



CVE-2022-21136

[MITRE](#)[NVD](#)[CVE.ORG](#)[Print: PDF](#)

Summary

CVE	CVE-2022-21136
State	PUBLIC
Assigner	secure@intel.com
Source Priority	CVE Program / NVD first with legacy fallback
Published	2022-05-12 17:15:00 UTC
Updated	2022-05-23 18:53:00 UTC
Description	Improper input validation for some Intel(R) Xeon(R) Processors may allow a privileged user to potentially enable denial of s

Risk And Classification

Problem Types: CWE-20

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Hardware	Intel	Core I9-7900x	-	All	All	All
Operating System	Intel	Core I9-7900x Firmware	-	All	All	All
Hardware	Intel	Core I9-7920x	-	All	All	All
Operating System	Intel	Core I9-7920x Firmware	-	All	All	All
Hardware	Intel	Core I9-7940x	-	All	All	All
Operating System	Intel	Core I9-7940x Firmware	-	All	All	All
Hardware	Intel	Core I9-7960x	-	All	All	All
Operating System	Intel	Core I9-7960x Firmware	-	All	All	All
Hardware	Intel	Core I9-7980xe	-	All	All	All
Operating System	Intel	Core I9-7980xe Firmware	-	All	All	All
Hardware	Intel	Xeon Bronze 3104	-	All	All	All
Operating System	Intel	Xeon Bronze 3104 Firmware	-	All	All	All
Hardware	Intel	Xeon Bronze 3106	-	All	All	All
Operating System	Intel	Xeon Bronze 3106 Firmware	-	All	All	All
Hardware	Intel	Xeon Bronze 3204	-	All	All	All
Operating System	Intel	Xeon Bronze 3204 Firmware	-	All	All	All
Hardware	Intel	Xeon Bronze 3206r	-	All	All	All

Operating System	Intel	Xeon Bronze 3206r Firmware	-	All	All	All
Hardware	Intel	Xeon D-2123it	-	All	All	All
Operating System	Intel	Xeon D-2123it Firmware	-	All	All	All
Hardware	Intel	Xeon D-2141i	-	All	All	All
Operating System	Intel	Xeon D-2141i Firmware	-	All	All	All
Hardware	Intel	Xeon D-2142it	-	All	All	All
Operating System	Intel	Xeon D-2142it Firmware	-	All	All	All
Hardware	Intel	Xeon D-2143it	-	All	All	All
Operating System	Intel	Xeon D-2143it Firmware	-	All	All	All
Hardware	Intel	Xeon D-2145nt	-	All	All	All
Operating System	Intel	Xeon D-2145nt Firmware	-	All	All	All
Hardware	Intel	Xeon D-2146nt	-	All	All	All
Operating System	Intel	Xeon D-2146nt Firmware	-	All	All	All
Hardware	Intel	Xeon D-2161i	-	All	All	All
Operating System	Intel	Xeon D-2161i Firmware	-	All	All	All
Hardware	Intel	Xeon D-2163it	-	All	All	All
Operating System	Intel	Xeon D-2163it Firmware	-	All	All	All
Hardware	Intel	Xeon D-2166nt	-	All	All	All
Operating System	Intel	Xeon D-2166nt Firmware	-	All	All	All
Hardware	Intel	Xeon D-2173it	-	All	All	All
Operating System	Intel	Xeon D-2173it Firmware	-	All	All	All
Hardware	Intel	Xeon D-2177nt	-	All	All	All
Operating System	Intel	Xeon D-2177nt Firmware	-	All	All	All
Hardware	Intel	Xeon D-2183it	-	All	All	All
Operating System	Intel	Xeon D-2183it Firmware	-	All	All	All
Hardware	Intel	Xeon D-2187nt	-	All	All	All
Operating System	Intel	Xeon D-2187nt Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 5115	-	All	All	All
Operating System	Intel	Xeon Gold 5115 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 5118	-	All	All	All
Operating System	Intel	Xeon Gold 5118 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 5119t	-	All	All	All
Operating System	Intel	Xeon Gold 5119t Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 5120	-	All	All	All
Hardware	Intel	Xeon Gold 5120t	-	All	All	All

