0+0x365/0x380			
		[161.165808] ? nfsd_svc+0x380/0x380			
		[161.166523] ? rcu_is_watching+0x23/0x40			
		[161.167309] svc_process+0x1a5/0x200			
		[161.168019] nfsd+0x1f5/0x380			
		[161.168663] ?			
		nfsd_shutdown_threads+0x260/0x260			
		[161.169554] kthread+0x1c4/0x210 [161.170224] ?			
		kthread insert work sanity check+0x80/0x80			
		[161.171246] ret from fork+0x1f/0x30			
CVE-2024-49877	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>CVL-2024-43077</u>	multiple	been resolved:	2024-10-21	5.5	Wealum
	products	been resolved.			
	products	ocfs2: fix possible null-ptr-deref in			
		ocfs2_set_buffer_uptodate			
		When doing cleanup, if flags without			
		OCFS2_BH_READAHEAD, it may trigger			
		NULL pointer dereference in the following			
		ocfs2_set_buffer_uptodate() if			
		bh is NULL.			
CVE-2024-49879	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		drm: omapdrm: Add missing check for			
		alloc_ordered_workqueue			
		As it may return NULL pointer and cause NULL			
		pointer dereference. Add check			
		for the return value of alloc_ordered_workqueue.			
L					

CVE-2024-49881	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>CVL-2024-49881</u>	multiple	been resolved:	2024-10-21	5.5	weulum
	products				
	products	ext4: update orig_path in ext4_find_extent()			
		In ext4_find_extent(), if the path is not big enough,			
		we free it and set			
		*orig_path to NULL. But after reallocating and			
		successfully initializing			
		the path, we don't update *orig_path, in which case			
		the caller gets a			
		valid path but a NULL ppath, and this may cause a			
		NULL pointer dereference			
		or a path memory leak. For example:			
		ext4_split_extent			
		path = *ppath = 2000			
		ext4_find_extent			
		if (depth > path[0].p_maxdepth)			
		kfree(path = 2000);			
		*orig_path = path = NULL;			
		path = kcalloc() = 3000			
		ext4_split_extent_at(*ppath = NULL)			
		path = *ppath;			
		ex = path[depth].p_ext;			
		// NULL pointer dereference!			
		BUG: kernel NULL pointer dereference, address:			
		000000000000000000000000000000000000000			
		CPU: 6 UID: 0 PID: 576 Comm: fsstress Not tainted			
		6.11.0-rc2-dirty #847			
		RIP: 0010:ext4_split_extent_at+0x6d/0x560			
		Call Trace:			
		<task></task>			
		ext4_split_extent.isra.0+0xcb/0x1b0			
		ext4_ext_convert_to_initialized+0x168/0x6c0			
		ext4_ext_handle_unwritten_extents+0x325/0x4d0			
		ext4_ext_map_blocks+0x520/0xdb0			
		ext4_map_blocks+0x2b0/0x690			
		ext4_iomap_begin+0x20e/0x2c0 []			
		[] =================================			
		Therefore, *orig_path is updated when the extent			
		lookup succeeds, so that			
		the caller can safely use path or *ppath.			
<u>CVE-2024-49890</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		drm/amd/pm: ensure the fw_info is not null before			

		using it			
		This resolves the dereference null return value			
		warning			
01/5 2024 40204		reported by Coverity.	2024 40 24		
<u>CVE-2024-49891</u>	linux - multiple	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	products				
		scsi: lpfc: Validate hdwq pointers before			
		dereferencing in reset/errata paths			
		When the HBA is undergoing a reset or is handling an			
		errata event, NULL ptr			
		<pre>dereference crashes may occur in routines such as lpfc_sli_flush_io_rings(), lpfc_dev_loss_tmo_callbk(),</pre>			
		or			
		lpfc_abort_handler().			
		Add NULL ptr checks before dereferencing hdwq			
		pointers that may have been			
		freed due to operations colliding with a reset or errata event handler.			
CVE-2024-49892	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products	drm (amd/display/unitialize get bytes ner element's			
		drm/amd/display: Initialize get_bytes_per_element's default to 1			
		Variables, used as denominators and maybe not assigned to other values,			
		should not be 0. bytes_per_element_y &			
		bytes_per_element_c are			
		initialized by get_bytes_per_element() which should			
		never return 0.			
		This fixes 10 DIVIDE_BY_ZERO issues reported by			
<u>CVE-2024-49893</u>	linux -	Coverity. In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>CVL-2024-43033</u>	linux_kern	been resolved:	2024-10-21	ر.ر	weulum
	el				
		drm/amd/display: Check stream_status before it is used			
		[WHAT & HOW] dc_state_get_stream_status can return null, and			
		therefore null must be			
		checked before stream_status is used.			
		This fixes 1 NULL_RETURNS issue reported by			
		Coverity.			

<u>CVE-2024-49896</u>	linux -	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	multiple products	been resolved.			
	products	drm/amd/display: Check stream before comparing			
		them			
		[WHAT & HOW]			
		amdgpu_dm can pass a null stream to			
		dc_is_stream_unchanged. It is			
		necessary to check for null before dereferencing			
		them.			
		This fixes 1 FORWARD_NULL issue reported by			
		Coverity.			
<u>CVE-2024-49897</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products	drm/amd/display: Check phantom_stream before it is			
		used			
		dcn32_enable_phantom_stream can return null, so			
		returned value			
		must be checked before used.			
		This fixes 1 NULL_RETURNS issue reported by			
		Coverity.			
<u>CVE-2024-49898</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products	dum (and (dianta). Check and initialized veriables			
		drm/amd/display: Check null-initialized variables			
		[WHAT & HOW]			
		drr_timing and subvp_pipe are initialized to null and			
		they are not			
		always assigned new values. It is necessary to check			
		for null before			
		dereferencing.			
		This fixes 2 FORWARD_NULL issues reported by			
		Coverity.			
<u>CVE-2024-49899</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	linux_kern el	been resolved:			
	ei	drm/amd/display: Initialize denominators' default to			
		[WHAT & HOW]			
		Variables used as denominators and maybe not			
		assigned to other values,			
		should not be 0. Change their default to 1 so they are			
		never 0.			

		This fixes 10 DIVIDE_BY_ZERO issues reported by Coverity.			
<u>CVE-2024-49901</u>	linux - multiple products	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	products	drm/msm/adreno: Assign msm_gpu->pdev earlier to avoid nullptrs			
		There are some cases, such as the one uncovered by Commit 46d4efcccc68 ("drm/msm/a6xx: Avoid a nullptr dereference when speedbin setting fails")			
		where			
		msm_gpu_cleanup() : platform_set_drvdata(gpu- >pdev, NULL);			
		is called on gpu->pdev == NULL, as the GPU device has not been fully initialized yet.			
		Turns out that there's more than just the aforementioned path that			
		causes this to happen (e.g. the case when there's speedbin data in the			
		catalog, but opp-supported-hw is missing in DT).			
		Assigning msm_gpu->pdev earlier seems like the least painful solution			
		to this, therefore do so.			
		Patchwork: https://patchwork.freedesktop.org/patch/602742/			
CVE-2024-49904	linux - multiple products	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	products	drm/amdgpu: add list empty check to avoid null pointer issue			
		Add list empty check to avoid null pointer issues in some corner cases.			
<u>CVE-2024-49905</u>	linux - multiple products	 - list_for_each_entry_safe() In the Linux kernel, the following vulnerability has been resolved: 	2024-10-21	5.5	Medium
		drm/amd/display: Add null check for 'afb' in amdgpu_dm_plane_handle_cursor_update (v2)			
		This commit adds a null check for the 'afb' variable in the			

Г	1		· · · · · · · · · · · · · · · · · · ·		
		amdgpu_dm_plane_handle_cursor_update function.			
		Previously, 'afb' was			
		assumed to be null, but was used later in the code			
		without a null check.			
		This could potentially lead to a null pointer			
		dereference.			
		Changes since v1:			
		- Moved the null check for 'afb' to the line where 'afb'			
		is used. (Alex)			
		Fixes the below:			
		drivers/gpu/drm/amd/amdgpu//display/amdgpu_d m/amdgpu_dm_plane.c:1298			
		amdgpu_dm_plane_handle_cursor_update() error:			
		we previously assumed 'afb' could be null (see line			
		1252)			
CVE-2024-49906	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	linux_kern	been resolved:			
	el				
		drm/amd/display: Check null pointer before try to			
		access it			
		[why & how]			
		Change the order of the pipe_ctx->plane_state check			
		to ensure that plane_state is not null before accessing it.			
CVE-2024-49907	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>CVL-2024-49907</u>	multiple	been resolved:	2024-10-21	5.5	Weuluill
	products				
	produces	drm/amd/display: Check null pointers before using			
		dc->clk_mgr			
		[WHY & HOW]			
		dc->clk_mgr is null checked previously in the same			
		function, indicating			
		it might be null.			
		Passing "dc" to "dc-			
		>hwss.apply_idle_power_optimizations", which			
		dereferences null "dc->clk mgr". (The function			
		pointer resolves to			
		"dcn35_apply_idle_power_optimizations".)			
		This fixes 1 FORWARD_NULL issue reported by			
		Coverity.			
CVE-2024-49908	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	linux_kern	been resolved:			
	el				
		drm/amd/display: Add null check for 'afb' in			
		amdgpu_dm_update_cursor (v2)			

CVE-2024-49909 linux - multiple products In the Linux kernel, the following vulnerability has been resolved: multiplagation S.5 Medium pointer in den32, set_output transfer func		
Image: CVE-2024-49909 linux - multiple products In the Linux kernel, the following vulnerability has been resolved: 2024-10-21 5.5 Medium		
CVE-2024-49909linux - multiple productsIn the Linux kernel, the following vulnerability has drm/amd/display: Add NULL check for function2024-10-215.5Medium Medium		
multiple been resolved: products drm/amd/display: Add NULL check for function		
drm/amd/display: Add NULL check for function	multiple	4-10-21 5.5 Medium
	products	
pointer in dcn32_set_output_transfer_func		
This commit adds a null check for the		
set_output_gamma function pointer		
in the dcn32_set_output_transfer_func function.		
Previously,		
set_output_gamma was being checked for null, but then it was being		
dereferenced without any null check. This could lead		
to a null pointer		
dereference if set_output_gamma is null.		
To fix this, we now ensure that set_output_gamma is		
not null before		
dereferencing it. We do this by adding a null check for		
set_output_gamma		
before the call to set_output_gamma.CVE-2024-49910linux -In the Linux kernel, the following vulnerability has2024-10-215.5Medium	-49910 linux -	4-10-21 5.5 Medium
linux_kern been resolved:		
el	el	
drm/amd/display: Add NULL check for function pointer in dcn401_set_output_transfer_func		
This commit adds a null check for the		
set_output_gamma function pointer in the dcn401_set_output_transfer_func function.		
Previously,		
set_output_gamma was being checked for null, but		

		then it was being			
		dereferenced without any null check. This could lead			
		to a null pointer			
		dereference if set_output_gamma is null.			
		To fix this, we now ensure that set_output_gamma is			
		not null before			
		dereferencing it. We do this by adding a null check for			
		set output gamma			
		before the call to set_output_gamma.			
<u>CVE-2024-49911</u>	linux - multiple	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	products				
		drm/amd/display: Add NULL check for function			
		pointer in dcn20_set_output_transfer_func			
		This commit adds a null check for the			
		set_output_gamma function pointer			
		in the dcn20_set_output_transfer_func function.			
		Previously,			
		set_output_gamma was being checked for null at line			
		1030, but then it			
		was being dereferenced without any null check at line			
		1048. This could			
		potentially lead to a null pointer dereference error if			
		set_output_gamma			
		is null.			
		To fix this, we now ensure that set_output_gamma is not null before			
		dereferencing it. We do this by adding a null check for			
		set_output_gamma			
		before the call to set_output_gamma at line 1048.			
CVE-2024-49912	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:		0.0	
	products				
	producto	drm/amd/display: Handle null 'stream_status' in			
		'planes changed for existing stream'			
		This commit adds a null check for 'stream_status' in			
		the function			
		'planes_changed_for_existing_stream'. Previously,			
		the code assumed			
		'stream_status' could be null, but did not handle the			
		case where it was			
		actually null. This could lead to a null pointer			
		dereference.			
		Reported by smatch:			
		drivers/gpu/drm/amd/amdgpu//display/dc/core/dc			
		resource.c:3784			

		planes_changed_for_existing_stream() error: we			
		previously assumed 'stream_status' could be null (see			
		line 3774)			
CVE-2024-49913	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:		0.0	
	products				
		drm/amd/display: Add null check for			
		top_pipe_to_program in commit_planes_for_stream			
		This commit addresses a null pointer dereference			
		issue in the			
		`commit_planes_for_stream` function at line 4140.			
		The issue could occur			
		when `top_pipe_to_program` is null.			
		The fix adds a check to ensure			
		`top_pipe_to_program` is not null before			
		accessing its stream_res. This prevents a null pointer			
		dereference.			
		Reported by smatch:			
		drivers/gpu/drm/amd/amdgpu//display/dc/core/dc.			
		c:4140 commit_planes_for_stream() error: we			
		previously assumed 'top_pipe_to_program' could be			
CVE-2024-49914	linux -	null (see line 3906) In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>CVL-2024-45514</u>	linux_kern	been resolved:	2024-10-21	5.5	Weulum
	el				
	_	drm/amd/display: Add null check for pipe_ctx-			
		>plane_state in dcn20_program_pipe			
		This commit addresses a null pointer dereference			
		issue in the			
		`dcn20_program_pipe` function. The issue could			
		occur when			
		`pipe_ctx->plane_state` is null.			
		The fix adds a check to ensure `pipe_ctx-			
		>plane_state` is not null			
		before accessing. This prevents a null pointer			
		dereference.			
		Reported by smatch:			
		drivers/gpu/drm/amd/amdgpu//display/dc/hwss/dc			
		n20/dcn20_hwseq.c:1925 dcn20_program_pipe()			
		error: we previously assumed 'pipe_ctx->plane_state'			
	linuu	could be null (see line 1877)	2024 10 24		Madiuma
<u>CVE-2024-49915</u>	linux - multiple	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	products				
	products	drm/amd/display: Add NULL check for clk_mgr in			
	1				

		dcn32_init_hw			
		This commit addresses a potential null pointer			
		dereference issue in the			
		`dcn32_init_hw` function. The issue could occur when			
		`dc->clk_mgr` is			
		null.			
		The fix adds a check to ensure `dc->clk_mgr` is not			
		null before			
		accessing its functions. This prevents a potential null			
		pointer			
		dereference.			
		Reported by smatch:			
		Reported by smatch: drivers/gpu/drm/amd/amdgpu//display/dc/hwss/dc			
		n32/dcn32_hwseq.c:961 dcn32_init_hw() error: we			
		previously assumed 'dc->clk_mgr' could be null (see			
		line 782)			
CVE-2024-49916	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	linux_kern	been resolved:			
	el	drm/amd/display: Add NULL check for clk_mgr and			
		clk_mgr->funcs in dcn401_init_hw			
		This commit addresses a potential null pointer			
		dereference issue in the			
		`dcn401_init_hw` function. The issue could occur			
		when `dc->clk_mgr` or			
		`dc->clk_mgr->funcs` is null.			
		The fix adds a check to ensure `dc->clk_mgr` and `dc-			
		>clk mgr->funcs` is			
		not null before accessing its functions. This prevents a			
		potential null			
		pointer dereference.			
		Reported by smatch:			
		drivers/gpu/drm/amd/amdgpu//display/dc/hwss/dc			
		n401/dcn401_hwseq.c:416 dcn401_init_hw() error:			
		we previously assumed 'dc->clk_mgr' could be null			
		(see line 225)			
<u>CVE-2024-49917</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products	drm (amd (dianta)). Add NUUL ab ach fan alle man a sid			
		drm/amd/display: Add NULL check for clk_mgr and clk_mgr->funcs in dcn30_init_hw			
		This commit addresses a potential null pointer			
		dereference issue in the			
		`dcn30_init_hw` function. The issue could occur when			

		Ale Selle men' en]
		`dc->clk_mgr` or			
		`dc->clk_mgr->funcs` is null.			
		The fix adds a check to ensure `dc->clk_mgr` and `dc-			
		>clk_mgr->funcs` is			
		not null before accessing its functions. This prevents a			
		potential null			
		pointer dereference.			
		pointer dereference.			
		Reported by smatch:			
		drivers/gpu/drm/amd/amdgpu//display/dc/hwss/dc			
		n30/dcn30_hwseq.c:789 dcn30_init_hw() error: we			
		previously assumed 'dc->clk_mgr' could be null (see			
		line 628)			
CVE-2024-49918	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>CVL 2024 45510</u>	multiple	been resolved:	2024 10 21	5.5	Wiedlam
	products				
	producto	drm/amd/display: Add null check for head pipe in			
		dcn32_acquire_idle_pipe_for_head_pipe_in_layer			
		This commit addresses a potential null pointer			
		dereference issue in the			
		`dcn32_acquire_idle_pipe_for_head_pipe_in_layer`			
		function. The issue			
		could occur when `head_pipe` is null.			
		The fix adds a check to ensure `head_pipe` is not null			
		before asserting			
		it. If `head_pipe` is null, the function returns NULL to			
		prevent a			
		potential null pointer dereference.			
		Reported by smatch:			
		drivers/gpu/drm/amd/amdgpu//display/dc/resourc			
		e/dcn32/dcn32_resource.c:2690			
		dcn32_acquire_idle_pipe_for_head_pipe_in_layer()			
		error: we previously assumed 'head_pipe' could be			
CVE-2024-49919	linux -	null (see line 2681) In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>UVE-2024-49919</u>	multiple	been resolved:	2024-10-21	5.5	IVIEUIUIII
	products				
	products	drm/amd/display: Add null check for head_pipe in			
		dcn201_acquire_free_pipe_for_layer			
		This commit addresses a potential null pointer			
		dereference issue in the			
		`dcn201_acquire_free_pipe_for_layer` function. The			
		issue could occur			
		when `head_pipe` is null.			
		The fix adds a check to ensure `head_pipe` is not null			

		before asserting			
		it. If `head_pipe` is null, the function returns NULL to			
		prevent a			
		potential null pointer dereference.			
		Reported by smatch:			
		drivers/gpu/drm/amd/amdgpu//display/dc/resourc			
		e/dcn201/dcn201_resource.c:1016			
		dcn201_acquire_free_pipe_for_layer() error: we			
		previously assumed 'head_pipe' could be null (see			
		line 1010)			
CVE-2024-49920	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	linux_kern	been resolved:			
	el				
		drm/amd/display: Check null pointers before multiple			
		uses			
		[WHAT & HOW]			
		Poniters, such as stream_enc and dc->bw_vbios, are			
		null checked previously			
		in the same function, so Coverity warns "implies that			
		stream_enc and			
		dc->bw_vbios might be null". They are used multiple			
		times in the			
		subsequent code and need to be checked.			
		This fixes 10 FORWARD_NULL issues reported by			
		Coverity.			
CVE-2024-49921	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	linux_kern	been resolved:			
	el				
		drm/amd/display: Check null pointers before used			
		[WHAT & HOW]			
		Poniters, such as dc->clk_mgr, are null checked			
		previously in the same			
		function, so Coverity warns "implies that "dc-			
		>clk_mgr" might be null".			
		As a result, these pointers need to be checked when			
		used again.			
		This fixes 10 FORWARD_NULL issues reported by			
		Coverity.			
CVE-2024-49922	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		drm/amd/display: Check null pointers before using			
		them			
		[WHAT & HOW]			
		These pointers are null checked previously in the			

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		same function,			
		indicating they might be null as reported by Coverity. As a result,			
		they need to be checked when used again.			
		This fixes 3 FORWARD_NULL issue reported by			
		Coverity.			
CVE-2024-49923	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
	-	drm/amd/display: Pass non-null to			
		dcn20_validate_apply_pipe_split_flags			
		[WHAT & HOW]			
		"dcn20_validate_apply_pipe_split_flags"			
		dereferences merge, and thus it			
		cannot be a null pointer. Let's pass a valid pointer to			
		avoid null			
		dereference.			
		This fixes 2 FORWARD_NULL issues reported by			
		Coverity.			
<u>CVE-2024-49929</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		wifi: iwlwifi: mvm: avoid NULL pointer dereference			
		iwl_mvm_tx_skb_sta() and iwl_mvm_tx_mpdu()			
		verify that the mvmvsta			
		pointer is not NULL.			
		It retrieves this pointer using			
		iwl_mvm_sta_from_mac80211, which is			
		dereferencing the ieee80211 sta pointer.			
		If sta is NULL, iwl_mvm_sta_from_mac80211 will			
		dereference a NULL			
		pointer.			
		Fix this by checking the sta pointer before retrieving			
		the mvmsta			
		from it. If sta is not NULL, then mvmsta isn't either.			
CVE-2024-49941	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		gpiolib: Fix potential NULL pointer dereference in			
		gpiod_get_label()			
		In `gpiod_get_label()`, it is possible that			
		`srcu_dereference_check()` may			
		return a NULL pointer, leading to a scenario where			
		`label->str` is accessed			
		without verifying if `label` itself is NULL.			

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		This patch adds a proper NULL check for `label`			
		before accessing			
		`label->str`. The check for `label->str != NULL` is			
		removed because			
		`label->str` can never be NULL if `label` is not NULL.			
		This fives the issue where the lobal name was being			
		This fixes the issue where the label name was being			
		printed as `(efault)`			
		when dumping the sysfs GPIO file when `label ==			
01/5 2024 40042	1:	NULL'.	2024-10-21		N A a alterna
<u>CVE-2024-49942</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products	drm/vo: Provent null neinter accors in			
		drm/xe: Prevent null pointer access in			
		xe_migrate_copy			
		xe_migrate_copy designed to copy content of TTM			
		resources. When source			
		resource is null, it will trigger a NULL pointer			
		dereference in			
		xe_migrate_copy. To avoid this situation, update			
		lacks source flag to			
		true for this case, the flag will trigger			
		xe_migrate_clear rather than			
		xe_migrate_copy.			
		Issue trace:			
		<7> [317.089847] xe 0000:00:02.0:			
		[drm:xe migrate copy [xe]] Pass 14,			
		sizes: 4194304 & 4194304			
		<7> [317.089945] xe 0000:00:02.0:			
		[drm:xe_migrate_copy [xe]] Pass 15,			
		sizes: 4194304 & 4194304			
		<1> [317.128055] BUG: kernel NULL pointer			
		dereference, address:			
		00000000000010			
		<1> [317.128064] #PF: supervisor read access in			
		kernel mode			
		<1>[317.128066] #PF: error_code(0x0000) - not-			
		present page			
		<6> [317.128069] PGD 0 P4D 0			
		<4> [317.128071] Oops: Oops: 0000 [#1] PREEMPT			
		SMP NOPTI			
		<4> [317.128074] CPU: 1 UID: 0 PID: 1440 Comm:			
		kunit_try_catch Tainted:			
		G U N 6.11.0-rc7-xe #1			
		<4> [317.128078] Tainted: [U]=USER, [N]=TEST			
		<4> [317.128080] Hardware name: Intel Corporation			
		Lunar Lake Client			
		Platform/LNL-M LP5 RVP1, BIOS			
		LNLMFWI1.R00.3221.D80.2407291239 07/29/2024			

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	<4>[317.128082] RIP:	
	0010:xe_migrate_copy+0x66/0x13e0 [xe]	
	<4> [317.128158] Code: 00 00 48 89 8d e0 fe ff ff 48	
	8b 40 10 4c 89 85 c8	
	fe ff ff 44 88 8d bd fe ff ff 65 48 8b 3c 25 28 00 00 00	
	48 89 7d d0 31	
	ff <8b> 79 10 48 89 85 a0 fe ff ff 48 8b 00 48 89 b5	
	d8 fe ff ff 83 ff	
	<4> [317.128162] RSP: 0018:ffffc9000167f9f0	
	EFLAGS: 00010246	
	<4> [317.128164] RAX: ffff8881120d8028 RBX:	
	ffff88814d070428 RCX:	
	00000000000000	
	<4> [317.128166] RDX: ffff88813cb99c00 RSI:	
	000000004000000 RDI:	
	0000000000000	
	<4> [317.128168] RBP: ffffc9000167fbb8 R08:	
	ffff88814e7b1f08 R09:	
	00000000000001	
	<4> [317.128170] R10: 00000000000001 R11:	
	00000000000001 R12:	
	ffff88814e7b1f08	
	<4> [317.128172] R13: ffff88814e7b1f08 R14:	
	ffff88813cb99c00 R15:	
	00000000000001	
	<4> [317.128174] FS: 00000000000000000000000000000000000	
	GS:ffff88846f280000(0000)	
	knlGS:00000000000000	
	<4> [317.128176] CS: 0010 DS: 0000 ES: 0000 CR0:	
	000000080050033	
	<4> [317.128178] CR2: 00000000000000 CR3:	
	00000011f676004 CR4:	
	00000000770ef0	
	<4> [317.128180] DR0: 0000000000000 DR1:	
	0000000000000 DR2:	
	0000000000000	
	<4> [317.128182] DR3: 0000000000000 DR6:	
	0000000ffff07f0 DR7:	
	00000000000400	
	<4> [317.128184] PKRU: 55555554	
	<4> [317.128185] Call Trace:	
	<4>[317.128187] <task></task>	
	<4> [317.128189] ? show_regs+0x67/0x70	
	<4> [317.128194] ?die_body+0x20/0x70	
	<4> [317.128196] ?die+0x2b/0x40	
	<4> [317.128198] ? page_fault_oops+0x15f/0x4e0	
	<4>[317.128203] ?	
	do_user_addr_fault+0x3fb/0x970	
	<4> [317.128205] ? lock_acquire+0xc7/0x2e0	
	<4> [317.128209] ? exc_page_fault+0x87/0x2b0	
	<pre><4>[317.128212] ? asm_exc_page_fault+0x27/0x30</pre>	
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		<4>[317.128216] ? xe_migrate_copy+0x66/0x13e0			
		[xe]			
		<4> [317.128263] ?lock_acquire+0xb9d/0x26f0			
		<4> [317.128265] ?lock_acquire+0xb9d/0x26f0			
		<4>[317.128267] ?			
		sg_free_append_table+0x20/0x80			
		<pre><4>[317.128271] ? lock_acquire+0xc7/0x2e0</pre>			
		<pre><4>[317.128273] ? mark_held_locks+0x4d/0x80</pre>			
		<pre><4>[317.128275] ? trace_hardirqs_on+0x1e/0xd0</pre>			
		<pre><4>[317.128278] ?</pre>			
		_raw_spin_unlock_irgrestore+0x31/0x60			
		<pre></pre>			
		pm_runtime_resume+0x60/0xa0			
		<pre><4>[317.128284] xe_bo_move+0x682/0xc50 [xe]</pre>			
		<4>[317.128315] ? lock_is_held_type+0xaa/0x120			
		<4>[317.128318]			
		ttm_bo_handle_move_mem+0xe5/0x1a0 [ttm]			
		<4> [317.128324] ttm_bo_validate+0xd1/0x1a0			
		[ttm]			
		<4> [317.128328]			
		shrink_test_run_device+0x721/0xc10 [xe]			
		<4> [317.128360] ? find_held_lock+0x31/0x90			
		<4> [317.128363] ? lock_release+0xd1/0x2a0			
		<4>[317.128365] ?			
		pfx_kunit_generic_run_threadfn_adapter+0x10/0x			
		[kunit]			
		<pre><4>[317.128370] xe_bo_shrink_kunit+0x11/0x20</pre>			
		[xe]			
		<pre><4>[317.128397] kunit_try_run_case+0x6e/0x150</pre>			
		[kunit]			
		<pre><4>[317.128400] ? trace_hardirgs_on+0x1e/0xd0</pre>			
		<pre><4>[317.128402] ? </pre>			
		_raw_spin_unlock_irqrestore+0x31/0x60			
		<4>[317.128404]			
		kunit_generic_run_threadfn_adapter+0x1e/0x40 [ku			
		truncated			
<u>CVE-2024-49943</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		drm/xe/guc_submit: add missing locking in			
		wedged_fini			
		Any non-wedged queue can have a zero refcount			
		here and can be running			
		concurrently with an async queue destroy, therefore			
		dereferencing the			
		queue ptr to check wedge status after the lookup can			
		trigger UAF if			
		queue is not wedged. Fix this by keeping the			
		submission_state lock held			
L	1	—			

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		around the check to postpone the free and make the			
		check safe, before			
		dropping again around the put() to avoid the			
		deadlock.			
		(cherry picked from commit			
		d28af0b6b9580b9f90c265a7da0315b0ad20bbfd)			
<u>CVE-2024-49945</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		net/ncsi: Disable the ncsi work before freeing the			
		associated structure			
		The work function can run after the ncsi device is			
		freed, resulting			
		in use-after-free bugs or kernel panic.			
CVE-2024-49956	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	linux_kern	been resolved:			
	el				
		gfs2: fix double destroy_workqueue error			
		When gfs2_fill_super() fails, destroy_workqueue() is			
		called within			
		gfs2_gl_hash_clear(), and the subsequent code path			
		calls			
		destroy_workqueue() on the same work queue again.			
		This issue can be fixed by setting the work queue			
		pointer to NULL after			
		the first destroy_workqueue() call and checking for a			
		NULL pointer			
		before attempting to destroy the work queue again.			
CVE-2024-49957	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		ocfs2: fix null-ptr-deref when journal load failed.			
		During the mounting process, if journal_reset() fails			
		because of too short			
		journal, then lead to jbd2_journal_load() fails with			
		NULL j_sb_buffer.			
		Subsequently, ocfs2_journal_shutdown() calls			
		jbd2_journal_flush()->jbd2_cleanup_journal_tail()->			
		jbd2_update_log_tail()-			
		>jbd2_journal_update_sb_log_tail()			
		->lock_buffer(journal->j_sb_buffer), resulting in a			
		null-pointer			
		dereference error.			
		To resolve this issue, we should check the			
		JBD2_LOADED flag to ensure the			

		journal was properly loaded. Additionally, use			
		journal instead of			
		osb->journal directly to simplify the code.			
<u>CVE-2024-49962</u>	linux - multiple	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	products				
		ACPICA: check null return of			
		ACPI_ALLOCATE_ZEROED() in acpi_db_convert_to_package()			
		ACPICA commit			
		4d4547cf13cca820ff7e0f859ba83e1a610b9fd0			
		ACPI_ALLOCATE_ZEROED() may fail, elements might			
		be NULL and will cause			
		NULL pointer dereference later.			
		[rjw: Subject and changelog edits]			
<u>CVE-2024-49970</u>	linux - linux_kern	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	el				
		drm/amd/display: Implement bounds check for			
		stream encoder creation in DCN401			
		stream_enc_regs' array is an array of			
		dcn10_stream_enc_registers			
		structures. The array is initialized with four elements,			
		corresponding			
		to the four calls to stream_enc_regs() in the array initializer. This			
		means that valid indices for this array are 0, 1, 2, and			
		3.			
		The error message 'stream_enc_regs' 4 <= 5 below, is			
		indicating that			
		there is an attempt to access this array with an index of 5, which is			
		out of bounds. This could lead to undefined behavior			
		Here, eng_id is used as an index to access the			
		stream_enc_regs array. If			
		eng_id is 5, this would result in an out-of-bounds			
		access on the			
		stream_enc_regs array.			
		Thus fixing Buffer overflow error in			
		dcn401_stream_encoder_create			
		Found by smatch:			
		drivers/gpu/drm/amd/amdgpu//display/dc/resourc			
		e/dcn401/dcn401_resource.c:1209			

		dcn401_stream_encoder_create() error: buffer			
		overflow 'stream_enc_regs' 4 <= 5			
CVE-2024-49971	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>CVL-2024-49971</u>	linux_kern	been resolved:	2024-10-21	J.J	weulum
	el	been resolved.			
	ei	drm/amd/display: Increase array size of			
		dummy_boolean			
		dummy_boolean			
		[WHY]			
		dml2_core_shared_mode_support and			
		dml_core_mode_support access the third			
		element of dummy_boolean, i.e. hw_debug5 = &s-			
		>dummy_boolean[2], when			
		dummy_boolean has size of 2. Any assignment to			
		hw_debug5 causes an			
		OVERRUN.			
		[HOW]			
		Increase dummy_boolean's array size to 3.			
		This fixes 2 OVERRUN issues reported by Coverity.			
CVE-2024-49972	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	linux_kern	been resolved:			
	el				
		drm/amd/display: Deallocate DML memory if			
		allocation fails			
		[Why]			
		When DC state create DML memory allocation fails,			
		memory is not			
		deallocated subsequently, resulting in uninitialized			
		structure			
		that is not NULL.			
		[How]			
		Deallocate memory if DML memory allocation fails.			
<u>CVE-2024-49973</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products	····			
		r8169: add tally counter fields added with RTL8125			
		RTL8125 added fields to the tally counter, what may			
		result in the chip			
		dma'ing these new fields to unallocated memory.			
		Therefore make sure			
		that the allocated memory area is big enough to hold			
		all of the			
CVE 2024 40074	linus	tally counter values, even if we use only parts of it.	2024 10 21	F F	Madium
<u>CVE-2024-49974</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				

