



CVE-2004-1057

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CVE-2004-1057

[Source: Mitre](#)

[Source: NIST](#)

[CVE.ORG](#)

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Certain versions of [Linux Kernel](#) from [Linux](#) contain the following vulnerability:

Multiple drivers in Linux kernel 2.4.19 and earlier do not properly mark memory with the VM_IO flag, which causes incorrect reference counts and may lead to a denial of service (kernel panic) when accessing freed kernel pages.

CVE-2004-1057 has been assigned by [M](#) cve@mitre.org to track the vulnerability

CVSS2 Score: **7.2 - HIGH**

Access
Vector

LOCAL

Access
Complexity

LOW

Authentication

NONE

Confidentiality
Impact

COMPLETE

Integrity
Impact

COMPLETE

Availability
Impact

COMPLETE

CVE References

Description

Tags

Link

Repository / Oval
Repository

[oval.cisecurity.org](#)
[text/html](#)

[OVAL oval:org.mitre.oval:def:11474](#)

Secunia - Advisories -
Red Hat update for
kernel

[web.archive.org](#)
[text/html](#)

[SECUNIA 18562](#)

Linux Kernel Device
Driver Virtual Memory
Flags Unspecified
Vulnerability

[cve.report \(archive\)](#)
[text/html](#)

[BID 12338](#)

rhn.redhat.com | Red
Hat Support

[Patch](#)
[Vendor Advisory](#)
[www.redhat.com](#)
[text/html](#)

[REDHAT RHSA-2005:016](#)

137821 – CAN-2004-1057 VM_IO refcount issue	Patch Vendor Advisory bugzilla.redhat.com text/html	 CONFIRM bugzilla.redhat.com/bugzilla/show_bug.cgi?id=137821
rhnl.redhat.com Red Hat Support	www.redhat.com text/html	 REDHAT RHSA-2005:017
404: File not found	www.kernel.org text/x-diff Inactive Link Not Archived	 MISC www.kernel.org/pub/linux/kernel/people/andrea/kernels/v2.4/2.4.23aa3/00_VM_IO-4
IBM X-Force Exchange	exchange.xforce.ibmcloud.com text/html	 XF linux-kernel-vmio-dos(19275)
rhnl.redhat.com Red Hat Support	www.redhat.com text/html	 REDHAT RHSA-2006:0140

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There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)						
Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Linux	Linux Kernel	2.0	All	All	All
Operating System	Linux	Linux Kernel	2.0.1	All	All	All
Operating System	Linux	Linux Kernel	2.0.10	All	All	All
Operating System	Linux	Linux Kernel	2.0.11	All	All	All
Operating System	Linux	Linux Kernel	2.0.12	All	All	All
Operating System	Linux	Linux Kernel	2.0.13	All	All	All
Operating System	Linux	Linux Kernel	2.0.14	All	All	All
Operating System	Linux	Linux Kernel	2.0.15	All	All	All
Operating System	Linux	Linux Kernel	2.0.16	All	All	All
Operating System	Linux	Linux Kernel	2.0.17	All	All	All
Operating System	Linux	Linux Kernel	2.0.18	All	All	All
Operating System	Linux	Linux Kernel	2.0.19	All	All	All

Operating System	Linux	Linux Kernel	2.0.2	All	All	All
Operating System	Linux	Linux Kernel	2.0.20	All	All	All
Operating System	Linux	Linux Kernel	2.0.21	All	All	All
Operating System	Linux	Linux Kernel	2.0.22	All	All	All
Operating System	Linux	Linux Kernel	2.0.23	All	All	All
Operating System	Linux	Linux Kernel	2.0.24	All	All	All
Operating System	Linux	Linux Kernel	2.0.25	All	All	All
Operating System	Linux	Linux Kernel	2.0.26	All	All	All
Operating System	Linux	Linux Kernel	2.0.27	All	All	All
Operating System	Linux	Linux Kernel	2.0.28	All	All	All
Operating System	Linux	Linux Kernel	2.0.29	All	All	All
Operating System	Linux	Linux Kernel	2.0.3	All	All	All
Operating System	Linux	Linux Kernel	2.0.30	All	All	All
Operating System	Linux	Linux Kernel	2.0.31	All	All	All
Operating System	Linux	Linux Kernel	2.0.32	All	All	All
Operating System	Linux	Linux Kernel	2.0.33	All	All	All
Operating System	Linux	Linux Kernel	2.0.34	All	All	All
Operating System	Linux	Linux Kernel	2.0.35	All	All	All
Operating System	Linux	Linux Kernel	2.0.36	All	All	All
Operating System	Linux	Linux Kernel	2.0.37	All	All	All
Operating System	Linux	Linux Kernel	2.0.38	All	All	All
Operating System	Linux	Linux Kernel	2.0.39	All	All	All
Operating System	Linux	Linux Kernel	2.0.4	All	All	All

