



CVE-2021-26341

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Summary

CVE	CVE-2021-26341
State	PUBLIC
Assigner	psirt@amd.com
Source Priority	CVE Program / NVD first with legacy fallback
Published	2022-03-11 18:15:00 UTC
Updated	2023-08-08 14:22:00 UTC
Description	Some AMD CPUs may transiently execute beyond unconditional direct branches, which may potentially result in data leaka

Risk And Classification

Problem Types: CWE-212

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Hardware	Amd	A10-9600p	-	All	All	All
Operating System	Amd	A10-9600p Firmware	-	All	All	All
Hardware	Amd	A10-9630p	-	All	All	All
Operating System	Amd	A10-9630p Firmware	-	All	All	All
Hardware	Amd	A12-9700p	-	All	All	All
Operating System	Amd	A12-9700p Firmware	-	All	All	All
Hardware	Amd	A12-9730p	-	All	All	All
Operating System	Amd	A12-9730p Firmware	-	All	All	All
Hardware	Amd	A4-9120	-	All	All	All
Operating System	Amd	A4-9120 Firmware	-	All	All	All
Hardware	Amd	A6-9210	-	All	All	All
Operating System	Amd	A6-9210 Firmware	-	All	All	All
Hardware	Amd	A6-9220	-	All	All	All
Hardware	Amd	A6-9220c	-	All	All	All
Operating System	Amd	A6-9220c Firmware	-	All	All	All
Operating System	Amd	A6-9220 Firmware	-	All	All	All
Hardware	Amd	A9-9410	-	All	All	All

Operating System	Amd	A9-9410 Firmware	-	All	All	All
Hardware	Amd	A9-9420	-	All	All	All
Operating System	Amd	A9-9420 Firmware	-	All	All	All
Hardware	Amd	Athlon Gold 3150ge	-	All	All	All
Operating System	Amd	Athlon Gold 3150ge Firmware	-	All	All	All
Hardware	Amd	Athlon Gold 3150u	-	All	All	All
Operating System	Amd	Athlon Gold 3150u Firmware	-	All	All	All
Hardware	Amd	Athlon Gold 3450g	-	All	All	All
Operating System	Amd	Athlon Gold 3450g Firmware	-	All	All	All
Hardware	Amd	Athlon Pro 300u	-	All	All	All
Operating System	Amd	Athlon Pro 300u Firmware	-	All	All	All
Hardware	Amd	Athlon Silver 3050ge	-	All	All	All
Operating System	Amd	Athlon Silver 3050ge Firmware	-	All	All	All
Hardware	Amd	Athlon Silver 3050u	-	All	All	All
Operating System	Amd	Athlon Silver 3050u Firmware	-	All	All	All
Hardware	Amd	Athlon X4 750	-	All	All	All
Operating System	Amd	Athlon X4 750 Firmware	-	All	All	All
Hardware	Amd	Athlon X4 760k	-	All	All	All
Operating System	Amd	Athlon X4 760k Firmware	-	All	All	All
Hardware	Amd	Athlon X4 830	-	All	All	All
Operating System	Amd	Athlon X4 830 Firmware	-	All	All	All
Hardware	Amd	Athlon X4 835	-	All	All	All
Operating System	Amd	Athlon X4 835 Firmware	-	All	All	All
Hardware	Amd	Athlon X4 840	-	All	All	All
Operating System	Amd	Athlon X4 840 Firmware	-	All	All	All
Hardware	Amd	Athlon X4 845	-	All	All	All
Operating System	Amd	Athlon X4 845 Firmware	-	All	All	All
Hardware	Amd	Athlon X4 860k	-	All	All	All
Operating System	Amd	Athlon X4 860k Firmware	-	All	All	All
Hardware	Amd	Athlon X4 870k	-	All	All	All
Operating System	Amd	Athlon X4 870k Firmware	-	All	All	All
Hardware	Amd	Athlon X4 880k	-	All	All	All
Operating System	Amd	Athlon X4 880k Firmware	-	All	All	All
Hardware	Amd	Athlon X4 940	-	All	All	All
Operating System	Amd	Athlon X4 940 Firmware	-	All	All	All

