



CVE-2021-3697

[MITRE](#)[NVD](#)[CVE.ORG](#)[Print: PDF !\[\]\(e3f8612927870f2e0f9f5989e6dd3064_img.jpg\)](#)

Summary

CVE	CVE-2021-3697
State	PUBLIC
Assigner	secalert@redhat.com
Source Priority	CVE Program / NVD first with legacy fallback
Published	2022-07-06 16:15:00 UTC
Updated	2023-09-13 16:15:00 UTC
Description	A crafted JPEG image may lead the JPEG reader to underflow its data pointer, allowing user-controlled data to be written in

Risk And Classification

Problem Types: CWE-787

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Ed
Application	Gnu	Grub	All	All	All
Application	Gnu	Grub2	All	All	All
Application	Redhat	Codeready Linux Builder	-	All	All
Application	Redhat	Developer Tools	1.0	All	All
Operating System	Redhat	Enterprise Linux	8.0	All	All
Operating System	Redhat	Enterprise Linux	9.0	All	All
Operating System	Redhat	Enterprise Linux	8.0	All	All
Operating System	Redhat	Enterprise Linux	8.1	All	All
Operating System	Redhat	Enterprise Linux	8.4	All	All
Operating System	Redhat	Enterprise Linux	9.0	All	All
Operating System	Redhat	Enterprise Linux Eus	8.2	All	All
Operating System	Redhat	Enterprise Linux Eus	8.4	All	All
Operating System	Redhat	Enterprise Linux Eus	8.6	All	All
Operating System	Redhat	Enterprise Linux Eus	9.0	All	All
Operating System	Redhat	Enterprise Linux Eus	8.2	All	All
Operating System	Redhat	Enterprise Linux Eus	8.4	All	All
Operating System	Redhat	Enterprise Linux Eus	8.6	All	All

Operating System	Redhat	Enterprise Linux Eus	9.0	All	All
Operating System	Redhat	Enterprise Linux For Power Little Endian	8.0	All	All
Operating System	Redhat	Enterprise Linux For Power Little Endian	9.0	All	All
Operating System	Redhat	Enterprise Linux For Power Little Endian Eus	8.2	All	All
Operating System	Redhat	Enterprise Linux For Power Little Endian Eus	8.4	All	All
Operating System	Redhat	Enterprise Linux For Power Little Endian Eus	8.6	All	All
Operating System	Redhat	Enterprise Linux For Power Little Endian Eus	9.0	All	All
Operating System	Redhat	Enterprise Linux Server Aus	8.2	All	All
Operating System	Redhat	Enterprise Linux Server Aus	8.4	All	All
Operating System	Redhat	Enterprise Linux Server Aus	8.6	All	All
Operating System	Redhat	Enterprise Linux Server For Power Little Endian Update Services For Sap Solutions	8.1	All	All
Operating System	Redhat	Enterprise Linux Server For Power Little Endian Update Services For Sap Solutions	8.2	All	All
Operating System	Redhat	Enterprise Linux Server For Power Little Endian Update Services For Sap Solutions	8.4	All	All
Operating System	Redhat	Enterprise Linux Server For Power Little Endian Update Services For Sap Solutions	8.6	All	All
Operating System	Redhat	Enterprise Linux Server For Power Little Endian Update Services For Sap Solutions	9.0	All	All
Operating System	Redhat	Enterprise Linux Server Tus	8.2	All	All
Operating System	Redhat	Enterprise Linux Server Tus	8.4	All	All
Operating System	Redhat	Enterprise Linux Server Tus	8.6	All	All
Application	Redhat	Openshift	3.0	All	All
Application	Redhat	Openshift Container Platform	4.10	All	All
Application	Redhat	Openshift Container Platform	4.6	All	All
Application	Redhat	Openshift Container Platform	4.9	All	All

References

Reference	Source	Link
1991687 – (CVE-2021-3697) CVE-2021-3697 grub2: Crafted JPEG image can lead to buffer underflow write in the heap	MISC	bugzi
July 2022 Grub Vulnerabilities in NetApp Products NetApp Product Security	CONFIRM	secur
GRUB: Multiple Vulnerabilities (GLSA 202209-12) — Gentoo security	GENTOO	secur
CVE Program record	CVE.ORG	www.
NVD vulnerability detail	NVD	nvd.n

No vendor comments have been submitted for this CVE.