					,
		NFSD: Limit the number of concurrent async COPY			
		operations			
		Nothing appears to limit the number of concurrent			
		async COPY			
		operations that clients can start. In addition, AFAICT			
		each async			
		COPY can copy an unlimited number of 4MB chunks,			
		so can run for a			
		long time. Thus IMO async COPY can become a DoS			
		vector.			
		Add a restriction mechanism that bounds the number			
		of concurrent			
		background COPY operations. Start simple and try to			
		be fair this			
		patch implements a per-namespace limit.			
		An async COPY request that occurs while this limit is			
		exceeded gets			
		NFS4ERR_DELAY. The requesting client can choose to			
		send the request			
		again after a delay or fall back to a traditional			
		read/write style			
		сору.			
		If there is need to make the mechanism more			
		sophisticated, we can			
		visit that in future patches.			
<u>CVE-2024-49975</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		uprobes: fix kernel info leak via "[uprobes]" vma			
		xol_add_vma() maps the uninitialized page allocated			
		bycreate_xol_area()			
		into userspace. On some architectures (x86) this			
		memory is readable even			
		without VM_READ, VM_EXEC results in the same			
		pgprot_t as VM_EXEC VM_READ,			
		although this doesn't really matter, debugger can			
		read this memory anyway.			
CVE-2024-49976	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		tracing/timerlat: Drop interface_lock in			
		stop_kthread()			
		stop_kthread() is the offline callback for			
		"trace/osnoise:online", since			
		commit 5bfbcd1ee57b ("tracing/timerlat: Add			
L					

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		interface_lock around clearing			
		of kthread in stop_kthread()"), the following ABBA			
		deadlock scenario is			
		introduced:			
		T1 T2 [BP] T3 [AP]			
		osnoise_hotplug_workfn() work_for_cpu_fn()			
		cpuhp_thread_fun()			
		cpu_down()			
		osnoise_cpu_die()			
		mutex_lock(&interface_lock)			
		stop_kthread()			
		cpus_write_lock()			
		mutex_lock(&interface_lock)			
		cpus_read_lock() cpuhp_kick_ap()			
		As the interface_lock here in just for protecting the			
		"kthread" field of			
		the osn_var, use xchg() instead to fix this issue. Also			
		use			
		for_each_online_cpu() back in			
		stop_per_cpu_kthreads() as it can take			
		cpu_read_lock() again.			
<u>CVE-2024-49977</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		net: stmmac: Fix zero-division error when disabling tc			
		cbs			
		The commit b8c43360f6e4 ("net: stmmac: No need to			
		calculate speed divider			
		when offload is disabled") allows the			
		"port_transmit_rate_kbps" to be			
		set to a value of 0, which is then passed to the			
		"div_s64" function when			
		tc-cbs is disabled. This leads to a zero-division error.			
		When tc-cbs is disabled, the idleslope, sendslope, and			
		credit values the			
		credit values are not required to be configured.			
		Therefore, adding a return			
		statement after setting the txQ mode to DCB when			
		tc-cbs is disabled would			
		prevent a zero-division error.			
<u>CVE-2024-49978</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		gso: fix udp gso fraglist segmentation after pull from			
		frag_list			
1					
		Detect gso fraglist skbs with corrupted geometry (see			

			I		
		below) and			
		pass these to skb_segment instead of			
		skb_segment_list, as the first			
		can segment them correctly.			
		Valid SKB_GSO_FRAGLIST skbs			
		- consist of two or more segments			
		-			
		- the head_skb holds the protocol headers plus first			
		gso_size			
		- one or more frag_list skbs hold exactly one segment			
		- all but the last must be gso_size			
		Optional datapath hooks such as NAT and BPF			
		(bpf_skb_pull_data) can			
		modify these skbs, breaking these invariants.			
		Thoury these skbs, breaking these invariants.			
		In extreme cases they pull all data into skb linear. For			
		UDP, this			
		causes a NULL ptr deref in			
		udpv4_gso_segment_list_csum at			
		udp_hdr(seg->next)->dest.			
		Detect invalid geometry due to pull, by checking			
		head_skb size.			
		Don't just drop, as this may blackhole a destination.			
		Convert to be			
		able to pass to regular skb_segment.			
CVE-2024-49979	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
	p	net: gso: fix tcp fraglist segmentation after pull from			
		frag_list			
		Detect tcp gso fraglist skbs with corrupted geometry			
		(see below) and			
		pass these to skb_segment instead of			
		skb_segment_list, as the first			
		can segment them correctly.			
		Valid SKB_GSO_FRAGLIST skbs			
		- consist of two or more segments			
		- the head_skb holds the protocol headers plus first			
		gso_size			
		- one or more frag_list skbs hold exactly one segment			
		- all but the last must be gso_size			
		Optional datapath hooks such as NAT and BPF			
		(bpf_skb_pull_data) can			
		modify these skbs, breaking these invariants.			
		וויסמויץ נווכשב שהשש, שו במגוווץ נווכשב וויסמוומוונש.			
		la substance encode a la Unit de la Color de la Color -			
		In extreme cases they pull all data into skb linear. For	1	1	

[1	1			I
		TCP, this			
		causes a NULL ptr deref in			
		tcpv4_gso_segment_list_csum at			
		tcp_hdr(seg->next).			
		Detect invalid geometry due to pull, by checking			
		head_skb size.			
		Don't just drop, as this may blackhole a destination.			
		Convert to be			
		able to pass to regular skb_segment.			
		Approach and description based on a patch by Willem			
		de Bruijn.			
CVE-2024-49980	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		vrf: revert "vrf: Remove unnecessary RCU-bh critical			
		section"			
		This reverts commit			
		504fc6f4f7f681d2a03aa5f68aad549d90eab853.			
		5041C01417106102805885106880545050880555.			
		dev_queue_xmit_nit is expected to be called with BH			
		disabled.			
		dev_queue_xmit has the following:			
		/* Disable soft irqs for various locks below. Also			
		* stops preemption for RCU.			
		*/			
		rcu_read_lock_bh();			
		VRF must follow this invariant. The referenced			
		commit removed this			
		protection. Which triggered a lockdep warning:			
		WARNING: inconsistent lock state			
		6.11.0 #1 Tainted: G W			
		inconsistent {IN-SOFTIRQ-W} -> {SOFTIRQ-ON-W}			
		usage.			
		btserver/134819 [HC0[0]:SC0[0]:HE1:SE1] takes:			
		ffff8882da30c118 (rlock-AF_PACKET){+.?.}-{2:2}, at:			
		tpacket_rcv+0x863/0x3b30			
		<pre>{IN-SOFTIRQ-W} state was registered at:</pre>			
		lock_acquire+0x19a/0x4f0			
		_raw_spin_lock+0x27/0x40			
		packet_rcv+0xa33/0x1320			
		netif_receive_skb_core.constprop.0+0xcb0/0x3a90			
		netif_receive_skb_list_core+0x2c9/0x890			
	l				

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		netif_receive_skb_list_internal+0x610/0xcc0			
		[]			
		other info that might help us debug this:			
		Possible unsafe locking scenario:			
		CPUO			
		lock(rlock-AF_PACKET);			
		<interrupt></interrupt>			
		lock(rlock-AF_PACKET);			
		*** DEADLOCK ***			
		Call Trace:			
		<task></task>			
		dump_stack_lvl+0x73/0xa0			
		mark lock+0x102e/0x16b0			
		lock acquire+0x9ae/0x6170			
		lock_acquire+0x19a/0x4f0			
		_raw_spin_lock+0x27/0x40			
		tpacket_rcv+0x863/0x3b30			
		dev_queue_xmit_nit+0x709/0xa40			
		vrf_finish_direct+0x26e/0x340 [vrf]			
		vrf_l3_out+0x5f4/0xe80 [vrf]			
		ip_local_out+0x51e/0x7a0			
<u>CVE-2024-49985</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		i2c: stm32f7: Do not prepare/unprepare clock during			
		runtime suspend/resume			
		In case there is any sort of clock controller attached			
		to this I2C bus			
		controller, for example Versaclock or even an			
		AIC32x4 I2C codec, then			
		an I2C transfer triggered from the clock controller			
		clk_ops .prepare			
		callback may trigger a deadlock on drivers/clk/clk.c			
		prepare_lock mutex.			
		This is because the clock controller first grabs the			
		prepare_lock mutex			
		and then performs the prepare operation, including			
		its I2C access. The			
		I2C access resumes this I2C bus controller via			
		.runtime_resume callback,			
		which calls clk_prepare_enable(), which attempts to			
		grab the prepare_lock			
		mutex again and deadlocks.			
			1		

		Since the clock are already prepared since probe()			
		and unprepared in			
		remove(), use simple clk_enable()/clk_disable() calls			
		to enable and			
		disable the clock on runtime suspend and resume, to			
		avoid hitting the			
		prepare_lock mutex.			
<u>CVE-2024-49987</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		bpftool: Fix undefined behavior in qsort(NULL, 0,)			
		When netfilter has no entry to display, qsort is called			
		with			
		gsort(NULL, 0,). This results in undefined behavior,			
		as UBSan			
		reports:			
		net.c:827:2: runtime error: null pointer passed as			
		argument 1, which is declared to never be null			
		Although the C standard does not explicitly state			
		whether calling qsort			
		with a NULL pointer when the size is 0 constitutes			
		undefined behavior,			
		Section 7.1.4 of the C standard (Use of library			
		functions) mentions:			
		"Fach of the following statements applies unless			
		"Each of the following statements applies unless explicitly stated			
		otherwise in the detailed descriptions that follow: If			
		an argument to a			
		function has an invalid value (such as a value outside			
		the domain of			
		the function, or a pointer outside the address space			
		of the program, or			
		a null pointer, or a pointer to non-modifiable storage			
		when the			
		corresponding parameter is not const-qualified) or a			
		type (after			
		promotion) not expected by a function with variable			
		number of			
		arguments, the behavior is undefined."			
		To avoid this, add an early return when nf_link_info is			
		NULL to prevent			
CVE-2024-49988	linux -	calling qsort with a NULL pointer. In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>UVL-2024-43300</u>	multiple	been resolved:	2024-10-21	5.5	weuluitt
	products				
	products				

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		ksmbd: add refcnt to ksmbd_conn struct			
		When sending an oplock break request, opinfo->conn			
		is used,			
		But freed ->conn can be used on multichannel.			
		This patch add a reference count to the ksmbd_conn			
		struct			
01/5 2024 40000		so that it can be freed when it is no longer used.	2024 40 24		
<u>CVE-2024-49990</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products	drm/xe/hdcp: Check GSC structure validity			
		Sometimes xe_gsc is not initialized when checked at			
		HDCP capability			
		check. Add gsc structure check to avoid null pointer			
		error.			
CVE-2024-49993	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products	ionmulut di Fiunctontial la dura if ai submit sur -			
		iommu/vt-d: Fix potential lockup if qi_submit_sync called with 0 count			
		If qi_submit_sync() is invoked with 0 invalidation			
		descriptors (for			
		instance, for DMA draining purposes), we can run			
		into a bug where a			
		submitting thread fails to detect the completion of			
		invalidation_wait.			
		Subsequently, this led to a soft lockup. Currently,			
		there is no impact by this bug on the existing users because no callers			
		are submitting			
		invalidations with 0 descriptors. This fix will enable			
		future users			
		(such as DMA drain) calling qi_submit_sync() with 0			
		count.			
		Suppose thread T1 invokes qi_submit_sync() with			
		non-zero descriptors, while			
		concurrently, thread T2 calls qi_submit_sync() with zero descriptors. Both			
		threads then enter a while loop, waiting for their			
		respective descriptors			
		to complete. T1 detects its completion (i.e., T1's			
		invalidation_wait status			
		changes to QI_DONE by HW) and proceeds to call			
		reclaim_free_desc() to			
		reclaim all descriptors, potentially including adjacent			
		ones of other threads that are also marked as OL DONE			
		threads that are also marked as QI_DONE.			

	During this time, while T2 is waiting to acquire the qi-		
	>q_lock, the IOMMU		
	hardware may complete the invalidation for T2,		
	setting its status to		
	QI_DONE. However, if T1's execution of		
	reclaim_free_desc() frees T2's		
	invalidation_wait descriptor and changes its status to		
	QI_FREE, T2 will		
	not observe the QI_DONE status for its		
	invalidation_wait and will		
	indefinitely remain stuck.		
	This soft lockup does not occur when only non-zero		
	descriptors are		
	submitted.In such cases, invalidation descriptors are		
	interspersed among		
	wait descriptors with the status QI_IN_USE, acting as		
	barriers. These		
	barriers prevent the reclaim code from mistakenly		
	freeing descriptors		
	belonging to other submitters.		
	Considered the following example timeline:		
	T1 T2		
	ID1		
	WD1		
	while(WD1!=QI_DONE)		
	unlock		
	lock		
	WD1=QI_DONE* WD2		
	while(WD2!=QI_DONE)		
	unlock		
	lock		
	WD1==QI_DONE?		
	ID1=QI DONE WD2=DONE*		
	reclaim()		
	ID1=FREE		
	WD1=FREE		
	WD1=FREE WD2=FREE		
	unlock		
	soft lockup! T2 never sees QI_DONE in WD2		
	Where:		
	ID = invalidation descriptor		
	WD = wait descriptor		
	* Written by hardware		
	The root of the problem is that the descriptor status		
	QI_DONE flag is used		
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				-	,
		for two conflicting purposes:			
		1. signal a descriptor is ready for reclaim (to be freed)			
		2. signal by the hardware that a wait descriptor is			
		complete			
		The solution (in this patch) is state separation by			
		using QI_FREE flag			
		for #1.			
		Once a thread's invalidation descriptors are			
		complete, their status would			
		be set to QI_FREE. The reclaim_free_desc() function			
		would then only			
		free descriptors marked as QI_FREE instead of those			
		marked as			
		QI_DONE. This change ensures that T2 (from the			
		previous example) will			
		correctly observe the completion of its			
		invalidation_wait (marked as			
		QI DONE).			
CVE 2024 40004	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>CVE-2024-49994</u>			2024-10-21	5.5	wealum
	multiple	been resolved:			
	products				
		block: fix integer overflow in BLKSECDISCARD			
		I independently rediscovered			
		22d24a544b0d49bbcbd61c8c0eaf77d3c9297155			
		block: fix overflow in blk_ioctl_discard()			
		but for secure erase.			
		Same problem:			
		uint64_t r[2] = {512, 18446744073709551104ULL};			
		ioctl(fd, BLKSECDISCARD, r);			
		will enter near infinite loop inside			
		blkdev_issue_secure_erase():			
		a.out: attempt to access beyond end of device			
		loop0: rw=5, sector=3399043073, nr_sectors = 1024			
		limit=2048			
		bio_check_eod: 3286214 callbacks suppressed			
<u>CVE-2024-49999</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		afs: Fix the setting of the server responding flag			
		In afs_wait_for_operation(), we set transcribe the call			

			-	-	
		responded flag to			
		the server record that we used after doing the			
		fileserver iteration loop -			
		but it's possible to exit the loop having had a			
		response from the server			
		that we've discarded (e.g. it returned an abort or we			
		started receiving			
		data, but the call didn't complete).			
		This means that an a security might be NUUL but we			
		This means that op->server might be NULL, but we			
		don't check that before			
01/5 2024 50000	1.	attempting to set the server flag.	2024 40 24		
<u>CVE-2024-50000</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		net/mlx5e: Fix NULL deref in			
		mlx5e_tir_builder_alloc()			
		In mh/Fe, tir, huilder, allee() kurallee() may raturn			
		In mlx5e_tir_builder_alloc() kvzalloc() may return NULL			
		which is dereferenced on the next line in a reference			
		to the modify field.			
		Found by Linux Verification Center (linuxtesting.org)			
		with SVACE.			
CVE-2024-50001	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>CVL 2024 50001</u>	multiple	been resolved:	2024 10 21	5.5	Wiedlam
	products				
	produces	net/mlx5: Fix error path in multi-packet WQE			
		transmit			
		Remove the erroneous unmap in case no DMA			
		mapping was established			
		The multi-packet WQE transmit code attempts to			
		obtain a DMA mapping for			
		the skb. This could fail, e.g. under memory pressure,			
		when the IOMMU			
		driver just can't allocate more memory for page			
		tables. While the code			
		tries to handle this in the path below the err_unmap			
		label it erroneously			
		unmaps one entry from the sq's FIFO list of active			
		mappings. Since the			
		current map attempt failed this unmap is removing			
		some random DMA mapping			
		that might still be required. If the PCI function now			
		presents that IOVA,			
		the IOMMU may assumes a rogue DMA access and			
		e.g. on s390 puts the PCI			
		function in error state.			

		The erroneous behavior was seen in a stress-test			
		environment that created			
		memory pressure.		_	
<u>CVE-2024-50002</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products	static_call: Handle module init failure correctly in			
		static_call_del_module()			
		Module insertion invokes static_call_add_module() to			
		initialize the static			
		calls in a module. static_call_add_module() invokes			
		static_call_init(),			
		which allocates a struct static_call_mod to either encapsulate the built-in			
		static call sites of the associated key into it so further			
		modules can be			
		added or to append the module to the module chain.			
		If that allocation fails the function returns with an			
		error code and the			
		module core invokes static_call_del_module() to			
		clean up eventually added static_call_mod entries.			
		This works correctly, when all keys used by the			
		module were converted over			
		to a module chain before the failure. If not then			
		static_call_del_module()			
		causes a #GP as it blindly assumes that key::mods			
		points to a valid struct			
		static_call_mod.			
		The problem is that key::mods is not a individual			
		struct member of struct			
		static_call_key, it's part of a union to save space:			
		union {			
		<pre>/* bit 0: 0 = mods, 1 = sites */ unsigned long type;</pre>			
		struct static_call_mod *mods;			
		struct static_call_site *sites;			
		};			
		key::sites is a pointer to the list of built-in usage sites			
		of the static			
		call. The type of the pointer is differentiated by bit 0.			
		A mods pointer has the bit clear, the sites pointer has the bit set.			
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		As static_call_del_module() blidly assumes that the			
		pointer is a valid			
		static_call_mod type, it fails to check for this failure			
		case and			
		dereferences the pointer to the list of built-in call			
		sites, which is			
		obviously bogus.			
		Cure it by checking whether the key has a sites or a			
		mods pointer.			
		If it's a sites pointer then the key is not to be touched.			
		As the sites are			
		walked in the same order as instatic_call_init() the			
		site walk can be			
		terminated because all subsequent sites have not			
		been touched by the init			
		code due to the error exit.			
		If it was converted before the allocation fail, then the			
		inner loop which			
		searches for a module match will find nothing.			
		A fail in the second allocation instatic_call_init() is			
		harmless and			
		does not require special treatment. The first			
		allocation succeeded and			
		converted the key to a module chain. That first entry			
		has mod::mod == NULL			
		and mod::next == NULL, so the inner loop of			
		static_call_del_module() will			
		neither find a module match nor a module chain. The			
		next site in the walk			
		was either already converted, but can't match the			
		module, or it will exit			
		the outer loop because it has a static_call_site			
		pointer and not a			
		static_call_mod pointer.			
CVE-2024-50003	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		drm/amd/display: Fix system hang while resume with			
		TBT monitor			
		[Why]			
		Connected with a Thunderbolt monitor and do the			
		suspend and the system			
		may hang while resume.			
		The TBT monitor HPD will be triggered during the			
		resume procedure			

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		and call the drm_client_modeset_probe() while			
		struct drm_connector connector->dev->master is			
		NULL.			
		It will more up the pipe tendlogy ofter recurse			
		It will mess up the pipe topology after resume.			
		[How]			
		Skip the TBT monitor HPD during the resume			
		procedure because we			
		currently will probe the connectors after resume by			
		default.			
		(cherry picked from commit			
		453f86a26945207a16b8f66aaed5962dc2b95b85)			
CVE-2024-50009	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	linux_kern	been resolved:			
	el				
		cpufreq: amd-pstate: add check for			
		cpufreq_cpu_get's return value			
		· · · · · · · · · · · · · · · · · · ·			
		cpufreq_cpu_get may return NULL. To avoid NULL-			
		dereference check it			
		and return in case of error.			
		Found by Linux Varification Contar (linuxtasting arg)			
		Found by Linux Verification Center (linuxtesting.org) with SVACE.			
CVE-2024-50011	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:		0.0	
	products				
		ASoC: Intel: soc-acpi-intel-rpl-match: add missing			
		empty item			
		There is no links_num in struct snd_soc_acpi_mach			
		{}, and we test			
		!link->num_adr as a condition to end the loop in			
		hda_sdw_machine_select().			
		So an empty item in struct snd_soc_acpi_link_adr			
CVE 2024 50012	linux	array is required.	2024 10 24		Madium
<u>CVE-2024-50012</u>	linux -	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	multiple products				
	products	cpufreq: Avoid a bad reference count on CPU node			
		In the parse_perf_domain function, if the call to			
		of_parse_phandle_with_args returns an error, then			
		the reference to the			
		CPU device node that was acquired at the start of the			
		function would not			
1	1	he properly decremented			
		be properly decremented.			
		Address this by declaring the variable with the			

		free(device_node)			
		cleanup attribute.			
CVE-2024-50013	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		exfat: fix memory leak in exfat_load_bitmap()			
		,			
		If the first directory entry in the root directory is not a			
		bitmap			
		directory entry, 'bh' will not be released and			
		reassigned, which			
		will cause a memory leak.			
CVE-2024-50014	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:		0.0	
	products				
	products	ext4: fix access to uninitialised lock in fc replay path			
		The following kernel trace can be triggered with			
		fstest generic/629 when			
		executed against a filesystem with fast-commit			
		feature enabled:			
		Teature enableu.			
		INFO: trying to register pen static key			
		INFO: trying to register non-static key.			
		The code is fine but needs lockdep annotation, or			
		maybe			
		you didn't initialize this object before use?			
		turning off the locking correctness validator.			
		CPU: 0 PID: 866 Comm: mount Not tainted 6.10.0+			
		#11			
		Hardware name: QEMU Standard PC (i440FX + PIIX,			
		1996), BIOS rel-1.16.2-3-gd478f380-			
		prebuilt.qemu.org 04/01/2014			
		Call Trace:			
		<task></task>			
		dump_stack_lvl+0x66/0x90			
		register_lock_class+0x759/0x7d0			
		lock_acquire+0x85/0x2630			
		?find_get_block+0xb4/0x380			
		lock_acquire+0xd1/0x2d0			
		?ext4_journal_get_write_access+0xd5/0x160			
		_raw_spin_lock+0x33/0x40			
		?ext4_journal_get_write_access+0xd5/0x160			
		ext4_journal_get_write_access+0xd5/0x160			
		ext4_reserve_inode_write+0x61/0xb0			
		ext4_mark_inode_dirty+0x79/0x270			
		? ext4_ext_replay_set_iblocks+0x2f8/0x450			
		ext4_ext_replay_set_iblocks+0x330/0x450			
		ext4_fc_replay+0x14c8/0x1540			
		? jread+0x88/0x2e0			
		? rcu_is_watching+0x11/0x40			
		do_one_pass+0x447/0xd00			

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		jbd2_journal_recover+0x139/0x1b0			
		jbd2_journal_load+0x96/0x390			
		ext4_load_and_init_journal+0x253/0xd40			
		ext4_fill_super+0x2cc6/0x3180			
		In the replay path there's an attempt to lock sbi-			
		>s_bdev_wb_lock in			
		function ext4_check_bdev_write_error().			
		Unfortunately, at this point this			
		spinlock has not been initialized yet. Moving it's			
		initialization to an			
		earlier point inext4_fill_super() fixes this splat.			
CVE-2024-50015	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>CVL 2024 50015</u>		been resolved:	2024 10 21	5.5	Wiediann
	multiple	been resolved.			
	products				
		ext4: dax: fix overflowing extents beyond inode size			
		when partially writing			
		The dax_iomap_rw() does two things in each			
		iteration: map written blocks			
		and copy user data to blocks. If the process is killed			
		by user(See signal			
		handling in dax_iomap_iter()), the copied data will be			
		returned and added			
		on inode size, which means that the length of written			
		extents may exceed			
		the inode size, then fsck will fail. An example is given			
		as:			
		dd if=/dev/urandom of=file bs=4M count=1			
		dax_iomap_rw			
		iomap_iter // round 1			
		ext4_iomap_begin			
		ext4_iomap_alloc // allocate 0~2M extents(written			
		flag)			
		dax_iomap_iter // copy 2M data			
		iomap_iter // round 2			
		iomap_iter_advance			
		iter->pos += iter->processed // iter->pos = 2M			
		ext4_iomap_begin			
		ext4_iomap_alloc // allocate 2~4M extents(written			
		flag)			
		dax_iomap_iter			
		fatal_signal_pending			
		done = iter->pos - iocb->ki_pos // done = 2M			
		ext4_handle_inode_extension			
		ext4_update_inode_size // inode size = 2M			
		feel reported lands 12 is size is 2007152, should be			
		fsck reports: Inode 13, i_size is 2097152, should be			
		4194304. Fix?			

		Fix the problem by truncating extents if the written length is smaller than expected.			
<u>CVE-2024-50016</u>	linux - multiple products	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	p	drm/amd/display: Avoid overflow assignment in link_dp_cts			
		sampling_rate is an uint8_t but is assigned an unsigned int, and thus it can overflow. As a result, sampling_rate is changed to uint32_t.			
		Similarly, LINK_QUAL_PATTERN_SET has a size of 2 bits, and it should only be assigned to a value less or equal than 4.			
		This fixes 2 INTEGER_OVERFLOW issues reported by Coverity.			
<u>CVE-2024-50017</u>	linux - multiple products	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
		x86/mm/ident_map: Use gbpages only where full GB page should be mapped.			
		When ident_pud_init() uses only GB pages to create identity maps, large			
		ranges of addresses not actually requested can be included in the resulting table; a 4K request will map a full GB. This can			
		include a lot of extra address space past that requested, including areas			
		marked reserved by the BIOS. That allows processor speculation into reserved regions, that on UV systems can cause system halts.			
		Only use GB pages when map creation requests include the full GB page of			
		space. Fall back to using smaller 2M pages when only portions of a GB page are included in the request.			
		No attempt is made to coalesce mapping requests. If a request requires a			
		map entry at the 2M (pmd) level, subsequent mapping requests within the same 1G region will also be at the pmd level, even if adjacent or			

		overlapping such requests could have been combined			
		to map a full GB page.			
		Existing usage starts with larger regions and then			
		adds smaller regions, so			
		this should not have any great consequence.			
CVE-2024-50018	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		net: napi: Prevent overflow of napi_defer_hard_irqs			
		In commit 6f8b12d661d0 ("net: napi: add hard irqs			
		deferral feature")			
		napi_defer_irqs was added to net_device and			
		napi_defer_irqs_count was			
		added to napi struct, both as type int.			
		This value never goes below zero, so there is not			
		reason for it to be a			
		signed int. Change the type for both from int to u32, and add an			
		overflow check to sysfs to limit the value to			
		S32_MAX.			
		The limit of S32_MAX was chosen because the			
		practical limit before this			
		patch was S32_MAX (anything larger was an			
		overflow) and thus there are			
		no behavioral changes introduced. If the extra bit is			
		needed in the			
		future, the limit can be raised.			
		Before this patch:			
		¢ sude bash a lasha 2147492640 >			
		\$ sudo bash -c 'echo 2147483649 >			
		/sys/class/net/eth4/napi_defer_hard_irqs'			
		\$ cat /sys/class/net/eth4/napi_defer_hard_irqs			
		-2147483647			
		After this patch:			
		\$ sudo bash -c 'echo 2147483649 >			
		/sys/class/net/eth4/napi_defer_hard_irqs'			
		bash: line 0: echo: write error: Numerical result out of			
		range			
		Similarly, /sys/class/net/XXXXX/tx_queue_len is			
		defined as unsigned:			
		include /linux/netdexice here we size at int			
		include/linux/netdevice.h: unsigned int			
		tx_queue_len;			

		And has an overflow check:			
		<pre>dev_change_tx_queue_len(, unsigned long</pre>			
		new_len):			
		if (new_len != (unsigned int)new_len)			
		return -ERANGE;			
CVE-2022-48946	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		udf: Fix preallocation discarding at indirect extent			
		boundary			
		When proallocation extent is the first one in the			
		When preallocation extent is the first one in the extent block, the			
		code would corrupt extent tree header instead. Fix			
		the problem and use			
		udf_delete_aext() for deleting extent to avoid some			
		code duplication.			
<u>CVE-2022-48947</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products	Bluetooth: L2CAP: Fix u8 overflow			
		Bidetooth. LZCAF. HX 08 OVEHIOW			
		By keep sending L2CAP_CONF_REQ packets, chan-			
		<pre>>num_conf_rsp increases</pre>			
		multiple times and eventually it will wrap around the			
		maximum number			
		(i.e., 255).			
		This patch prevents this by adding a boundary check with			
		L2CAP_MAX_CONF_RSP			
		Btmon log:			
		Bluetooth monitor ver 5.64			
		= Note: Linux version 6.1.0-rc2 (x86_64)			
		0.264594			
		= Note: Bluetooth subsystem version 2.22 0.264636			
		@ MGMT Open: btmon (privileged) version 1.22			
		{0x0001} 0.272191			
		= New Index: 00:00:00:00:00:00 (Primary,Virtual,hci0)			
		[hci0] 13.877604			
		@ RAW Open: 9496 (privileged) version 2.22			
		{0x0002} 13.890741			
		= Open Index: 00:00:00:00:00:00			
		[hci0] 13.900426 ()			
		invalid packet size (12 != 1033)			
		 > ACL Data RX: Handle 200 flags 0x00 dlen 1033 #32 [hci0] 14.273106 invalid packet size (12 != 1033) 			

	r		I	-	,
		08 00 01 00 02 01 04 00 01 10 ff ff			
		> ACL Data RX: Handle 200 flags 0x00 dlen 1547			
		#33 [hci0] 14.273561			
		invalid packet size (14 != 1547)			
		0a 00 01 00 04 01 06 00 40 00 00 00 00 00			
		@			
		> ACL Data RX: Handle 200 flags 0x00 dlen 2061			
		#34 [hci0] 14.274390			
		invalid packet size (16 != 2061)			
		0c 00 01 00 04 01 08 00 40 00 00 00 00 00 00 04			
		@			
		> ACL Data RX: Handle 200 flags 0x00 dlen 2061			
		#35 [hci0] 14.274932			
		invalid packet size (16 != 2061)			
		0c 00 01 00 04 01 08 00 40 00 00 00 07 00 03 00			
		@			
		= bluetoothd: Bluetooth daemon 5.43			
		14.401828			
		> ACL Data RX: Handle 200 flags 0x00 dlen 1033			
		#36 [hci0] 14.275753			
		invalid packet size (12 != 1033)			
		08 00 01 00 04 01 04 00 40 00 00 00			
		@			
CVE-2022-48949	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>CVL-2022-48949</u>	multiple	been resolved:	2024-10-21	5.5	Wedium
	products	been resolved.			
	products	igb: Initialize mailbox message for VF reset			
		igo. Initialize manbox message for vi reset			
		When a MAC address is not assigned to the VF, that			
		portion of the message			
		sent to the VF is not set. The memory, however, is			
		allocated from the			
		stack meaning that information may be leaked to the			
		VM. Initialize the			
		message buffer to 0 so that no information is passed to the VM in this			
	linuv	Case.	2024-10-21	5.5	Medium
<u>CVE-2022-48952</u>	linux - multiplo	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	ivieulum
	multiple products				
	products	PCI: mt7621: Add continue to quirks table			
		PCI: mt7621: Add sentinel to quirks table			
		Current driver is missing a contined in the struct			
		Current driver is missing a sentinel in the struct			
		soc_device_attribute array, which causes an oops when assessed by the			
		soc_device_match(mt7621_pcie_quirks_match) call.			
		This was only expected once the			
		This was only exposed once the CONFIG_SOC_MT7621 mt7621 soc_dev_attr			
		was fixed to register the SOC as a device, in:			
		was nited to register the SOC as a device, in.			

		commit 7c18b64bba3b ("mips: ralink: mt7621: do not			
		use kzalloc too early")			
		Fix it by adding the required sentinel.			
CVE-2022-48953	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>CVL-2022-48933</u>	multiple	been resolved:	2024-10-21	5.5	Weuluiti
	products	been resolved.			
	products	rtc: cmos: Fix event handler registration ordering			
		issue			
		Because acpi_install_fixed_event_handler() enables			
		the event			
		automatically on success, it is incorrect to call it			
		before the			
		handler routine passed to it is ready to handle events.			
		Unfortunately, the rtc-cmos driver does exactly the			
		incorrect thing			
		by calling cmos_wake_setup(), which passes			
		rtc_handler() to			
		acpi_install_fixed_event_handler(), before			
		cmos_do_probe(), because			
		rtc_handler() uses dev_get_drvdata() to get to the			
		cmos object			
		pointer and the driver data pointer is only populated			
		in			
		cmos_do_probe().			
		This leads to a NULL pointer dereference in			
		rtc_handler() on boot			
		if the RTC fixed event happens to be active at the init			
		time.			
		To address this issue, change the initialization			
		ordering of the			
		driver so that cmos_wake_setup() is always called			
		after a successful			
		cmos_do_probe() call.			
		While at it, change cmos_pnp_probe() to call			
		cmos_do_probe() after			
		the initial if () statement used for computing the IRQ			
		argument to			
		be passed to cmos_do_probe() which is cleaner than			
		calling it in			
		each branch of that if () (local variable "irq" can be of			
		type int,			
		because it is passed to that function as an argument			
		of type int).			
		Note that commit 6492fed7d8c9 ("rtc: rtc-cmos: Do			

					r 1
		not check			
		ACPI_FADT_LOW_POWER_S0") caused this issue to			
		affect a larger number			
		of systems, because previously it only affected			
		systems with			
		ACPI_FADT_LOW_POWER_S0 set, but it is present			
		regardless of that			
		commit.			
<u>CVE-2022-48955</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		net: thunderbolt: fix memory leak in tbnet_open()			
		When tb_ring_alloc_rx() failed in tbnet_open(), ida			
		that allocated in			
		tb_xdomain_alloc_out_hopid() is not released. Add			
		tb_xdomain_release_out_hopid() to the error path to			
	1 :	release ida.	2024 40 24		Marthere
<u>CVE-2022-48957</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products	dnaad switch: Fix mamory look in			
		dpaa2-switch: Fix memory leak in			
		dpaa2_switch_acl_entry_add() and			
		dpaa2_switch_acl_entry_remove()			
		The cmd_buff needs to be freed when error			
		happened in			
		dpaa2_switch_acl_entry_add() and			
		dpaa2_switch_acl_entry_remove().			
CVE-2022-48958	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>CVL 2022 10550</u>	multiple	been resolved:	20211021	5.5	Wieddani
	products				
	products	ethernet: aeroflex: fix potential skb leak in			
		greth_init_rings()			
		8. cm_m			
		The greth init rings() function won't free the newly			
		allocated skb when			
		dma_mapping_error() returns error, so add			
		dev_kfree_skb() to fix it.			
		~			
		Compile tested only.			
CVE-2022-48959	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		net: dsa: sja1105: fix memory leak in			
		sja1105_setup_devlink_regions()			
		When dsa_devlink_region_create failed in			
		<pre>sja1105_setup_devlink_regions(),</pre>			
		priv->regions is not released.			

