# CVE-2010-0415

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

## Summary

| | |
|---|---|
| **CVE** | CVE-2010-0415 |
| **State** | PUBLISHED |
| **Assigner** | redhat |
| **Source Priority** | CVE Program / NVD first with legacy fallback |
| **Published** | 2010-02-17 18:30:00 UTC |
| **Updated** | 2026-04-29 01:13:23 UTC |
| **Description** | The do_pages_move function in mm/migrate.c in the Linux kernel before 2.6.33-rc7 does not validate node values, which a |

## Risk And Classification

**Primary CVSS:** v2.0 4.6 from nvd@nist.gov

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

**Problem Types:** NVD-CWE-Other | n/a

### CVSS v2.0 Breakdown

Access Vector

Local

Access Complexity

Low

Authentication

None

Confidentiality

Partial

Integrity

Partial

Availability

Partial

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

## NVD Known Affected Configurations (CPE 2.3)

| Type | Vendor | Product | Version | Update | Edition | Language |
|---|---|---|---|---|---|---|
| Operating System | Linux | Linux Kernel | 2.6.0 | All | All | All |

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|---|---|---|---|---|---|---|
| Operating System | Linux | Linux Kernel | 2.6.1 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.10 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.11 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.11.1 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.11.10 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.11.11 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.11.12 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.11.2 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.11.3 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.11.4 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.11.5 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.11.6 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.11.7 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.11.8 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.11.9 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.12 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.12.1 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.12.2 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.12.3 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.12.4 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.12.5 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.12.6 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.13 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.13.1 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.13.2 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.13.3 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.13.4 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.13.5 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.14 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.14.1 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.14.3 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.14.4 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.14.5 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.14.6 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.14.7 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.15 | All | All | All |

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| Operating System | Linux | Linux Kernel | 2.6.15.1 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.15.2 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.15.3 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.15.4 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.15.5 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.15.6 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.15.7 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.1 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.10 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.11 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.12 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.13 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.14 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.15 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.16 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.17 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.18 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.19 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.2 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.20 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.21 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.22 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.23 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.24 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.25 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.26 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.27 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.28 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.29 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.3 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.30 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.31 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.4 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.5 | All | All | All |

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| Operating System | Linux | Linux Kernel | 2.6.16.6 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.7 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.8 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.16.9 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.17 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.17.1 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.17.10 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.17.11 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.17.12 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.17.13 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.17.14 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.17.2 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.17.3 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.17.4 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.17.5 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.17.6 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.17.7 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.17.8 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.17.9 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.18.1 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.18.2 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.18.3 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.18.4 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.18.5 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.18.6 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.18.7 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.18.8 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.2 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.22 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.22.2 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.22.3 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.22.4 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.22.5 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.22.6 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.22.7 | All | All | All |

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| Operating System | Linux | Linux Kernel | 2.6.23 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.23 | rc1 | All | All |
| Operating System | Linux | Linux Kernel | 2.6.23 | rc2 | All | All |
| Operating System | Linux | Linux Kernel | 2.6.23.1 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.23.2 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.23.3 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.23.4 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.23.5 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.23.6 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.23.7 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.24 | rc1 | All | All |
| Operating System | Linux | Linux Kernel | 2.6.24 | rc2 | All | All |
| Operating System | Linux | Linux Kernel | 2.6.24 | rc3 | All | All |
| Operating System | Linux | Linux Kernel | 2.6.24 | rc4 | All | All |
| Operating System | Linux | Linux Kernel | 2.6.24 | rc5 | All | All |
| Operating System | Linux | Linux Kernel | 2.6.3 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.32 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.32.1 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.32.2 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.32.3 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.32.4 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.33 | rc1 | All | All |
| Operating System | Linux | Linux Kernel | 2.6.33 | rc2 | All | All |
| Operating System | Linux | Linux Kernel | 2.6.33 | rc4 | All | All |
| Operating System | Linux | Linux Kernel | 2.6.33 | rc5 | All | All |
| Operating System | Linux | Linux Kernel | 2.6.4 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.5 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.6 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.7 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.8 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.8.1 | All | All | All |
| Operating System | Linux | Linux Kernel | 2.6.9 | All | All | All |
| Operating System | Linux | Linux Kernel | All | rc3 | All | All |
| Operating System | Linux | Linux Kernel | All | rc6 | All | All |

