



# CVE-2010-4163

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

## Summary

|                 |                                                                                                                                                                                                                                                                  |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CVE             | CVE-2010-4163                                                                                                                                                                                                                                                    |
| State           | PUBLISHED                                                                                                                                                                                                                                                        |
| Assigner        | redhat                                                                                                                                                                                                                                                           |
| Source Priority | CVE Program / NVD first with legacy fallback                                                                                                                                                                                                                     |
| Published       | 2011-01-03 20:00:42 UTC                                                                                                                                                                                                                                          |
| Updated         | 2026-04-29 01:13:23 UTC                                                                                                                                                                                                                                          |
| Description     | The blk_rq_map_user_iov function in block/blk-map.c in the Linux kernel before 2.6.36.2 allows local users to cause a denial of service (kernel panic) by triggering a race condition between the blk_rq_map_user_iov function and the blk_rq_map_user function. |

## Risk And Classification

**Primary CVSS:** v2.0 4.7 from nvd@nist.gov

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

**Problem Types:** CWE-20 | n/a

## CVSS v2.0 Breakdown

Access Vector

Local

Access Complexity

Medium

Authentication

None

Confidentiality

None

Integrity

None

Availability

Complete

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

## NVD Known Affected Configurations (CPE 2.3)

| Type             | Vendor | Product      | Version | Update | Edition | Language |
|------------------|--------|--------------|---------|--------|---------|----------|
| Operating System | Linux  | Linux Kernel | All     | All    | All     | All      |

|                  |                          |                                                      |      |     |     |     |
|------------------|--------------------------|------------------------------------------------------|------|-----|-----|-----|
| Operating System | <a href="#">Opensuse</a> | <a href="#">Opensuse</a>                             | 11.2 | All | All | All |
| Operating System | <a href="#">Opensuse</a> | <a href="#">Opensuse</a>                             | 11.3 | All | All | All |
| Operating System | <a href="#">Suse</a>     | <a href="#">Linux Enterprise Desktop</a>             | 11   | sp1 | All | All |
| Operating System | <a href="#">Suse</a>     | <a href="#">Linux Enterprise Real Time Extension</a> | 11   | sp1 | All | All |
| Operating System | <a href="#">Suse</a>     | <a href="#">Linux Enterprise Server</a>              | 11   | sp1 | 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                                                                                           |                              |
|------------------------------------------------------------------------------------------------------|------------------------------|
| Reference                                                                                            | Source                       |
| access.redhat.com                                                                                    | af854a3a-2127-422b-91ae-364d |
| Bug 652957 – CVE-2010-4163 CVE-2010-4668 kernel: panic when submitting certain 0-length I/O requests | af854a3a-2127-422b-91ae-364d |
| Red Hat update for kernel - Advisories - Community                                                   | af854a3a-2127-422b-91ae-364d |
| [security-announce] SUSE Security Announcement: Linux kernel (SUSE-SA:20                             | af854a3a-2127-422b-91ae-364d |
| SUSE update for kernel - Advisories - Community                                                      | af854a3a-2127-422b-91ae-364d |
| mandriva.com                                                                                         | af854a3a-2127-422b-91ae-364d |
| Webmail : Solution de messagerie professionnelle - OVHcloud- OVH                                     | af854a3a-2127-422b-91ae-364d |
| SUSE update for kernel - Advisories - Community                                                      | af854a3a-2127-422b-91ae-364d |
| [security-announce] SUSE Security Announcement: Linux kernel (SUSE-SA:20                             | af854a3a-2127-422b-91ae-364d |
| SUSE update for kernel - Advisories - Community                                                      | af854a3a-2127-422b-91ae-364d |
| oss-security - Re: CVE request: kernel: Multiple DoS issues in block layer                           | af854a3a-2127-422b-91ae-364d |
| oss-security - CVE request: kernel: Multiple DoS issues in block layer                               | af854a3a-2127-422b-91ae-364d |
| Webmail : Solution de messagerie professionnelle - OVHcloud- OVH                                     | af854a3a-2127-422b-91ae-364d |
| kernel/git/torvalds/linux.git - Linux kernel source tree                                             | af854a3a-2127-422b-91ae-364d |
| oss-security - Re: CVE request: kernel: Multiple DoS issues in block layer                           | af854a3a-2127-422b-91ae-364d |
| Linux Kernel Block Layer Local Denial of Service Vulnerabilities                                     | af854a3a-2127-422b-91ae-364d |
| [security-announce] SUSE Security Announcement: Linux kernel (SUSE-SA:20                             | af854a3a-2127-422b-91ae-364d |
| 404: File not found                                                                                  | af854a3a-2127-422b-91ae-364d |
| Webmail : Solution de messagerie professionnelle - OVHcloud- OVH                                     | af854a3a-2127-422b-91ae-364d |
| [security-announce] SUSE Security Announcement: Realtime Linux Kernel (S                             | af854a3a-2127-422b-91ae-364d |
| kernel/git/torvalds/linux.git - Linux kernel source tree                                             | MITRE                        |
| CVE Program record                                                                                   | CVE.ORG                      |
| NVD vulnerability detail                                                                             | NVD                          |

No vendor comments have been submitted for this CVE.

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

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