C)/F 2022 400C1	1:		2024 40 24		
<u>CVE-2022-48961</u>	linux - multiple	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	products				
	•	net: mdio: fix unbalanced fwnode reference count in			
		mdio_device_release()			
		There is warning report about of_node refcount leak			
		while probing mdio device:			
		OF: ERROR: memory leak, expected refcount 1 instead of 2,			
		of_node_get()/of_node_put() unbalanced - destroy			
		cset entry:			
		attach overlay node			
		/spi/soc@0/mdio@710700c0/ethernet@4			
		In of_mdiobus_register_device(), we increase fwnode refcount			
		by fwnode_handle_get() before associating the			
		of_node with			
		mdio device, but it has never been decreased in			
		normal path.			
		Since that, in mdio_device_release(), it needs to call			
		fwnode_handle_put() in addition instead of calling			
		kfree()			
		directly.			
		After above, just calling mdio_device_free() in the			
		error handle			
		path of of_mdiobus_register_device() is enough to			
		keep the			
		refcount balanced.			
<u>CVE-2022-48963</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple products	been resolved:			
	products	net: wwan: iosm: fix memory leak in ipc_mux_init()			
		When failed to alloc ipc_mux->ul_adb.pp_qlt in			
		ipc_mux_init(), ipc_mux			
		is not released.			
<u>CVE-2022-48965</u>	linux - multiplo	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	multiple products				
	products	gpio/rockchip: fix refcount leak in			
		rockchip_gpiolib_register()			
		The node returned by of_get_parent() with refcount			
		incremented,			
		of_node_put() needs be called when finish using it. So add it in the			
		end of of_pinctrl_get().			

01/5 2022 40000	P .	the the state of the falls of the state of t	2024 40 24		
CVE-2022-48968	linux -	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	multiple products	been resolved.			
	products	octeontx2-pf: Fix potential memory leak in			
		otx2_init_tc()			
		In otx2_init_tc(), if rhashtable_init() failed, it does not			
		free			
		tc->tc_entries_bitmap which is allocated in			
		otx2_tc_alloc_ent_bitmap().			
CVE-2022-48969	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		xen-netfront: Fix NULL sring after live migration			
		A NAPI is setup for each network sring to poll data to			
		kernel			
		The sring with source host is destroyed before live			
		migration and			
		new sring with target host is setup after live migration.			
		The NAPI for the old sring is not deleted until setup			
		new sring			
		with target host after migration. With			
		busy_poll/busy_read enabled,			
		the NAPI can be polled before got deleted when			
		resume VM.			
		BUG: unable to handle kernel NULL pointer			
		dereference at			
		0000000000008			
		IP: xennet_poll+0xae/0xd20			
		PGD 0 P4D 0			
		Oops: 0000 [#1] SMP PTI			
		Call Trace: finish_task_switch+0x71/0x230			
		timerqueue_del+0x1d/0x40			
		hrtimer_try_to_cancel+0xb5/0x110			
		xennet_alloc_rx_buffers+0x2a0/0x2a0			
		napi busy loop+0xdb/0x270			
		sock_poll+0x87/0x90			
		do_sys_poll+0x26f/0x580			
		tracing_map_insert+0x1d4/0x2f0			
		event_hist_trigger+0x14a/0x260			
		finish_task_switch+0x71/0x230			
		schedule+0x256/0x890			
		recalc_sigpending+0x1b/0x50			
		xen_sched_clock+0x15/0x20 rb_reserve_next+0x12d/0x140			
		ring_buffer_lock_reserve+0x123/0x3d0			
		11118_DUITET_IOCK_TESETVETUX125/UX500			

	1				1
		event_triggers_call+0x87/0xb0			
		trace_event_buffer_commit+0x1c4/0x210			
		xen_clocksource_get_cycles+0x15/0x20			
		ktime_get_ts64+0x51/0xf0			
		SyS_ppoll+0x160/0x1a0			
		SyS_ppoll+0x160/0x1a0			
		do_syscall_64+0x73/0x130			
		entry_SYSCALL_64_after_hwframe+0x41/0xa6			
		RIP: xennet_poll+0xae/0xd20 RSP: ffffb4f041933900			
		CR2: 00000000000008			
		[end trace f8601785b354351c]			
		xen frontend should remove the NAPIs for the old			
		srings before live			
		-			
		migration as the bond srings are destroyed			
		There is a tiny window between the crings are set to			
		There is a tiny window between the srings are set to NULL and			
		the NAPIs are disabled, It is safe as the NAPI threads			
		are still			
		frozen at that time			
<u>CVE-2022-48970</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		af_unix: Get user_ns from in_skb in			
		unix_diag_get_exact().			
		Wei Chen reported a NULL deref in sk_user_ns()			
		[0][1], and Paolo diagnosed			
		the root cause: in unix_diag_get_exact(), the newly			
		allocated skb does not			
		have sk. [2]			
		We must get the user_ns from the			
		NETLINK_CB(in_skb).sk and pass it to			
		sk_diag_fill().			
		[0]:			
		BUG: kernel NULL pointer dereference, address:			
		00000000000270			
		#PF: supervisor read access in kernel mode			
		#PF: error_code(0x0000) - not-present page			
		PGD 12bbce067 P4D 12bbce067 PUD 12bc40067			
		PMD 0			
		Oops: 0000 [#1] PREEMPT SMP			
		CPU: 0 PID: 27942 Comm: syz-executor.0 Not tainted			
		6.1.0-rc5-next-20221118 #2			
		Hardware name: QEMU Standard PC (i440FX + PIIX, 1996), BIOS			
	1		1		1
		rel-1.13.0-48-gd9c812dda519-prebuilt.qemu.org			

T1	04/04/2014		
	04/01/2014		
	RIP: 0010:sk_user_ns include/net/sock.h:920 [inline]		
	RIP: 0010:sk_diag_dump_uid net/unix/diag.c:119		
	[inline]		
	RIP: 0010:sk_diag_fill+0x77d/0x890		
	net/unix/diag.c:170		
	Code: 89 ef e8 66 d4 2d fd c7 44 24 40 00 00 00 00 49		
	8d 7c 24 18 e8		
	54 d7 2d fd 49 8b 5c 24 18 48 8d bb 70 02 00 00 e8 43		
	d7 2d fd <48> 8b		
	9b 70 02 00 00 48 8d 7b 10 e8 33 d7 2d fd 48 8b 5b		
	10 48 8d		
	RSP: 0018:ffffc90000d67968 EFLAGS: 00010246		
	RAX: ffff88812badaa48 RBX: 000000000000000 RCX:		
	fffffff840d481d		
	RDX: 000000000000465 RSI: 000000000000000		
	RDI: 00000000000270		
	RBP: ffffc90000d679a8 R08: 000000000000277 R09:		
	00000000000000		
	R10: 0001fffffffffff R11: 0001c90000d679a8 R12:		
	ffff88812ac03800		
	R13: ffff88812c87c400 R14: ffff88812ae42210 R15:		
	ffff888103026940		
	FS: 00007f08b4e6f700(0000)		
	GS:ffff88813bc00000(0000)		
	knlGS:00000000000000		
	CS: 0010 DS: 0000 ES: 0000 CR0: 000000080050033		
	CR2: 000000000000270 CR3: 00000012c58b000		
	CR4: 000000003506f0		
	DR0: 0000000000000 DR1: 000000000000000000000000000000000000		
	DR2: 00000000000000		
	DR3: 00000000000000 DR6: 0000000fffe0ff0 DR7:		
	00000000000400		
	Call Trace:		
	<task></task>		
	unix_diag_get_exact net/unix/diag.c:285 [inline]		
	unix diag handler dump+0x3f9/0x500		
	net/unix/diag.c:317		
	sock_diag_cmd net/core/sock_diag.c:235 [inline]		
	sock_diag_rcv_msg+0x237/0x250		
	net/core/sock_diag.c:266		
	netlink_rcv_skb+0x13e/0x250		
	net/netlink/af netlink.c:2564		
	sock_diag_rcv+0x24/0x40 net/core/sock_diag.c:277		
	netlink_unicast_kernel net/netlink/af_netlink.c:1330		
	[inline]		
	netlink_unicast+0x5e9/0x6b0		
	net/netlink/af_netlink.c:1356		
	netlink_sendmsg+0x739/0x860		
	net/netlink/af_netlink.c:1932		
	sock_sendmsg_nosec_net/socket.c:714 [inline]		
L	300K_30101138_10300 1101/ 300Ket.0./14 [1111110]		

sock_sendmsg net/socket.c:734 [inline] sys_sendmsg+0x38f/0x500 net/socket.c:2476 sys_sendmsg net/socket.c:2530 [inline]	
sys sendmsg net/socket c:2530 [inline]	
sys_sendmsg+0x197/0x230 net/socket.c:2559	
do_sys_sendmsg net/socket.c:2568 [inline]	
se_sys_sendmsg net/socket.c:2566 [inline]	
x64_sys_sendmsg+0x42/0x50 net/socket.c:2566	
do_syscall_x64 arch/x86/entry/common.c:50 [inline]	
do_syscall_64+0x2b/0x70	
arch/x86/entry/common.c:80	
entry_SYSCALL_64_after_hwframe+0x63/0xcd	
RIP: 0033:0x4697f9	
Code: f7 d8 64 89 02 b8 ff ff ff c3 66 0f 1f 44 00 00	
48 89 f8 48	
89 f7 48 89 d6 48 89 ca 4d 89 c2 4d 89 c8 4c 8b 4c 24	
08 0f 05 <48> 3d	
01 f0 ff ff 73 01 c3 48 c7 c1 bc ff ff f7 d8 64 89 01 48	
RSP: 002b:00007f08b4e6ec48 EFLAGS: 00000246	
ORIG_RAX: 0000000000002e	
RAX: fffffffffffda RBX: 0000000077bf80 RCX:	
000000004697f9	
RDX: 0000000000000 RSI: 000000001c0	
RDI: 000000000000003	
RBP: 0000000004d29e9 R08: 000000000000000	
R09: 00000000000000000	
R10: 0000000000000 R11: 000000000246	
R12: 00000000077bf80	
R13: 00000000000000 R14: 0000000077bf80	
R15: 00007ffdb36bc6c0	
<pre></pre>	
Modules linked in:	
CR2: 0000000000270	
https://lore.kernel.org/netdev/CAO4mrfdvyjFpokhNsi	
wZiP-	
wpdSD0AStcJwfKcKQdAALQ9_2Qw@mail.gmail.com/	
[2]:	
https://lore.kernel.org/netdev/e04315e7c90d9a7561	
3f3993c2baf2d344eef7eb.camel@redhat.com/	
	edium
multiple been resolved:	
products	
Bluetooth: Fix not cleanup led when bt_init fails	
<pre>bt_init() calls bt_leds_init() to register led, but if it</pre>	
fails later,	
bt_leds_cleanup() is not called to unregister it.	
This can cause panic if the argument "bluetooth-	
power" in text is freed	

					,
		and then another led_trigger_register() tries to			
		access it:			
		BUG: unable to handle page fault for address:			
		fffffffc06d3bc0			
		RIP: 0010:strcmp+0xc/0x30			
		Call Trace:			
		<task></task>			
		<pre>led_trigger_register+0x10d/0x4f0</pre>			
		led_trigger_register_simple+0x7d/0x100			
		bt_init+0x39/0xf7 [bluetooth]			
		do_one_initcall+0xd0/0x4e0			
<u>CVE-2022-48972</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products	mac802154: fix missing INIT_LIST_HEAD in			
		ieee802154 if add()			
		Kernel fault injection test reports null-ptr-deref as			
		follows:			
		BUG: kernel NULL pointer dereference, address:			
		0000000000008			
		0010:cfg802154_netdev_notifier_call+0x120/0x310			
		include/linux/list.h:114 Call Trace:			
		<task></task>			
		raw_notifier_call_chain+0x6d/0xa0			
		kernel/notifier.c:87			
		call_netdevice_notifiers_info+0x6e/0xc0			
		net/core/dev.c:1944			
		unregister_netdevice_many_notify+0x60d/0xcb0			
		net/core/dev.c:1982			
		unregister_netdevice_queue+0x154/0x1a0			
		net/core/dev.c:10879			
		register_netdevice+0x9a8/0xb90			
		net/core/dev.c:10083 ieee802154_if_add+0x6ed/0x7e0			
		net/mac802154/if_ace.c:659			
		ieee802154_register_hw+0x29c/0x330			
		net/mac802154/main.c:229			
		mcr20a_probe+0xaaa/0xcb1			
		drivers/net/ieee802154/mcr20a.c:1316			
		ieee802154_if_add() allocates wpan_dev as netdev's			
		private data, but not			
		init the list in struct wpan_dev.			
		cfg802154_netdev_notifier_call() manage the list when device register/unregister, and may			
		lead to null-ptr-deref.			

		Use INIT_LIST_HEAD() on it to initialize it correctly.			
<u>CVE-2022-48973</u>	linux - multiple products	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	products	gpio: amd8111: Fix PCI device reference count leak			
		for_each_pci_dev() is implemented by			
		pci_get_device(). The comment of			
		<pre>pci_get_device() says that it will increase the reference count for the</pre>			
		returned pci_dev and also decrease the reference			
		count for the input			
		pci_dev @from if it is not NULL.			
		If we break for_each_pci_dev() loop with pdev not			
		NULL, we need to call			
		<pre>pci_dev_put() to decrease the reference count. Add the missing</pre>			
		pci_dev_put() after the 'out' label. Since			
		pci_dev_put() can handle NULL			
		input parameter, there is no problem for the 'Device			
		not found' branch.			
		For the normal path, add pci_dev_put() in			
CVE-2022-48974	linux -	amd_gpio_exit(). In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>CVL-2022-40574</u>	multiple	been resolved:	2024-10-21	5.5	Weddulli
	products				
		netfilter: conntrack: fix usingthis_cpu_add in			
		preemptible			
		Currently in nf_conntrack_hash_check_insert(), when it fails in			
		nf_ct_ext_valid_pre/post(), NF_CT_STAT_INC() will			
		be called in the			
		preemptible context, a call trace can be triggered:			
		BUG: usingthis_cpu_add() in preemptible			
		[0000000] code: conntrack/1636			
		caller is			
		nf_conntrack_hash_check_insert+0x45/0x430 [nf_conntrack]			
		Call Trace:			
		<task></task>			
		dump_stack_lvl+0x33/0x46			
		check_preemption_disabled+0xc3/0xf0			
		nf_conntrack_hash_check_insert+0x45/0x430			
		[nf_conntrack] ctnetlink_create_conntrack+0x3cd/0x4e0			
		[nf_conntrack_netlink]			
		ו וחו כסחחוראכג הפנווחגו			

		T			i
		[nf_conntrack_netlink]			
		nfnetlink_rcv_msg+0x277/0x2f0 [nfnetlink]			
		netlink_rcv_skb+0x50/0x100			
		nfnetlink_rcv+0x65/0x144 [nfnetlink]			
		netlink_unicast+0x1ae/0x290			
		netlink_sendmsg+0x257/0x4f0			
		sock_sendmsg+0x5f/0x70			
		This patch is to fix it by changing to use			
		NF_CT_STAT_INC_ATOMIC() for			
		nf_ct_ext_valid_pre/post() check in			
		nf_conntrack_hash_check_insert(),			
		as well as nf_ct_ext_valid_post() in			
		nf_conntrack_confirm().			
		Note that nf_ct_ext_valid_pre() check in			
		nf_conntrack_confirm() is			
		safe to use NF_CT_STAT_INC(), as it's under			
		local_bh_disable().			
CVE-2022-48975	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
	produces	gpiolib: fix memory leak in gpiochip_setup_dev()			
		Here is a backtrace report about memory leak			
		detected in			
		gpiochip_setup_dev():			
		unreferenced object 0xffff88810b406400 (size 512):			
		comm "python3", pid 1682, jiffies 4295346908 (age			
		24.090s)			
		backtrace:			
		kmalloc_trace			
		device_add device_private_init at			
		drivers/base/core.c:3361			
		(inlined by) device_add at drivers/base/core.c:3411			
		cdev_device_add			
		gpiolib_cdev_register			
		gpiochip setup dev			
		gpiochip_add_data_with_key			
		Phoonib_aga_agra_acra_acra_acra			
		gcdev_register() & gcdev_unregister() would call			
		device_add() &			
		device_del() (no matter CONFIG_GPIO_CDEV is			
		enabled or not) to			
		register/unregister device.			
		However, if device_add() succeeds, some resource			
		(like			
		struct device_private allocated by			
		device_private_init())			
	1	p			<u> </u>

		is not released by device del().			
		Therefore, after device_add() succeeds by			
		gcdev_register(), it			
		needs to call put_device() to release resource in the			
		error handle			
		path.			
		Here we move forward the register of release			
		function, and let it			
		release every piece of resource by put_device()			
		instead of kfree().			
		While at it, fix another subtle issue, i.e. when gc-			
		>ngpio is equal			
		to 0, we still call kcalloc() and, in case of further error, kfree()			
		on the ZERO_PTR pointer, which is not NULL. It's not			
		a bug per se,			
		but rather waste of the resources and potentially			
		wrong expectation			
		about contents of the gdev->descs variable.			
CVE-2022-48976	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products	netfilter: flowtable_offload: fix usingthis_cpu_add			
		in preemptible			
		flow_offload_queue_work() can be called in			
		workqueue without			
		bh disabled, like the call trace showed in my act_ct			
		testing,			
		calling NF_FLOW_TABLE_STAT_INC() there would			
		cause a call			
		trace:			
		BUG: using <u>this</u> cpu_add() in preemptible			
		[00000000] code: kworker/u4:0/138560			
		caller is flow_offload_queue_work+0xec/0x1b0			
		[nf_flow_table]			
		Workqueue: act_ct_workqueue			
		tcf_ct_flow_table_cleanup_work [act_ct]			
		Call Trace:			
		<task></task>			
		dump_stack_lvl+0x33/0x46			
		check_preemption_disabled+0xc3/0xf0			
		flow_offload_queue_work+0xec/0x1b0			
		[nf_flow_table]			
		nf_flow_table_iterate+0x138/0x170 [nf_flow_table]			
		nf_flow_table_free+0x140/0x1a0 [nf_flow_table] tcf_ct_flow_table_cleanup_work+0x2f/0x2b0			

		r			
		[act_ct]			
		process_one_work+0x6a3/0x1030			
		worker_thread+0x8a/0xdf0			
		This patch fixes it by using			
		NF_FLOW_TABLE_STAT_INC_ATOMIC()			
		instead in flow_offload_queue_work().			
		Note that for FLOW_CLS_REPLACE branch in			
		flow offload queue work(),			
		it may not be called in preemptible path, but it's good			
		to use			
		NF_FLOW_TABLE_STAT_INC_ATOMIC() for all cases in			
01/5 0000 40077		flow_offload_queue_work().	2024 40 24		
<u>CVE-2022-48977</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		can: af_can: fix NULL pointer dereference in			
		can_rcv_filter			
		Analogue to commit 8aa59e355949 ("can: af can: fix			
		NULL pointer			
		dereference in can_rx_register()") we need to check			
		for a missing			
		-			
		initialization of ml_priv in the receive path of CAN frames.			
		Trames.			
		Since commit 4e096a18867a ("net: introduce CAN			
		specific pointer in the			
		struct net_device") the check for dev->type to be			
		ARPHRD_CAN is not			
		sufficient anymore since bonding or tun netdevices			
		claim to be CAN			
		devices but do not initialize ml_priv accordingly.			
CVE-2022-48978	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:		-	
	products				
	products	HID: core: fix shift-out-of-bounds in			
		hid_report_raw_event			
		Combat you award alotte and of barries to be			
		Syzbot reported shift-out-of-bounds in			
		hid_report_raw_event.			
		microsoft 0003:045E:07DA.0001: hid_field_extract()			
		called with n (128) >			
		32! (swapper/0)			
		====			
		UBSAN: shift-out-of-bounds in drivers/hid/hid-			
		core.c:1323:20			
		shift exponent 127 is too large for 32-bit type 'int'			
L					

r		· · · ·	
	CPU: 0 PID: 0 Comm: swapper/0 Not tainted		
	6.1.0-rc4-syzkaller-00159-g4bbf3422df78 #0		
	Hardware name: Google Compute Engine/Google		
	Compute Engine, BIOS		
	Google 10/26/2022		
	Call Trace:		
	<irq></irq>		
	dump_stack lib/dump_stack.c:88 [inline]		
	dump_stack_lvl+0x1e3/0x2cb lib/dump_stack.c:106		
	ubsan_epilogue lib/ubsan.c:151 [inline]		
	ubsan_handle_shift_out_of_bounds+0x3a6/0x420		
	lib/ubsan.c:322		
	snto32 drivers/hid/hid-core.c:1323 [inline]		
	hid_input_fetch_field drivers/hid/hid-core.c:1572		
	[inline]		
	hid_process_report drivers/hid/hid-core.c:1665		
	[inline]		
	hid_report_raw_event+0xd56/0x18b0		
	drivers/hid/hid-core.c:1998		
	hid_input_report+0x408/0x4f0 drivers/hid/hid-		
	core.c:2066		
	hid_irq_in+0x459/0x690 drivers/hid/usbhid/hid-		
	core.c:284		
	usb_hcd_giveback_urb+0x369/0x530		
	drivers/usb/core/hcd.c:1671		
	dummy timer+0x86b/0x3110		
	drivers/usb/gadget/udc/dummy_hcd.c:1988		
	call_timer_fn+0xf5/0x210 kernel/time/timer.c:1474		
	expire_timers kernel/time/timer.c:1519 [inline]		
	kernel/time/timer.c:1790		
	run_timer_softirq+0x63/0xf0		
	kernel/time/timer.c:1803		
	dosoftirq+0x277/0x75b kernel/softirq.c:571		
	irq_exit_rcu+0xec/0x170 kernel/softirq.c:650		
	irg_exit_rcu+0x5/0x20 kernel/softirg.c:662		
	sysvec_apic_timer_interrupt+0x91/0xb0		
	arch/x86/kernel/apic/apic.c:1107		
	a chy 2007 Nethely apic/ apic.c.1107		
	=====		
	If the size of the integer (unsigned n) is bigger than 32		
	in snto32(), shift avagaget will be too large for 22 hit type 'int'		
	shift exponent will be too large for 32-bit type 'int',		
	resulting in a		
	shift-out-of-bounds bug.		
	Fix this by adding a check on the size of the integer		
	(unsigned n) in		
	snto32(). To add support for n greater than 32 bits,		
	set n to 32, if n		
	is greater than 32.		

CVE-2022-48979	linux -	In the Linux kernel, the following vulnershility has	2024-10-21	5.5	Medium
<u>CVE-2022-46979</u>	multiple	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	weaturn
	products				
	produces	drm/amd/display: fix array index out of bound error			
		in DCN32 DML			
		[Why&How]			
		LinkCapacitySupport array is indexed with the			
		number of voltage states and			
		not the number of max DPPs. Fix the error by			
		changing the array			
		declaration to use the correct (larger) array size of			
		total number of			
		voltage states.			
<u>CVE-2022-48982</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		Bluetooth: Fix crash when replugging CSR fake controllers			
		controllers			
		It seems fake CSR 5.0 clones can cause the suspend			
		notifier to be			
		registered twice causing the following kernel panic:			
		[71.986122] Call Trace:			
		[71.986124] <task></task>			
		[71.986125]			
		blocking_notifier_chain_register+0x33/0x60			
		<pre>[71.986130] hci_register_dev+0x316/0x3d0</pre>			
		[bluetooth			
		99b5497ea3d09708fa1366c1dc03288bf3cca8da]			
		[71.986154] btusb_probe+0x979/0xd85 [btusb			
		e1e0605a4f4c01984a4b9c8ac58c3666ae287477]			
		[71.986159]?			
		pm_runtime_set_status+0x1a9/0x300			
		[71.986162] ? ktime_get_mono_fast_ns+0x3e/0x90			
		[71.986167] usb_probe_interface+0xe3/0x2b0			
		[71.986171] really_probe+0xdb/0x380			
		[71.986174] ? pm_runtime_barrier+0x54/0x90			
		[71.986177]			
		[71.986180] driver_probe_device+0x1f/0x90			
		[71.986183]device_attach_driver+0x89/0x110			
		[71.986186] ?			
		driver_allows_async_probing+0x70/0x70			
		[71.986189] bus_for_each_drv+0x8c/0xe0			
		[71.986192]device_attach+0xb2/0x1e0			
		[71.986195] bus_probe_device+0x92/0xb0			
		[71.986198] device_add+0x422/0x9a0			
		[71.986201] ? sysfs_merge_group+0xd4/0x110			
		[71.986205] usb_set_configuration+0x57a/0x820			

				T		Γ
			[71.986208] usb_generic_driver_probe+0x4f/0x70			
			<pre>[71.986211] usb_probe_device+0x3a/0x110</pre>			
			[71.986213] really_probe+0xdb/0x380			
			[71.986216] ? pm_runtime_barrier+0x54/0x90			
			[71.986219]driver_probe_device+0x78/0x170			
			[71.986221] driver_probe_device+0x1f/0x90			
			<pre>[71.986224]device_attach_driver+0x89/0x110</pre>			
			[71.986227] ?			
			driver_allows_async_probing+0x70/0x70			
			<pre>[71.986230] bus_for_each_drv+0x8c/0xe0</pre>			
			<pre>[71.986232]device_attach+0xb2/0x1e0</pre>			
			<pre>[71.986235] bus_probe_device+0x92/0xb0</pre>			
			[71.986237] device_add+0x422/0x9a0			
			[71.986239] ? _dev_info+0x7d/0x98			
			<pre>[71.986242] ? blake2s_update+0x4c/0xc0</pre>			
			<pre>[71.986246] usb_new_device.cold+0x148/0x36d</pre>			
			[71.986250] hub_event+0xa8a/0x1910			
			<pre>[71.986255] process_one_work+0x1c4/0x380</pre>			
			[71.986259] worker_thread+0x51/0x390			
			[71.986262] ? rescuer_thread+0x3b0/0x3b0			
			[71.986264] kthread+0xdb/0x110			
			[71.986266] ?			
			kthread_complete_and_exit+0x20/0x20			
			[71.986268] ret_from_fork+0x1f/0x30			
			[71.986273]			
			[71.986274][end trace 0000000000000000]			
			[71.986284] btusb: probe of 2-1.6:1.0 failed with			
			error -17			
CVE-2022-4	48983	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
		multiple	been resolved:			
		products				
		•	io uring: Fix a null-ptr-deref in io tctx exit cb()			
			Syzkaller reports a NULL deref bug as follows:			
			BUG: KASAN: null-ptr-deref in			
			io_tctx_exit_cb+0x53/0xd3			
			Read of size 4 at addr 0000000000000138 by task			
			file1/1955			
			CPU: 1 PID: 1955 Comm: file1 Not tainted 6.1.0-rc7-			
			00103-gef4d3ea40565 #75			
			Hardware name: QEMU Standard PC (i440FX + PIIX,			
			1996), BIOS 1.11.0-2.el7 04/01/2014			
			Call Trace:			
			<task></task>			
			-			
			dump_stack_lvl+0xcd/0x134			
			dump_stack_lvl+0xcd/0x134			
			dump_stack_lvl+0xcd/0x134 ? io_tctx_exit_cb+0x53/0xd3			

in tety wit $ch(0)(52/0)(d2)$		
io_tctx_exit_cb+0x53/0xd3		
task_work_run+0x164/0x250		
? task_work_cancel+0x30/0x30		
get_signal+0x1c3/0x2440		
? lock_downgrade+0x6e0/0x6e0		
? lock_downgrade+0x6e0/0x6e0		
? exit_signals+0x8b0/0x8b0		
? do_raw_read_unlock+0x3b/0x70		
? do_raw_spin_unlock+0x50/0x230		
arch_do_signal_or_restart+0x82/0x2470		
? kmem_cache_free+0x260/0x4b0		
? putname+0xfe/0x140		
? get_sigframe_size+0x10/0x10		
? do_execveat_common.isra.0+0x226/0x710		
? lockdep_hardirqs_on+0x79/0x100		
? putname+0xfe/0x140		
? do_execveat_common.isra.0+0x238/0x710		
exit_to_user_mode_prepare+0x15f/0x250		
syscall_exit_to_user_mode+0x19/0x50		
do_syscall_64+0x42/0xb0		
entry_SYSCALL_64_after_hwframe+0x63/0xcd		
RIP: 0023:0x0		
Code: Unable to access opcode bytes at 0xffffffffffffd6.		
RSP: 002b:00000000fffb7790 EFLAGS: 00000200		
ORIG_RAX: 000000000000000000000000000000000000		
RCX: 0000000000000000 RBX: 000000000000000000000000000000000000		
RDX: 000000000000000 RSI: 0000000000000000		
RDI: 000000000000000000000000000000000000		
RBP: 000000000000000 R08: 00000000000000000		
R09: 0000000000000000 R08: 0000000000000000		
R10: 00000000000000 R11: 000000000000000		
R12: 000000000000000000000000000000000000		
R12: 000000000000000 R14: 000000000000000000000000000000000000		
R15: 000000000000000 R14: 000000000000000000000000000000000000		
Kernel panic - not syncing: panic_on_warn set		
Kenner panie not synoling, panie_on_wain set		
This happens because the adding of task_work from		
io_ring_exit_work()		
isn't synchronized with canceling all work items from		
eg exec. The		
execution of the two are ordered in that they are		
both run by the task		
itself, but if io_tctx_exit_cb() is queued while we're		
canceling all		
work items off exec AND gets executed when the task		
exits to userspace		
rather than in the main loop in		
io_uring_cancel_generic(), then we can		
וט_טוווא_נמוונכו_צכווכוונן), נווכוו שב נמוו	I	