Hardware	Amd	Athlon X4 950	-	All	All	All
Operating System	Amd	Athlon X4 950 Firmware	-	All	All	All
Hardware	Amd	Athlon X4 970	-	All	All	All
Operating System	Amd	Athlon X4 970 Firmware	-	All	All	All
Hardware	Amd	Epyc 7232p	-	All	All	All
Operating System	Amd	Epyc 7232p Firmware	-	All	All	All
Hardware	Amd	Epyc 7251	-	All	All	All
Operating System	Amd	Epyc 7251 Firmware	-	All	All	All
Hardware	Amd	Epyc 7252	-	All	All	All
Operating System	Amd	Epyc 7252 Firmware	-	All	All	All
Hardware	Amd	Epyc 7261	-	All	All	All
Operating System	Amd	Epyc 7261 Firmware	-	All	All	All
Hardware	Amd	Epyc 7262	-	All	All	All
Operating System	Amd	Epyc 7262 Firmware	-	All	All	All
Hardware	Amd	Epyc 7272	-	All	All	All
Operating System	Amd	Epyc 7272 Firmware	-	All	All	All
Hardware	Amd	Epyc 7281	-	All	All	All
Operating System	Amd	Epyc 7281 Firmware	-	All	All	All
Hardware	Amd	Epyc 7282	-	All	All	All
Operating System	Amd	Epyc 7282 Firmware	-	All	All	All
Hardware	Amd	Epyc 7301	-	All	All	All
Operating System	Amd	Epyc 7301 Firmware	-	All	All	All
Hardware	Amd	Epyc 7302	-	All	All	All
Hardware	Amd	Epyc 7302p	-	All	All	All
Operating System	Amd	Epyc 7302p Firmware	-	All	All	All
Operating System	Amd	Epyc 7302 Firmware	-	All	All	All
Hardware	Amd	Epyc 7351	-	All	All	All
Hardware	Amd	Epyc 7351p	-	All	All	All
Operating System	Amd	Epyc 7351p Firmware	-	All	All	All
Operating System	Amd	Epyc 7351 Firmware	-	All	All	All
Hardware	Amd	Epyc 7352	-	All	All	All
Operating System	Amd	Epyc 7352 Firmware	-	All	All	All
Hardware	Amd	Epyc 7371	-	All	All	All
Operating System	Amd	Epyc 7371 Firmware	-	All	All	All
Hardware	Amd	Epyc 7401	-	All	All	All

Hardware	Amd	Epyc /401p	-	All	All	All
Operating System	Amd	Epyc 7401p Firmware	-	All	All	All
Operating System	Amd	Epyc 7401 Firmware	-	All	All	All
Hardware	Amd	Epyc 7402	-	All	All	All
Hardware	Amd	Epyc 7402p	-	All	All	All
Operating System	Amd	Epyc 7402p Firmware	-	All	All	All
Operating System	Amd	Epyc 7402 Firmware	-	All	All	All
Hardware	Amd	Epyc 7451	-	All	All	All
Operating System	Amd	Epyc 7451 Firmware	-	All	All	All
Hardware	Amd	Epyc 7452	-	All	All	All
Operating System	Amd	Epyc 7452 Firmware	-	All	All	All
Hardware	Amd	Epyc 7501	-	All	All	All
Operating System	Amd	Epyc 7501 Firmware	-	All	All	All
Hardware	Amd	Epyc 7502	-	All	All	All
Hardware	Amd	Epyc 7502p	-	All	All	All
Operating System	Amd	Epyc 7502p Firmware	-	All	All	All
Operating System	Amd	Epyc 7502 Firmware	-	All	All	All
Hardware	Amd	Epyc 7532	-	All	All	All
Operating System	Amd	Epyc 7532 Firmware	-	All	All	All
Hardware	Amd	Epyc 7542	-	All	All	All
Operating System	Amd	Epyc 7542 Firmware	-	All	All	All
Hardware	Amd	Epyc 7551	-	All	All	All
Hardware	Amd	Epyc 7551p	-	All	All	All
Operating System	Amd	Epyc 7551p Firmware	-	All	All	All
Operating System	Amd	Epyc 7551 Firmware	-	All	All	All
Hardware	Amd	Epyc 7552	-	All	All	All
Operating System	Amd	Epyc 7552 Firmware	-	All	All	All
Hardware	Amd	Epyc 7601	-	All	All	All
Operating System	Amd	Epyc 7601 Firmware	-	All	All	All
Hardware	Amd	Epyc 7642	-	All	All	All
Operating System	Amd	Epyc 7642 Firmware	-	All	All	All
Hardware	Amd	Epyc 7662	-	All	All	All
Operating System	Amd	Epyc 7662 Firmware	-	All	All	All
Hardware	Amd	Epyc 7702	-	All	All	All
Hardware	Amd	Epyc 7702p	-	All	All	All
Operating System	Amd	Epyc 7702p Firmware	-	All	All	All

