



# CVE-2011-2686

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

## Summary

|                 |                                                                                                                         |
|-----------------|-------------------------------------------------------------------------------------------------------------------------|
| CVE             | CVE-2011-2686                                                                                                           |
| State           | PUBLISHED                                                                                                               |
| Assigner        | redhat                                                                                                                  |
| Source Priority | CVE Program / NVD first with legacy fallback                                                                            |
| Published       | 2011-08-05 21:55:04 UTC                                                                                                 |
| Updated         | 2026-04-29 01:13:23 UTC                                                                                                 |
| Description     | Ruby before 1.8.7-p352 does not reset the random seed upon forking, which makes it easier for context-dependent attacks |

## Risk And Classification

**Primary CVSS:** v2.0 5 from nvd@nist.gov

AV:N/AC:L/Au:N/C:P/I:N/A:N

**Problem Types:** CWE-310 | n/a

## CVSS v2.0 Breakdown

Access Vector

Network

Access Complexity

Low

Authentication

None

Confidentiality

Partial

Integrity

None

Availability

None

AV:N/AC:L/Au:N/C:P/I:N/A:N

## NVD Known Affected Configurations (CPE 2.3)

| Type        | Vendor    | Product | Version | Update | Edition | Language |
|-------------|-----------|---------|---------|--------|---------|----------|
| Application | Ruby-lang | Ruby    | 1.8.7   | p22    | All     | All      |

|             |                           |                      |           |     |     |     |
|-------------|---------------------------|----------------------|-----------|-----|-----|-----|
| Application | <a href="#">Ruby-lang</a> | <a href="#">Ruby</a> | 1.8.7     | p71 | All | All |
| Application | <a href="#">Ruby-lang</a> | <a href="#">Ruby</a> | 1.8.7     | p72 | All | All |
| Application | <a href="#">Ruby-lang</a> | <a href="#">Ruby</a> | 1.8.7-160 | All | All | All |
| Application | <a href="#">Ruby-lang</a> | <a href="#">Ruby</a> | 1.8.7-173 | All | All | All |
| Application | <a href="#">Ruby-lang</a> | <a href="#">Ruby</a> | 1.8.7-248 | All | All | All |
| Application | <a href="#">Ruby-lang</a> | <a href="#">Ruby</a> | 1.8.7-249 | All | All | All |
| Application | <a href="#">Ruby-lang</a> | <a href="#">Ruby</a> | 1.8.7-299 | All | All | All |
| Application | <a href="#">Ruby-lang</a> | <a href="#">Ruby</a> | 1.8.7-302 | All | All | All |
| Application | <a href="#">Ruby-lang</a> | <a href="#">Ruby</a> | 1.8.7-330 | All | All | All |
| Application | <a href="#">Ruby-lang</a> | <a href="#">Ruby</a> | 1.8.7-p21 | All | All | All |
| Application | <a href="#">Ruby-lang</a> | <a href="#">Ruby</a> | All       | All | All | All |

| Vendor Declared Affected Products |                    |                     |              |               |  |  |
|-----------------------------------|--------------------|---------------------|--------------|---------------|--|--|
| Source                            | Vendor             | Product             | Version      | Platforms     |  |  |
| CNA                               | <a href="#">Na</a> | <a href="#">N/a</a> | affected n/a | Not specified |  |  |

| References                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Reference</b>                                                                                                                 |
| oss-security - CVE Request: ruby PRNG fixes                                                                                      |
| [ruby] Revision 31713                                                                                                            |
| svn.ruby-lang.org/repos/ruby/tags/v1_8_7_352/ChangeLog                                                                           |
| oss-security - Re: CVE Request: ruby PRNG fixes                                                                                  |
| oss-security - Re: CVE Request: ruby PRNG fixes                                                                                  |
| Ruby 1.8.7-p352 released                                                                                                         |
| oss-security - Re: CVE Request: ruby PRNG fixes                                                                                  |
| IBM X-Force Exchange                                                                                                             |
| [SECURITY] Fedora 15 Update: ruby-1.8.7.352-1.fc15                                                                               |
| Ruby Random Number Generation Local Denial Of Service Vulnerability                                                              |
| 722415 – (CVE-2011-2686, CVE-2011-2705, CVE-2011-3009) CVE-2011-2686 CVE-2011-2705 CVE-2011-3009 ruby: Properly initialize the r |
| [SECURITY] Fedora 14 Update: ruby-1.8.7.352-1.fc14                                                                               |
| Redmine 404 error                                                                                                                |
| CVE Program record                                                                                                               |
| NVD vulnerability detail                                                                                                         |
| ◀ <div></div> ▶                                                                                                                  |

No vendor comments have been submitted for this CVE.

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

© [CVE.report](#) 2026 |

Use of this information constitutes acceptance for use in an AS IS condition. There are NO warranties, implied or otherwise, with regard to this information or its use. Any use of this information is at the user's risk. It is the responsibility of user to evaluate the accuracy, completeness or usefulness of any information, opinion, advice or other content. EACH USER WILL BE SOLELY RESPONSIBLE FOR ANY consequences of his or her direct or indirect use of this web site. ALL WARRANTIES OF ANY KIND ARE EXPRESSLY DISCLAIMED. This site will NOT BE LIABLE FOR ANY DIRECT, INDIRECT or any other kind of loss.

CVE, CWE, and OVAL are registered trademarks of [The MITRE Corporation](#) and the authoritative source of CVE content is [MITRE's CVE web site](#). This site includes MITRE data granted under the following [license](#).

**Free CVE JSON API** [cve.report/api](#)

**CVE.report and Source URL Uptime Status** [status.cve.report](#)