			1	1	
		find current->io_uring == NULL and hit the above			
		crash.			
		It's safe to add this NULL check here, because the			
		execution of the two			
		paths are done by the task itself.			
		[axboe: add code comment and also put an			
		explanation in the commit msg]			
<u>CVE-2022-48984</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		can: slcan: fix freed work crash			
		The LTP test pty03 is causing a crash in slcan:			
		BUG: kernel NULL pointer dereference, address:			
		0000000000008			
		#PF: supervisor read access in kernel mode			
		#PF: error_code(0x0000) - not-present page			
		PGD 0 P4D 0			
		Oops: 0000 [#1] PREEMPT SMP NOPTI			
		CPU: 0 PID: 348 Comm: kworker/0:3 Not tainted			
		6.0.8-1-default #1 openSUSE Tumbleweed			
		9d20364b934f5aab0a9bdf84e8f45cfdfae39dab			
		Hardware name: QEMU Standard PC (i440FX + PIIX,			
		1996), BIOS rel-1.15.0-0-g2dd4b9b-			
		rebuilt.opensuse.org 04/01/2014 Workqueue: 0x0 (events)			
		RIP: 0010:process_one_work (/home/rich/kernel/linux/kernel/workqueue.c:706			
		/home/rich/kernel/linux/kernel/workqueue.c:2185)			
		Code: 49 89 ff 41 56 41 55 41 54 55 53 48 89 f3 48			
		83 ec 10 48 8b 06 48 8b 6f 48 49 89 c4 45 30 e4 a8 04			
		b8 00 00 00 00 4c 0f 44 e0 <49> 8b 44 24 08 44 8b a8			
		00 01 00 00 41 83 e5 20 f6 45 10 04 75 0e			
		RSP: 0018:ffffaf7b40f47e98 EFLAGS: 00010046			
		RAX: 000000000000000 RBX: ffff9d644e1b8b48			
		RCX: ffff9d649e439968			
		RDX: 00000000ffff8455 RSI: ffff9d644e1b8b48 RDI:			
		ffff9d64764aa6c0			
		RBP: ffff9d649e4335c0 R08: 00000000000000000			
		R09: ffff9d64764aa734			
		R10: 000000000000007 R11: 0000000000000000			
		R12: 00000000000000			
		R13: ffff9d649e4335e8 R14: ffff9d64490da780 R15:			
		ffff9d64764aa6c0			
		FS: 000000000000000000000000000000000000			
		GS:ffff9d649e400000(0000)			
		knlGS:00000000000000			
		CS: 0010 DS: 0000 ES: 0000 CR0:			
		000000080050033			
	1		<u>I</u>	l	L

	n	1	r		
		CR2: 000000000000008 CR3: 000000036424000			
		CR4: 000000000006f0			
		Call Trace:			
		<task></task>			
		worker_thread			
		(/home/rich/kernel/linux/kernel/workqueue.c:2436)			
		kthread			
		(/home/rich/kernel/linux/kernel/kthread.c:376)			
		ret_from_fork			
		(/home/rich/kernel/linux/arch/x86/entry/entry_64.S:			
		312)			
		Apparently, the slcan's tx_work is freed while being			
		scheduled. While			
		<pre>slcan_netdev_close() (netdev side) calls</pre>			
		flush_work(&sl->tx_work),			
		slcan_close() (tty side) does not. So when the netdev			
		is never set UP,			
		but the tty is stuffed with bytes and forced to wakeup			
		write, the work			
		is scheduled, but never flushed.			
		So add an additional flush_work() to slcan_close() to			
		be sure the work			
		is flushed under all circumstances.			
		is hushed ander an chednistances.			
		The Fixes commit below moved flush_work() from			
		slcan_close() to			
		slcan_netdev_close(). What was the rationale behind			
		it? Maybe we can			
		drop the one in slcan_netdev_close()?			
		I see the same pattern in can327. So it perhaps needs			
		the very same fix.			
<u>CVE-2022-48986</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		mm/gup: fix gup_pud_range() for dax			
		For dax pud, pud_huge() returns true on x86. So the			
		function works as long			
		as hugetlb is configured. However, dax doesn't			
		depend on hugetlb.			
		Commit 414fd080d125 ("mm/gup: fix			
		gup_pmd_range() for dax") fixed			
		devmap-backed huge PMDs, but missed devmap-			
		backed huge PUDs. Fix this as			
		well.			
		This fixes the below kernel panic:			
L	1	1	I	I	1

	1		1		,
		general protection fault, probably for non-canonical			
		address 0x69e7c000cc478: 0000 [#1] SMP			
		< snip >			
		Call Trace:			
		<task></task>			
		get_user_pages_fast+0x1f/0x40			
		iov_iter_get_pages+0xc6/0x3b0			
		? mempool_alloc+0x5d/0x170			
		bio_iov_iter_get_pages+0x82/0x4e0			
		? bvec_alloc+0x91/0xc0			
		? bio_alloc_bioset+0x19a/0x2a0			
		blkdev_direct_IO+0x282/0x480			
		?io_complete_rw_common+0xc0/0xc0			
		? filemap_range_has_page+0x82/0xc0			
		generic_file_direct_write+0x9d/0x1a0			
		? inode_update_time+0x24/0x30			
		generic_file_write_iter+0xbd/0x1e0			
		blkdev_write_iter+0xb4/0x150			
		? io_import_iovec+0x8d/0x340			
		io_write+0xf9/0x300			
		io issue sqe+0x3c3/0x1d30			
		? sysvec_reschedule_ipi+0x6c/0x80			
		ioqueuesqe+0x33/0x240			
		? fget+0x76/0xa0			
		io_submit_sqes+0xe6a/0x18d0			
		?fget_light+0xd1/0x100			
		x64_sys_io_uring_enter+0x199/0x880			
		?context_tracking_enter+0x1f/0x70			
		? irgentry_exit_to_user_mode+0x24/0x30			
		? irqentry_exit+0x1d/0x30			
		?context_tracking_exit+0xe/0x70			
		do_syscall_64+0x3b/0x90			
		entry_SYSCALL_64_after_hwframe+0x61/0xcb			
		RIP: 0033:0x7fc97c11a7be			
		< snip >			
		[end trace 48b2e0e67debcaeb]			
		RIP:			
		0010:internal_get_user_pages_fast+0x340/0x990			
		<pre>< snip ></pre>			
		•			
		Kernel panic - not syncing: Fatal exception			
01/5 2022 12225		Kernel Offset: disabled	2024 40 24		
<u>CVE-2022-48987</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		media: v4l2-dv-timings.c: fix too strict blanking sanity			
		checks			
		Sanity checks were added to verify the			
		v4l2_bt_timings blanking fields			
		in order to avoid integer overflows when userspace			
L	L	<u> </u>	1		1

		passes weird values.			
		But that assumed that userspace would correctly fill			
		in the front porch,			
		backporch and sync values, but sometimes all you			
		know is the total			
		blanking, which is then assigned to just one of these			
		fields.			
		And that can fail with these checks.			
		So instead set a maximum for the total horizontal and			
		vertical			
		blanking and check that each field remains below			
		that.			
		That is still sufficient to quoid integer quorflows but it			
		That is still sufficient to avoid integer overflows, but it also			
		allows for more flexibility in how userspace fills in			
		these fields.			
CVE-2022-48992	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		ASoC: soc-pcm: Add NULL check in BE reparenting			
		Add NULL check in dpcm_be_reparent API, to handle			
		kernel NULL pointer dereference error.			
CV/F 2022 4800F	lineur	The issue occurred in fuzzing test.	2024-10-21		Medium
<u>CVE-2022-48995</u>	linux - multiple	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	wealum
	products	been resolved.			
	products	Input: raydium_ts_i2c - fix memory leak in			
		raydium_i2c_send()			
		There is a kmemleak when test the raydium_i2c_ts			
		with bpf mock device:			
		unreferenced object 0xffff88812d3675a0 (size 8):			
		comm "python3", pid 349, jiffies 4294741067 (age			
		95.695s) hex dump (first 8 bytes):			
		11 0e 10 c0 01 00 04 00			
		backtrace:			
		[<000000068427125>]kmalloc+0x46/0x1b0			
		[<000000090180f91>]			
		raydium_i2c_send+0xd4/0x2bf [raydium_i2c_ts]			
		[<00000006e631aee>]			
		raydium_i2c_initialize.cold+0xbc/0x3e4			
		[raydium_i2c_ts]			
		[<0000000dc6fcf38>]			
		raydium_i2c_probe+0x3cd/0x6bc [raydium_i2c_ts]			

<pre>[<00000003310de16>] i2c_device_probe+0x651/0x80 [<00000005a96bf3>] really_probe+0x17c/0x3f0 [<00000005a96bf3>] really_probe+0x17c/0x3f0 [<00000005a5cb4d9>] driver_probe_device+0x43/0x170 [<000000026f46982>]device_attach_driver+0xf7/0x150 [<000000005d919423cs] bus_for_each_dr+0x14/0x180 [<00000005d91fc23] device_attach+0x165/0x2d0 [<00000003ad93b22>] device_attach+0x165/0x2d0 [<00000003ad93b22>] device_ad+0x810/0x1130 [<00000003ad93b22>] device_device+0x126/0x140 [<00000003ad93b22>] device_device+0x126/0x140 [<00000003ad93b22>] device_dd+0x810/0x1130 [<00000003e2d93b22>] device_dd+0x810/0x1130 [<00000003e2d93b22>] device_dd+0x810/0x1130 [<00000003e2d93b22>] device_dd+0x810/0x1130 [<00000003e2d93b22>] bus_probe_device+0x126/0x140 [<00000003e2d93b22>] device_dd+0x810/0x110 [<00000000fec4177>] of_i2c_register_device+0xf1/0x110 [<00000000fec4177>] of_i2c_rolif+0x100/0x160 unreferenced object 0xffff88812d3675c8 (size 8): comm "python3", pid 349, jiffies 4294741070 (age 95.6925) hex dump (first 8 bytes): 22 00 36 2d 81 88 ff ff ".6 backtrace: [<000000001d5c9620>] raydium_i2c_sen40x40/0x2bf [raydium_i2c_ts] [<000000001d5c9620>] raydium_i2c_sen40x40/0x2bf [raydium_i2c_ts] [<0000000001d5c9620>] raydium_i2c_grobe+0x3c0/0x6bc [raydium_i2c_ts] [<000000000000000000000000000000000000</pre>
<pre>[c000000065a96bf3>] really_probe+0x17c/0x3f0 [c000000005acb499>] driver_probe_device+0x43/0x170 [c000000026acb49>] driver_probe_device+0x43/0x120 [c000000006194023c>] bus_for_each_dr+v0x14/0x180 [c000000006067feca>] device_attach+0x145/0x200 [c0000000ad93b22>] bus_probe_device+0x126/0x140 [c000000068653f>] i2c_new_client_device+0x322/0x4e0 [c00000000fec41775] of_i2c_register_device+0x17/0x110 [c00000000fec41775] of_i2c_register_device+0x17/0x110 [c00000000fec41775] of_i2c_register_device+0x17/0x110 [c0000000fec41775] of_i2c_notify+0x100/0x160 unreferenced object 0xfff88812d3675c8 (size 8): comm "python3", pid 349, jiffies 4294741070 (age 95.692s) hex_dump (first 8 bytes): 22 00 36 2d 81 88 ff ff ".6 backtrace: [c000000001000015<] raydium_i2c_send+0x24/0x2bf [raydium_i2c_t5] [c000000000000000000000000000000000000</pre>
[<0000000096ba499>] driver_probe_device+0xa3/0x170 [<0000000C5acb4d9>] driver_probe_device+0x49/0x120 [<00000000264c8082>] device_attach_driver+0xf7/0x150 [<00000000607feca>] device_attach+0x1e5/0x2d0 [<0000000054301fc2>] bus_probe_device+0x126/0x140 [<00000000c86335t2] device_add+0x810/0x1130 [<00000000c86335t2] device_add+0x810/0x1130 [<00000000c86335t2] of_j2c_register_device+0x352/0x4e0 [<00000000ffec4177>] of_j2c_register_device+0x126/0x14070 (age 95.6925) hex dump (first 8 bytes): _ 22 00 36 2d 81 88 ff ff ".6 backtrace: [<00000000684271255]_kmalloc+0x46/0x1b0 [<00000000684271255]_kmalloc+0x46/0x1b0 [<000000009186191>] raydium_j2c_send+0xd4/0x2bf [raydium_j2c_ts] [<000000006fcf38>] raydium_j2c_probe+0x3cd/0x6bc [raydium_j2c_ts]
<pre>[<00000005acb4d9>] driver_probe_device+0x49/0x120 [<000000264fe082>]device_attach_driver+0xf7/0x150[<000000006067feca>]device_attach+0x125/0x2d0 [<000000006067feca>]device_attach+0x125/0x2d0 [<000000003d301fc2>] bus_probe_device+0x126/0x140 [<00000000ad33b22>] device_add+0x810/0x1130 [<0000000068535f>] i22_new_client_device+0x52/0x4e0 [<000000003c2c248c>] of_i22_register_device+0x51/0x110 [<000000006c4177>] of_i22_notify+0x100/0x160 unreferenced object 0xffft88812d3675c8 (size 8):</pre>
driver_probe_device+0x49/0x120 [<0000000264fc082>] device_attach_driver+0xf7/0x150 [<000000006919423c3] bus_for_each_drv+0x114/0x180 [<000000006301fc2] bus_probe_device+0x126/0x140 [<0000000034301fc2] bus_probe_device+0x126/0x140 [<000000000363222] device_add+0x810/0x1130 [<000000003c2c248c3] of_i2c_register_device+0x120/0x140 [<00000000ffc4177>] of_i2c_notify+0x100/0x160 unreferenced object 0xffff88812d3675c8 (size 8): comm "python3", pid 349, jiffies 4294741070 (age 95.692s) hex dump (first 8 bytes): 22 00 36 2d 81 88 ff ff ".6 backtrace: [<0000000068427125>]kmalloc+0x46/0x1b0 [<0000000013c913] raydium_i2c_scnd+0x404/0x2bf [raydium_i2c_ts] [<00000000145c9620-] raydium_i2c_mitialize.cold+0x223/0x3e4 [raydium_i2c_mitialize.cold+0x223/0x3e4 [raydium_i2c_mitialize.cold+0x223/0x3e4 [raydium_i2c_mitialize.cold+0x223/0x3e4 [raydium_i2c_sts] [<00000000de6fc7i38-] raydium_i2c_ts]
<pre>[<0000000264fe082>]device_attach_driver+0xf7/0x150 [<00000000f919423c>] bus_for_each_driver+0xf7/0x150 [<0000000e067fecas]device_attach+0x1e5/0x2d0 [<0000000054301fc2>] bus_probe_device+0x126/0x140 [<00000000ad93b22>] device_add+0x810/0x1130 [<000000003c8635fs] i2c_new_client_device+0x352/0x4e0 [<000000003c2c248c>] of_i2c_register_device+0x152/0x140 [<000000003c2c248c>] of_i2c_notify+0x100/0x160 unreferenced object 0xfff88812d3675c8 (size 8): comm "python3", pid 349, jiffies 4294741070 (age 95.692s) hex dump (first 8 bytes): 22 00 36 2d 81 88 ff ff ".6 backtrace: [<000000008427125>]_kmalloc+0x46/0x1b0 [<0000000088427125>]_kmalloc+0x46/0x1b0 [<00000000180691>] raydium_i2c_send+0xd4/0x2bf [raydium_i2c_ts] [<00000000defcf38>] raydium_i2c_sprobe+0x3cd/0x6bc [raydium_i2c_ts] [<00000000defcf38>] </pre>
<pre>device_attach_driver+0xf7/0x150 [<00000000919423c>] bus_for_each_drv+0x114/0x180 [<00000000e067feca>] device_attach+0x1e5/0x2d0 [<00000000s4301fc2>] bus_probe_device+0x126/0x140 [<00000000ad393b22>] device_add+0x810/0x1130 [<000000003c32242</pre> (<000000003c2c248c>] of_i2c_register_device+0x52/0x4e0 [<000000003fc2c1477>] of_i2c_notify+0x100/0x160 unreferenced object 0xffft8812d3675c8 (size 8): comm "python3", pid 349, jiffies 4294741070 (age 95.692s) hex dump (first 8 bytes): 2 20 36 2d 81 88 ff f ".6 backtrace: [<0000000068427125>]kmalloc+0x46/0x1b0 [<0000000068427125>]kmalloc+0x46/0x1b0 [<000000000001d5c9620>] raydium_i2c_send+0x4d/0x2bf [raydium_i2c_ts] [<0000000dc6fcf38>] raydium_i2c_probe+0x3cd/0x6bc [raydium_i2c_ts] [<0000000dc6fcf38>]
<pre>[<0000000f319423c>] bus_for_each_drv+0x114/0x180 [<0000000607feca>]device_atta+0x1e5/0x2d0 [<000000054301fc2>] bus_probe_device+0x126/0x140 [<000000003ad3022>] device_atd+0x810/0x1130 [<00000000c86a35f>] i2c_new_client_device+0x352/0x4e0 [<00000000ffec4177>] of_i2c_register_device+0xf1/0x110 [<0000000ffec4177>] of_i2c_notify+0x100/0x160 unreferenced object 0xffff88812d3675c8 (size 8): comm "python3", pid 349, jiffies 4294741070 (age 95.692s) hex dump (first 8 bytes): 22 00 36 2d 81 88 ff ff ".6 backtrace: [<000000068427125>]_kmalloc+0x46/0x1b0 [<000000009180f91>] raydium_i2c_send+0xd4/0x2bf [raydium_i2c_ts] [<00000001dcfef38>] raydium_i2c_probe+0x3cd/0x6bc [raydium_i2c_ts]</pre>
bus_for_each_drv+0x114/0x180 [<0000000e067feca>] device_attach+0x1e5/0x2d0 [<0000000054301fc2>] bus_probe_device+0x126/0x140 [<00000000ad93b22>] device_add+0x810/0x1130 [<000000003c2c248c>] of_i2c_new_client_device+0x352/0x4e0 [<00000003c2c248c>] of_i2c_negister_device+0xf1/0x110 [<00000000ffcc4177>] of_i2c_notify+0x100/0x160 unreferenced object 0xffff88812d3675c8 (size 8): comm "python3", pid 349, jiffies 4294741070 (age 95.692s) hex dump (first 8 bytes): 22 00 36 2d 81 88 ff f ".6 backtrace: [<000000068427125>]kmalloc+0x46/0x1b0 [<000000090180f91>] raydium_i2c_send+0xd4/0x2bf [raydium_i2c_ts] [<00000001d5c9620>] raydium_i2c_ts] [<0000000dc6fcf38>] raydium_i2c_probe+0x3cd/0x6bc [raydium_i2c_ts]
[<00000000006067feca>] deviceattach+0x1e5/0x2d0 [<00000000ad9301fc2>] bus_probe_device+0x126/0x140 [<00000000ad93b22>] device_add+0x810/0x1130 [<000000003c26353f-]
device_attach+0x1e5/0x2d0 [<000000054301fc2>] bus_probe_device+0x126/0x140 [<0000000ad93b22>] device_add+0x810/0x1130 [<00000000c86a537>] i2c_new_client_device+0x352/0x4e0 [<000000003c2c248c>] of_i2c_register_device+0xf1/0x110 [<00000000fc4177>] of_i2c_notify+0x100/0x160 unreferenced object 0xfff88812d3675c8 (size 8): comm "python3", pid 349, jiffies 4294741070 (age 95.692s) hex dump (first 8 bytes): 22 00 36 2d 81 88 ff ".6 backtrace: [<000000068427125>]kmalloc+0x46/0x1b0 [<000000009180f91>] raydium_i2c_send+0xd4/0x2bf [raydium_i2c_ts] [<00000001dsc9620>] raydium_i2c_ts] [<00000000dc6fcf38>] raydium_i2c_probe+0x3cd/0x6bc [raydium_i2c_ts]
<pre>[<000000054301fc2>] bus_probe_device+0x126/0x140 [<0000000ad93b22>] device_add+0x810/0x1130 [<0000000c86a53f>] i2c_new_client_device+0x352/0x4e0 [<00000003c2c248c>] of_i2c_register_device+0x51/0x110 [<00000000fc4177>] of_i2c_notify+0x100/0x160 unreferenced object 0xffff88812d3675c8 (size 8): comm "python3", pid 349, jiffies 4294741070 (age 95.692s) hex dump (first 8 bytes): 22 00 36 2d 81 88 ff ".6 backtrace: [<000000068427125>]kmalloc+0x46/0x1b0 [<000000090180f91>] raydium_i2c_send+0xd4/0x2bf [raydium_i2c_ts] [<00000001dsc9620>] raydium_i2c_ts] [<0000000dc6fcf38>] raydium_i2c_probe+0x3cd/0x6bc [raydium_i2c_ts]</pre>
bus_probe_device+0x126/0x140 [<0000000ad93b22>] device_add+0x810/0x1130 [<00000000086353F3] i2c_new_client_device+0x352/0x4e0 [<000000006c2c248c>] of_i2c_register_device+0xf1/0x110 [<00000000ffec4177>] of_i2c_notify+0x100/0x160 unreferenced object 0xfff88812d3675c8 (size 8): comm "python3", pid 349, jiffies 4294741070 (age 95.692s) hex dump (first 8 bytes): 22 00 36 2d 81 88 ff ff ".6 backtrace: [<000000068427125>]kmalloc+0x46/0x1b0 [<000000090180f91>] raydium_i2c_send+0xd4/0x2bf [raydium_i2c_ts] [<000000001d5c9620>] raydium_i2c_initialize.cold+0x223/0x3e4 [raydium_i2c_probe+0x3cd/0x6bc [raydium_i2c_ts] [<00000000066fcf38>] raydium_i2c_probe+0x3cd/0x6bc [raydium_i2c_ts]
[<0000000ad93b22>] device_add+0x810/0x1130 [<0000000c086a53f>] i2c_new_client_device+0x352/0x4e0 [<00000003c2c248c>] of_i2c_register_device+0xf1/0x110 [<0000000ffec4177>] of_i2c_notify+0x100/0x160 unreferenced object 0xfff88812d3675c8 (size 8): comm "python3", pid 349, jiffies 4294741070 (age 95.692s) hex dump (first 8 bytes): 22 00 36 2d 81 88 ff ff [<000000000000000000000000000000000000
[<0000000ad93b22>] device_add+0x810/0x1130 [<0000000c086a53f>] i2c_new_client_device+0x352/0x4e0 [<00000003c2c248c>] of_i2c_register_device+0xf1/0x110 [<0000000ffec4177>] of_i2c_notify+0x100/0x160 unreferenced object 0xfff88812d3675c8 (size 8): comm "python3", pid 349, jiffies 4294741070 (age 95.692s) hex dump (first 8 bytes): 22 00 36 2d 81 88 ff ff [<000000000000000000000000000000000000
device_add+0x810/0x1130 [<0000000c086a53f>] i2c_new_client_device+0x352/0x4e0 [<00000003c2c248c>] of_i2c_register_device+0xf1/0x110 [<0000000ffec4177>] of_i2c_notify+0x100/0x160 unreferenced object 0xfff88812d3675c8 (size 8): comm "python3", pid 349, jiffies 4294741070 (age 95.692s) hex dump (first 8 bytes): 22 00 36 2d 81 88 ff ff ".6 backtrace: [<000000068427125>]kmalloc+0x46/0x1b0 [<00000000180f91>] raydium_i2c_send+0xd4/0x2bf [raydium_i2c_ts] [<00000001d5c9620>] raydium_i2c_is1] [<00000000dcfcf38>] raydium_i2c_probe+0x3cd/0x6bc [raydium_i2c_ts]
<pre>[<00000000086353f>] i2c_new_client_device+0x352/0x4e0 [<00000003c2c248c>] of_i2c_register_device+0xf1/0x110 [<0000000ffec4177>] of_i2c_notify+0x100/0x160 unreferenced object 0xffff88812d3675c8 (size 8): comm "python3", pid 349, jiffies 4294741070 (age 95.692s) hex dump (first 8 bytes): 22 00 36 2d 81 88 ff ".6 backtrace: [<000000068427125>]kmalloc+0x46/0x1b0 [<0000000090180f91>] raydium_i2c_send+0xd4/0x2bf [raydium_i2c_ts] [<00000001d5c9620>] raydium_i2c_ts] [<00000000dc6fcf38>] raydium_i2c_probe+0x3cd/0x6bc [raydium_i2c_ts]</pre>
i2c_new_client_device+0x352/0x4e0 [<00000003c2c248c>] of_i2c_register_device+0xf1/0x110 [<0000000ffec4177>] of_i2c_notify+0x100/0x160 unreferenced object 0xffff88812d3675c8 (size 8): comm "python3", pid 349, jiffies 4294741070 (age 95.692s) hex dump (first 8 bytes): 22 00 36 2d 81 88 ff ff ".6 backtrace: [<0000000068427125>]_kmalloc+0x46/0x1b0 [<00000000068427125>]_kmalloc+0x46/0x1b0 [<0000000001d5c9620>] raydium_i2c_send+0x44/0x2bf [raydium_i2c_ts] [<00000001d5c9620>] raydium_i2c_ts] [<00000000dc6fcf38>] raydium_i2c_probe+0x3cd/0x6bc [raydium_i2c_ts]
<pre>[<00000003c2c248c>] of_i2c_register_device+0xf1/0x110 [<00000000ffec4177>] of_i2c_notify+0x100/0x160 unreferenced object 0xffff88812d3675c8 (size 8): comm "python3", pid 349, jiffies 4294741070 (age 95.692s) hex dump (first 8 bytes): 22 00 36 2d 81 88 ff ff ".6 backtrace: [<0000000068427125>]kmalloc+0x46/0x1b0 [<0000000090180f91>] raydium_i2c_send+0xd4/0x2bf [raydium_i2c_ts] [<000000001d5c9620>] raydium_i2c_tis] [<00000000dc6fcf38>] raydium_i2c_probe+0x3cd/0x6bc [raydium_i2c_ts]</pre>
of_i2c_register_device+0xf1/0x110 [<00000000ffec4177>] of_i2c_notify+0x100/0x160 unreferenced object 0xffff88812d3675c8 (size 8): comm "python3", pid 349, jiffies 4294741070 (age 95.692s) hex dump (first 8 bytes): 22 00 36 2d 81 88 ff ff [<000000068427125>]kmalloc+0x46/0x1b0 [<0000000068427125>]kmalloc+0x46/0x1b0 [<000000000180f91>] raydium_i2c_send+0xd4/0x2bf [raydium_i2c_ts] [<00000001d5c9620>] raydium_i2c_initialize.cold+0x223/0x3e4 [raydium_i2c_ts] [<00000000dc6fcf38>] raydium_i2c_probe+0x3cd/0x6bc [raydium_i2c_ts]
[<0000000ffec4177>] of_i2c_notify+0x100/0x160 unreferenced object 0xffff88812d3675c8 (size 8): comm "python3", pid 349, jiffies 4294741070 (age 95.692s) hex dump (first 8 bytes): 22 00 36 2d 81 88 ff ff 20 00000068427125>]kmalloc+0x46/0x1b0 [<0000000068427125>]kmalloc+0x46/0x1b0 [<000000000000000000000000000000000000
of_12c_notify+0x100/0x160 unreferenced object 0xffff88812d3675c8 (size 8): comm "python3", pid 349, jiffies 4294741070 (age 95.692s) hex dump (first 8 bytes): 22 00 36 2d 81 88 ff ff ".6 backtrace: [<000000068427125>]kmalloc+0x46/0x1b0 [<0000000090180f91>] raydium_i2c_send+0xd4/0x2bf [raydium_i2c_ts] [<00000001d5c9620>] raydium_i2c_initialize.cold+0x223/0x3e4 [raydium_i2c_ts] [<0000000dc6fcf38>] raydium_i2c_probe+0x3cd/0x6bc [raydium_i2c_ts]
unreferenced object 0xffff88812d3675c8 (size 8): comm "python3", pid 349, jiffies 4294741070 (age 95.692s) hex dump (first 8 bytes): 22 00 36 2d 81 88 ff ff 22 00 36 2d 81 88 ff ff backtrace: [<000000068427125>]kmalloc+0x46/0x1b0 [<000000090180f91>] raydium_i2c_send+0xd4/0x2bf [raydium_i2c_ts] [<00000001d5c9620>] raydium_i2c_initialize.cold+0x223/0x3e4 [raydium_i2c_ts] [<00000000dc6fcf38>] raydium_i2c_probe+0x3cd/0x6bc [raydium_i2c_ts]
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22 00 36 2d 81 88 ff ff ".6 backtrace: [<000000068427125>]kmalloc+0x46/0x1b0 [<000000090180f91>] raydium_i2c_send+0xd4/0x2bf [raydium_i2c_ts] [<00000001d5c9620>] raydium_i2c_initialize.cold+0x223/0x3e4 [raydium_i2c_ts] [<0000000dc6fcf38>] raydium_i2c_probe+0x3cd/0x6bc [raydium_i2c_ts]
backtrace: [<000000068427125>]kmalloc+0x46/0x1b0 [<000000090180f91>] raydium_i2c_send+0xd4/0x2bf [raydium_i2c_ts] [<00000001d5c9620>] raydium_i2c_initialize.cold+0x223/0x3e4 [raydium_i2c_ts] [<0000000dc6fcf38>] raydium_i2c_probe+0x3cd/0x6bc [raydium_i2c_ts]
[<000000068427125>]kmalloc+0x46/0x1b0 [<000000090180f91>] raydium_i2c_send+0xd4/0x2bf [raydium_i2c_ts] [<00000001d5c9620>] raydium_i2c_initialize.cold+0x223/0x3e4 [raydium_i2c_ts] [<0000000dc6fcf38>] raydium_i2c_probe+0x3cd/0x6bc [raydium_i2c_ts]
[<000000090180f91>] raydium_i2c_send+0xd4/0x2bf [raydium_i2c_ts] [<00000001d5c9620>] raydium_i2c_initialize.cold+0x223/0x3e4 [raydium_i2c_ts] [<0000000dc6fcf38>] raydium_i2c_probe+0x3cd/0x6bc [raydium_i2c_ts]
raydium_i2c_send+0xd4/0x2bf [raydium_i2c_ts] [<00000001d5c9620>] raydium_i2c_initialize.cold+0x223/0x3e4 [raydium_i2c_ts] [<0000000dc6fcf38>] raydium_i2c_probe+0x3cd/0x6bc [raydium_i2c_ts]
[<00000001d5c9620>] raydium_i2c_initialize.cold+0x223/0x3e4 [raydium_i2c_ts] [<0000000dc6fcf38>] raydium_i2c_probe+0x3cd/0x6bc [raydium_i2c_ts]
[raydium_i2c_ts] [<0000000dc6fcf38>] raydium_i2c_probe+0x3cd/0x6bc [raydium_i2c_ts]
[raydium_i2c_ts] [<0000000dc6fcf38>] raydium_i2c_probe+0x3cd/0x6bc [raydium_i2c_ts]
[<0000000dc6fcf38>] raydium_i2c_probe+0x3cd/0x6bc [raydium_i2c_ts]
raydium_i2c_probe+0x3cd/0x6bc [raydium_i2c_ts]
i2c_device_probe+0x651/0x680
[<0000000f5a96bf3>] really_probe+0x17c/0x3f0
[<000000096ba499>]
driver_probe_device+0xe3/0x170
[<0000000c5acb4d9>]
driver_probe_device+0x49/0x120
[<0000000264fe082>]
device_attach_driver+0xf7/0x150
[<0000000f919423c>]
bus_for_each_drv+0x114/0x180
[<0000000e067feca>]
device_attach+0x1e5/0x2d0
[<000000054301fc2>]