Operating System	Amd	Epyc 7702 Firmware	-	All	All	All
Hardware	Amd	Epyc 7742	-	All	All	All
Operating System	Amd	Epyc 7742 Firmware	-	All	All	All
Hardware	Amd	Epyc 7f32	-	All	All	All
Operating System	Amd	Epyc 7f32 Firmware	-	All	All	All
Hardware	Amd	Epyc 7f52	-	All	All	All
Operating System	Amd	Epyc 7f52 Firmware	-	All	All	All
Hardware	Amd	Epyc 7f72	-	All	All	All
Operating System	Amd	Epyc 7f72 Firmware	-	All	All	All
Hardware	Amd	Epyc 7h12	-	All	All	All
Operating System	Amd	Epyc 7h12 Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 2200u	-	All	All	All
Operating System	Amd	Ryzen 3 2200u Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 2300u	-	All	All	All
Operating System	Amd	Ryzen 3 2300u Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 3100	-	All	All	All
Operating System	Amd	Ryzen 3 3100 Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 3300g	-	All	All	All
Operating System	Amd	Ryzen 3 3300g Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 3300x	-	All	All	All
Operating System	Amd	Ryzen 3 3300x Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 4300g	-	All	All	All
Hardware	Amd	Ryzen 3 4300ge	-	All	All	All
Operating System	Amd	Ryzen 3 4300ge Firmware	-	All	All	All
Operating System	Amd	Ryzen 3 4300g Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 5400u	-	All	All	All
Operating System	Amd	Ryzen 3 5400u Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 5425u	-	All	All	All
Operating System	Amd	Ryzen 3 5425u Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 Pro 2300u	-	All	All	All
Operating System	Amd	Ryzen 3 Pro 2300u Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 Pro 3300u	-	All	All	All
Operating System	Amd	Ryzen 3 Pro 3300u Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 2500u	-	All	All	All
Operating System	Amd	Ryzen 5 2500u Firmware	-	All	All	All