Operating System	Intel	Xeon Gold 5120t Firmware	-	All	All	All
Operating System	Intel	Xeon Gold 5120 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 5122	-	All	All	All
Operating System	Intel	Xeon Gold 5122 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 5215	-	All	All	All
Hardware	Intel	Xeon Gold 5215l	-	All	All	All
Operating System	Intel	Xeon Gold 5215l Firmware	-	All	All	All
Operating System	Intel	Xeon Gold 5215 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 5217	-	All	All	All
Operating System	Intel	Xeon Gold 5217 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 5218	-	All	All	All
Hardware	Intel	Xeon Gold 5218b	-	All	All	All
Operating System	Intel	Xeon Gold 5218b Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 5218n	-	All	All	All
Operating System	Intel	Xeon Gold 5218n Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 5218r	-	All	All	All
Operating System	Intel	Xeon Gold 5218r Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 5218t	-	All	All	All
Operating System	Intel	Xeon Gold 5218t Firmware	-	All	All	All
Operating System	Intel	Xeon Gold 5218 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 5220	-	All	All	All
Hardware	Intel	Xeon Gold 5220r	-	All	All	All
Operating System	Intel	Xeon Gold 5220r Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 5220s	-	All	All	All
Operating System	Intel	Xeon Gold 5220s Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 5220t	-	All	All	All
Operating System	Intel	Xeon Gold 5220t Firmware	-	All	All	All
Operating System	Intel	Xeon Gold 5220 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 5222	-	All	All	All
Operating System	Intel	Xeon Gold 5222 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6126	-	All	All	All
Hardware	Intel	Xeon Gold 6126f	-	All	All	All
Operating System	Intel	Xeon Gold 6126f Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6126t	-	All	All	All
Operating System	Intel	Xeon Gold 6126t Firmware	-	All	All	All

Operating System	Intel	Xeon Gold 6126 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6128	-	All	All	All
Operating System	Intel	Xeon Gold 6128 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6130	-	All	All	All
Hardware	Intel	Xeon Gold 6130f	-	All	All	All
Operating System	Intel	Xeon Gold 6130f Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6130t	-	All	All	All
Operating System	Intel	Xeon Gold 6130t Firmware	-	All	All	All
Operating System	Intel	Xeon Gold 6130 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6132	-	All	All	All
Operating System	Intel	Xeon Gold 6132 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6134	-	All	All	All
Operating System	Intel	Xeon Gold 6134 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6136	-	All	All	All
Operating System	Intel	Xeon Gold 6136 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6138	-	All	All	All
Hardware	Intel	Xeon Gold 6138f	-	All	All	All
Operating System	Intel	Xeon Gold 6138f Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6138p	-	All	All	All
Operating System	Intel	Xeon Gold 6138p Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6138t	-	All	All	All
Operating System	Intel	Xeon Gold 6138t Firmware	-	All	All	All
Operating System	Intel	Xeon Gold 6138 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6140	-	All	All	All
Operating System	Intel	Xeon Gold 6140 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6142	-	All	All	All
Hardware	Intel	Xeon Gold 6142f	-	All	All	All
Operating System	Intel	Xeon Gold 6142f Firmware	-	All	All	All
Operating System	Intel	Xeon Gold 6142 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6144	-	All	All	All
Operating System	Intel	Xeon Gold 6144 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6146	-	All	All	All
Operating System	Intel	Xeon Gold 6146 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6148	-	All	All	All
Hardware	Intel	Xeon Gold 6148f	-	All	All	All
Operating System	Intel	Xeon Gold 6148f Firmware	-	All	All	All