	1		1		
		bus_probe_device+0x126/0x140			
		[<0000000aad93b22>]			
		device_add+0x810/0x1130			
		[<0000000c086a53f>]			
		i2c_new_client_device+0x352/0x4e0			
		[<00000003c2c248c>]			
		of_i2c_register_device+0xf1/0x110			
		[<00000000ffec4177>]			
		of_i2c_notify+0x100/0x160			
		After BANK_SWITCH command from i2c BUS, no			
		matter success or error			
		happened, the tx_buf should be freed.			
CVE-2022-49000	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		iommu/vt-d: Fix PCI device refcount leak in			
		has_external_pci()			
		for each nei day() is implemented by			
		for_each_pci_dev() is implemented by			
		pci_get_device(). The comment of			
		pci_get_device() says that it will increase the			
		reference count for the			
		returned pci_dev and also decrease the reference			
		count for the input			
		pci_dev @from if it is not NULL.			
		If we break for_each_pci_dev() loop with pdev not			
		NULL, we need to call			
		pci_dev_put() to decrease the reference count. Add			
		the missing			
		-			
		pci_dev_put() before 'return true' to avoid reference			
		count leak.			
CVE-2022-49002	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		iommu/vt-d: Fix PCI device refcount leak in			
		dmar_dev_scope_init()			
		for_each_pci_dev() is implemented by			
		pci_get_device(). The comment of			
		pci get device() says that it will increase the			
		reference count for the			
		returned pci_dev and also decrease the reference			
		count for the input			
		pci_dev @from if it is not NULL.			
		If we break for_each_pci_dev() loop with pdev not			
		NULL, we need to call			
		<pre>pci_dev_put() to decrease the reference count. Add</pre>			
		the missing			
	1				

		pci_dev_put() for the error path to avoid reference			
		count leak.			
<u>CVE-2022-49004</u>	linux - multiple products	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	products	riscv: Sync efi page table's kernel mappings before switching			
		The EFI page table is initially created as a copy of the kernel page table. With VMAP_STACK enabled, kernel stacks are allocated in the vmalloc area: if the stack is allocated in a new PGD (one that was not present at the moment of the efi page table creation or not synced in a previous vmalloc			
		fault), the kernel will take a trap when switching to the efi page table when the vmalloc kernel stack is accessed, resulting			
		in a kernel panic.			
		Fix that by updating the efi kernel mappings before switching to the efi page table.			
CVE-2022-49005	linux - multiple products	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
		ASoC: ops: Fix bounds check for _sx controls			
		For _sx controls the semantics of the max field is not the usual one, max is the number of steps rather than the maximum			
		value. This means that our check in snd_soc_put_volsw_sx() needs to just check against the maximum value.			
<u>CVE-2022-49007</u>	linux - multiple products	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	produce	nilfs2: fix NULL pointer dereference in nilfs_palloc_commit_free_entry()			
		Syzbot reported a null-ptr-deref bug:			
		NILFS (loop0): segctord starting. Construction interval = 5 seconds, CP			
		frequency < 30 seconds general protection fault, probably for non-canonical address 0xdffffc0000000002: 0000 [#1] PREEMPT SMP			
		KASAN			

	1	1
KASAN: null-ptr-deref in range		
[0x000000000000010-0x00000000000000017]		
CPU: 1 PID: 3603 Comm: segctord Not tainted		
6.1.0-rc2-syzkaller-00105-gb229b6ca5abb #0		
Hardware name: Google Compute Engine/Google		
Compute Engine, BIOS Google		
10/11/2022		
RIP:		
0010:nilfs_palloc_commit_free_entry+0xe5/0x6b0		
fs/nilfs2/alloc.c:608		
Code: 00 00 00 00 fc ff df 80 3c 02 00 0f 85 cd 05 00		
00 48 b8 00 00 00		
00 00 fc ff df 4c 8b 73 08 49 8d 7e 10 48 89 fa 48 c1		
ea 03 <80> 3c 02		
00 0f 85 26 05 00 00 49 8b 46 10 be a6 00 00 00 48		
с7 с7		
RSP: 0018:ffffc90003dff830 EFLAGS: 00010212		
RAX: dffffc000000000 RBX: ffff88802594e218 RCX:		
b0000000000000000000000000000000000000		
RDX: 000000000000002 RSI: 0000000000002000		
RDI: 000000000000010		
RBP: ffff888071880222 R08: 0000000000000005		
R09: 00000000000003f		
R10: 00000000000000 R11: 000000000000000		
R12: ffff888071880158		
R13: ffff88802594e220 R14: 0000000000000000		
R15: 000000000000004		
FS: 0000000000000000(0000)		
GS:ffff8880b9b00000(0000)		
knlGS:000000000000000		
CS: 0010 DS: 0000 ES: 0000 CR0: 000000080050033		
CR2: 00007fb1c08316a8 CR3: 0000000018560000		
CR4: 000000000350ee0		
Call Trace:		
<task></task>		
nilfs dat commit free fs/nilfs2/dat.c:114 [inline]		
nilfs dat commit end+0x464/0x5f0		
fs/nilfs2/dat.c:193		
nilfs dat commit update+0x26/0x40		
fs/nilfs2/dat.c:236		
nilfs_btree_commit_update_v+0x87/0x4a0		
fs/nilfs2/btree.c:1940		
nilfs_btree_commit_propagate_v		
fs/nilfs2/btree.c:2016 [inline]		
nilfs_btree_propagate_v fs/nilfs2/btree.c:2046		
[inline]		
nilfs_btree_propagate+0xa00/0xd60		
fs/nilfs2/btree.c:2088		
nilfs_bmap_propagate+0x73/0x170		
fs/nilfs2/bmap.c:337		
nilfs_collect_file_data+0x45/0xd0		

fc/nilfc2/cogmont or CQ	
fs/nilfs2/segment.c:568	
nilfs_segctor_apply_buffers+0x14a/0x470	
fs/nilfs2/segment.c:1018	
nilfs_segctor_scan_file+0x3f4/0x6f0	
fs/nilfs2/segment.c:1067	
nilfs_segctor_collect_blocks	
fs/nilfs2/segment.c:1197 [inline]	
nilfs_segctor_collect fs/nilfs2/segment.c:1503	
[inline]	
nilfs_segctor_do_construct+0x12fc/0x6af0	
fs/nilfs2/segment.c:2045	
nilfs_segctor_construct+0x8e3/0xb30	
fs/nilfs2/segment.c:2379	
nilfs_segctor_thread_construct	
fs/nilfs2/segment.c:2487 [inline]	
nilfs_segctor_thread+0x3c3/0xf30	
fs/nilfs2/segment.c:2570	
kthread+0x2e4/0x3a0 kernel/kthread.c:376	
ret_from_fork+0x1f/0x30	
arch/x86/entry/entry_64.S:306	
If DAT metadata file is corrupted on disk, there is a	
case where	
req->pr_desc_bh is NULL and blocknr is 0 at	
nilfs_dat_commit_end() during	
a b-tree operation that cascadingly updates ancestor	
nodes of the b-tree,	
because nilfs_dat_commit_alloc() for a lower level	
block can initialize	
the blocknr on the same DAT entry between	
nilfs dat prepare end() and	
nilfs_dat_commit_end().	
If this happens, nilfs_dat_commit_end() calls	
nilfs_dat_commit_free()	
without valid buffer heads in req->pr_desc_bh and	
req->pr_bitmap_bh, and	
causes the NULL pointer dereference above in	
nilfs_palloc_commit_free_entry() function, which	
leads to a crash.	
Fighting by adding a NULL sharely as your start, but	
Fix this by adding a NULL check on req->pr_desc_bh	
and req->pr_bitmap_bh	
before nilfs_palloc_commit_free_entry() in	
nilfs_dat_commit_free().	
This also calls nilfs_error() in that case to notify that	
there is a fatal	

		flaw in the filesystem metadata and prevent further			
		operations.			
CVE-2022-49008	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		can: can327: can327_feed_frame_to_netdev(): fix			
		potential skb leak when netdev is down			
		In can327_feed_frame_to_netdev(), it did not free			
		the skb when netdev			
		is down, and all callers of			
		can327_feed_frame_to_netdev() did not free			
		allocated skb too. That would trigger skb leak.			
		Fix it by adding kfree_skb() in			
		can327_feed_frame_to_netdev() when netdev			
		is down. Not tested, just compiled.			
CVE-2022-49009	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		hwmon: (asus-ec-sensors) Add checks for			
		devm_kcalloc			
		As the devm_kcalloc may return NULL, the return			
		value needs to be checked			
		to avoid NULL poineter dereference.			
<u>CVE-2022-49010</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		hwmon: (coretemp) Check for null before removing			
		sysfs attrs			
		If coretemp_add_core() gets an error then pdata-			
		>core_data[indx]			
		is already NULL and has been kfreed. Don't pass that			
		to			
		sysfs_remove_group() as that will crash in			
		sysfs_remove_group().			
		[Shortened for readability]			
		[91854.020159] sysfs: cannot create duplicate			
		filename			
		'/devices/platform/coretemp.0/hwmon/hwmon2/te			
		mp20_label'			
		<cpu offline=""></cpu>			
		[91855.126115] BUG: kernel NULL pointer			
		dereference, address: 000000000000188			
		[91855.165103] #PF: supervisor read access in kernel			
		mode			
		[91855.194506] #PF: error_code(0x0000) - not-			
		present page			

			1		,
		[91855.224445] PGD 0 P4D 0			
		[91855.238508] Oops: 0000 [#1] PREEMPT SMP PTI			
		[91855.342716] RIP:			
		0010:sysfs_remove_group+0xc/0x80			
		 [91855.796571] Call Trace:			
		[91855.810524] coretemp_cpu_offline+0x12b/0x1dd			
		[coretemp]			
		[91855.841738] ?			
		coretemp_cpu_online+0x180/0x180 [coretemp]			
		[91855.871107]			
		cpuhp_invoke_callback+0x105/0x4b0			
		[91855.893432] cpuhp_thread_fun+0x8e/0x150			
		Fix this by checking for NULL first.			
CVE-2022-49011	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
	-	hwmon: (coretemp) fix pci device refcount leak in			
		nv1a_ram_new()			
		As comment of pci_get_domain_bus_and_slot() says,			
		it returns			
		a pci device with refcount increment, when finish			
		using it,			
		the caller must decrement the reference count by			
		calling			
		<pre>pci_dev_put(). So call it after using to avoid refcount</pre>			
01/5 2022 40042	line.	leak.	2024 40 24		N An all and
<u>CVE-2022-49012</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products	afs: Fix server-Sactive look in afs, put, server			
		afs: Fix server->active leak in afs_put_server			
		The atomic read was accidentally replaced with			
		atomic_inc_return,			
		which prevents the server from getting cleaned up			
		and causes rmmod			
		to hang with a warning:			
		<u> </u>			
		Can't purge s=00000001			
CVE-2022-49013	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		<pre>sctp: fix memory leak in sctp_stream_outq_migrate()</pre>			
		When sctp_stream_outq_migrate() is called to			
		release stream out resources,			
		the memory pointed to by prio_head in stream out is			

		not released.			
		The memory leak information is as follows:			
		unreferenced object 0xffff88801fe79f80 (size 64):			
		comm "sctp_repo", pid 7957, jiffies 4294951704			
		(age 36.480s) hex dump (first 32 bytes):			
		80 9f e7 1f 80 88 ff ff 80 9f e7 1f 80 88 ff ff			
		90 9f e7 1f 80 88 ff ff 90 9f e7 1f 80 88 ff ff			
		backtrace:			
		[<fffffff81b215c6>] kmalloc_trace+0x26/0x60</fffffff81b215c6>			
		[<ffffff88ae517c>]</ffffff88ae517c>			
		sctp_sched_prio_set+0x4cc/0x770			
		[<fffffff88ad64f2>]</fffffff88ad64f2>			
		sctp_stream_init_ext+0xd2/0x1b0 [<fffffff88aa2604>]</fffffff88aa2604>			
		sctp_sendmsg_to_asoc+0x1614/0x1a30			
		[<ffffffff88ab7ff1>] sctp_sendmsg+0xda1/0x1ef0</ffffffff88ab7ff1>			
		[<ffffffff87f765ed>] inet_sendmsg+0x9d/0xe0</ffffffff87f765ed>			
		[<fffffff8754b5b3>] sock_sendmsg+0xd3/0x120</fffffff8754b5b3>			
		[<fffffff8755446a>]sys_sendto+0x23a/0x340</fffffff8755446a>			
		[<ffffff87554651>]</ffffff87554651>			
		x64_sys_sendto+0xe1/0x1b0			
		[<ffffffff89978b49>] do_syscall_64+0x39/0xb0</ffffffff89978b49>			
		[<fffffff89a0008b>] entry_SYSCALL_64_after_hwframe+0x63/0xcd</fffffff89a0008b>			
CVE-2022-49016	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
012 2022 10010	multiple	been resolved:	20212021	5.5	meann
	products				
		net: mdiobus: fix unbalanced node reference count			
		I got the following report while doing device(mscc-			
		miim) load test			
		with CONFIG_OF_UNITTEST and			
		CONFIG_OF_DYNAMIC enabled:			
		OF: ERROR: memory leak, expected refcount 1			
		instead of 2,			
		of_node_get()/of_node_put() unbalanced - destroy cset entry:			
		attach overlay node			
		/spi/soc@0/mdio@7107009c/ethernet-phy@0			
		If the 'fwnode' is not an acpi node, the refcount is get			
		in			
		<pre>fwnode_mdiobus_phy_device_register(), but it has</pre>			
		a su su ha su s			
		never been			
		never been put when the device is freed in the normal path. So call			

		fwnode_handle_put() in phy_device_release() to			
		avoid leak.			
		If it's an acpi node, it has never been get, but it's put			
		in the error path, so call fwnode_handle_get() before			
		phy_device_register() to keep get/put operation			
		balanced.			
CVE-2022-49018	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		mptcp: fix sleep in atomic at close time			
		Matt reported a splat at msk close time:			
		BUG: sleeping function called from invalid context			
		at net/mptcp/protocol.c:2877			
		in_atomic(): 1, irqs_disabled(): 0, non_block: 0, pid:			
		155, name: packetdrill			
		preempt_count: 201, expected: 0			
		RCU nest depth: 0, expected: 0			
		4 locks held by packetdrill/155:			
		#0: ffff888001536990 (&sb->s_type-			
		>i_mutex_key#6){+.+.}-{3:3}, at:sock_release			
		(net/socket.c:650)			
		#1: ffff88800b498130 (sk_lock-AF_INET){+.+.}-{0:0},			
		at: mptcp_close (net/mptcp/protocol.c:2973)			
		#2: ffff88800b49a130 (sk_lock-AF_INET/1){+.+.}-			
		{0:0}, at:mptcp_close_ssk			
		(net/mptcp/protocol.c:2363)			
		#3: ffff88800b49a0b0 (slock-AF_INET){+}-{2:2},			
		at:lock_sock_fast (include/net/sock.h:1820)			
		Preemption disabled at:			
		0x0			
		CPU: 1 PID: 155 Comm: packetdrill Not tainted			
		6.1.0-rc5 #365			
		Hardware name: QEMU Standard PC (i440FX + PIIX,			
		1996), BIOS 1.15.0-1 04/01/2014			
		Call Trace:			
		<task></task>			
		dump_stack_lvl (lib/dump_stack.c:107			
		(discriminator 4))			
		might_resched.cold (kernel/sched/core.c:9891)			
		mptcp_destroy_sock			
		(include/linux/kernel.h:110)			
		mptcp_close (net/mptcp/protocol.c:2959)			
		mptcp_subflow_queue_clean			
		(include/net/sock.h:1777)			
		mptcp_close_ssk (net/mptcp/protocol.c:2363)			
		mptcp_destroy_common			
		(net/mptcp/protocol.c:3170)			
		mptcp_destroy (include/net/sock.h:1495)			

		motion destroy cock			I
		mptcp_destroy_sock (net/mptcp/protocol.c:2886)			
		mptcp_close (net/mptcp/protocol.c:2959) mptcp_close (net/mptcp/protocol.c:2974)			
		inet_release (net/ipv4/af_inet.c:432)			
		sock_release (net/socket.c:651)			
		sock_close (net/socket.c:1367)			
		fput (fs/file_table.c:320)			
		task_work_run (kernel/task_work.c:181 (discriminator 1))			
		exit_to_user_mode_prepare			
		(include/linux/resume_user_mode.h:49)			
		syscall_exit_to_user_mode			
		(kernel/entry/common.c:130)			
		do_syscall_64 (arch/x86/entry/common.c:87)			
		entry_SYSCALL_64_after_hwframe			
		(arch/x86/entry/entry_64.S:120)			
		We can't call mptcp_close under the 'fast' socket lock			
		variant, replace			
		it with a sock_lock_nested() as the relevant code is			
		already under the			
		listening msk socket lock protection.			
CVE-2022-49019	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		net: ethernet: nixge: fix NULL dereference			
		In function nixge_hw_dma_bd_release() dereference			
		of NULL pointer			
		priv->rx_bd_v is possible for the case of its allocation			
		failure in			
		nixge_hw_dma_bd_init().			
		Move for() loop with priv->rx_bd_v dereference			
		under the check for			
		its validity.			
		Found by Linux Varification Contar (linuxtacting and			
		Found by Linux Verification Center (linuxtesting.org) with SVACE.			
CVE-2022-49020	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>CVL-2022-49020</u>	multiple	been resolved:	2024-10-21	ر.ر	weuluitt
	products				
	products	net/9p: Fix a potential socket leak in p9_socket_open			
		Both p9_fd_create_tcp() and p9_fd_create_unix() will			
		call			
		p9_socket_open(). If the creation of p9_trans_fd fails,			
		p9_fd_create_tcp() and p9_fd_create_unix() will			
		return an			
		error directly instead of releasing the cscoket, which			
	•	· · · · · · · · · · · · · · · · · · ·	•	·	•

		will			
		result in a socket leak.			
		This patch adds sock_release() to fix the leak issue.			
CVE-2022-49021	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>CVL 2022 45021</u>	multiple	been resolved:	2024 10 21	5.5	Wiediam
	products				
	products	net: phy: fix null-ptr-deref while probe() failed			
		I got a null-ptr-deref report as following when doing			
		fault injection test:			
		BUG: kernel NULL pointer dereference, address:			
		000000000000058			
		Oops: 0000 [#1] PREEMPT SMP KASAN PTI			
		CPU: 1 PID: 253 Comm: 507-spi-dm9051 Tainted: G			
		B N 6.1.0-rc3+			
		Hardware name: QEMU Standard PC (i440FX + PIIX,			
		1996), BIOS 1.13.0-1ubuntu1.1 04/01/2014			
		RIP: 0010:klist_put+0x2d/0xd0			
		Call Trace:			
		<task></task>			
		klist_remove+0xf1/0x1c0			
		device_release_driver_internal+0x23e/0x2d0			
		bus_remove_device+0x1bd/0x240			
		device_del+0x357/0x770			
		phy_device_remove+0x11/0x30			
		mdiobus_unregister+0xa5/0x140			
		release_nodes+0x6a/0xa0			
		devres_release_all+0xf8/0x150			
		device_unbind_cleanup+0x19/0xd0			
		//probe path:			
		phy_device_register()			
		device_add()			
		phy_connect			
		phy_attach_direct() //set device driver			
		probe() //it's failed, driver is not bound			
		device_bind_driver() // probe failed, it's not called			
		//remove path:			
		phy_device_remove()			
		device_del()			
		device_dei() device_release_driver_internal()			
		klist_remove() <- knode_driver is not added yet,			
		cause null-ptr-deref			
		In phy_attach_direct(), after setting the 'dev->driver',			
		probe() fails,			
			1		1

[-		
		device_bind_driver() is not called, so the			
		knode_driver->n_klist is not			
		set, then it causes null-ptr-deref in			
		device_release_driver() while			
		deleting device. Fix this by setting dev->driver to			
		NULL in the error			
		path in phy_attach_direct().			
CVE-2022-49024	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		can: m_can: pci: add missing m_can_class_free_dev()			
		in probe/remove methods			
		In m_can_pci_remove() and error handling path of			
		m_can_pci_probe(),			
		m_can_class_free_dev() should be called to free			
		resource allocated by			
		m_can_class_allocate_dev(), otherwise there will be			
		memleak.			
<u>CVE-2022-49027</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		iavf: Fix error handling in iavf_init_module()			
		The iavf_init_module() won't destroy workqueue			
		when pci_register_driver()			
		failed. Call destroy_workqueue() when			
		pci_register_driver() failed to			
		prevent the resource leak.			
		Cimilar to the headling of (122, head init is commit			
		Similar to the handling of u132_hcd_init in commit f276e002793c			
CVE-2022-49028	linux -	("usb: u132-hcd: fix resource leak") In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>CVE-2022-49028</u>	multiple	been resolved:	2024-10-21	5.5	Weulum
	products	been resolved.			
	products	ixgbevf: Fix resource leak in ixgbevf_init_module()			
		ixgbevf_init_module() won't destroy the workqueue			
		created by			
		create_singlethread_workqueue() when			
		pci_register_driver() failed. Add			
		destroy_workqueue() in fail path to prevent the			
		resource leak.			
		Similar to the handling of u132_hcd_init in commit			
		f276e002793c			
		("usb: u132-hcd: fix resource leak")			
CVE-2022-49033	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
	products				

		hander a survey for all set for a little set of the		1	
		btrfs: qgroup: fix sleep from invalid context bug in			
		btrfs_qgroup_inherit()			
		Syzkaller reported BUG as follows:			
		BUG: sleeping function called from invalid context at			
		include/linux/sched/mm.h:274			
		Call Trace:			
		<task></task>			
		dump_stack_lvl+0xcd/0x134			
		might_resched.cold+0x222/0x26b			
		kmem_cache_alloc+0x2e7/0x3c0			
		update_qgroup_limit_item+0xe1/0x390			
		btrfs_qgroup_inherit+0x147b/0x1ee0			
		create_subvol+0x4eb/0x1710			
		btrfs_mksubvol+0xfe5/0x13f0			
		btrfs_ioctl_snap_create+0x2b0/0x430			
		btrfs_ioctl_snap_create_v2+0x25a/0x520			
		btrfs_ioctl+0x2a1c/0x5ce0			
		x64_sys_ioctl+0x193/0x200			
		do_syscall_64+0x35/0x80			
		Fix this by calling qgroup_dirty() on @dstqgroup, and			
		update limit item in			
		<pre>btrfs_run_qgroups() later outside of the spinlock</pre>			
		context.			
CVE-2024-50019	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		kthread: unpark only parked kthread			
		Calling into kthread unparking unconditionally is			
		mostly harmless when			
		the kthread is already unparked. The wake up is then			
		simply ignored			
		because the target is not in TASK_PARKED state.			
		However if the kthread is per CPU, the wake up is			
		preceded by a call			
		to kthread_bind() which expects the task to be			
		inactive and in			
		TASK_PARKED state, which obviously isn't the case if			
		it is unparked.			
		As a result, calling kthread_stop() on an unparked			
		per-cpu kthread			
		triggers such a warning:			
		v			
		WARNING: CPU: 0 PID: 11 at kernel/kthread.c:525			
		kthread_bind_mask kernel/kthread.c:525			
		<pre></pre>			

CVE-2024-50020	linux - multiple products	kthread_stop+0x17a/0x630 kernel/kthread.c:707 destroy_workqueue+0x136/0xc40 kernel/workqueue.c:5810 wg_destruct+0x1e2/0x2e0 drivers/net/wireguard/device.c:257 netdev_run_todo+0xe1a/0x1000 net/core/dev.c:10693 default_device_exit_batch+0xa14/0xa90 net/core/dev.c:11769 ops_exit_list net/core/net_namespace.c:178 [inline] cleanup_net+0x89d/0xcc0 net/core/net_namespace.c:640 process_one_work kernel/workqueue.c:3231 [inline] process_scheduled_works+0xa2c/0x1830 kernel/workqueue.c:3312 worker_thread+0x86d/0xd70 kernel/workqueue.c:393 kthread+0x2f0/0x390 kernel/kthread.c:389 ret_from_fork+0x4b/0x80 arch/x86/kernel/process.c:147 ret_from_fork_asm+0x1a/0x30 arch/x86/entry/entry_64.S:244 Fix this with skipping unecessary unparking while stopping a kthread. In the Linux kernel, the following vulnerability has been resolved: ice: Fix improper handling of refcount in ice_sriov_set_msix_vec_count() This patch addresses an issue with improper reference count handling in the ice_sriov_set_msix_vec_count() function.	2024-10-21	5.5	Medium
		arch/x86/entry/entry_64.S:244			
		1A5K			
C\/F-2024-50020	linuv -		2024-10-21	55	Medium
	multiple		2027 10-21	5.5	Wieddini
	products	ice: Fix improper handling of refcount in			
		C C			
		First, the function calls ice_get_vf_by_id(), which increments the			
		increments the reference count of the vf pointer. If the subsequent			
		increments the reference count of the vf pointer. If the subsequent call to ice_get_vf_vsi() fails, the function currently returns			
		increments the reference count of the vf pointer. If the subsequent call to ice_get_vf_vsi() fails, the function currently returns an error without			
		increments the reference count of the vf pointer. If the subsequent call to ice_get_vf_vsi() fails, the function currently returns an error without decrementing the reference count of the vf pointer, leading to a reference			
		increments the reference count of the vf pointer. If the subsequent call to ice_get_vf_vsi() fails, the function currently returns an error without decrementing the reference count of the vf pointer, leading to a reference count leak. The correct behavior, as implemented in			
		increments the reference count of the vf pointer. If the subsequent call to ice_get_vf_vsi() fails, the function currently returns an error without decrementing the reference count of the vf pointer, leading to a reference count leak. The correct behavior, as implemented in this patch, is to			
		increments the reference count of the vf pointer. If the subsequent call to ice_get_vf_vsi() fails, the function currently returns an error without decrementing the reference count of the vf pointer, leading to a reference count leak. The correct behavior, as implemented in			
		increments the reference count of the vf pointer. If the subsequent call to ice_get_vf_vsi() fails, the function currently returns an error without decrementing the reference count of the vf pointer, leading to a reference count leak. The correct behavior, as implemented in this patch, is to decrement the reference count using ice_put_vf(vf)			

	1	1		1	1
		sets			
		vf->first_vector_idx. If this call returns a negative			
		value, indicating an error, the function returns an error without			
		decrementing the reference			
		count of the vf pointer, resulting in another reference			
		count leak. The			
		patch addresses this by adding a call to ice_put_vf(vf)			
		before returning			
		an error when vf->first_vector_idx < 0.			
		This bug was identified by an experimental static			
		analysis tool developed			
		by our team. The tool specializes in analyzing			
		reference count operations			
		and identifying potential mismanagement of			
		reference counts. In this case,			
		the tool flagged the missing decrement operation as			
		a potential issue,			
		leading to this patch.			
<u>CVE-2024-50021</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products	ice: Fix improper handling of refcount in			
		ice_dpll_init_rclk_pins()			
		This patch addresses a reference count handling issue			
		in the			
		ice_dpll_init_rclk_pins() function. The function calls			
		ice_dpll_get_pins(),			
		which increments the reference count of the relevant			
		resources. However,			
		if the condition WARN_ON((!vsi !vsi->netdev)) is			
		met, the function			
		currently returns an error without properly releasing			
		the resources			
		acquired by ice_dpll_get_pins(), leading to a reference count leak.			
		To resolve this, the check has been moved to the top			
		of the function. This			
		ensures that the function verifies the state before any			
		resources are			
		acquired, avoiding the need for additional resource			
		management in the			
		error path.			
		This bug was identified by an experimental static			
		analysis tool developed			
		by our team. The tool specializes in analyzing			
		reference count operations			

	1				1
		and detecting potential issues where resources are			
		not properly managed.			
		In this case, the tool flagged the missing release			
		operation as a			
		potential problem, which led to the development of			
01/5 2024 50022	1.	this patch.	2024 40 24		
<u>CVE-2024-50022</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products	device device prost prooff align in dev. set manning()			
		<pre>device-dax: correct pgoff align in dax_set_mapping()</pre>			
		pgoff should be aligned using ALIGN_DOWN() instead			
		of ALIGN(). Otherwise,			
		vmf->address not aligned to fault_size will be aligned			
		to the next			
		alignment, that can result in memory failure getting			
		the wrong address.			
		It's a subtle situation that only can be observed in			
		page_mapped_in_vma() after the page is page fault			
		handled by			
		dev_dax_huge_fault. Generally, there is little chance			
		to perform			
		page_mapped_in_vma in dev-dax's page unless in			
		specific error injection			
		to the dax device to trigger an MCE - memory-failure.			
		In that case,			
		page_mapped_in_vma() will be triggered to			
		determine which task is			
		accessing the failure address and kill that task in the			
		end.			
		We used self-developed dax device (which is 2M			
		aligned mapping), to			
		perform error injection to random address. It turned			
		out that error			
		injected to non-2M-aligned address was causing			
		endless MCE until panic.			
		Because page_mapped_in_vma() kept resulting			
		wrong address and the task accessing the failure address was never killed			
		properly:			
		[3783.719419] Memory failure: 0x200c9742:			
		recovery action for dax page:			
		Recovered			
		[3784.049006] mce: Uncorrected hardware memory			
		error in user-access at			
		200c9742380			
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	[3784.049190] Memory failure: 0x200c9742:	
	recovery action for dax page:	
	Recovered	
	[3784.448042] mce: Uncorrected hardware memory	
	error in user-access at	
	200c9742380	
	[3784.448186] Memory failure: 0x200c9742:	
	recovery action for dax page:	
	Recovered	
	[3784.792026] mce: Uncorrected hardware memory	
	error in user-access at	
	200c9742380	
	[3784.792179] Memory failure: 0x200c9742:	
	recovery action for dax page:	
	Recovered	
	[3785.162502] mce: Uncorrected hardware memory	
	error in user-access at	
	200c9742380	
	[3785.162633] Memory failure: 0x200c9742:	
	recovery action for dax page:	
	Recovered	
	[3785.461116] mce: Uncorrected hardware memory	
	error in user-access at	
	200c9742380	
	[3785.461247] Memory failure: 0x200c9742:	
	recovery action for dax page:	
	Recovered	
	[3785.764730] mce: Uncorrected hardware memory	
	error in user-access at	
	200c9742380	
	[3785.764859] Memory failure: 0x200c9742:	
	recovery action for dax page:	
	Recovered	
	[3786.042128] mce: Uncorrected hardware memory	
	error in user-access at	
	200c9742380	
	[3786.042259] Memory failure: 0x200c9742:	
	recovery action for dax page:	
	Recovered	
	[3786.464293] mce: Uncorrected hardware memory	
	error in user-access at	
	200c9742380	
	[3786.464423] Memory failure: 0x200c9742:	
	recovery action for dax page:	
	Recovered	
	[3786.818090] mce: Uncorrected hardware memory	
	error in user-access at	
	200c9742380	
	[3786.818217] Memory failure: 0x200c9742:	
	recovery action for dax page:	
	Recovered	
	NELUVEIEU	

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		[3787.085297] mce: Uncorrected hardware memory			
		error in user-access at			
		200c9742380			
		[3787.085424] Memory failure: 0x200c9742:			
		recovery action for dax page:			
		Recovered			
		It took us several weeks to pinpoint this problem, but			
		we eventually			
		used bpftrace to trace the page fault and mce			
		address and successfully			
		identified the issue.			
		Joao added:			
		; Likely we never reproduce in production because we			
		always pin			
		: device-dax regions in the region align they provide			
		(Qemu does			
		•			
		: similarly with prealloc in hugetlb/file backed			
		memory). I think this			
		: bug requires that we touch *unpinned* device-dax			
		regions unaligned to			
		: the device-dax selected alignment (page size i.e.			
		4K/2M/1G)			
CVE-2024-50023	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		net: phy: Remove LED entry from LEDs list on			
		unregister			
		unregister			
		unregister Commit c938ab4da0eb ("net: phy: Manual remove			
		unregister Commit c938ab4da0eb ("net: phy: Manual remove LEDs to ensure correct			
		unregister Commit c938ab4da0eb ("net: phy: Manual remove			
		unregister Commit c938ab4da0eb ("net: phy: Manual remove LEDs to ensure correct			
		unregister Commit c938ab4da0eb ("net: phy: Manual remove LEDs to ensure correct ordering") correctly fixed a problem with using			
		unregister Commit c938ab4da0eb ("net: phy: Manual remove LEDs to ensure correct ordering") correctly fixed a problem with using devm_ but missed removing the LED entry from the LEDs list.			
		unregister Commit c938ab4da0eb ("net: phy: Manual remove LEDs to ensure correct ordering") correctly fixed a problem with using devm_ but missed removing the LED entry from the LEDs list. This cause kernel panic on specific scenario where			
		unregister Commit c938ab4da0eb ("net: phy: Manual remove LEDs to ensure correct ordering") correctly fixed a problem with using devm_ but missed removing the LED entry from the LEDs list.			
		unregister Commit c938ab4da0eb ("net: phy: Manual remove LEDs to ensure correct ordering") correctly fixed a problem with using devm_ but missed removing the LED entry from the LEDs list. This cause kernel panic on specific scenario where			
		unregister Commit c938ab4da0eb ("net: phy: Manual remove LEDs to ensure correct ordering") correctly fixed a problem with using devm_ but missed removing the LED entry from the LEDs list. This cause kernel panic on specific scenario where the port for the PHY			
		unregister Commit c938ab4da0eb ("net: phy: Manual remove LEDs to ensure correct ordering") correctly fixed a problem with using devm_ but missed removing the LED entry from the LEDs list. This cause kernel panic on specific scenario where the port for the PHY is torn down and up and the kmod for the PHY is			
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		after these step, the			
		LED list now have 4 elements. With the first 2 already			
		unregistered			
		previously and the 2 new one registered again.			
		This cause a kernel panic as the first 2 element should			
		have been			
		removed.			
		Fix this by correctly removing the element when LED			
		is unregistered.			
CVE-2024-50024	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		net: Fix an unsafe loop on the list			
		The kernel may crash when deleting a genetlink			
		family if there are still			
		listeners for that family:			
		Oops: Kernel access of bad area, sig: 11 [#1]			
		 NIP [c00000000c080bc]			
		netlink_update_socket_mc+0x3c/0xc0			
		LR [c0000000c0f764]			
		netlink_clear_multicast_users+0x74/0xc0			
		Call Trace:			
		netlink_clear_multicast_users+0x74/0xc0			
		genl_unregister_family+0xd4/0x2d0			
		Change the unsafe loop on the list to a safe one,			
		because inside the			
		loop there is an element removal from this list.	202440.24		
<u>CVE-2024-50025</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products	scsi: fnic: Move flush_work initialization out of if			
		block			
		After commit 379a58caa199 ("scsi: fnic: Move			
		fnic_fnic_flush_tx() to a			
		work queue"), it can happen that a work item is sent			
		to an uninitialized			
		work queue. This may has the effect that the item			
		being queued is never			
		actually queued, and any further actions depending			
		on it will not			
		proceed.			
		The following warning is cheep and while the finite			
		The following warning is observed while the fnic			
		driver is loaded:			