Hardware	Amd	Ryzen 5 2600	-	All	All	All
Hardware	Amd	Ryzen 5 2600h	-	All	All	All
Operating System	Amd	Ryzen 5 2600h Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 2600x	-	All	All	All
Operating System	Amd	Ryzen 5 2600x Firmware	-	All	All	All
Operating System	Amd	Ryzen 5 2600 Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 3400g	-	All	All	All
Operating System	Amd	Ryzen 5 3400g Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 3600	-	All	All	All
Hardware	Amd	Ryzen 5 3600x	-	All	All	All
Operating System	Amd	Ryzen 5 3600x Firmware	-	All	All	All
Operating System	Amd	Ryzen 5 3600 Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 4600g	-	All	All	All
Hardware	Amd	Ryzen 5 4600ge	-	All	All	All
Operating System	Amd	Ryzen 5 4600ge Firmware	-	All	All	All
Operating System	Amd	Ryzen 5 4600g Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 4600h	-	All	All	All
Operating System	Amd	Ryzen 5 4600h Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 5600h	-	All	All	All
Hardware	Amd	Ryzen 5 5600hs	-	All	All	All
Operating System	Amd	Ryzen 5 5600hs Firmware	-	All	All	All
Operating System	Amd	Ryzen 5 5600h Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 5600u	-	All	All	All
Operating System	Amd	Ryzen 5 5600u Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 5625u	-	All	All	All
Operating System	Amd	Ryzen 5 5625u Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 Pro 2500u	-	All	All	All
Operating System	Amd	Ryzen 5 Pro 2500u Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 Pro 3500u	-	All	All	All
Operating System	Amd	Ryzen 5 Pro 3500u Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 2700	-	All	All	All
Hardware	Amd	Ryzen 7 2700u	-	All	All	All
Operating System	Amd	Ryzen 7 2700u Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 2700x	-	All	All	All
Operating System	Amd	Ryzen 7 2700x Firmware	-	All	All	All
Operating System	Amd	Ryzen 7 2700 Firmware	-	All	All	All

Operating System	Amd	Ryzen 7 2700 Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 2800h	-	All	All	All
Operating System	Amd	Ryzen 7 2800h Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 3700x	-	All	All	All
Operating System	Amd	Ryzen 7 3700x Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 3800x	-	All	All	All
Operating System	Amd	Ryzen 7 3800x Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 4700g	-	All	All	All
Hardware	Amd	Ryzen 7 4700ge	-	All	All	All
Operating System	Amd	Ryzen 7 4700ge Firmware	-	All	All	All
Operating System	Amd	Ryzen 7 4700g Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 4800h	-	All	All	All
Operating System	Amd	Ryzen 7 4800h Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 5800h	-	All	All	All
Hardware	Amd	Ryzen 7 5800hs	-	All	All	All
Operating System	Amd	Ryzen 7 5800hs Firmware	-	All	All	All
Operating System	Amd	Ryzen 7 5800h Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 5800u	-	All	All	All
Operating System	Amd	Ryzen 7 5800u Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 5825u	-	All	All	All
Operating System	Amd	Ryzen 7 5825u Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 Pro 2700u	-	All	All	All
Operating System	Amd	Ryzen 7 Pro 2700u Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 Pro 3700u	-	All	All	All
Operating System	Amd	Ryzen 7 Pro 3700u Firmware	-	All	All	All
Hardware	Amd	Ryzen 9 3900x	-	All	All	All
Operating System	Amd	Ryzen 9 3900x Firmware	-	All	All	All
Hardware	Amd	Ryzen 9 3950x	-	All	All	All
Operating System	Amd	Ryzen 9 3950x Firmware	-	All	All	All
Hardware	Amd	Ryzen 9 4900hs	-	All	All	All
Operating System	Amd	Ryzen 9 4900hs Firmware	-	All	All	All
Hardware	Amd	Ryzen 9 5900hs	-	All	All	All
Operating System	Amd	Ryzen 9 5900hs Firmware	-	All	All	All
Hardware	Amd	Ryzen 9 5900hx	-	All	All	All
Operating System	Amd	Ryzen 9 5900hx Firmware	-	All	All	All
Hardware	Amd	Ryzen 9 5980hs	-	All	All	All