Operating System	Intel	Xeon Gold 6148 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6150	-	All	All	All
Operating System	Intel	Xeon Gold 6150 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6152	-	All	All	All
Operating System	Intel	Xeon Gold 6152 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6154	-	All	All	All
Operating System	Intel	Xeon Gold 6154 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6208u	-	All	All	All
Operating System	Intel	Xeon Gold 6208u Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6209u	-	All	All	All
Operating System	Intel	Xeon Gold 6209u Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6210u	-	All	All	All
Operating System	Intel	Xeon Gold 6210u Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6212u	-	All	All	All
Operating System	Intel	Xeon Gold 6212u Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6222v	-	All	All	All
Operating System	Intel	Xeon Gold 6222v Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6226	-	All	All	All
Hardware	Intel	Xeon Gold 6226r	-	All	All	All
Operating System	Intel	Xeon Gold 6226r Firmware	-	All	All	All
Operating System	Intel	Xeon Gold 6226 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6230	-	All	All	All
Hardware	Intel	Xeon Gold 6230n	-	All	All	All
Operating System	Intel	Xeon Gold 6230n Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6230r	-	All	All	All
Operating System	Intel	Xeon Gold 6230r Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6230t	-	All	All	All
Operating System	Intel	Xeon Gold 6230t Firmware	-	All	All	All
Operating System	Intel	Xeon Gold 6230 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6234	-	All	All	All
Operating System	Intel	Xeon Gold 6234 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6238	-	All	All	All
Hardware	Intel	Xeon Gold 6238l	-	All	All	All
Operating System	Intel	Xeon Gold 6238l Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6238r	-	All	All	All

Operating System	Intel	Xeon Gold 6238r Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6238t	-	All	All	All
Operating System	Intel	Xeon Gold 6238t Firmware	-	All	All	All
Operating System	Intel	Xeon Gold 6238 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6240	-	All	All	All
Hardware	Intel	Xeon Gold 6240l	-	All	All	All
Operating System	Intel	Xeon Gold 6240l Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6240r	-	All	All	All
Operating System	Intel	Xeon Gold 6240r Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6240y	-	All	All	All
Operating System	Intel	Xeon Gold 6240y Firmware	-	All	All	All
Operating System	Intel	Xeon Gold 6240 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6242	-	All	All	All
Hardware	Intel	Xeon Gold 6242r	-	All	All	All
Operating System	Intel	Xeon Gold 6242r Firmware	-	All	All	All
Operating System	Intel	Xeon Gold 6242 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6244	-	All	All	All
Operating System	Intel	Xeon Gold 6244 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6246	-	All	All	All
Hardware	Intel	Xeon Gold 6246r	-	All	All	All
Operating System	Intel	Xeon Gold 6246r Firmware	-	All	All	All
Operating System	Intel	Xeon Gold 6246 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6248	-	All	All	All
Hardware	Intel	Xeon Gold 6248r	-	All	All	All
Operating System	Intel	Xeon Gold 6248r Firmware	-	All	All	All
Operating System	Intel	Xeon Gold 6248 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6250	-	All	All	All
Hardware	Intel	Xeon Gold 6250l	-	All	All	All
Operating System	Intel	Xeon Gold 6250l Firmware	-	All	All	All
Operating System	Intel	Xeon Gold 6250 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6252	-	All	All	All
Hardware	Intel	Xeon Gold 6252n	-	All	All	All
Operating System	Intel	Xeon Gold 6252n Firmware	-	All	All	All
Operating System	Intel	Xeon Gold 6252 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6254	-	All	All	All
Operating System	Intel	Xeon Gold 6254 Firmware	-	All	All	All