		<pre>kernel: WARNING: CPU: 11 PID: 0 at /kernel/workqueue.c:1524 queue_work+0x373/0x410 kernel: <irq> kernel: queue_work_on+0x3a/0x50 kernel: fnic_wq_copy_cmpl_handler+0x54a/0x730 [fnic 62fbff0c42e7fb825c60a55cde2fb91facb2ed24] kernel: fnic_isr_msix_wq_copy+0x2d/0x60 [fnic 62fbff0c42e7fb825c60a55cde2fb91facb2ed24] kernel:handle_irq_event_percpu+0x36/0x1a0 kernel: handle_irq_event_percpu+0x30/0x70 kernel: handle_irq_event+0x34/0x60 kernel: handle_edge_irq+0x7e/0x1a0 kernel:common_interrupt+0x3b/0xb0 kernel: common_interrupt+0x58/0xa0 kernel: </irq></pre>			
		It has been observed that this may break the			
		rediscovery of Fibre			
		Channel devices after a temporary fabric failure.			
		This patch fives it by moving the work succes			
		This patch fixes it by moving the work queue initialization out of			
		an if block in fnic_probe().			
CVE-2024-50026	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products	scsi: wd33c93: Don't use stale scsi_pointer value			
		A regression was introduced with commit			
		dbb2da557a6a ("scsi: wd33c93:			
		Move the SCSI pointer to private command data")			
		which results in an oops in wd33c93_intr(). That commit added the			
		scsi_pointer variable and			
		initialized it from hostdata->connected. However,			
		during selection,			
		hostdata->connected is not yet valid. Fix this by			
		getting the current scsi_pointer from hostdata->selecting.			
CVE-2024-50027	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		thermal: core: Free tzp copy along with the thermal			
		zone			
		The object pointed to by tz->tzp may still be accessed after being			
		freed in thermal_zone_device_unregister(), so move			
		the freeing of it			

		to the point after the removal completion has been completed at which			
<u>CVE-2024-50028</u>	linux - multiple	it cannot be accessed any more. In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	products				
		thermal: core: Reference count the zone in thermal_zone_get_by_id()			
		There are places in the thermal netlink code where nothing prevents			
		the thermal zone object from going away while being accessed after it			
		has been returned by thermal_zone_get_by_id().			
		To address this, make thermal_zone_get_by_id() get a reference on the			
		thermal zone device object to be returned with the			
		help of get_device(),			
		under thermal_list_lock, and adjust all of its callers to this change			
		with the help of the cleanup.h infrastructure.			
<u>CVE-2024-50031</u>	linux - multiple	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	products	drm/v3d: Stop the active perfmon before being destroyed			
		When running `kmscube` with one or more			
		performance monitors enabled			
		via `GALLIUM_HUD`, the following kernel panic can occur:			
		[55.008324] Unable to handle kernel paging request at virtual address 0000000052004a4			
		[55.008368] Mem abort info:			
		[55.008377] ESR = 0x0000000096000005 [55.008387] EC = 0x25: DABT (current EL), IL = 32			
		bits [55.008402] SET = 0, FnV = 0			
		[55.008412] EA = 0, S1PTW = 0			
		[55.008421] FSC = 0x05: level 1 translation fault			
		[55.008434] Data abort info: [55.008442] ISV = 0, ISS = 0x00000005, ISS2 =			
		0x0000000			
		[55.008455] CM = 0, WnR = 0, TnD = 0, TagAccess = 0			
		[55.008467] GCS = 0, Overlay = 0, DirtyBit = 0, Xs = 0			
		[55.008481] user pgtable: 4k pages, 39-bit VAs, pgdp=00000001046c6000			

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	[55.008497] [0000000052004a4]
	pgd=00000000000000, p4d=0000000000000000,
	pud=0000000000000
	[55.008525] Internal error: Oops:
	000000096000005 [#1] PREEMPT SMP
	[55.008542] Modules linked in: rfcomm [] vc4 v3d
	snd_soc_hdmi_codec drm_display_helper
	gpu_sched drm_shmem_helper cec drm_dma_helper
	drm_kms_helper i2c_brcmstb
	drm drm_panel_orientation_quirks snd_soc_core
	snd_compress snd_pcm_dmaengine snd_pcm
	snd_timer snd backlight
	[55.008799] CPU: 2 PID: 166 Comm: v3d_bin
	Tainted: G C 6.6.47+rpt-rpi-v8 #1 Debian
	1:6.6.47-1+rpt1
	[55.008824] Hardware name: Raspberry Pi 4 Model
	B Rev 1.5 (DT)
	[55.008838] pstate: 20000005 (nzCv daif -PAN -UAO
	-TCO -DIT -SSBS BTYPE=)
	[55.008855] pc :
	mutex_lock.constprop.0+0x90/0x608
	[55.008879] lr :
	mutex_lock.constprop.0+0x58/0x608
	[55.008895] sp : ffffffc080673cf0
	[55.008904] x29: ffffffc080673cf0 x28:
	00000000000000 x27: ffffff8106188a28
	[55.008926] x26: ffffff8101e78040 x25:
	ffffff8101baa6c0 x24: ffffffd9d989f148
	[55.008947] x23: ffffffda1c2a4008 x22:
	00000000000002 x21: ffffffc080673d38
	[55.008968] x20: ffffff8101238000 x19:
	ffffff8104f83188 x18: 0000000000000000
	[55.008988] x17: 00000000000000 x16:
	ffffffda1bd04d18 x15: 00000055bb08bc90
	[55.009715] x14: 00000000000000 x13:
	0000000000000 x12: fffffda1bd4cbb0
	[55.010433] x11: 00000000fa83b2da x10:
	00000000001a40 x9 : fffffda1bd04d04
	[55.011162] x8 : ffffff8102097b80 x7 :
	0000000000000 x6 : 0000000030a5857
	[55.011880] x5 : 00fffffffffff x4 :
	030000005200470 x3 : 030000005200470
	[55.012598] x2 : ffffff8101238000 x1 :
	00000000000021 x0 : 030000005200470
	[55.013292] Call trace:
	[55.013292] Call trace.
	nutex_lock.constprop.0+0x90/0x608
	[55.014646]mutex_lock_slowpath+0x1c/0x30
	[55.015317] mutex_lock+0x50/0x68
	[55.015961] v3d_perfmon_stop+0x40/0xe0 [v3d]
	[55.016627] v3d_bin_job_run+0x10c/0x2d8 [v3d]

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		[55.017282] drm_sched_main+0x178/0x3f8			
		[gpu_sched]			
		[55.017921] kthread+0x11c/0x128			
		[55.018554] ret_from_fork+0x10/0x20			
		[55.019168] Code: f9400260 f1001c1f 54001ea9			
		927df000 (b9403401)			
		[55.019776][end trace 0000000000000000]			
		[55.020411] note: v3d_bin[166] exited with			
		preempt_count 1			
		This issue arises because, upon closing the file			
		descriptor (which happens			
		when we interrupt `kmscube`), the active			
		performance monitor is not			
		stopped. Although all perfmons are destroyed in			
		`v3d_perfmon_close_file()`,			
		the active performance monitor's pointer (`v3d-			
		>active_perfmon`) is still			
		retained.			
		If `kmscube` is run again, the driver will attempt to			
		stop the active			
		performance monitor using the stale pointer in `v3d-			
		>active_perfmon`.			
		However, this pointer is no longer valid because the			
		previous process has			
		already terminated, and all performance monitors			
		associated with it have			
		been destroyed and freed.			
		To fix this, when the active performance monitor			
		belongs to a given			
		process, explicitly stop it before destroying and			
		freeing it.			
CVE-2024-50032	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		rcu/nocb: Fix rcuog wake-up from offline softirq			
		After a CPU has set itself offline and before it			
		eventually calls			
		rcutree_report_cpu_dead(), there are still			
		opportunities for callbacks			
		to be enqueued, for example from a softirq. When			
		that happens on NOCB,			
		the rcuog wake-up is deferred through an IPI to an			
		online CPU in order			
		not to call into the scheduler and risk arming the RT-			
		bandwidth after			
		hrtimers have been migrated out and disabled.			

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		But performing a synchronized IPI from a softirq is			
		buggy as reported in			
		the following scenario:			
		WARNING: CPU: 1 PID: 26 at kernel/smp.c:633			
		smp_call_function_single			
		Modules linked in: rcutorture torture			
		CPU: 1 UID: 0 PID: 26 Comm: migration/1 Not			
		tainted 6.11.0-rc1-00012-g9139f93209d1 #1			
		Stopper: multi_cpu_stop+0x0/0x320 <-			
		stop_cpus+0xd0/0x120			
		RIP: 0010:smp_call_function_single			
		<irq></irq>			
		swake_up_one_online			
		call_rcu_nocb_wake			
		call_rcu_common			
		? rcu_torture_one_read			
		call_timer_fn			
		run_timers			
		run_timer_softirq			
		handle_softirqs			
		irq_exit_rcu			
		? tick_handle_periodic			
		sysvec_apic_timer_interrupt			
		Fix this with forcing deferred rcuog wake up through			
		the NOCB timer when			
		the CPU is offline. The actual wake up will happen			
		from			
		rcutree_report_cpu_dead().			
CVE-2024-50034	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
<u>CVE 202 5005 </u>	multiple	been resolved:	20211021	5.5	meanann
	products	been resolved.			
	products	net/smc: fix lacks of icsk_syn_mss with			
		IPPROTO_SMC			
		Eric report a panic on IPPROTO_SMC, and give the			
		facts			
		that when INET_PROTOSW_ICSK was set, icsk-			
		<pre>>icsk_sync_mss must be set too.</pre>			
		Bug: Unable to handle kernel NULL pointer			
		dereference at virtual address			
		00000000000000			
		Mem abort info:			
		ESR = 0x000000086000005			
		EC = 0x21: IABT (current EL), IL = 32 bits			
		SET = 0, FnV = 0			
		EA = 0, S1PTW = 0			
		FSC = 0x05: level 1 translation fault			
			1		

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	user pgtable: 4k pages, 48-bit VAs,		
	pgdp=0000001195d1000		
	[00000000000000] pgd=0800000109c46003,		
	p4d=0800000109c46003,		
	pud=00000000000000		
	Internal error: Oops: 000000086000005 [#1]		
	PREEMPT SMP		
	Modules linked in:		
	CPU: 1 UID: 0 PID: 8037 Comm: syz.3.265 Not tainted		
	6.11.0-rc7-syzkaller-g5f5673607153 #0		
	Hardware name: Google Google Compute		
	Engine/Google Compute Engine,		
	BIOS Google 08/06/2024		
	pstate: 80400005 (Nzcv daif +PAN -UAO -TCO -DIT -		
	SSBS BTYPE=)		
	pc : 0x0		
	lr : cipso_v4_sock_setattr+0x2a8/0x3c0		
	net/ipv4/cipso_ipv4.c:1910		
	sp : ffff80009b887a90		
	x29: ffff80009b887aa0 x28: ffff80008db94050 x27:		
	00000000000000		
	x26: 1fffe0001aa6f5b3 x25: dfff80000000000 x24:		
	ffff0000db75da00		
	x23: 000000000000000 x22: ffff0000d8b78518 x21:		
	000000000000000		
	x20: ffff0000d537ad80 x19: ffff0000d8b78000 x18:		
	1fffe000366d79ee		
	x17: ffff8000800614a8 x16: ffff800080569b84 x15:		
	000000000000001		
	x14: 00000008b336894 x13: 0000000cd96feaa		
	x12: 000000000000003		
	x11: 0000000000040000 x10: 0000000000020a3 x9		
	: 1fffe0001b16f0f1		
	x8 : 000000000000000 x7 : 00000000000000 x6 :		
	00000000000003f		
	x5 : 0000000000000040 x4 : 000000000000001 x3 :		
	000000000000000000000000000000000000000		
	x2 : 0000000000000002 x1 : 000000000000000 x0 :		
	ffff0000d8b78000		
	Call trace:		
	Ox0		
	netlbl_sock_setattr+0x2e4/0x338		
	net/netlabel/netlabel_kapi.c:1000		
	smack_netlbl_add+0xa4/0x154		
	security/smack/smack_lsm.c:2593		
	smack_socket_post_create+0xa8/0x14c		
	security/smack/smack_lsm.c:2973		
	security_socket_post_create+0x94/0xd4		
	security/security.c:4425		
	sock_create+0x4c8/0x884 net/socket.c:1587		
	<pre>sock_create net/socket.c:1622 [inline]</pre>		

[I		,
		<pre>sys_socket_create net/socket.c:1659 [inline]</pre>			
		sys_socket+0x134/0x340 net/socket.c:1706			
		do_sys_socket net/socket.c:1720 [inline]			
		se_sys_socket net/socket.c:1718 [inline]			
		arm64_sys_socket+0x7c/0x94 net/socket.c:1718			
		invoke_syscall arch/arm64/kernel/syscall.c:35			
		[inline]			
		invoke_syscall+0x98/0x2b8			
		arch/arm64/kernel/syscall.c:49			
		el0_svc_common+0x130/0x23c			
		arch/arm64/kernel/syscall.c:132			
		do_el0_svc+0x48/0x58			
		arch/arm64/kernel/syscall.c:151			
		el0_svc+0x54/0x168 arch/arm64/kernel/entry-			
		common.c:712			
		el0t 64 sync handler+0x84/0xfc			
		arch/arm64/kernel/entry-common.c:730			
		· · · · ·			
		el0t_64_sync+0x190/0x194			
		arch/arm64/kernel/entry.S:598 Code: ????????????????????????????????????			
		(????????)			
		[end trace 000000000000000]			
		This patch add a toy implementation that performs a			
		simple return to			
		prevent such panic. This is because MSS can be set in			
		sock_create_kern			
		or smc_setsockopt, similar to how it's done in			
		AF_SMC. However, for			
		AF_SMC, there is currently no way to synchronize MSS within			
		sys_connect_file. This toy implementation lays the			
		groundwork for us			
		to support such feature for IPPROTO_SMC in the future.			
CVE-2024-50037	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		drm/fbdev-dma: Only cleanup deferred I/O if			
		necessary			
		Commit 5a498d4d06d6 ("drm/fbdev-dma: Only			
		install deferred I/O if			
		necessary") initializes deferred I/O only if it is used.			
		drm_fbdev_dma_fb_destroy() however calls			
		fb_deferred_io_cleanup()			
		unconditionally with struct fb_info.fbdefio == NULL.			
		KASAN with the			
		out-of-tree Apple silicon display driver posts			
		following warning from			
		flush_work() of a random struct work_struct			

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	instead of the expected		
	NULL pointer derefs.		
	[22.053799][cut here]		
	[22.054832] WARNING: CPU: 2 PID: 1 at		
	kernel/workqueue.c:4177		
	flush_work+0x4d8/0x580		
	[22.056597] Modules linked in: uhid bnep uinput		
	nls_ascii ip6_tables ip_tables i2c_dev loop fuse		
	dm_multipath nfnetlink zram hid_magicmouse btrfs		
	xor xor_neon brcmfmac_wcc raid6_pq hci_bcm4377		
	bluetooth brcmfmac hid_apple brcmutil		
	nvmem_spmi_mfd simple_mfd_spmi		
	dockchannel_hid cfg80211 joydev regmap_spmi		
	nvme_apple ecdh_generic ecc macsmc_hid rfkill		
	dwc3 appledrm snd_soc_macaudio macsmc_power		
	nvme_core apple_isp phy_apple_atc apple_sart		
	apple_rtkit_helper apple_dockchannel tps6598x		
	macsmc_hwmon snd_soc_cs42l84 videobuf2_v4l2		
	spmi_apple_controller nvmem_apple_efuses		
	videobuf2_dma_sg apple_z2 videobuf2_memops		
	spi_nor panel_summit videobuf2_common asahi		
	videodev pwm_apple apple_dcp snd_soc_apple_mca		
	apple_admac spi_apple clk_apple_nco		
	i2c_pasemi_platform snd_pcm_dmaengine mc		
	i2c_pasemi_core mux_core ofpart adpdrm		
	drm_dma_helper apple_dart apple_soc_cpufreq		
	leds_pwm phram		
	[22.073768] CPU: 2 UID: 0 PID: 1 Comm: systemd-		
	shutdow Not tainted 6.11.2-asahi+ #asahi-dev		
	[22.075612] Hardware name: Apple MacBook Pro		
	(13-inch, M2, 2022) (DT)		
	[22.077032] pstate: 01400005 (nzcv daif +PAN -UAO		
	-TCO +DIT -SSBS BTYPE=)		
	[22.078567] pc :flush_work+0x4d8/0x580		
	[22.079471] lr :flush_work+0x54/0x580		
	[22.080345] sp : ffffc000836ef820		
	[22.081089] x29: ffffc000836ef880 x28:		
	00000000000000 x27: ffff80002ddb7128		
	[22.082678] x26: dfffc0000000000 x25:		
	1ffff000096f0c57 x24: ffffc00082d3e358		
	[22.084263] x23: ffff80004b7862b8 x22:		
	dfffc0000000000 x21: ffff80005aa1d470		
	[22.085855] x20: ffff80004b786000 x19:		
	ffff80004b7862a0 x18: 0000000000000000		
	[22.087439] x17: 000000000000000 x16:		
	0000000000000 x15: 000000000000000000000000000000000000		
	[22.089030] x14: 1ffff800106ddf0a x13:		
	000000000000000 x12: 000000000000000000000000000000000000		
	[22.090618] x11: ffffb800106ddf0f x10:		
	dfffc0000000000 x9 : 1ffff800106ddf0e		

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			[22.092206] x8 : 00000000000000 x7 :			
			aaaaaaaaaaaaaaaaaaa x6 : 00000000000000000			
			[22.093790] x5 : ffffc000836ef728 x4 :			
			000000000000000 x3 : 0000000000000000000			
			[22.095368] x2 : 00000000000000 x1 :			
			0000000000000aa x0 : 0000000000000000			
			[22.096955] Call trace:			
			[22.097505]flush_work+0x4d8/0x580			
			[22.098330] flush_delayed_work+0x80/0xb8			
			[22.099231] fb_deferred_io_cleanup+0x3c/0x130			
			[22.100217]			
			drm_fbdev_dma_fb_destroy+0x6c/0xe0			
			[drm_dma_helper]			
			[22.101559] unregister_framebuffer+0x210/0x2f0			
			[22.102575]			
			drm_fb_helper_unregister_info+0x48/0x60			
			[22.103683]			
			drm_fbdev_dma_client_unregister+0x4c/0x80			
			[drm_dma_helper]			
			[22.105147]			
			drm_client_dev_unregister+0x1cc/0x230			
			[22.106217] drm_dev_unregister+0x58/0x570			
			[22.107125] apple_drm_unbind+0x50/0x98			
			[appledrm]			
			[22.108199] component_del+0x1f8/0x3a8			
			[22.109042] dcp_platform_shutdown+0x24/0x38			
			[apple_dcp]			
			[22.110357] platform_shutdown+0x70/0x90			
			[22.111219] device_shutdown+0x368/0x4d8			
			[22.112095] kernel_restart+0x6c/0x1d0			
			[22.112946]arm64_sys_reboot+0x1c8/0x328			
			[22.113868] invoke_syscall+0x78/0x1a8			
			[22.114703] do el0 svc+0x124/0x1a0			
			[22.115498] el0 svc+0x3c/0xe0			
			[22.116181] el0t_64_sync_handler+0x70/0xc0			
			[22.117110] el0t_64_sync+0x190/0x198			
			[22.117931][end trace 0000000000000000]			
<u>CVE-202</u>	4-50038	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
		multiple	been resolved:			
		products				
			netfilter: xtables: avoid NFPROTO_UNSPEC where			
			needed			
			syzbot managed to call xt_cluster match via ebtables:			
			WARNING: CPU: 0 PID: 11 at			
			net/netfilter/xt_cluster.c:72			
			xt_cluster_mt+0x196/0x780			
			[]			
			ebt_do_table+0x174b/0x2a40			

			1		,
		Module registers to NFPROTO_UNSPEC, but it			
		assumes ipv4/ipv6 packet			
		processing. As this is only useful to restrict locally			
		terminating			
		TCP/UDP traffic, register this for ipv4 and ipv6 family			
		only.			
		Pablo points out that this is a general issue, direct			
		users of the			
		set/getsockopt interface can call into targets/matches that were only			
		intended for use with ip(6)tables.			
		Check all UNSPEC matches and targets for similar			
		issues:			
		- matches and targets are fine except if they assume			
		skb_network_header()			
		is valid this is only true when called from inet			
		layer: ip(6) stack			
		pulls the ip/ipv6 header into linear data area.			
		 targets that return XT_CONTINUE or other xtables 			
		verdicts must be			
		restricted too, they are incompatbile with the			
		ebtables traverser, e.g.			
		EBT_CONTINUE is a completely different value than			
		XT_CONTINUE.			
		Mast matches (targets are shanged to register for			
		Most matches/targets are changed to register for NFPROTO_IPV4/IPV6, as			
		they are provided for use by ip(6)tables.			
		The MARK target is also used by arptables, so register			
		for NFPROTO_ARP too.			
		While at it, bail out if connbytes fails to enable the			
		corresponding			
		conntrack family.			
		This change passes the selftests in iptables.git.			
CVE-2024-50039	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		net/sched: accept TCA_STAB only for root qdisc			
		Most adiese maintain their healthe write			
		Most qdiscs maintain their backlog using			
		qdisc_pkt_len(skb) on the assumption it is invariant between the			
		enqueue()			
		and dequeue() handlers.			
	1		l	1	1

Unfortunately syzbot can crash a host rather easily
using
a TBF + SFQ combination, with an STAB on SFQ [1]
We can't support TCA_STAB on arbitrary level, this
would
require to maintain per-qdisc storage.
[1]
[88.796496] BUG: kernel NULL pointer dereference,
address: 00000000000000
[88.798611] #PF: supervisor read access in kernel
mode
[88.799014] #PF: error_code(0x0000) - not-present
page
[88.799506] PGD 0 P4D 0
[88.799829] Oops: Oops: 0000 [#1] SMP NOPTI
[88.800569] CPU: 14 UID: 0 PID: 2053 Comm:
b371744477 Not tainted 6.12.0-rc1-virtme #1117
[88.801107] Hardware name: QEMU Standard PC
(i440FX + PIIX, 1996), BIOS 1.16.3-debian-1.16.3-2
04/01/2014
[88.801779] RIP: 0010:sfq_dequeue
(net/sched/sch_sfq.c:272 net/sched/sch_sfq.c:499)
sch_sfq
[88.802544] Code: 0f b7 50 12 48 8d 04 d5 00 00 00
00 48 89 d6 48 29 d0 48 8b 91 c0 01 00 00 48 c1 e0
03 48 01 c2 66 83 7a 1a 00 7e c0 48 8b 3a <4c> 8b 07
4c 89 02 49 89 50 08 48 c7 47 08 00 00 00 00 48 c7 07
00
All code
0: 0f b7 50 12 movzwl 0x12(%rax),%edx
4: 48 8d 04 d5 00 00 00 lea 0x0(,%rdx,8),%rax
b: 00
c: 48 89 d6 mov %rdx,%rsi
f: 48 29 d0 sub %rdx,%rax
12: 48 8b 91 c0 01 00 00 mov 0x1c0(%rcx),%rdx
19: 48 c1 e0 03 shl \$0x3,%rax
1d: 48 01 c2 add %rax,%rdx
20: 66 83 7a 1a 00 cmpw \$0x0,0x1a(%rdx)
25: 7e c0 jle 0xfffffffffe7
27: 48 8b 3a mov (%rdx),%rdi
2a:* 4c 8b 07 mov (%rdi),%r8 < trapping
instruction
2d: 4c 89 02 mov %r8,(%rdx)
30: 49 89 50 08 mov %rdx,0x8(%r8)
34: 48 c7 47 08 00 00 00 movg \$0x0,0x8(%rdi)
3b: 00
3c: 48 rex.W
3d: c7 .byte 0xc7

20:07 (had)	<u> </u>	1
3e: 07 (bad)		
Code starting with the faulting instruction		
Code starting with the faulting instruction		
0: 4c 8b 07 mov (%rdi),%r8		
3: 4c 89 02 mov %r8,(%rdx)		
6: 49 89 50 08 mov %rdx,0x8(%r8)		
a: 48 c7 47 08 00 00 00 movq \$0x0,0x8(%rdi)		
11:00		
12:48 rex.W		
13: c7 .byte 0xc7		
14: 07 (bad)		
[88.803721] RSP: 0018:ffff9a1f892b7d58 EFLAGS:		
00000206		
[88.804032] RAX: 00000000000000 RBX:		
ffff9a1f8420c800 RCX: ffff9a1f8420c800		
[88.804560] RDX: ffff9a1f81bc1440 RSI:		
00000000000000 RDI: 0000000000000000		
[88.805056] RBP: fffffffc04bb0e0 R08:		
000000000000001 R09: 0000000ff7f9a1f		
[88.805473] R10: 000000000001001b R11:		
000000000009a1f R12: 000000000000140		
[88.806194] R13: 000000000000001 R14:		
ffff9a1f886df400 R15: ffff9a1f886df4ac		
[88.806734] FS: 00007f445601a740(0000)		
GS:ffff9a2e7fd80000(0000)		
knlGS:000000000000000		
[88.807225] CS: 0010 DS: 0000 ES: 0000 CR0:		
000000080050033		
[88.807672] CR2: 00000000000000 CR3:		
00000050cc46000 CR4: 0000000000006f0		
[88.808165] Call Trace:		
[88.808459] <task></task>		
[88.808710] ? die		
[arch/x86/kernel/dumpstack.c:421		
arch/x86/kernel/dumpstack.c:421		
[88.809261] ? page fault oops		
[acch/x86/mm/fault.c:715)		
[88.809561] ? exc_page_fault		
(./arch/x86/include/asm/irqflags.h:26		
./arch/x86/include/asm/irqflags.h:87		
./arch/x86/include/asm/irqflags.h:147		
arch/x86/mm/fault.c:1489		
arch/x86/mm/fault.c:1539)		
[88.809806] ? asm_exc_page_fault		
(./arch/x86/include/asm/idtentry.h:623)		
[88.810074] ? sfq_dequeue		
(net/sched/sch_sfq.c:272 net/sched/sch_sfq.c:499)		
sch_sfq		

		[88.810411] sfq_reset (net/sched/sch_sfq.c:525)			
		sch_sfq			
		[88.810671] qdisc_reset			
		(./include/linux/skbuff.h:2135			
		./include/linux/skbuff.h:2441			
		./include/linux/skbuff.h:3304			
		./include/linux/skbuff.h:3310 net/sched/sch_g			
		truncated			
<u>CVE-2024-50040</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		igb: Do not bring the device up after non-fatal error			
		Commit 004d25060c78 ("igb: Fix igb_down hung on			
		surprise removal")			
		changed igb_io_error_detected() to ignore non-fatal			
		pcie errors in order			
		to avoid hung task that can happen when igb_down()			
		is called multiple			
		times. This caused an issue when processing transient			
		non-fatal errors.			
		igb_io_resume(), which is called after			
		igb_io_error_detected(), assumes			
		that device is brought down by			
		igb_io_error_detected() if the interface			
		is up. This resulted in panic with stacktrace below.			
		[T3256] igb 0000:09:00.0 haeth0: igb: haeth0 NIC			
		Link is Down			
		[T292] pcieport 0000:00:1c.5: AER: Uncorrected			
		(Non-Fatal) error received: 0000:09:00.0			
		[T292] igb 0000:09:00.0: PCle Bus Error:			
		severity=Uncorrected (Non-Fatal), type=Transaction			
		Layer, (Requester ID)			
		[T292] igb 0000:09:00.0: device [8086:1537] error			
		status/mask=00004000/00000000			
		[T292] igb 0000:09:00.0: [14] CmpltTO [
		200.105524,009][T292] igb 0000:09:00.0: AER: TLP			
		Header: 00000000 00000000 0000000 00000000			
		[T292] pcieport 0000:00:1c.5: AER: broadcast			
		error detected message			
		[T292] igb 0000:09:00.0: Non-correctable non-fatal			
		error reported.			
		[T292] pcieport 0000:00:1c.5: AER: broadcast			
		mmio_enabled message			
		[T292] pcieport 0000:00:1c.5: AER: broadcast			
		resume message			
		[T292][cut here]			
		[T292] kernel BUG at net/core/dev.c:6539!			
		[T292] invalid opcode: 0000 [#1] PREEMPT SMP			
		[T292] RIP: 0010:napi enable+0x37/0x40			
		[1292] MI. 0010.11api_e11abie+0x57/0x40			

		[T292] Call Trace:			
		[T292] <task></task>			
		[T292] ? die+0x33/0x90			
		[T292] ? do_trap+0xdc/0x110			
		[T292] ? napi_enable+0x37/0x40			
		[T292] ? do_error_trap+0x70/0xb0			
		[T292] ? napi_enable+0x37/0x40			
		[T292] ? napi_enable+0x37/0x40			
		[T292] ? exc_invalid_op+0x4e/0x70			
		[T292] ? napi_enable+0x37/0x40			
		[T292] ? asm_exc_invalid_op+0x16/0x20			
		[T292] ? napi_enable+0x37/0x40			
		[T292] igb_up+0x41/0x150			
		[T292] igb_io_resume+0x25/0x70			
		[T292] report_resume+0x23/0x70			
		[T292] ? report_frozen_detected+0x20/0x20			
		[T292] pci_walk_bus+0x6c/0x90			
		[T292] ? aer_print_port_info+0xa0/0xa0			
		[T292] pcie_do_recovery+0x22f/0x380			
		[T292] aer_process_err_devices+0x110/0x160			
		[T292] aer_isr+0x1c1/0x1e0			
		[T292] ? disable_irq_nosync+0x10/0x10			
		[T292] irq_thread_fn+0x1a/0x60			
		[T292] irq_thread+0xe3/0x1a0			
		[T292] ? irq_set_affinity_notifier+0x120/0x120			
		[T292] ? irq_affinity_notify+0x100/0x100			
		[T292] kthread+0xe2/0x110			
		[T292] ? kthread_complete_and_exit+0x20/0x20			
		[T292] ret_from_fork+0x2d/0x50			
		[T292] ? kthread_complete_and_exit+0x20/0x20			
		[T292] ret_from_fork_asm+0x11/0x20			
		[T292]			
		To fix this issue igb_io_resume() checks if the			
		interface is running and			
		the device is not down this means			
		igb_io_error_detected() did not bring			
		the device down and there is no need to bring it up.			
CVE-2024-50041	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:		2.0	
	products				
	P. 000003	i40e: Fix macvlan leak by synchronizing access to			
		mac_filter_hash			
		This patch addresses a macvlan leak issue in the i40e			
		driver caused by			
		concurrent access to vsi->mac_filter_hash. The leak			
		occurs when multiple			
		threads attempt to modify the mac_filter_hash			
		simultaneously, leading to			
		inconsistent state and potential memory leaks.			

