Flat Assembler 1.71.21 Stack-Based Buffer Overflow ROP

MITRE | NVD | CVE.ORG | JSON API | Print: PDF

Summary

CVE	CVE-2017-20228
State	PUBLISHED
Assigner	VulnCheck
Source Priority	CVE Program / NVD first with legacy fallback
Published	2026-03-28 12:16:02 UTC
Updated	2026-04-02 19:20:02 UTC
Description	Flat Assembler 1.71.21 contains a stack-based buffer overflow vulnerability that allows local attackers to execute arbitrary c

Risk And Classification

Primary CVSS: v4.0 8.6 HIGH from disclosure@vulncheck.com

CVSS:4.0/AV:L/AC:L/AT:N/PR:N/UI:N/VC:H/VI:H/VA:H/SC:N/SI:N/SA:N/E:X/CR:X/IR:X/AR:X/MAV:X/MAC:X/MAT:X/MPR:X/MUI:X/MVC:X/MVI:X/MVA:X/MSC:X/MSI:X/MSA:X/S:X/AU:X/R:X/V:X/RE:X/U:X

EPSS: 0.000190000 probability, percentile 0.049800000 (date 2026-04-07)

Problem Types: CWE-787 | CWE-787 Out-of-bounds Write

Version	Source	Type	Score	Severity	Vector
4.0	disclosure@vulncheck.com	Secondary	8.6	HIGH	CVSS:4.0/AV:L/AC:L/AT:N/PR:N/UI:N/VC:H/VI:H/VA:H/SC:N/SI:N/SA
4.0	CNA	CVSS	8.6	HIGH	CVSS:4.0/AV:L/AC:L/AT:N/PR:N/UI:N/VC:H/VI:H/VA:H/SC:N/SI:N/SA
3.1	nvd@nist.gov	Primary	7.8	HIGH	CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H
3.1	disclosure@vulncheck.com	Secondary	8.4	HIGH	CVSS:3.1/AV:L/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H
3.1	CNA	CVSS	8.4	HIGH	CVSS:3.1/AV:L/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H

CVSS v4.0 Breakdown

Attack Vector

Local

Attack Complexity

Low

Attack Requirements

None

Privileges Required

Privileges Required

None

User Interaction

None

Confidentiality

High

Integrity

High

Availability

High

Sub Conf.

None

Sub Integrity

None

Sub Availability

None

CVSS:4.0/AV:L/AC:L/AT:N/PR:N/UI:N/VC:H/VI:H/VA:H/SC:N/SI:N/SA:N/E:X/CR:X/IR:X/AR:X/MAV:X/MAC:X/MAT:X/MPR:X/MUI:X/MVC:X/MVI:X/MVA:X/MSC:X/MSI:X/MSA:X/S:X/AU:X/R:X/V:X/RE:X/U:X

CVSS v3.1 Breakdown

Attack Vector

Local

Attack Complexity

Low

Privileges Required

Low

User Interaction

None

Scope

Unchanged

Confidentiality

High

Integrity

High

Availability

High

CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Flatassembler	Flat Assembler	All	All	All	All

Vendor Declared Affected Products

Vendor Declared Affected Products

Source	Vendor	Product	Version	Platforms
CNA	Flatassembler	Flat Assembler	affected 1.71.21	Not specified

References

Reference	Source	Link	Tags
www.flatassembler.net	disclosure@vulncheck.com	www.flatassembler.net	Prod
www.exploit-db.com/exploits/42265	disclosure@vulncheck.com	www.exploit-db.com	Explo
www.vulncheck.com/advisories/flat-assembler-stack-based-buffer-overflow-rop	disclosure@vulncheck.com	www.vulncheck.com	Third
CVE Program record	CVE.ORG	www.cve.org	cano
NVD vulnerability detail	NVD	nvd.nist.gov	cano

Vendor Comments And Credit

Discovery Credit

CNA: Juan Sacco <juan.sacco@kpn.com> at KPN Red Team - http://www.kpn.com (en)

There are currently no legacy QID mappings associated with this CVE.