



CVE-2021-4048

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

Summary

CVE	CVE-2021-4048
State	PUBLIC
Assigner	secalert@redhat.com
Source Priority	CVE Program / NVD first with legacy fallback
Published	2021-12-08 22:15:00 UTC
Updated	2023-11-07 03:40:00 UTC
Description	An out-of-bounds read flaw was found in the CLARRV, DLARRV, SLARRV, and ZLARRV functions in lapack through versio

Risk And Classification

Problem Types: CWE-125

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Fedoraproject	Fedora	34	All	All	All
Operating System	Fedoraproject	Fedora	35	All	All	All
Application	Julialang	Julia	1.7.0	beta1	All	All
Application	Julialang	Julia	1.7.0	beta2	All	All
Application	Julialang	Julia	1.7.0	beta3	All	All
Application	Julialang	Julia	1.7.0	beta4	All	All
Application	Julialang	Julia	1.7.0	rc1	All	All
Application	Julialang	Julia	All	All	All	All
Application	Lapack Project	Lapack	All	All	All	All
Application	Openblas Project	Openblas	All	All	All	All
Application	Redhat	Ceph Storage	2.0	All	All	All
Application	Redhat	Ceph Storage	3.0	All	All	All
Application	Redhat	Ceph Storage	4.0	All	All	All
Application	Redhat	Ceph Storage	5.0	All	All	All
Operating System	Redhat	Enterprise Linux	8.0	All	All	All
Application	Redhat	Openshift Container Storage	4.0	All	All	All
Application	Redhat	Openshift Data Foundation	4.0	All	All	All

References

Reference	Source	Link
[SECURITY] Fedora 34 Update: lapack-3.9.0-7.fc34 - package-announce - Fedora Mailing-Lists		lists.fedoraproject.org
stegr! call segfault · Issue #42415 · JuliaLang/julia · GitHub	MISC	github.com
Fix out of bounds read in ?llarv (Reference-LAPACK PR 625) · xianyi/OpenBLAS@337b651 · GitHub	MISC	github.com
[SECURITY] Fedora 35 Update: lapack-3.10.0-4.fc35 - package-announce - Fedora Mailing-Lists		lists.fedoraproject.org
Fix out of bounds read in slarrv by Keno · Pull Request #625 · Reference-LAPACK/lapack · GitHub	MISC	github.com
[SECURITY] Fedora 35 Update: lapack-3.10.0-4.fc35 - package-announce - Fedora Mailing-Lists	FEDORA	lists.fedoraproject.org
Merge pull request #625 from JuliaComputing/kf/slarrvbounds · Reference-LAPACK/lapack@38f3eee · GitHub	MISC	github.com
2024358 – (CVE-2021-4048) CVE-2021-4048 lapack: Out-of-bounds read in *larrv	MISC	bugzilla.redhat.com
[SECURITY] Fedora 34 Update: lapack-3.9.0-7.fc34 - package-announce - Fedora Mailing-Lists	FEDORA	lists.fedoraproject.org
Fix out of bounds read in ?llarv (Reference-LAPACK PR 625) · xianyi/OpenBLAS@ddb0ff5 · GitHub	MISC	github.com
Fix out of bounds read in ?llarv (Reference-LAPACK PR 625) · xianyi/OpenBLAS@fe497ef · GitHub	MISC	github.com
Fix out of bounds read in ?llarv (Reference-LAPACK PR 625) · xianyi/OpenBLAS@2be5ee3 · GitHub	MISC	github.com
CVE Program record	CVE.ORG	www.cve.org
NVD vulnerability detail	NVD	nvd.nist.gov

No vendor comments have been submitted for this CVE.

Legacy QID Mappings

[160230](#) Oracle Enterprise Linux Security Update for openblas (ELSA-2022-7639)

[184201](#) Debian Security Update for lapackopenblas (CVE-2021-4048)

[20270](#) Oracle Database 21c Critical Patch Update - October 2022

[240844](#) Red Hat Update for openblas (RHSA-2022:7639)

[282174](#) Fedora Security Update for lapack (FEDORA-2021-0d4b58060d)

[282175](#) Fedora Security Update for lapack (FEDORA-2021-aec9d01057)

[354376](#) Amazon Linux Security Advisory for lapack : ALAS2022-2022-173

[354484](#) Amazon Linux Security Advisory for lapack : ALAS2022-2022-029

[357019](#) Amazon Linux Security Advisory for openblas : ALAS2R4-2023-001

[671358](#) EulerOS Security Update for lapack (EulerOS-SA-2022-1272)

[671363](#) EulerOS Security Update for lapack (EulerOS-SA-2022-1299)

[671369](#) EulerOS Security Update for openblas (EulerOS-SA-2022-1316)

671000 EulerOS Security Update for openblas (EulerOS-SA-2022-1315)
671385 EulerOS Security Update for lapack (EulerOS-SA-2022-1315)
671386 EulerOS Security Update for openblas (EulerOS-SA-2022-1300)
671499 EulerOS Security Update for lapack (EulerOS-SA-2022-1476)
671525 EulerOS Security Update for lapack (EulerOS-SA-2022-1467)
671530 EulerOS Security Update for openblas (EulerOS-SA-2022-1469)
671534 EulerOS Security Update for openblas (EulerOS-SA-2022-1478)
671690 EulerOS Security Update for lapack (EulerOS-SA-2022-1736)
751906 SUSE Enterprise Linux Security Update for lapack (SUSE-SU-2022:0913-1)
751914 OpenSUSE Security Update for lapack (openSUSE-SU-2022:0915-1)
751990 SUSE Enterprise Linux Security Update for lapack (SUSE-SU-2022:0915-1)
900340 Common Base Linux Mariner (CBL-Mariner) Security Update for lapack (6300)
901171 Common Base Linux Mariner (CBL-Mariner) Security Update for lapack (6609-1)
901980 Common Base Linux Mariner (CBL-Mariner) Security Update for openblas (7315)
904153 Common Base Linux Mariner (CBL-Mariner) Security Update for openblas (7315-1)
940752 AlmaLinux Security Update for openblas (ALSA-2022:7639)
960398 Rocky Linux Security Update for openblas (RLSA-2022:7639)

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