				1	
		To fix this, we now wrap the calls to i40e_del_mac_filter() and zeroing vf->default_lan_addr.addr with spin_lock/unlock_bh(&vsi->mac_filter_hash_lock), ensuring atomic operations and preventing concurrent access. Additionally, we add lockdep_assert_held(&vsi- >mac_filter_hash_lock) in i40e_add_mac_filter() to help catch similar issues in the future. Reproduction steps: 1. Spawn VFs and configure port vlan on them.			
		 Spawn VFs and configure port vian on them. Trigger concurrent macvlan operations (e.g., 			
		adding and deleting			
		portvlan and/or mac filters).			
		Observe the potential memory leak and inconsistent state in the			
		mac_filter_hash.			
		This synchronization ensures the integrity of the			
		mac_filter_hash and prevents the described leak.			
CVE-2024-50045	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products	netfilter: br_netfilter: fix panic with metadata_dst skb			
		Fix a kernel panic in the br_netfilter module when sending untagged			
		traffic via a VxLAN device.			
		This happens during the check for fragmentation in br_nf_dev_queue_xmit.			
		It is dependent on: 1) the br_netfilter module being loaded;			
		 2) net.bridge.bridge-nf-call-iptables set to 1; 3) a bridge with a VxLAN (single-vxlan-device) 			
		netdevice as a bridge port;			
		4) untagged frames with size higher than the VxLAN			
		MTU forwarded/flooded			
		When forwarding the untagged packet to the VxLAN			
		bridge port, before the netfilter hooks are called,			
		br_handle_egress_vlan_tunnel is called and			
		changes the skb_dst to the tunnel dst. The tunnel_dst			
		is a metadata type			
		of dst, i.e., skb_valid_dst(skb) is false, and metadata-			

[s det des la NUUL	I	
	>dst.dev is NULL.		
	Then in the br_netfilter hooks, in		
	br_nf_dev_queue_xmit, there's a check		
	for frames that needs to be fragmented: frames with		
	higher MTU than the		
	VxLAN device end up calling br_nf_ip_fragment,		
	which in turns call		
	ip_skb_dst_mtu.		
	The ip_dst_mtu tries to use the skb_dst(skb) as if it		
	was a valid dst		
	with valid dst->dev, thus the crash.		
	This case was never supported in the first place, so		
	drop the packet		
	instead.		
	PING 10.0.0.2 (10.0.0.2) from 0.0.0.0 h1-eth0:		
	2000(2028) bytes of data.		
	[176.291791] Unable to handle kernel NULL pointer		
	dereference at		
	virtual address 000000000000110		
	[176.292101] Mem abort info:		
	[176.292184] ESR = 0x000000096000004		
	[176.292322] EC = 0x25: DABT (current EL), IL = 32		
	bits		
	[176.292530] SET = 0, FnV = 0		
	[176.292709] EA = 0, S1PTW = 0		
	[176.292862] FSC = 0x04: level 0 translation fault		
	[176.293013] Data abort info:		
	[176.293104] ISV = 0, ISS = 0x00000004, ISS2 =		
	0x0000000		
	[176.293488] CM = 0, WnR = 0, TnD = 0, TagAccess		
	= 0		
	[176.293787] GCS = 0, Overlay = 0, DirtyBit = 0, Xs =		
	0		
	[176.293995] user pgtable: 4k pages, 48-bit VAs,		
	pgdp=000000043ef5000		
	[176.294166] [00000000000110]		
	pgd=00000000000000,		
	p4d=00000000000000		
	[176.294827] Internal error: Oops:		
	000000096000004 [#1] PREEMPT SMP		
	[176.295252] Modules linked in: vxlan		
	ip6_udp_tunnel udp_tunnel veth		
	br_netfilter bridge stp llc ipv6 crct10dif_ce		
	[176.295923] CPU: 0 PID: 188 Comm: ping Not		
	tainted		
	6.8.0-rc3-g5b3fbd61b9d1 #2		
	[176.296314] Hardware name: linux,dummy-virt		

	1	
(DT)		
[176.296535] pstate: 80000005 (Nzcv daif -PAN -		
UAO -TCO -DIT -SSBS		
BTYPE=)		
[176.296808] pc :		
br_nf_dev_queue_xmit+0x390/0x4ec [br_netfilter]		
[176.297382] lr :		
br_nf_dev_queue_xmit+0x2ac/0x4ec [br_netfilter]		
[176.297636] sp : ffff800080003630		
[176.297743] x29: ffff800080003630 x28:		
000000000000008 x27:		
ffff6828c49ad9f8		
[176.298093] x26: ffff6828c49ad000 x25:		
000000000000000 x24:		
000000000003e8		
[176.298430] x23: 000000000000000 x22:		
ffff6828c4960b40 x21:		
ffff6828c3b16d28		
[176.298652] x20: ffff6828c3167048 x19:		
ffff6828c3b16d00 x18:		
00000000000014		
[176.298926] x17: ffffb0476322f000 x16:		
ffffb7e164023730 x15:		
000000095744632		
[176.299296] x14: ffff6828c3f1c880 x13:		
000000000000002 x12:		
ffffb7e137926a70		
[176.299574] x11: 000000000000001 x10:		
ffff6828c3f1c898 x9 :		
00000000000000		
[176.300049] x8 : ffff6828c49bf070 x7 :		
0008460f18d5f20e x6 :		
f20e0100bebafeca		
[176.300302] x5 : ffff6828c7f918fe x4 : ffff6828c49bf070 x3 :		
000000000000000		
[176.300586] x2 : 000000000000000 x1 :		
ffff6828c3c7ad00 x0 :		
ffff6828c7f918f0		
[176.300889] Call trace:		
[176.301123] br_nf_dev_queue_xmit+0x390/0x4ec		
[176.301123] bf_m_dev_queue_xmit+0x390/0x4ec [br_netfilter]		
—		
[176.301411] br_nf_post_routing+0x2a8/0x3e4		
[br_netfilter]		
[176.301703] nf_hook_slow+0x48/0x124 [176.302060] br_forward_finish+0xc8/0xe8 [bridge]		
[176.302060] br_forward_finish+0xc8/0xe8 [bridge] [176.302371] br_nf_hook_thresh+0x124/0x134		
[br_netfilter]		
[176.302605] br_nf_forward_finish+0x118/0x22c		
[br_netfilter]		
[176.302824]		

		br_nf_forward_ip.part.0+0x264/0x290 [br_netfilter]			
		[176.303136] br_nf_forward+0x2b8/0x4e0			
		[br_netfilter]			
		[176.303359] nf_hook_slow+0x48/0x124			
		[176.303			
		truncated			
CVE-2024-50046	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
	p. 0	NFSv4: Prevent NULL-pointer dereference in			
		nfs42_complete_copies()			
		On the node of an NFS client, some files saved in the			
		mountpoint of the			
		NFS server were copied to another location of the			
		same NFS server.			
		Accidentally, the nfs42_complete_copies() got a			
		NULL-pointer dereference			
		crash with the following syslog:			
		[232064.838881] NFSv4: state recovery failed for			
		open file nfs/pvc-12b5200d-cd0f-46a3-b9f0-			
		af8f4fe0ef64.qcow2, error = -116			
		[232064.839360] NFSv4: state recovery failed for			
		open file nfs/pvc-12b5200d-cd0f-46a3-b9f0-			
		af8f4fe0ef64.qcow2, error = -116			
		[232066.588183] Unable to handle kernel NULL			
		pointer dereference at virtual address			
		000000000000058			
		[232066.588586] Mem abort info:			
		[232066.588701] ESR = 0x000000096000007			
		[232066.588862] EC = 0x25: DABT (current EL), IL =			
		32 bits			
		[232066.589084] SET = 0, FnV = 0			
		[232066.589216] EA = 0, S1PTW = 0			
		[232066.589340] FSC = 0x07: level 3 translation fault			
		[232066.589559] Data abort info:			
		[232066.589683] ISV = 0, ISS = 0x00000007			
		[232066.589842] CM = 0, WnR = 0			
		[232066.589967] user pgtable: 64k pages, 48-bit VAs,			
		pgdp=00002000956ff400			
		[232066.590231] [0000000000000058]			
		pgd=08001100ae100003, p4d=08001100ae100003,			
		pud=08001100ae100003, pmd=08001100b3c00003,			
		pte=000000000000000			
		[232066.590757] Internal error: Oops: 96000007 [#1]			
		SMP			
		[232066.590958] Modules linked in: rpcsec_gss_krb5			
		auth_rpcgss nfsv4 dns_resolver nfs lockd grace			
		fscache netfs ocfs2_dlmfs ocfs2_stack_o2cb			
		ocfs2_dlm vhost_net vhost vhost_iotlb tap tun			

Г	int refilter ut multicent is not been in		[]
	<pre>ipt_rpfilter xt_multiport ip_set_hash_ip in_set_hash_natyfrm_interface.yfrm6_tunnel</pre>		
	ip_set_hash_net xfrm_interface xfrm6_tunnel		
	tunnel4 tunnel6 esp4 ah4 wireguard		
	libcurve25519_generic veth xt_addrtype xt_set		
	nf_conntrack_netlink ip_set_hash_ipportnet		
	ip_set_hash_ipportip ip_set_bitmap_port		
	ip_set_hash_ipport dummy ip_set ip_vs_sh ip_vs_wrr		
	ip_vs_rr ip_vs iptable_filter sch_ingress		
	nfnetlink_cttimeout vport_gre ip_gre ip_tunnel gre		
	vport_geneve geneve vport_vxlan vxlan		
	ip6_udp_tunnel udp_tunnel openvswitch		
	nf_conncount dm_round_robin dm_service_time		
	dm_multipath xt_nat xt_MASQUERADE		
	nft_chain_nat nf_nat xt_mark xt_conntrack		
	xt_comment nft_compat nft_counter nf_tables		
	nfnetlink ocfs2 ocfs2_nodemanager ocfs2_stackglue		
	<pre>iscsi_tcp libiscsi_tcp libiscsi scsi_transport_iscsi</pre>		
	ipmi_ssif nbd overlay 8021q garp mrp bonding tls		
	rfkill sunrpc ext4 mbcache jbd2		
	[232066.591052] vfat fat cas_cache cas_disk ses		
	enclosure scsi_transport_sas sg acpi_ipmi ipmi_si		
	<pre>ipmi_devintf ipmi_msghandler ip_tables vfio_pci</pre>		
	vfio_pci_core vfio_virqfd vfio_iommu_type1 vfio		
	dm_mirror dm_region_hash dm_log dm_mod		
	nf_conntrack nf_defrag_ipv6 nf_defrag_ipv4		
	<pre>br_netfilter bridge stp llc fuse xfs libcrc32c ast</pre>		
	drm_vram_helper qla2xxx drm_kms_helper		
	syscopyarea crct10dif_ce sysfillrect ghash_ce		
	sysimgblt sha2_ce fb_sys_fops cec sha256_arm64		
	sha1_ce drm_ttm_helper ttm nvme_fc igb sbsa_gwdt		
	<pre>nvme_fabrics drm nvme_core i2c_algo_bit i40e</pre>		
	<pre>scsi_transport_fc megaraid_sas aes_neon_bs</pre>		
	[232066.596953] CPU: 6 PID: 4124696 Comm:		
	10.253.166.125- Kdump: loaded Not tainted		
	5.15.131-9.cl9_ocfs2.aarch64 #1		
	[232066.597356] Hardware name: Great Wall		
	.\x93\x8eRF6260 V5/GWMSSE2GL1T, BIOS		
	T656FBE_V3.0.18 2024-01-06		
	[232066.597721] pstate: 20400009 (nzCv daif +PAN -		
	UAO -TCO -DIT -SSBS BTYPE=)		
	[232066.598034] pc :		
	nfs4_reclaim_open_state+0x220/0x800 [nfsv4]		
	[232066.598327] lr :		
	nfs4_reclaim_open_state+0x12c/0x800 [nfsv4]		
	[232066.598595] sp : ffff8000f568fc70		
	[232066.598731] x29: ffff8000f568fc70 x28:		
	0000000000001000 x27: ffff21003db33000		
	[232066.599030] x26: ffff800005521ae0 x25:		
	ffff0100f98fa3f0 x24: 00000000000000001		
	[232066.599319] x23: ffff800009920008 x22:		
	ffff21003db33040 x21: ffff21003db33050		
<u> </u>		I	

		[232066.599628] x20: ffff410172fe9e40 x19: ffff410172fe9e00 x18: 0000000000000000 [232066.599914] x17: 000000000000000 x16: 000000000000004 x15: 0000000000000000 [232066.600195] x14: 0000000000000000 x13: ffff800008e685a8 x12: 00000000eac0c6e6 [232066.600498] x11: 0000000000000			
<u>CVE-2024-50048</u>	linux - multiple	truncated In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	products	fbcon: Fix a NULL pointer dereference issue in fbcon_putcs			
		syzbot has found a NULL pointer dereference bug in fbcon.			
		Here is the simplified C reproducer:			
		struct param { uint8_t type; struct tiocl_selection ts;			
		<pre>};</pre>			
		int main()			
		struct fb_con2fbmap con2fb; struct param param;			
		int fd = open("/dev/fb1", 0, 0);			
		con2fb.console = 0x19; con2fb.framebuffer = 0; ioctl(fd, FBIOPUT_CON2FBMAP, &con2fb);			
		param.type = 2; param.ts.xs = 0; param.ts.ys = 0; param.ts.xe = 0; param.ts.ye = 0;			
		param.ts.sel_mode = 0; int fd1 = open("/dev/tty1", O_RDWR, 0); ioctl(fd1, TIOCLINUX, ¶m);			
		con2fb.console = 1; con2fb.framebuffer = 0; ioctl(fd, FBIOPUT_CON2FBMAP, &con2fb);			
		return 0; }			
		After calling ioctl(fd1, TIOCLINUX, ¶m), the subsequent ioctl(fd, FBIOPUT_CON2FBMAP,			

[1
		&con2fb)			
		causes the kernel to follow a different execution			
		path:			
		set_con2fb_map			
		-> con2fb_init_display			
		-> fbcon_set_disp			
		-> redraw_screen			
		-> hide_cursor			
		-> clear_selection			
		-> highlight			
		-> invert_screen			
		-> do_update_region			
		-> fbcon_putcs			
		-> ops->putcs			
		Since one Sputce is a NULL pointer this leads to a			
		Since ops->putcs is a NULL pointer, this leads to a kernel panic.			
		To prevent this, we need to call set_blitting_type()			
		within set_con2fb_map()			
		to properly initialize ops->putcs.			
CVE-2024-50049	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		drm/amd/display: Check null pointer before			
		dereferencing se			
		[WHAT & HOW]			
		se is null checked previously in the same function,			
		indicating			
		it might be null; therefore, it must be checked when			
		used again.			
		useu again.			
		This fires 1 FORMARD, MULL issue reported by			
		This fixes 1 FORWARD_NULL issue reported by			
01/5 202 1 52253		Coverity.			
<u>CVE-2024-50058</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.5	Medium
	multiple	been resolved:			
	products				
		<pre>serial: protect uart_port_dtr_rts() in uart_shutdown()</pre>			
		too			
		Commit af224ca2df29 (serial: core: Prevent unsafe			
		uart port access, part			
		3) added few uport == NULL checks. It added one to			
		uart_shutdown(), so			
		the commit assumes, uport can be NULL in there. But			
		right after that			
		protection, there is an unprotected			
		"uart_port_dtr_rts(uport, false);"			
		call. That is invoked only if HUPCL is set, so I assume			
		that is the			
	1				

F					1 1
		reason why we do not see lots of these reports.			
		Or it cannot be NULL at this point at all for some reason :P.			
		Until the above is investigated, stay on the safe side and move this			
		dereference to the if too.			
		I got this inconsistency from Coverity under CID 1585130. Thanks.			
CVE-2024-50062	linux - multiple	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	products	RDMA/rtrs-srv: Avoid null pointer deref during path establishment			
		For RTRS path establishment, RTRS client initiates and completes con_num			
		of connections. After establishing all its connections, the information			
		is exchanged between the client and server through			
		the info_req message.			
		During this exchange, it is essential that all connections have been			
		established, and the state of the RTRS srv path is CONNECTED.			
		So add these sanity checks, to make sure we detect and abort process in			
		error scenarios to avoid null pointer deref.			
<u>CVE-2024-50064</u>	linux - multiple products	In the Linux kernel, the following vulnerability has been resolved:	2024-10-21	5.5	Medium
	products	zram: free secondary algorithms names			
		We need to kfree() secondary algorithms names			
		when reset zram device that			
		had multi-streams, otherwise we leak memory.			
		[senozhatsky@chromium.org: kfree(NULL) is legal] Link:			
		https://lkml.kernel.org/r/20240917013021.868769-1- senozhatsky@chromium.org			
<u>CVE-2024-9677</u>	zyxel -	The insufficiently protected credentials vulnerability in the CLI command of the USG FLEX H series uOS	2024-10-22	5.5	Medium
	USG FLEX H series	firmware version V1.21 and earlier versions could			
	uOS	allow an authenticated local attacker to gain privilege			
	firmware	escalation by stealing the authentication token of a			
		login administrator. Note that this attack could be			

		successful only if the administrator has not logged			
		out.			
CVE-2023-52918	linux -	In the Linux kernel, the following vulnerability has	2024-10-22	5.5	Medium
	multiple	been resolved:			
	products				
		media: pci: cx23885: check cx23885_vdev_init()			
		return			
		cx23885_vdev_init() can return a NULL pointer, but			
		that pointer			
		is used in the next line without a check.			
		Add a NULL pointer check and go to the error unwind			
		if it is NULL.			
CVE-2023-52919	linux -	In the Linux kernel, the following vulnerability has	2024-10-22	5.5	Medium
	multiple	been resolved:			
	products				
		nfc: nci: fix possible NULL pointer dereference in			
		send_acknowledge()			
		Handle memory allocation failure from			
		nci_skb_alloc() (calling			
		alloc_skb()) to avoid possible NULL pointer			
01/5 2024 45225		dereference.	2024 40 22		
<u>CVE-2024-45335</u>	trendmicr	Trend Micro Antivirus One, version 3.10.4 and below	2024-10-22	5.5	Medium
	0 -	contains a vulnerability that could allow an attacker			
	antivirus_	to use a specifically crafted virus to allow itself to bypass and evade a virus scan detection.			
CVE-2024-20274	one cisco -	A vulnerability in the web-based management	2024-10-23	5.5	Medium
<u>CVE-2024-20274</u>	Cisco	interface of Cisco Secure Firewall Management	2024-10-23	5.5	Medium
	Firepower	Center (FMC) Software, formerly Firepower			
	Managem	Management Center Software, could allow an			
	ent Center	authenticated, remote attacker to inject arbitrary			
		HTML content into a device-generated document.			
		This vulnerability is due to improper validation of			
		user-supplied data. An attacker could exploit this			
		vulnerability by submitting malicious content to an			
		affected device and using the device to generate a			
		document that contains sensitive information. A			
		successful exploit could allow the attacker to alter the			
		standard layout of the device-generated documents,			
		access arbitrary files from the underlying operating			
		system, and conduct server-side request forgery			
		(SSRF) attacks. To successfully exploit this			
		vulnerability, an attacker would need valid			
		credentials for a user account with policy-editing			
		permissions, such as Network Admin, Intrusion			

		Admin, or any custom user role with the same capabilities.			
<u>CVE-2024-40810</u>	apple - macos	An out-of-bounds write issue was addressed with improved input validation. This issue is fixed in macOS Sonoma 14.6. An app may be able to cause a coprocessor crash.	2024-10-24	5.5	Medium
<u>CVE-2024-44185</u>	apple - multiple products	The issue was addressed with improved checks. This issue is fixed in tvOS 17.6, visionOS 1.3, Safari 17.6, watchOS 10.6, iOS 17.6 and iPadOS 17.6, macOS Sonoma 14.6. Processing maliciously crafted web content may lead to an unexpected process crash.	2024-10-24	5.5	Medium
<u>CVE-2024-44205</u>	apple - multiple products	A privacy issue was addressed with improved private data redaction for log entries. This issue is fixed in macOS Ventura 13.6.8, macOS Monterey 12.7.6, iOS 16.7.9 and iPadOS 16.7.9, iOS 17.6 and iPadOS 17.6, macOS Sonoma 14.6. A sandboxed app may be able to access sensitive user data in system logs.	2024-10-24	5.5	Medium
<u>CVE-2024-44099</u>	google - android	There is a possible Local bypass of user interaction due to an insecure default value. This could lead to local information disclosure with no additional execution privileges needed. User interaction is not needed for exploitation.	2024-10-25	5.5	Medium
<u>CVE-2024-47015</u>	google - Android	In ProtocolMiscHwConfigChangeAdapter::GetData() of protocolmiscadapter.cpp, there is a possible out- of-bounds read due to a missing bounds check. This could lead to local information disclosure with baseband firmware compromise required. User Interaction is not needed for exploitation.	2024-10-25	5.5	Medium
CVE-2024-47018	google - android	In pmucal_rae_handle_seq_int of flexpmu_cal_rae.c, there is a possible out of bounds read due to a buffer overflow. This could lead to local information disclosure with no additional execution privileges needed. User interaction is not needed for exploitation.	2024-10-25	5.5	Medium
CVE-2024-47019	google - android	In ProtocolEmbmsSaiListAdapter::Init() of protocolembmsadapter.cpp, there is a possible out of bounds read due to a missing bounds check. This could lead to local information disclosure with baseband firmware compromise required. User Interaction is not needed for exploitation.	2024-10-25	5.5	Medium
<u>CVE-2024-47025</u>	google - android	In ppmp_protect_buf of drm_fw.c, there is a possible information disclosure due to a logic error in the code. This could lead to local information disclosure with no additional execution privileges needed. User interaction is not needed for exploitation.	2024-10-25	5.5	Medium
<u>CVE-2024-47026</u>	google - android	In gsc_gsa_rescue of gsc_gsa.c, there is a possible out of bounds read due to an incorrect bounds check. This could lead to local information disclosure with no additional execution privileges needed. User interaction is not needed for exploitation.	2024-10-25	5.5	Medium

CVE 2024 47020		In Trusty Charad Manager (Manager y CatCharad Manager y	2024-10-25		N A o di uno
<u>CVE-2024-47029</u>	google - android	In TrustySharedMemoryManager::GetSharedMemory of	2024-10-25	5.5	Medium
	anuroiu				
		ondevice/trusty/trusty_shared_memory_manager.cc, there is a possible out of bounds read due to an			
		incorrect bounds check. This could lead to local			
		information disclosure with no additional execution			
		privileges needed. User interaction is not needed for			
CVE-2024-47034	googlo	exploitation. there is a possible out of bounds read due to a	2024-10-25	5.5	Medium
<u>CVE-2024-47054</u>	google - android	missing bounds check. This could lead to local	2024-10-25	5.5	Wedium
	anuroiu	information disclosure with no additional execution			
		privileges needed. User interaction is not needed for			
		exploitation.			
CVE-2024-47483	dell -	Dell Data Lakehouse, version(s) 1.0.0.0 and 1.1.0.0,	2024-10-25	5.5	Medium
<u>CVL-2024-47405</u>	multiple	contain(s) an Improper Neutralization of Special	2024-10-25	5.5	Wedduin
	products	Elements used in an SQL Command ('SQL Injection')			
	products	vulnerability. An unauthenticated attacker with local			
		access could potentially exploit this vulnerability,			
		leading to Information disclosure.			
CVE-2024-20264	cisco -	A vulnerability in the web-based management	2024-10-23	5.4	Medium
	multiple	interface of Cisco Firepower Management Center			
	products	(FMC) Software could allow an authenticated, remote			
		attacker to conduct a cross-site scripting (XSS) attack			
		against a user of the interface of an affected device.			
		This vulnerability is due to insufficient validation of			
		user-supplied input by the web-based management			
		interface. An attacker could exploit this vulnerability			
		by inserting crafted input into various data fields in			
		an affected interface. A successful exploit could allow			
		the attacker to execute arbitrary script code in the			
		context of the interface, or access sensitive, browser-			
		based information.			
CVE-2024-20269	cisco -	A vulnerability in the web-based management	2024-10-23	5.4	Medium
	multiple	interface of Cisco Firepower Management Center			
	products	(FMC) Software could allow an authenticated, remote			
		attacker to conduct a cross-site scripting (XSS) attack			
		against a user of the interface of an affected device.			
		This vulnerability is due to insufficient validation of			
		user-supplied input by the web-based management			
		interface. An attacker could exploit this vulnerability			
		by inserting crafted input into various data fields in			
		an affected interface. A successful exploit could allow			
		the attacker to execute arbitrary script code in the			
		context of the interface, or access sensitive, browser-			
		based information.	2024 46 55		
<u>CVE-2024-20298</u>	cisco -	A vulnerability in the web-based management	2024-10-23	5.4	Medium
	multiple	interface of Cisco Firepower Management Center			
	products	(FMC) Software could allow an authenticated, remote			
		attacker to conduct a cross-site scripting (XSS) attack			
		against a user of the interface of an affected device.			
		This vulnerability is due to insufficient validation of			

	1				
		user-supplied input by the web-based management			
		interface. An attacker could exploit this vulnerability			
		by inserting crafted input into various data fields in			
		an affected interface. A successful exploit could allow			
		the attacker to execute arbitrary script code in the			
		context of the interface, or access sensitive, browser-			
		based information.			
<u>CVE-2024-20300</u>	cisco -	A vulnerability in the web-based management	2024-10-23	5.4	Medium
	multiple	interface of Cisco Firepower Management Center			
	products	(FMC) Software could allow an authenticated, remote			
		attacker to conduct a cross-site scripting (XSS) attack			
		against a user of the interface of an affected device.			
		This vulnerability is due to insufficient validation of			
		user-supplied input by the web-based management			
		interface. An attacker could exploit this vulnerability			
		by inserting crafted input into various data fields in			
		an affected interface. A successful exploit could allow			
		the attacker to execute arbitrary script code in the			
		context of the interface, or access sensitive, browser-			
01/5 2024 20264		based information.	2024 40 22	F 4	
CVE-2024-20364	cisco -	A vulnerability in the web-based management	2024-10-23	5.4	Medium
	multiple	interface of Cisco Firepower Management Center			
	products	(FMC) Software could allow an authenticated, remote			
		attacker to conduct a stored cross-site scripting (XSS)			
		attack against a user of the interface of an affected			
		device. This vulnerability is due to insufficient			
		validation of user-supplied input by the web-based management interface. An attacker could exploit this			
		vulnerability by inserting crafted input into various			
		data fields in an affected interface. A successful			
		exploit could allow the attacker to execute arbitrary			
		script code in the context of the interface, or access			
		sensitive, browser-based information.			
CVE-2024-20377	cisco -	A vulnerability in the web-based management	2024-10-23	5.4	Medium
012 202 1 20077	multiple	interface of Cisco Firepower Management Center	20212020	5.1	meanan
	products	(FMC) could allow an authenticated, remote attacker			
	produces	to conduct a stored cross-site scripting (XSS) attack			
		against a user of the interface.			
		This vulnerability is due to the web-based			
		management interface not properly validating user-			
		supplied input. An attacker could exploit this			
		vulnerability by by persuading a user of the interface			
		to click a crafted link. A successful exploit could allow			
		the attacker to execute arbitrary script code in the			
		context of the affected interface or access sensitive,			
		browser-based information.			
CVE-2024-20387	cisco -	A vulnerability in the web-based management	2024-10-23	5.4	Medium
	Cisco	interface of Cisco FMC Software could allow an			
	Firepower	authenticated, remote attacker to store malicious			

			1		1
	Managem	content for use in XSS attacks. This vulnerability is			
	ent Center	due to improper input sanitization in the web-based			
		management interface of Cisco FMC Software. An			
		attacker could exploit this vulnerability by persuading			
		a user to click a malicious link. A successful exploit			
		could allow the attacker to conduct a stored XSS			
		attack on an affected device.			
<u>CVE-2024-20410</u>	cisco -	A vulnerability in the web-based management	2024-10-23	5.4	Medium
	Cisco	interface of Cisco Firepower Management Center			
	Firepower	(FMC) Software could allow an unauthenticated,			
	Managem	remote attacker to conduct a cross-site scripting (XSS)			
	ent Center	attack against a user of the interface of an affected			
		device. This vulnerability is due to insufficient			
		validation of user-supplied input by the web-based			
		management interface. An attacker could exploit this			
		vulnerability by inserting crafted input into various			
		data fields in an affected interface. A successful			
		exploit could allow the attacker to execute arbitrary			
		script code in the context of the interface, or access			
		sensitive, browser-based information.			
<u>CVE-2024-44206</u>	apple -	An issue in the handling of URL protocols was	2024-10-24	5.4	Medium
	multiple	addressed with improved logic. This issue is fixed in			
	products	tvOS 17.6, visionOS 1.3, Safari 17.6, watchOS 10.6,			
		iOS 17.6 and iPadOS 17.6, macOS Sonoma 14.6. A			
		user may be able to bypass some web content			
01/5 2024 47:000		restrictions.	202440.24		
<u>CVE-2024-47689</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	5.3	Medium
	multiple	been resolved:			
	products				
		f2fs: fix to don't set SB_RDONLY in			
		f2fs_handle_critical_error()			
		syzhat raparte a f3fe bug as balavu			
		syzbot reports a f2fs bug as below:			
		[cut here]			
		WARNING: CPU: 1 PID: 58 at kernel/rcu/sync.c:177			
		rcu_sync_dtor+0xcd/0x180 kernel/rcu/sync.c:177			
		CPU: 1 UID: 0 PID: 58 Comm: kworker/1:2 Not tainted			
		6.10.0-syzkaller-12562-g1722389b0d86 #0			
		Workqueue: events destroy_super_work			
		RIP: 0010:rcu_sync_dtor+0xcd/0x180			
		kernel/rcu/sync.c:177			
		Call Trace:			
		percpu_free_rwsem+0x41/0x80			
		kernel/locking/percpu-rwsem.c:42			
		destroy_super_work+0xec/0x130 fs/super.c:282			
		process_one_work kernel/workqueue.c:3231 [inline]			
		process_scheduled_works+0xa2c/0x1830			
		kernel/workqueue.c:3312			
		worker_thread+0x86d/0xd40			
		kernel/workqueue.c:3390			
		KEITIEI/ WUI KUUEUE.C.3330			

<pre>kthread-0x2f0/0x30 kernel/kthread.c:389 ret_from_fork-0x40/0x80 arch/x86/kernel/process.c:147 ret_from_fork-0x40/0x30 arch/x86/entry/entry_64.5:244 As Christian Brauner pointed out [1]: the root cause is f2fs sets SB_RDONLY flag in internal function, rather than setting the flag covered w/ sb->s_umount semaphore via remount procedure, then below race condition causes this bug: -freeze_super() -sb_wait_write(sb, SB_FREEZE_WRITE) -sb_wait_write(sb, SB_FREEZE_VRITE) -sb_wait_write(sb, SB_FREEZE_FS) -f2fs_handle_critical_error -sb->s_flags [= SB_RDONLY -thaw_super -thaw_super -thaw_super -thaw_super -thaw_super -thaw_super -thaw_super -thaw_super -thaw_super Since f2fs has almost the same logic as ext4 [2] when handling critical error in filesystem fi it mounts w/ errors=remount-ro option: -set CP_ERROR_FLAG flag which indicates filesystem is stopped -record errors to superblock -set SB_RDONLY flag Once we set CP_ERROR_FLAG flag, all writable interfaces can detect the flag and stop any further updates on filesystem. So, it is safe to not set SB_RDONLY flag, let's remove the logic and keep in line w(ext4 [3].</pre>				1	r	
arch/x86/kernel/process.c:147 ret_from_fork_asm+0x1a/0x30 arch/x86/entry/entry_64.5:244 As Christian Brauner pointed out [1]: the root cause is f2fs sets SB_RDONLY flag in internal function, rather than setting the flag covered w/ sb-s_umount semaphore via remount procedure, then below race condition causes this bug: - freeze_super() - sb_wait_write(sb, SB_FREEZE_PAGEFAULT) - sb_wait_write(sb, SB_FREEZE_FS) - f2fs_handle_critical_error - shag. = ISB_RDONLY - thaw_super_locked - sb_rodn/() is true, so it skips sb_rece_unlock(sb, SB_FREEZE_FS) - deactivate_locked_super Since f2fs has almost the same logic as ext4 [2] when handling critical error in filesystem if it mounts w/ errors=remount-ro option: - set CP_ERROR_FLAG flag which indicates filesystem is stopped - record errors to superblock - set SB_RDONLY faig Once we set CP_ERROR_FLAG flag, all writable interfaces can detet the flag and stop any further updates on filesystem. So, it is safe to not <t< td=""><td></td><td></td><td>kthread+0x2f0/0x390 kernel/kthread.c:389</td><td></td><td></td><td></td></t<>			kthread+0x2f0/0x390 kernel/kthread.c:389			
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[1] https://lore.kernel.org/all/20240729-himbeeren-			[1] https://lore.kernel.org/all/20240729-himbeeren-			
funknetz-96e62f9c7aee@brauner			funknetz-96e62f9c7aee@brauner			
[2]			[2]			
https://lore.kernel.org/all/20240729132721.hxih6ehi			https://lore.kernel.org/all/20240729132721.hxih6ehi			
gadqf7wx@quack3			gadqf7wx@quack3			
[3] https://lore.kernel.org/linux-			[3] https://lore.kernel.org/linux-			
ext4/20240805201241.27286-1-jack@suse.cz			ext4/20240805201241.27286-1-jack@suse.cz			
CVE-2024-50312redhat -A vulnerability was found in GraphQL due to2024-10-225.3Medium	CVE-2024-50312	redhat -	A vulnerability was found in GraphQL due to	2024-10-22	5.3	Medium
openshift improper access controls on the GraphQL		openshift				
_containe introspection query. This flaw allows unauthorized		_containe	introspection query. This flaw allows unauthorized			