Legacy QID Mappings

159883 Oracle Enterprise Linux Security Update for grub2 (ELSA-2022-9471)

159884 Oracle Enterprise Linux Security Update for grub2 (ELSA-2022-9469)
159943 Oracle Enterprise Linux Security Update for grub2 (ELSA-2022-5099)
159967 Oracle Enterprise Linux Security Update for grub2, mokutil, shim, and shim-unsigned-x64 (ELSA-2022-5095)
159985 Oracle Enterprise Linux Security Update for grub2 (ELSA-2022-9596)
159986 Oracle Enterprise Linux Security Update for grub2 (ELSA-2022-9595)
161027 Oracle Enterprise Linux Security Update for grub2 (ELSA-2023-12952)
181012 Debian Security Update for grub2 (CVE-2021-3697)
240473 Red Hat Update for grub2, mokutil, shim, and shim-unsigned-x64 (RHSA-2022:5100)
240474 Red Hat Update for grub2, mokutil, shim, and shim-unsigned-x64 (RHSA-2022:5099)
240476 Red Hat Update for grub2, mokutil, shim, and shim-unsigned-x64 (RHSA-2022:5096)
240477 Red Hat Update for grub2, mokutil, shim, and shim-unsigned-x64 (RHSA-2022:5095)
282811 Fedora Security Update for grub2 (FEDORA-2022-27932fdd06)
282866 Fedora Security Update for grub2 (FEDORA-2022-9b4f9af4ce)
354332 Amazon Linux Security Advisory for grub2 : ALAS2022-2022-109
354535 Amazon Linux Security Advisory for grub2 : ALAS-2022-109
355137 Amazon Linux Security Advisory for grub2 : ALAS2023-2023-020
355617 Amazon Linux Security Advisory for grub2 : ALAS2-2023-2146
377130 Alibaba Cloud Linux Security Update for grub2, mokutil, shim, and shim-unsigned-x64 (ALINUX3-SA-2022:0134)
377622 Alibaba Cloud Linux Security Update for grub2, mokutil, shim, and shim-unsigned-x64 (ALINUX3-SA-2022:0164)
503017 Alpine Linux Security Update for grub
503110 Alpine Linux Security Update for grub
503684 Alpine Linux Security Update for grub
505876 Alpine Linux Security Update for grub
672021 EulerOS Security Update for grub2 (EulerOS-SA-2022-2242)
672026 EulerOS Security Update for grub2 (EulerOS-SA-2022-2221)
672031 EulerOS Security Update for grub2 (EulerOS-SA-2022-2255)
672109 EulerOS Security Update for grub2 (EulerOS-SA-2022-2318)
672131 EulerOS Security Update for grub2 (EulerOS-SA-2022-2289)

710619 Gentoo Linux GRUB Multiple Vulnerabilities (GLSA 202209-12)
752214 SUSE Enterprise Linux Security Update for grub2 (SUSE-SU-2022:2037-1)
752215 SUSE Enterprise Linux Security Update for grub2 (SUSE-SU-2022:2041-1)
752216 SUSE Enterprise Linux Security Update for grub2 (SUSE-SU-2022:2036-1)
752217 SUSE Enterprise Linux Security Update for grub2 (SUSE-SU-2022:2035-1)
752218 SUSE Enterprise Linux Security Update for grub2 (SUSE-SU-2022:2038-1)
752221 SUSE Enterprise Linux Security Update for grub2 (SUSE-SU-2022:2064-1)
752229 SUSE Enterprise Linux Security Update for grub2 (SUSE-SU-2022:2074-1)
907555 Common Base Linux Mariner (CBL-Mariner) Security Update for grub2 (31036-1)
940639 AlmaLinux Security Update for grub2, (ALSA-2022:5095)
940640 AlmaLinux Security Update for grub2, (ALSA-2022:5099)
960155 Rocky Linux Security Update for grub2, (RLSA-2022:5095)
960538 Rocky Linux Security Update for grub2, (RLSA-2022:5099)

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