Operating System	Amd	Ryzen 9 5980hs Firmware	-	All	All	All
Hardware	Amd	Ryzen 9 5980hx	-	All	All	All
Operating System	Amd	Ryzen 9 5980hx Firmware	-	All	All	All
Hardware	Amd	Ryzen Threadripper 2920x	-	All	All	All
Operating System	Amd	Ryzen Threadripper 2920x Firmware	-	All	All	All
Hardware	Amd	Ryzen Threadripper 2950x	-	All	All	All
Operating System	Amd	Ryzen Threadripper 2950x Firmware	-	All	All	All
Hardware	Amd	Ryzen Threadripper 2970wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper 2970wx Firmware	-	All	All	All
Hardware	Amd	Ryzen Threadripper 2990wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper 2990wx Firmware	-	All	All	All
Hardware	Amd	Ryzen Threadripper 3970x	-	All	All	All
Operating System	Amd	Ryzen Threadripper 3970x Firmware	-	All	All	All
Hardware	Amd	Ryzen Threadripper Pro 5945wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper Pro 5945wx Firmware	-	All	All	All
Hardware	Amd	Ryzen Threadripper Pro 5955wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper Pro 5955wx Firmware	-	All	All	All
Hardware	Amd	Ryzen Threadripper Pro 5965wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper Pro 5965wx Firmware	-	All	All	All
Hardware	Amd	Ryzen Threadripper Pro 5975wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper Pro 5975wx Firmware	-	All	All	All
Hardware	Amd	Ryzen Threadripper Pro 5995wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper Pro 5995wx Firmware	-	All	All	All

References

Reference	Source	Link	Tags
oss-security - Xen Security Advisory 398 v2 - Multiple speculative security issues	MLIST	www.openwall.com	
www.amd.com/en/corporate/product-security/bulletin/amd-sb-1026	MISC	www.amd.com	
CVE Program record	CVE.ORG	www.cve.org	canonical
NVD vulnerability detail	NVD	nvd.nist.gov	canonical, analysis

No vendor comments have been submitted for this CVE.

Legacy QID Mappings

[159686](#) Oracle Enterprise Linux Security Update for unbreakable enterprise kernel-container (ELSA-2022-9200)

[159688](#) Oracle Enterprise Linux Security Update for unbreakable enterprise kernel (ELSA-2022-9198)

[159690](#) Oracle Enterprise Linux Security Update for unbreakable enterprise kernel (ELSA-2022-9199)

[159689](#) Oracle Enterprise Linux Security Update for unbreakable enterprise kernel (ELSA-2022-9199)

[159691](#) Oracle Enterprise Linux Security Update for unbreakable enterprise kernel-container (ELSA-2022-9201)

[159754](#) Oracle Enterprise Linux Security Update for unbreakable enterprise kernel-container (ELSA-2022-9274)

[159755](#) Oracle Enterprise Linux Security Update for unbreakable enterprise kernel (ELSA-2022-9273)

[160583](#) Oracle Enterprise Linux Security Update for kernel (ELSA-2023-2458)

[160692](#) Oracle Enterprise Linux Security Update for kernel (ELSA-2023-2951)

[241417](#) Red Hat Update for kernel security (RHSA-2023:2458)

[241468](#) Red Hat Update for kernel-rt (RHSA-2023:2148)

[241504](#) Red Hat Update for kernel security (RHSA-2023:2951)

[241527](#) Red Hat Update for kernel-rt (RHSA-2023:2736)

[354279](#) Amazon Linux Security Advisory for kernel : ALAS2022-2022-039

[354468](#) Amazon Linux Security Advisory for kernel : ALAS2022-2022-185

[354542](#) Amazon Linux Security Advisory for kernel : ALAS-2022-185

[355199](#) Amazon Linux Security Advisory for kernel : ALAS2023-2023-070

[752354](#) SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:2393-1)

[752359](#) SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:2411-1)

[752360](#) SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:2407-1)

[752363](#) SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:2423-1)

[752364](#) SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:2422-1)

[752370](#) SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:2520-1)

[752391](#) SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:2549-1)

[752453](#) SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:2723-1)

[752463](#) SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:2809-1)

[752464](#) SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:2808-1)

[753148](#) SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:2615-1)

[753271](#) SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:2424-1)

[753362](#) SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:2376-1)

[753703](#) SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:0416-1)

753707 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:0416-1)
753727 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:0416-1)
941023 AlmaLinux Security Update for kernel (ALSA-2023:2458)
941061 AlmaLinux Security Update for kernel-rt (ALSA-2023:2148)
941096 AlmaLinux Security Update for kernel (ALSA-2023:2951)
941114 AlmaLinux Security Update for kernel-rt (ALSA-2023:2736)

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