				-	
	r_platfor m	users to retrieve a comprehensive list of available queries and mutations. Exposure to this flaw increases the attack surface, as it can facilitate the discovery of flaws or errors specific to the application's GraphQL implementation.			
<u>CVE-2024-31880</u>	ibm - Db2 for Linux, UNIX and Windows	IBM Db2 for Linux, UNIX and Windows (includes Db2 Connect Server) 10.5, 11.1, and 11.5 is vulnerable to a denial of service, under specific configurations, as the server may crash when using a specially crafted SQL statement by an authenticated user.	2024-10-23	5.3	Medium
<u>CVE-2024-20388</u>	cisco - multiple products	A vulnerability in the password change feature of Cisco Firepower Management Center (FMC) software could allow an unauthenticated, remote attacker to determine valid user names on an affected device.	2024-10-23	5.3	Medium
		This vulnerability is due to improper authentication of password update responses. An attacker could exploit this vulnerability by forcing a password reset on an affected device. A successful exploit could allow the attacker to determine valid user names in the unauthenticated response to a forced password reset.			
<u>CVE-2024-20493</u>	cisco - multiple products	A vulnerability in the login authentication functionality of the Remote Access SSL VPN feature of Cisco Adaptive Security Appliance (ASA) Software and Cisco Firepower Threat Defense (FTD) Software could allow an unauthenticated, remote attacker to deny further VPN user authentications for several minutes, resulting in a temporary denial of service (DoS) condition.	2024-10-23	5.3	Medium
		This vulnerability is due to ineffective handling of memory resources during the authentication process. An attacker could exploit this vulnerability by sending crafted packets, which could cause resource exhaustion of the authentication process. A successful exploit could allow the attacker to deny authentication for Remote Access SSL VPN users for several minutes, resulting in a temporary DoS condition.			
<u>CVE-2024-20526</u>	cisco - multiple products	A vulnerability in the SSH server of Cisco Adaptive Security Appliance (ASA) Software could allow an unauthenticated, remote attacker to cause a denial of service (DoS) condition for the SSH server of an affected device.	2024-10-23	5.3	Medium
		This vulnerability is due to a logic error when an SSH session is established. An attacker could exploit this			

					
		vulnerability by sending crafted SSH messages to an			
		affected device. A successful exploit could allow the			
		attacker to exhaust available SSH resources on the			
		affected device so that new SSH connections to the			
		device are denied, resulting in a DoS condition.			
		Existing SSH connections to the device would			
		continue to function normally. The device must be			
		rebooted manually to recover. However, user traffic			
		would not be impacted and could be managed using			
		a remote application such as Cisco Adaptive Security			
		Device Manager (ASDM).			
CVE-2024-47030	google -	Android before 2024-10-05 on Google Pixel devices	2024-10-25	5.1	Medium
<u>CVL 2021 17030</u>	Android	allows information disclosure in the ACPM	20211025	5.1	Wiedlam
	71101010	component, A-315191818.			
CVE-2023-50310	ibm - CICS	IBM CICS Transaction Gateway for Multiplatforms 9.2	2024-10-23	4.9	Medium
<u>CVL-2023-30310</u>	Transactio	and 9.3 transmits or stores authentication	2024-10-23	4.3	weulum
	n Catoway	credentials, but it uses an insecure method that is			
	Gateway	susceptible to unauthorized interception and/or retrieval.			
	for	retrieval.			
	Multiplatf				
01/5 000 4 004 50	orms		2024 40 24		
CVE-2024-30159	mitel -	A vulnerability in the web conferencing component of	2024-10-21	4.8	Medium
	micollab	Mitel MiCollab through 9.7.1.110 could allow an			
		authenticated attacker with administrative privileges			
		to conduct a Stored Cross-Site Scripting (XSS) attack			
		due to insufficient validation of user input. A			
		successful exploit could allow an attacker to execute			
		arbitrary scripts.			
CVE-2024-30160	mitel -	A vulnerability in the Suite Applications Services	2024-10-21	4.8	Medium
	micollab	component of Mitel MiCollab through 9.7.1.110 could			
		allow an authenticated attacker with administrative			
		privileges to conduct a Stored Cross-Site Scripting			
		(XSS) attack due to insufficient validation of user			
		input. A successful exploit could allow an attacker to			
		execute arbitrary scripts.			
CVE-2024-20386	cisco -	A vulnerability in the web-based management	2024-10-23	4.8	Medium
	Cisco	interface of Cisco Firepower Management Center			
	Firepower	(FMC) Software could allow an unauthenticated,			
	Managem	remote attacker to conduct a stored cross-site			
	ent Center	scripting (XSS) attack against a user of the interface of			
		an affected device. This vulnerability is due to			
		insufficient validation of user-supplied input by the			
		web-based management interface. An attacker could			
		exploit this vulnerability by inserting crafted input			
		into various data fields in an affected interface. A			
		successful exploit could allow the attacker to execute			
		arbitrary script code in the context of the interface,			
		or access sensitive, browser-based information.			
CVE-2024-20403	cisco -	A vulnerability in the web-based management	2024-10-23	4.8	Medium
212 202 1 20 100	Cisco	interface of Cisco Firepower Management Center			
	Firepower	(FMC) Software could allow an authenticated, remote			
<u> </u>	Inchower	I may solume could allow an authenticated, remote	l		L

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	Managem	attacker to conduct a cross-site scripting (XSS) attack			
	ent Center	against a user of the interface of an affected device.			
		This vulnerability is due to insufficient validation of			
		user-supplied input by the web-based management			
		interface. An attacker could exploit this vulnerability			
		by inserting crafted input into various data fields in			
		an affected interface. A successful exploit could allow			
		the attacker to execute arbitrary script code in the			
		context of the interface, or access sensitive, browser-			
		based information.			
CVE-2024-20409	cisco -	A vulnerability in the web-based management	2024-10-23	4.8	Medium
	Cisco	interface of Cisco Firepower Management Center			
	Firepower	(FMC) Software could allow an unauthenticated,			
	Managem	remote attacker to conduct a cross-site scripting (XSS)			
	ent Center	attack against a user of the interface of an affected			
	ent center	device. This vulnerability is due to insufficient			
		validation of user-supplied input by the web-based			
		management interface. An attacker could exploit this vulnerability by inserting crafted input into various			
		data fields in an affected interface. A successful			
		exploit could allow the attacker to execute arbitrary			
		script code in the context of the interface, or access			
		sensitive, browser-based information.			
<u>CVE-2024-47679</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	4.7	Medium
	multiple	been resolved:			
	products				
		vfs: fix race between evice_inodes() and			
		find_inode()&iput()			
		Hi, all			
		Departly I potional a hype[1] in https://diago.dit			
		Recently I noticed a bug[1] in btrfs, after digged it			
		into			
		and I believe it'a race in vfs.			
		Let's assume there's a inode (ie ino 261) with i_count			
		1 is			
		called by iput(), and there's a concurrent thread			
		calling			
		generic_shutdown_super().			
		anu0. anu1.			
		cpu0: cpu1:			
		iput() // i_count is 1			
		->spin_lock(inode)			
		->dec i_count to 0			
		->iput_final() generic_shutdown_super()			
		->inode_add_Iru() ->evict_inodes()			
		// cause some reason[2] ->if			
		(atomic_read(inode->i_count)) continue;			
		// return before // inode 261 passed the			
		above check			

-					
		// list_lru_add_obj() // and then schedule			
		out			
		->spin_unlock()			
		// note here: the inode 261			
		// was still at sb list and hash list,			
		// and I_FREEING I_WILL_FREE was not been set			
		btrfs_iget()			
		// after some function calls			
		->find_inode()			
		// found the above inode 261			
		->spin_lock(inode)			
		// check I_FREEING I_WILL_FREE			
		// and passed			
		->iget()			
		->spin_unlock(inode) // schedule back			
		->spin_lock(inode)			
		// check			
		(I_NEW I_FREEING I_WILL_FREE) flags,			
		// passed and set I_FREEING			
		iput() ->spin_unlock(inode)			
		->spin_lock(inode) ->evict()			
		// dec i_count to 0			
		->iput_final()			
		->spin_unlock()			
		->evict()			
		Now, we have two threads simultaneously evicting			
		the same inode, which may trigger the BUG(inode-			
		>i_state & I_CLEAR)			
		statement both within clear_inode() and iput().			
		To fix the bug, recheck the inode->i_count after			
		holding i_lock.			
		Because in the most scenarios, the first check is valid,			
		and			
		the overhead of spin_lock() can be reduced.			
		If there is any misunderstanding, please let me know,			
		thanks.			
		[1]: https://lore.kernel.org/linux-			
		btrfs/0000000000000eabe1d0619c48986@google.co			
		m/			
		[2]: The reason might be 1. SB_ACTIVE was removed			
		or 2. mapping_shrinkable()			
		return false when I reproduced the bug.			
CVE-2024-49859	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	4.7	Medium
<u>UVL-2024-43039</u>	multiple	been resolved:	2024-10-21	4./	weululli
	products				
	products	f2fs: fix to check atomic file in f2fs jactl interfaces			
		f2fs: fix to check atomic_file in f2fs ioctl interfaces			

		Some f2fs ioctl interfaces like f2fs_ioc_set_pin_file(),			
		f2fs_move_file_range(), and f2fs_defragment_range()			
		missed to			
		check atomic_write status, which may cause			
		potential race issue,			
		fix it.			
<u>CVE-2024-49998</u>	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	4.7	Medium
	multiple	been resolved:			
	products				
		net: dsa: improve shutdown sequence			
		Alexander Sverdlin presents 2 problems during			
		shutdown with the			
		lan9303 driver. One is specific to lan9303 and the			
		other just happens			
		to reproduce there.			
		The first problem is that lan9303 is unique among			
		DSA drivers in that it			
		calls dev_get_drvdata() at "arbitrary runtime" (not			
		probe, not shutdown,			
		not remove):			
		phy_state_machine()			
		->			
		-> dsa_user_phy_read()			
		-> ds->ops->phy_read()			
		-> lan9303_phy_read()			
		-> chip->ops->phy_read()			
		-> lan9303_mdio_phy_read()			
		-> dev_get_drvdata()			
		But we never stop the phy_state_machine(), so it			
		may continue to run			
		after dsa_switch_shutdown(). Our common pattern			
		in all DSA drivers is			
		to set drvdata to NULL to suppress the remove()			
		method that may come			
		afterwards. But in this case it will result in an NPD.			
		The second problem is that the way in which we set			
		dp->conduit->dsa_ptr = NULL; is concurrent with			
		receive packet			
		processing. dsa_switch_rcv() checks once whether			
		dev->dsa_ptr is NULL,			
		but afterwards, rather than continuing to use that			
		non-NULL value,			
		dev->dsa_ptr is dereferenced again and again			
		without NULL checks:			
		dsa_conduit_find_user() and many other places. In			

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	between dereferences,
	there is no locking to ensure that what was valid once
	continues to be
	valid.
	Both problems have the common aspect that closing
	the conduit interface
	solves them.
	In the first case, dev_close(conduit) triggers the
	NETDEV_GOING_DOWN
	event in dsa_user_netdevice_event() which closes
	user ports as well.
	dsa_port_disable_rt() calls phylink_stop(), which
	synchronously stops
	the phylink state machine, and ds->ops->phy_read()
	will thus no longer
	call into the driver after this point.
	In the second case, dev_close(conduit) should do this,
	as per
	Documentation/networking/driver.rst:
	Quiescence
	After the ndo_stop routine has been called, the
	hardware must
	not receive or transmit any data. All in flight
	packets must
	be aborted. If necessary, poll or wait for completion
	of
	any reset commands.
	So it should be sufficient to ensure that later, when
	we zeroize
	conduit->dsa_ptr, there will be no concurrent
	dsa_switch_rcv() call
	on this conduit.
	The addition of the netif_device_detach() function is
	to ensure that
	ioctls, rtnetlinks and ethtool requests on the user
	ports no longer
	propagate down to the driver - we're no longer
	prepared to handle them.
	The race condition actually did not exist when
	commit 0650bf52b31f
	("net: dsa: be compatible with masters which
	unregister on shutdown")
<u> </u>	

F					,
		first introduced dsa_switch_shutdown(). It was			
		created later, when we			
		stopped unregistering the user interfaces from a bad			
		spot, and we just			
		replaced that sequence with a racy zeroization of			
		conduit->dsa_ptr			
		(one which doesn't ensure that the interfaces aren't			
		up).			
CVE-2024-50006	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	4.7	Medium
	multiple	been resolved:			
	products				
		ext4: fix i_data_sem unlock order in			
		ext4_ind_migrate()			
		Fuzzing reports a possible deadlock in			
		jbd2_log_wait_commit.			
		This issue is triggered when an EXT4_IOC_MIGRATE			
		ioctl is set to require			
		synchronous updates because the file descriptor is			
		opened with O_SYNC.			
		This can lead to the jbd2_journal_stop() function			
		calling			
		jbd2_might_wait_for_commit(), potentially causing a			
		deadlock if the			
		EXT4_IOC_MIGRATE call races with a write(2) system			
		call.			
		This problem only arises when			
		CONFIG_PROVE_LOCKING is enabled. In this			
		case, the jbd2_might_wait_for_commit macro locks			
		jbd2_handle in the			
		jbd2_journal_stop function while i_data_sem is			
		locked. This triggers			
		lockdep because the jbd2_journal_start function			
		might also lock the same			
		jbd2_handle simultaneously.			
		Found by Linux Verification Center (linuxtesting.org)			
		with syzkaller.			
		Rule: add			
CVE-2022-48989	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	4.7	Medium
	multiple	been resolved:			
	products				
		fscache: Fix oops due to race with cookie_lru and			
		use_cookie			
		_			
		If a cookie expires from the LRU and the			
		LRU_DISCARD flag is set, but			
		the state machine has not run yet, it's possible			
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	another thread can call			
	fscache_use_cookie and begin to use it.			
	When the cookie_worker finally runs, it will see the			
	LRU_DISCARD flag			
	set, transition the cookie->state to LRU_DISCARDING,			
	which will then withdraw the cookie. Once the cookie is withdrawn			
	the object is removed			
	the below oops will occur because the object associated with the cookie			
	is now NULL.			
	IS NOW NOLL.			
	Fix the oops by clearing the LRU_DISCARD bit if			
	another thread uses the			
	cookie before the cookie_worker runs.			
	BUG: kernel NULL pointer dereference, address: 0000000000000008			
	CPU: 31 PID: 44773 Comm: kworker/u130:1 Tainted:			
	G E 6.0.0-5.dneg.x86_64 #1			
	Hardware name: Google Compute Engine/Google			
	Compute Engine, BIOS Google 08/26/2022			
	Workqueue: events_unbound			
	netfs_rreq_write_to_cache_work [netfs]			
	RIP: 0010:cachefiles_prepare_write+0x28/0x90			
	[cachefiles]			
	Call Trace:			
	netfs_rreq_write_to_cache_work+0x11c/0x320			
	[netfs]			
	process_one_work+0x217/0x3e0			
	worker_thread+0x4a/0x3b0 kthread+0xd6/0x100			
CVE-2022-49003 linux		2024-10-21	4.7	Medium
multip		2024-10-21	4.7	weulum
produc				
produc	nvme: fix SRCU protection of nvme_ns_head list			
	Walking the nvme_ns_head siblings list is protected			
	by the head's srcu			
	in nvme_ns_head_submit_bio() but not			
	nvme_mpath_revalidate_paths().			
	Removing namespaces from the list also fails to			
	synchronize the srcu.			
	Concurrent scan work can therefore cause use-after-			
	frees.			
	Hold the head's srcu lock in			
	nvme_mpath_revalidate_paths() and			

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	synchronize with the srcu, not the global RCU, in		
	nvme_ns_remove().		
	Observed the following panic when making		
	NVMe/RDMA connections		
	with native multipath on the Rocky Linux 8.6 kernel		
	(it seems the upstream kernel has the same race		
	condition).		
	Disassembly shows the faulting instruction is cmp		
	0x50(%rdx),%rcx;		
	<pre>computing capacity != get_capacity(ns->disk).</pre>		
	Address 0x50 is dereferenced because ns->disk is		
	NULL.		
	The NULL disk appears to be the result of concurrent		
	scan work		
	freeing the namespace (note the log line in the		
	middle of the panic).		
	[37314.206036] BUG: unable to handle kernel NULL		
	pointer dereference at 0000000000000050		
	[37314.206036] nvme0n3: detected capacity change		
	from 0 to 11811160064		
	[37314.299753] PGD 0 P4D 0		
	[37314.299756] Oops: 0000 [#1] SMP PTI		
	[37314.299759] CPU: 29 PID: 322046 Comm:		
	kworker/u98:3 Kdump: loaded Tainted: G W X		
	[37314.299762] Hardware name: Dell Inc. PowerEdge		
	R720/0JP31P, BIOS 2.7.0 05/23/2018		
	[37314.299763] Workqueue: nvme-wq		
	nvme_scan_work [nvme_core]		
	[37314.299783] RIP:		
	0010:nvme_mpath_revalidate_paths+0x26/0xb0		
	[nvme_core] [27214_200700] Code: 1f 44 00 00 66 66 66 66 00 55		
	[37314.299790] Code: 1f 44 00 00 66 66 66 66 90 55		
	53 48 8b 5f 50 48 8b 83 c8 c9 00 00 48 8b 13 48 8b 48		
	50 48 39 d3 74 20 48 8d 42 d0 48 8b 50 20 <48> 3b 4a		
	50 74 05 f0 80 60 70 ef 48 8b 50 30 48 8d 42 d0 48 39		
	d3		
	[37315.058803] RSP: 0018:ffffabe28f913d10 EFLAGS:		
	00010202		
	[37315.121316] RAX: ffff927a077da800 RBX:		
	ffff92991dd70000 RCX: 000000001600000		
	[37315.206704] RDX: 000000000000000 RSI:		
	00000000000000 RDI: ffff92991b719800		
	[37315.292106] RBP: ffff929a6b70c000 R08:		
	00000010234cd4a R09: c0000000ffff7fff		
	[37315.377501] R10: 000000000000001 R11:		
	ffffabe28f913a30 R12: 0000000000000000		
	[37315.462889] R13: ffff92992716600c R14:		
	ffff929964e6e030 R15: ffff92991dd70000		

		[37315.548286] FS: 000000000000000000000000			
		GS:ffff92b87fb80000(0000)			
		knlGS:00000000000000			
		[37315.645111] CS: 0010 DS: 0000 ES: 0000 CR0:			
		000000080050033			
		[37315.713871] CR2: 00000000000000050 CR3:			
		0000002208810006 CR4: 0000000000606e0			
		[37315.799267] Call Trace:			
		[37315.828515] nvme_update_ns_info+0x1ac/0x250			
		[nvme_core]			
		[37315.892075]			
		nvme_validate_or_alloc_ns+0x2ff/0xa00			
		[nvme_core]			
		[37315.961871] ?			
		blk_mq_free_request+0x6b/0x90			
		[37316.015021] nvme_scan_work+0x151/0x240			
		[nvme_core]			
		[37316.073371] process_one_work+0x1a7/0x360			
		[37316.121318] ? create worker+0x1a0/0x1a0			
		[37316.168227] worker_thread+0x30/0x390			
		[37316.212024] ? create worker+0x1a0/0x1a0			
		[37316.258939] kthread+0x10a/0x120			
		[37316.297557] ? set_kthread_struct+0x50/0x50			
		[37316.347590] ret_from_fork+0x35/0x40			
		[37316.390360] Modules linked in: nvme_rdma			
		nvme_tcp(X) nvme_fabrics nvme_core netconsole			
		iscsi_tcp libiscsi_tcp dm_queue_length			
		dm_service_time nf_conntrack_netlink br_netfilter			
		bridge stp llc overlay nft_chain_nat			
		ipt_MASQUERADE nf_nat xt_addrtype xt_CT			
		nft_counter xt_state xt_conntrack nf_conntrack			
		nf defrag ipv6 nf defrag ipv4 xt comment			
		xt_multiport nft_compat nf_tables libcrc32c nfnetlink			
		dm_multipath tg3 rpcrdma sunrpc rdma_ucm ib_srpt			
		ib_isert iscsi_target_mod target_core_mod ib_iser			
		libiscsi scsi_transport_iscsi ib_umad rdma_cm			
		ib_ipoib iw_cm ib_cm intel_rapl_msr iTCO_wdt			
		iTCO_vendor_support dcdbas intel_rapl_common			
		sb_edac x86_pkg_temp_thermal intel_powerclamp			
		coretemp kvm_intel ipmi_ssif kvm irqbypass			
		crct10dif_pclmul crc32_pclmul mlx5_ib			
		ghash_clmulni_intel ib_uverbs rapl intel_cstate			
		intel_uncore ib_core ipmi_si joydev mei_me pcspkr			
		ipmi_devintf mei lpc_ich wmi ipmi_msghandler			
		acpi_power_meter ex			
		truncated	2024 10 25	A A	Madicus
<u>CVE-2024-47028</u>	google -	In ffu_flash_pack of ffu.c, there is a possible out of	2024-10-25	4.4	Medium
	android	bounds read due to an integer overflow. This could			
		lead to local information disclosure with System			
		execution privileges needed. User interaction is not			
		needed for exploitation.			

multiple that rely on the use of cookies without the SameSite CVE-2024-47738 Inux- multiple In the Linux kernel, the following vulnerability has been resolved: 2024-10-21 3.3 Low Wift: mac80211: don't use rate mask for offchannel TX either Wift: mac80211: don't use rate mask for offchannel TX either 3.3 Low Like the commit ab9177d83C04 ("wift: mac80211: don't use rate mask for scanning"), ignore incorrect settings to avoid no supported rate warning reported by sysbot. The sysbot did bisect and found cause is commit 9df66d5b945 ("cfg80211: fix default Hz bitrate mask in 2G band"), which however corrects bitmask of HE MCS rate instead of returning -EINVAL. As suggestions [1], follow the change of SCAN TX to consider this case of offchannel TX as well. [1] https://lore.kernel.org/linux- wireless/6ab2dc9c3de753ac6fdcd14212Fa1f47e87 Se4.came[@sp80polutions.mtr/!Mn2a2a6d2b206a37 c9c47a3d8a4da4f647ed4f024 2024-10-21 3.3 Low CVE-2024-50044 linux- multiple products In the Linux kernel, he following vulnerability has been resolved: 2024-10-21 3.3 Low CVE-2024-50044 linux- multiple In the Linux kernel, he following vulnerability has been resolved: 2024-10-21 3.3 Low Euletoch: In the Linux kernel, he following vulnerability has been resolved: 2024-10-21 3.3 Low Euletoch: In the Linux kernel, he followin	01/5 0004 40470			2024 40 22	0.7	
products attribute.	<u>CVE-2024-43173</u>	ibm -	IBM Concert 1.0.0 and 1.0.1 vulnerable to attacks	2024-10-22	3.7	Low
CVE-2024-47733 Inux- multiple products In the Linux kernel, the following vulnerability has been resolved: 2024-10-21 3.3 Low wifi: mac80211: don't use rate mask for offchannel TX either Wifi: mac80211: don't use rate mask for offchannel TX either 3.3 Low Like the commit ab9177d83c04 ("wifi: mac80211: don't use rate mask for scanning"), ignore incorrect settings to avoid no supported rate warning reported by syzbot. The syzbot did bisect and found cause is commit 9df6dGb9f45 ("cfg02011: The syzbot did bisect and found cause is commit 9df6dGb9f45 ("cfg02011: The default HE tx bitrate mask in 26 band"), which however corrects bitmask of HE MCS rate instead of returning -EINVAL. As suggestions [1], follow the change of SCAN TX to consider this case of offchannel TX as well. 11 [1] https://lore.kernel.org/linux- wireless/Gab2dc92afe753ca6fdcd1421e7a1f47e87 b84. carel@sipsolutions.net/T/fm2a22a6d2be06a37 2024-10-21 3.3 Low CVE-2024-50044 Inux - multiple products In the Linux kernel, the following vulnerability has been resolved: Bluetooth: RFCOMM: FIX possible deadlock in rfcomm_sk_state_change 2024-10-21 3.3 Low CVE-2024-50044 Inux - multiple products Inux - Bluetooth: RFCOMM: FIX possible deadlock in rfcomm_sk_state_change 3.3 Low WARNING: possible circular locking dependency detected 6.8.0-syzkaller-08951-gfe46a7d189e M0 Nt tainted - syz-executor336f/5093 is trying to acquire lock: 3.3 Low		•				
multiple products been resolved: wifi: mac80211: don't use rate mask for offchannel TX either wifi: mac80211: don't use rate mask for offchannel TX either Like the commit ab9177683c04 ("wifi: mac80211: don't use rate mask for scanning"), ignore incorrect settings to avoid no supported rate warning reported by syzbat. The syzbot did bisect and found cause is commit 9df6d5b945 ("cfg80211: fix default HE tx bitrate mask in 26 band"), which however corrects bitmask of HE MCS and recognizes correctly settings of empty legacy rate plus HE MCS rate instead of returning -EINVAL. As suggestions [1], follow the change of SCAN TX to consider this case of offchannel TX as well. [1] https://jore.kernel.org/linux- wireless/fab2d0c3afc753ca6fdcd14121e7a1f47e87 b84.camel@sipsolutions.net/T/#m2a2a6d2b2b66a37 c9c47a3d8a4daf647e4df024 2024-10-21 3.3 Low CVE-2024-50044 Iinux - multiple products Int the Linux kernel, the following vulnerability has been resolved: Bluetooth: RFCOMM: FIX possible deadlock in rfcomm_sk_state_change 2024-10-21 3.3 Low Bluetooth: RFCOMM: FIX possible deadlock in rfcomm_sk_state_change rfcomm_sk_state_change rfcomm_sk_state_change intust never be called with it locked but frcomm_sock_loctI always attempt to lock it causing the following trace: solvet: solvet: Solvet:	01/5 0004 47700			2024 40 24		
CVE:2024-50044 Ilmux- multiple products Ilmux- in the Communic Action of the following vulnerability has been resolved: 2024-10-21 3.3 Low CVE:2024-50044 Ilmux- in communic specific of collar in collar in specific of collar in specific of collar in collar in the	<u>CVE-2024-47738</u>	-		2024-10-21	3.3	Low
CVE-2024-50044 Ilnux- multiple products Ilnux- in the lnux kernel, the following vulnerability has solutions.net/7/Hm2ac2a6d2be06a37 2024-10-21 3.3 Low CVE-2024-50044 Ilnux- multiple products In the lnux kernel, the following vulnerability has solutions in the following trace: 2024-10-21 3.3 Low		-	been resolved:			
CVE-2024-50044 Imux- multiple products Imux- infocum_s_state_change Imux- infocum_s_state_change Imux- infocum_s_state_change 2024-10-21 3.3 Live to kit in the universe infocum_sit in the following trace: Imux- infocum_sit infocum_s		products				
CVE-2024-50044 Like the commit ab9177d83c04 ("wifi: mac80211: don't use rate mask for scanning"), ignore incorrect settings to avoid no supported rate warning reported by sybot. Image: Support of the commit 9df6d5b9f45 ("cfg80211: fix default HE to bitrate mask in 2G band"), which however corrects bitmask of HE MCS and recognizes correctly settings of empty legacy rate plus HE MCS rate instead of returning -EINVAL. As suggestions [1], follow the change of SCAN TX to consider this case of offchannel TX as well. [1] https://lore.kernel.org/linux- wireless/6ab2d:e023fe/53ca6fdcd1421e7a1f47e87 b84.came@sispolutions.net/T/#m2ac2a6d2be06a37 c9c47a3d8a44b4f647ed4f024 2024-10-21 3.3 Low CVE-2024-50044 Linux - multiple products In the Linux kernel. the following vulnerability has been resolved: Bluetooth: RFCOMM: FIX possible deadlock in rfcomm_sk_state_change attempts to use sock_lock so it must never be called with it locked but ffcomm_sock_loctI always attempt to lock it. causing the following trace: 						
cvE-2024-50044 linux - multiple products linux - multiple products linux - multiple products linux			either			
cvE-2024-50044 linux - multiple products linux - multiple products linux - multiple products linux						
CVE-2024-50044 Iinux - multiple products In the following trace: i must never be called with it locked but frfcomm_sock_joct1 always attempt to lock it causing the following trace: 2024-10-21 3.3 Low						
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Substrain			The such as did bigs at and found source is somewith			
fix default HE tx birate mask in 2G band"), which however corrects bitmask of HE MCS and recognizes correctly settings of empty legacy rate plus HE MCS rate instead of returning -EINVAL. As suggestions [1], follow the change of SCAN TX to consider this case of offchannel TX as well. III https://lore.kernel.org/linux- wireless/6ab2dc9c3afe753ca6fdcdd1421e7a1f47e87 b84.camel@sipsolutions.net/T/#m2ac2a6d2be06a37 c9c47a3d8a44b4f647ed4f024 2024-10-21 3.3 Low CVE-2024-50044 linux - multiple products In the Linux kernel, the following vulnerability has been resolved: 2024-10-21 3.3 Low Bluetooth: RFCOMM: FIX possible deadlock in rfcomm_sk_state_change rfcomm_sck_state_change attempts to use sock_lock so it must never be called with it locked but rfcomm_sock_ioctl always attempt to lock it causing the following trace: IIII https://lock it causing the following trace: IIIII https://lock it causing the following trace: IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII						
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		BTPROTO_RFCOMM){+.+.}-{0:0}, at: lock_sock			
		include/net/sock.h:1671 [inline]			
		ffff88807c396258 (sk_lock-AF_BLUETOOTH-			
		BTPROTO_RFCOMM){+.+.}-{0:0}, at:			
		rfcomm_sk_state_change+0x5b/0x310			
		net/bluetooth/rfcomm/sock.c:73			
		but task is already holding lock:			
		ffff88807badfd28 (&d->lock){+.+.}-{3:3}, at:			
		rfcomm_dlc_close+0x226/0x6a0			
		net/bluetooth/rfcomm/core.c:491			
CVE-2024-50057	linux -	In the Linux kernel, the following vulnerability has	2024-10-21	3.3	Low
	multiple	been resolved:			
	products				
		usb: typec: tipd: Free IRQ only if it was requested			
		before			
		In polling mode, if no IRQ was requested there is no			
		need to free it.			
		Call devm_free_irq() only if client->irq is set. This fixes			
		the warning			
		caused by the tps6598x module removal:			
		, ,			
		WARNING: CPU: 2 PID: 333 at kernel/irg/devres.c:144			
		devm_free_irq+0x80/0x8c			
		Call trace:			
		devm_free_irq+0x80/0x8c			
		tps6598x_remove+0x28/0x88 [tps6598x]			
		i2c_device_remove+0x2c/0x9c			
		device_remove+0x4c/0x80			
		device release driver internal+0x1cc/0x228			
		driver_detach+0x50/0x98			
		bus_remove_driver+0x6c/0xbc			
		driver unregister+0x30/0x60			
		i2c_del_driver+0x54/0x64			
		tps6598x i2c driver exit+0x18/0xc3c [tps6598x]			
		arm64_sys_delete_module+0x184/0x264			
		invoke_syscall+0x48/0x110			
		el0_svc_common.constprop.0+0xc8/0xe8			
		do el0 svc+0x20/0x2c			
		el0_svc+0x28/0x98			
		el0t_64_sync_handler+0x13c/0x158			
		el0t_64_sync+0x190/0x194			
		Inerability information as NIST's lie to lauti of			

Where NCA provides the vulnerability information as NIST's وحيث تقدم الهيئة تفاصيل الثغرات كما تم نشرها من قبل NIST's NVD. In addition, it is the entity's or وإذ تبقى مسؤولية الجهة أو الشخص قائمة للتأكد من تطبيق NVD. التوصيات المناسبة. التوصيات المناسبة.