Operating System	Intel	Xeon Gold 6254 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6256	-	All	All	All
Operating System	Intel	Xeon Gold 6256 Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6258r	-	All	All	All
Operating System	Intel	Xeon Gold 6258r Firmware	-	All	All	All
Hardware	Intel	Xeon Gold 6262v	-	All	All	All
Operating System	Intel	Xeon Gold 6262v Firmware	-	All	All	All
Hardware	Intel	Xeon Platinum 8153	-	All	All	All
Operating System	Intel	Xeon Platinum 8153 Firmware	-	All	All	All
Hardware	Intel	Xeon Platinum 8156	-	All	All	All
Operating System	Intel	Xeon Platinum 8156 Firmware	-	All	All	All
Hardware	Intel	Xeon Platinum 8158	-	All	All	All
Operating System	Intel	Xeon Platinum 8158 Firmware	-	All	All	All
Hardware	Intel	Xeon Platinum 8160	-	All	All	All
Hardware	Intel	Xeon Platinum 8160f	-	All	All	All
Operating System	Intel	Xeon Platinum 8160f Firmware	-	All	All	All
Hardware	Intel	Xeon Platinum 8160t	-	All	All	All
Operating System	Intel	Xeon Platinum 8160t Firmware	-	All	All	All
Operating System	Intel	Xeon Platinum 8160 Firmware	-	All	All	All
Hardware	Intel	Xeon Platinum 8164	-	All	All	All
Operating System	Intel	Xeon Platinum 8164 Firmware	-	All	All	All
Hardware	Intel	Xeon Platinum 8168	-	All	All	All
Operating System	Intel	Xeon Platinum 8168 Firmware	-	All	All	All
Hardware	Intel	Xeon Platinum 8170	-	All	All	All
Operating System	Intel	Xeon Platinum 8170 Firmware	-	All	All	All
Hardware	Intel	Xeon Platinum 8176	-	All	All	All
Hardware	Intel	Xeon Platinum 8176f	-	All	All	All
Operating System	Intel	Xeon Platinum 8176f Firmware	-	All	All	All
Operating System	Intel	Xeon Platinum 8176 Firmware	-	All	All	All
Hardware	Intel	Xeon Platinum 8180	-	All	All	All
Operating System	Intel	Xeon Platinum 8180 Firmware	-	All	All	All
Hardware	Intel	Xeon Platinum 8253	-	All	All	All
Operating System	Intel	Xeon Platinum 8253 Firmware	-	All	All	All
Hardware	Intel	Xeon Platinum 8256	-	All	All	All
Operating System	Intel	Xeon Platinum 8256 Firmware	-	All	All	All
Hardware	Intel	Xeon Platinum 8260	-	All	All	All

Hardware	Intel	Xeon Platinum 8260I	-	All	All	All
Operating System	Intel	Xeon Platinum 8260I Firmware	-	All	All	All
Hardware	Intel	Xeon Platinum 8260y	-	All	All	All
Operating System	Intel	Xeon Platinum 8260y Firmware	-	All	All	All
Operating System	Intel	Xeon Platinum 8260 Firmware	-	All	All	All
Hardware	Intel	Xeon Platinum 8268	-	All	All	All
Operating System	Intel	Xeon Platinum 8268 Firmware	-	All	All	All
Hardware	Intel	Xeon Platinum 8270	-	All	All	All
Operating System	Intel	Xeon Platinum 8270 Firmware	-	All	All	All
Hardware	Intel	Xeon Platinum 8276	-	All	All	All
Hardware	Intel	Xeon Platinum 8276I	-	All	All	All
Operating System	Intel	Xeon Platinum 8276I Firmware	-	All	All	All
Operating System	Intel	Xeon Platinum 8276 Firmware	-	All	All	All
Hardware	Intel	Xeon Platinum 8280	-	All	All	All
Hardware	Intel	Xeon Platinum 8280I	-	All	All	All
Operating System	Intel	Xeon Platinum 8280I Firmware	-	All	All	All
Operating System	Intel	Xeon Platinum 8280 Firmware	-	All	All	All
Hardware	Intel	Xeon Platinum 9221	-	All	All	All
Operating System	Intel	Xeon Platinum 9221 Firmware	-	All	All	All
Hardware	Intel	Xeon Platinum 9222	-	All	All	All
Operating System	Intel	Xeon Platinum 9222 Firmware	-	All	All	All
Hardware	Intel	Xeon Platinum 9242	-	All	All	All
Operating System	Intel	Xeon Platinum 9242 Firmware	-	All	All	All
Hardware	Intel	Xeon Platinum 9282	-	All	All	All
Operating System	Intel	Xeon Platinum 9282 Firmware	-	All	All	All
Hardware	Intel	Xeon Silver 4108	-	All	All	All
Operating System	Intel	Xeon Silver 4108 Firmware	-	All	All	All
Hardware	Intel	Xeon Silver 4109t	-	All	All	All
Operating System	Intel	Xeon Silver 4109t Firmware	-	All	All	All
Hardware	Intel	Xeon Silver 4110	-	All	All	All
Operating System	Intel	Xeon Silver 4110 Firmware	-	All	All	All
Hardware	Intel	Xeon Silver 4112	-	All	All	All
Operating System	Intel	Xeon Silver 4112 Firmware	-	All	All	All
Hardware	Intel	Xeon Silver 4114	-	All	All	All
Hardware	Intel	Xeon Silver 4114t	-	All	All	All