## Vendor Declared Affected Products

| Source | Vendor | Product | Version | Platforms |
|---|---|---|---|---|
| CNA | Na | N/a | affected n/a | Not specified |

## References

| Reference | Source | Link |
|---|---|---|
| SecurityFocus | af854a3a-2127-422b-91ae-364da2661108 | www.se |
| Support / Security / Advisories / / MDVSA-2010:198 \| Mandriva | af854a3a-2127-422b-91ae-364da2661108 | www.ma |
| [security-announce] SUSE Security Announcement: Linux kernel (SUSE-SA:20 | af854a3a-2127-422b-91ae-364da2661108 | lists.ope |
| [SECURITY] Fedora 11 Update: kernel-2.6.30.10-105.2.23.fc11 | af854a3a-2127-422b-91ae-364da2661108 | lists.fed |
| git.kernel.org | af854a3a-2127-422b-91ae-364da2661108 | git.kerne |
| USN-914-1: Linux kernel vulnerabilities \| Ubuntu | af854a3a-2127-422b-91ae-364da2661108 | www.ub |
| Debian -- Security Information -- DSA-2005-1 linux-2.6.24 | af854a3a-2127-422b-91ae-364da2661108 | www.de |
| oss-security - Re: CVE request: information leak / potential crash in sys_move_pages | af854a3a-2127-422b-91ae-364da2661108 | www.op |
| oss-security - CVE request: information leak / potential crash in sys_move_pages | af854a3a-2127-422b-91ae-364da2661108 | www.op |
| oss-security - Re: CVE request: information leak / potential crash in sys_move_pages | af854a3a-2127-422b-91ae-364da2661108 | www.op |
| Linux Kernel 'do_pages_move()' Local Information Disclosure Vulnerability | af854a3a-2127-422b-91ae-364da2661108 | www.se |
| 404: File not found | af854a3a-2127-422b-91ae-364da2661108 | www.ke |
| VMSA-2011-0003 | af854a3a-2127-422b-91ae-364da2661108 | www.vm |
| Red Hat update for kernel-rt - Advisories - Community | af854a3a-2127-422b-91ae-364da2661108 | secunia |
| VMware ESX Server Multiple Kernel Vulnerabilities - Advisories - Community | af854a3a-2127-422b-91ae-364da2661108 | secunia |
| [security-announce] SUSE Security Announcement: Linux kernel (SUSE-SA:20 | af854a3a-2127-422b-91ae-364da2661108 | lists.ope |
| Ubuntu update for linux and linux-source-2.6.15 - Secunia.com | af854a3a-2127-422b-91ae-364da2661108 | secunia |
| Debian -- Security Information -- DSA-1996-1 linux-2.6 | af854a3a-2127-422b-91ae-364da2661108 | www.de |
| Support / Security / Advisories / / MDVSA-2010:066 \| Mandriva | af854a3a-2127-422b-91ae-364da2661108 | www.ma |
| Debian update for linux-2.6 - Advisories - Community | af854a3a-2127-422b-91ae-364da2661108 | secunia |
| Support | af854a3a-2127-422b-91ae-364da2661108 | www.rec |
| SUSE update for kernel - Advisories - Community | af854a3a-2127-422b-91ae-364da2661108 | secunia |
| [SECURITY] Fedora 12 Update: kernel-2.6.31.12-174.2.19.fc12 | af854a3a-2127-422b-91ae-364da2661108 | lists.fed |
| 562582 – (CVE-2010-0415) CVE-2010-0415 kernel: sys_move_pages infoleak | af854a3a-2127-422b-91ae-364da2661108 | bugzilla. |
| Support | af854a3a-2127-422b-91ae-364da2661108 | www.rec |
| Fedora update for kernel - Advisories - Community | af854a3a-2127-422b-91ae-364da2661108 | secunia |
| Webmail- OVH | af854a3a-2127-422b-91ae-364da2661108 | www.vu |
| Repository / Oval Repository | af854a3a-2127-422b-91ae-364da2661108 | oval.cis |
| kernel/git/torvalds/linux.git - Linux kernel source tree | MITRE | git.kerne |
| CVE Program record | CVE.ORG | www.cv |
| NVD vulnerability detail | NVD | nvd.nist |

## Vendor Comments And Credit

| Organization | Published | Contributor | Statement |
| --- | --- | --- | --- |
| Red Hat | 2010-03-18 | Vincent Danen | Red Hat is aware of this issue and is tracking it via the following bug: https://bugzilla.redhat.co |

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