



# mruby JMPNOT-to-JMPIF Optimization vm.c

## mruby\_vm\_exec use after free

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

### Summary

|                        |                                                                                                                              |
|------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>CVE</b>             | CVE-2026-1979                                                                                                                |
| <b>State</b>           | PUBLISHED                                                                                                                    |
| <b>Assigner</b>        | VulDB                                                                                                                        |
| <b>Source Priority</b> | CVE Program / NVD first with legacy fallback                                                                                 |
| <b>Published</b>       | 2026-02-06 05:16:12 UTC                                                                                                      |
| <b>Updated</b>         | 2026-04-29 01:00:01 UTC                                                                                                      |
| <b>Description</b>     | A flaw has been found in mruby up to 3.4.0. This affects the function mruby_vm_exec of the file src/vm.c of the component JM |

### Risk And Classification

**Primary CVSS:** v4.0 1.9 LOW from cna@vulldb.com

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

**Problem Types:** CWE-119 | CWE-416 | CWE-416 Use After Free | CWE-119 Memory Corruption

| Version | Source         | Type      | Score | Severity | Vector                                                                   |
|---------|----------------|-----------|-------|----------|--------------------------------------------------------------------------|
| 4.0     | cna@vulldb.com | Secondary | 1.9   | LOW      | CVSS:4.0/AV:L/AC:L/AT:N/PR:L/UI:N/VC:L/VI:L/VA:L/SC:N/SI:N/SA:N/E:P/C... |
| 4.0     | CNA            | DECLARED  | 4.8   | MEDIUM   | CVSS:4.0/AV:L/AC:L/AT:N/PR:L/UI:N/VC:L/VI:L/VA:L/SC:N/SI:N/SA:N/E:P      |
| 3.1     | nvd@nist.gov   | Primary   | 5.5   | MEDIUM   | CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H                             |
| 3.1     | cna@vulldb.com | Secondary | 5.3   | MEDIUM   | CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:L/I:L/A:L                             |
| 3.1     | CNA            | DECLARED  | 5.3   | MEDIUM   | CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:L/I:L/A:L/E:P/RL:O/RC:C               |
| 3.0     | CNA            | DECLARED  | 5.3   | MEDIUM   | CVSS:3.0/AV:L/AC:L/PR:L/UI:N/S:U/C:L/I:L/A:L/E:P/RL:O/RC:C               |
| 2.0     | cna@vulldb.com | Secondary | 4.3   |          | AV:L/AC:L/Au:S/C:P/I:P/A:P                                               |
| 2.0     | CNA            | DECLARED  | 4.3   |          | AV:L/AC:L/Au:S/C:P/I:P/A:P/E:POC/RL:OF/RC:C                              |

### CVSS v4.0 Breakdown

Attack Vector

Local

Attack Complexity

Low

Attack Requirements

None

Privileges Required

Low

User Interaction

None

Confidentiality

Low

Integrity

Low

Availability

Low

Sub Conf.

None

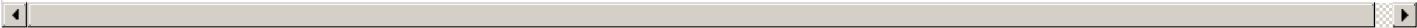
Sub Integrity

None

Sub Availability

None

CVSS:4.0/AV:L/AC:L/AT:N/PR:L/UI:N/VC:L/VI:L/VA:L/SC:N/SI:N/SA:N/E:P/CR:X/IR:X/AR:X/MAV:X/MAC:X/MAT:X/MPR:X/MUI:X/MVC:X/MVI:X/MVA:X/MSX: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

None

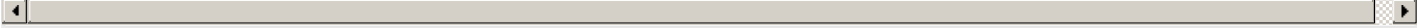
Integrity

None

Availability

High

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



CVSS v3.0 Breakdown

Attack Vector

Attack Vector

Local

Attack Complexity

Low

Privileges Required

Low

User Interaction

None

Scope

Unchanged

Confidentiality

Low

Integrity

Low

Availability

Low

CVSS:3.0/AV:L/AC:L/PR:L/UI:N/S:U/C:L/I:L/A:L/E:P/RL:O/RC:C



NVD Known Affected Configurations (CPE 2.3)

| Type        | Vendor | Product | Version | Update | Edition | Language |
|-------------|--------|---------|---------|--------|---------|----------|
| Application | Mruby  | Mruby   | All     | All    | All     | All      |

Vendor Declared Affected Products

| Source | Vendor | Product | Version        | Platforms     |
|--------|--------|---------|----------------|---------------|
| CNA    | Na     | Mruby   | affected 3.0   | Not specified |
| CNA    | Na     | Mruby   | affected 3.1   | Not specified |
| CNA    | Na     | Mruby   | affected 3.2   | Not specified |
| CNA    | Na     | Mruby   | affected 3.3   | Not specified |
| CNA    | Na     | Mruby   | affected 3.4.0 | Not specified |

References

| Reference                                                                | Source        | Link        | Tags                                |
|--------------------------------------------------------------------------|---------------|-------------|-------------------------------------|
| github.com/mruby/mruby/issues/6701                                       | cna@vuldb.com | github.com  | Exploit, Issue Tracking             |
| github.com/mruby/mruby                                                   | cna@vuldb.com | github.com  | Product                             |
| github.com/mruby/mruby/issues/6701                                       | cna@vuldb.com | github.com  | Exploit, Issue Tracking             |
| github.com/sysfce2/mruby/commit/e50f15c1c6e131fa7934355eb02b8173b13df415 | cna@vuldb.com | github.com  | Patch                               |
| vuldb.com                                                                | cna@vuldb.com | vuldb.com   | Third Party Advisory, Vulnerability |
| vuldb.com                                                                | cna@vuldb.com | vuldb.com   | Third Party Advisory, Vulnerability |
| vuldb.com                                                                | cna@vuldb.com | vuldb.com   | Permissions Required                |
| CVE Program record                                                       | CVE ORG       | www.cve.org | canonical                           |

CVE Program Record

CVE-2026-0000

[www.cve.org](#)

canonical

NVD vulnerability detail

NVD

[nvd.nist.gov](#)

canonical, analysis

Vendor Comments And Credit

Discovery Credit

CNA: Oneafter (VulDB User) (en)

Additional Advisory Data

| Source | Time                     | Event                   |
|--------|--------------------------|-------------------------|
| CNA    | 2026-02-05T00:00:00.000Z | Advisory disclosed      |
| CNA    | 2026-02-05T01:00:00.000Z | VulDB entry created     |
| CNA    | 2026-02-07T13:18:56.000Z | VulDB entry last update |

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

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