Operating System	Intel	Xeon Silver 4114t Firmware	-	All	All	All
Operating System	Intel	Xeon Silver 4114 Firmware	-	All	All	All
Hardware	Intel	Xeon Silver 4116	-	All	All	All
Hardware	Intel	Xeon Silver 4116t	-	All	All	All
Operating System	Intel	Xeon Silver 4116t Firmware	-	All	All	All
Operating System	Intel	Xeon Silver 4116 Firmware	-	All	All	All
Hardware	Intel	Xeon Silver 4208	-	All	All	All
Operating System	Intel	Xeon Silver 4208 Firmware	-	All	All	All
Hardware	Intel	Xeon Silver 4209t	-	All	All	All
Operating System	Intel	Xeon Silver 4209t Firmware	-	All	All	All
Hardware	Intel	Xeon Silver 4210	-	All	All	All
Hardware	Intel	Xeon Silver 4210r	-	All	All	All
Operating System	Intel	Xeon Silver 4210r Firmware	-	All	All	All
Hardware	Intel	Xeon Silver 4210t	-	All	All	All
Operating System	Intel	Xeon Silver 4210t Firmware	-	All	All	All
Operating System	Intel	Xeon Silver 4210 Firmware	-	All	All	All
Hardware	Intel	Xeon Silver 4214	-	All	All	All
Hardware	Intel	Xeon Silver 4214r	-	All	All	All
Operating System	Intel	Xeon Silver 4214r Firmware	-	All	All	All
Hardware	Intel	Xeon Silver 4214y	-	All	All	All
Operating System	Intel	Xeon Silver 4214y Firmware	-	All	All	All
Operating System	Intel	Xeon Silver 4214 Firmware	-	All	All	All
Hardware	Intel	Xeon Silver 4215	-	All	All	All
Hardware	Intel	Xeon Silver 4215r	-	All	All	All
Operating System	Intel	Xeon Silver 4215r Firmware	-	All	All	All
Operating System	Intel	Xeon Silver 4215 Firmware	-	All	All	All
Hardware	Intel	Xeon Silver 4216	-	All	All	All
Operating System	Intel	Xeon Silver 4216 Firmware	-	All	All	All

References

Reference	Source	Link	Tags
INTEL-SA-00616	MISC	www.intel.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

[282674](#) Fedora Security Update for microcode_ctl (FEDORA-2022-9fdae2c607)

[282697](#) Fedora Security Update for microcode_ctl (FEDORA-2022-688cbbf106)

[282734](#) Fedora Security Update for microcode_ctl (FEDORA-2022-e718888c8b)

[354271](#) Amazon Linux Security Advisory for microcode_ctl : ALAS2022-2022-070

[354450](#) Amazon Linux Security Advisory for microcode_ctl : ALAS2022-2022-129

[355120](#) Amazon Linux Security Advisory for microcode_ctl : ALAS2023-2023-055

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