# CVE-2015-5157

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

## Summary

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|---|---|
| **CVE** | CVE-2015-5157 |
| **State** | PUBLISHED |
| **Assigner** | redhat |
| **Source Priority** | CVE Program / NVD first with legacy fallback |
| **Published** | 2015-08-31 10:59:11 UTC |
| **Updated** | 2026-05-06 22:30:45 UTC |
| **Description** | arch/x86/entry/entry_64.S in the Linux kernel before 4.1.6 on the x86_64 platform mishandles IRET faults in processing NM |

## Risk And Classification

**Primary CVSS:** v2.0 7.2 from nvd@nist.gov

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

**Problem Types:** CWE-264 | n/a

## CVSS v2.0 Breakdown

Access Vector

Local

Access Complexity

Low

Authentication

None

Confidentiality

Complete

Integrity

Complete

Availability

Complete

AV:L/AC:L/Au:N/C:C/I:C/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 |

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|---|---|---|---|---|---|---|
| Operating System | Redhat | Enterprise Linux Desktop | 6.0 | All | All | All |
| Operating System | Redhat | Enterprise Linux Hpc Node | 6.0 | All | All | All |
| Operating System | Redhat | Enterprise Linux Server | 6.0 | All | All | All |
| Operating System | Redhat | Enterprise Linux Server Eus | 6.7.z | All | All | All |
| Operating System | Redhat | Enterprise Linux Workstation | 6.0 | All | All | All |

## Vendor Declared Affected Products

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

## References

| Reference | Source |
|---|---|
| Red Hat Customer Portal | af854a3a-2127-422b-91ae-364da266110 |
| USN-2689-1: Linux kernel (Utopic HWE) vulnerabilities \| Ubuntu | af854a3a-2127-422b-91ae-364da266110 |
| Red Hat Customer Portal | af854a3a-2127-422b-91ae-364da266110 |
| Debian -- Security Information -- DSA-3313-1 linux | af854a3a-2127-422b-91ae-364da266110 |
| Linux Kernel CVE-2015-5157 Local Privilege Escalation Vulnerability | af854a3a-2127-422b-91ae-364da266110 |
| kernel/git/torvalds/linux.git - Linux kernel source tree | af854a3a-2127-422b-91ae-364da266110 |
| USN-2690-1: Linux kernel (Vivid HWE) vulnerabilities \| Ubuntu | af854a3a-2127-422b-91ae-364da266110 |
| [security-announce] SUSE-SU-2015:1727-1: important: Security update for | af854a3a-2127-422b-91ae-364da266110 |
| USN-2687-1: Linux kernel (Trusty HWE) vulnerabilities \| Ubuntu | af854a3a-2127-422b-91ae-364da266110 |
| Red Hat Customer Portal | af854a3a-2127-422b-91ae-364da266110 |
| Red Hat Customer Portal | af854a3a-2127-422b-91ae-364da266110 |
| [security-announce] SUSE-SU-2015:2108-1: important: Security update for | af854a3a-2127-422b-91ae-364da266110 |
| oss-security - Linux x86_64 NMI security issues | af854a3a-2127-422b-91ae-364da266110 |
| [security-announce] SUSE-SU-2015:2339-1: important: Security update for | af854a3a-2127-422b-91ae-364da266110 |
| [security-announce] SUSE-SU-2016:0354-1: important: Security update for | af854a3a-2127-422b-91ae-364da266110 |
| Oracle Linux Bulletin - January 2016 | af854a3a-2127-422b-91ae-364da266110 |
| x86/nmi/64: Switch stacks on userspace NMI entry · torvalds/linux@9b6e6a8 · GitHub | af854a3a-2127-422b-91ae-364da266110 |
| www.kernel.org/pub/linux/kernel/v4.x/ChangeLog-4.1.6 | af854a3a-2127-422b-91ae-364da266110 |
| USN-2688-1: Linux kernel vulnerabilities \| Ubuntu | af854a3a-2127-422b-91ae-364da266110 |
| Oracle Linux Bulletin - April 2016 | af854a3a-2127-422b-91ae-364da266110 |
| [security-announce] SUSE-SU-2015:2350-1: important: Security update for | af854a3a-2127-422b-91ae-364da266110 |
| USN-2691-1: Linux kernel vulnerabilities \| Ubuntu | af854a3a-2127-422b-91ae-364da266110 |
| Red Hat Customer Portal | MITRE |
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| Red Hat Customer Portal | MITRE |
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| access.redhat.com \| CVE-2015-5157 | MITRE |
| 1259577 – (CVE-2015-5157) CVE-2015-5157 kernel: x86-64: IRET faults during NMIs processing | 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.