Operating System	Linux	Linux Kernel	2.0.5	All	All	All
Operating System	Linux	Linux Kernel	2.0.6	All	All	All
Operating System	Linux	Linux Kernel	2.0.7	All	All	All
Operating System	Linux	Linux Kernel	2.0.8	All	All	All
Operating System	Linux	Linux Kernel	2.0.9	All	All	All
Operating System	Linux	Linux Kernel	2.0.9.9	All	All	All
Operating System	Linux	Linux Kernel	2.1	All	All	All
Operating System	Linux	Linux Kernel	2.1.89	All	All	All
Operating System	Linux	Linux Kernel	2.2.0	All	All	All
Operating System	Linux	Linux Kernel	2.2.1	All	All	All
Operating System	Linux	Linux Kernel	2.2.10	All	All	All
Operating System	Linux	Linux Kernel	2.2.11	All	All	All
Operating System	Linux	Linux Kernel	2.2.12	All	All	All
Operating System	Linux	Linux Kernel	2.2.13	All	All	All
Operating System	Linux	Linux Kernel	2.2.14	All	All	All
Operating System	Linux	Linux Kernel	2.2.15	All	All	All
Operating System	Linux	Linux Kernel	2.2.15	pre16	All	All
Operating System	Linux	Linux Kernel	2.2.15_pre20	All	All	All
Operating System	Linux	Linux Kernel	2.2.16	All	All	All
Operating System	Linux	Linux Kernel	2.2.16	pre6	All	All
Operating System	Linux	Linux Kernel	2.2.17	All	All	All
Operating System	Linux	Linux Kernel	2.2.18	All	All	All
Operating System	Linux	Linux Kernel	2.2.19	All	All	All

Operating System	Linux	Linux Kernel	2.2.2	All	All	All
Operating System	Linux	Linux Kernel	2.2.20	All	All	All
Operating System	Linux	Linux Kernel	2.2.21	All	All	All
Operating System	Linux	Linux Kernel	2.2.22	All	All	All
Operating System	Linux	Linux Kernel	2.2.23	All	All	All
Operating System	Linux	Linux Kernel	2.2.24	All	All	All
Operating System	Linux	Linux Kernel	2.2.25	All	All	All
Operating System	Linux	Linux Kernel	2.2.27	rc2	All	All
Operating System	Linux	Linux Kernel	2.2.3	All	All	All
Operating System	Linux	Linux Kernel	2.2.4	All	All	All
Operating System	Linux	Linux Kernel	2.2.5	All	All	All
Operating System	Linux	Linux Kernel	2.2.6	All	All	All
Operating System	Linux	Linux Kernel	2.2.7	All	All	All
Operating System	Linux	Linux Kernel	2.2.8	All	All	All
Operating System	Linux	Linux Kernel	2.2.9	All	All	All
Operating System	Linux	Linux Kernel	2.3.0	All	All	All
Operating System	Linux	Linux Kernel	2.3.99	All	All	All
Operating System	Linux	Linux Kernel	2.3.99	pre1	All	All
Operating System	Linux	Linux Kernel	2.3.99	pre2	All	All
Operating System	Linux	Linux Kernel	2.3.99	pre3	All	All
Operating System	Linux	Linux Kernel	2.3.99	pre4	All	All
Operating System	Linux	Linux Kernel	2.3.99	pre5	All	All
Operating Svstem	Linux	Linux Kernel	2.3.99	pre6	All	All

System							
Operating System	Linux	Linux Kernel	2.3.99	pre7	All		All
Operating System	Linux	Linux Kernel	2.4.0	All	All		All
Operating System	Linux	Linux Kernel	2.4.0	test1	All		All
Operating System	Linux	Linux Kernel	2.4.0	test10	All		All
Operating System	Linux	Linux Kernel	2.4.0	test11	All		All
Operating System	Linux	Linux Kernel	2.4.0	test12	All		All
Operating System	Linux	Linux Kernel	2.4.0	test2	All		All
Operating System	Linux	Linux Kernel	2.4.0	test3	All		All
Operating System	Linux	Linux Kernel	2.4.0	test4	All		All
Operating System	Linux	Linux Kernel	2.4.0	test5	All		All
Operating System	Linux	Linux Kernel	2.4.0	test6	All		All
Operating System	Linux	Linux Kernel	2.4.0	test7	All		All
Operating System	Linux	Linux Kernel	2.4.0	test8	All		All
Operating System	Linux	Linux Kernel	2.4.0	test9	All		All
Operating System	Linux	Linux Kernel	2.4.1	All	All		All
Operating System	Linux	Linux Kernel	2.4.10	All	All		All
Operating System	Linux	Linux Kernel	2.4.11	All	All		All
Operating System	Linux	Linux Kernel	2.4.12	All	All		All
Operating System	Linux	Linux Kernel	2.4.13	All	All		All
Operating System	Linux	Linux Kernel	2.4.14	All	All		All
Operating System	Linux	Linux Kernel	2.4.15	All	All		All
Operating System	Linux	Linux Kernel	2.4.16	All	All		All
Operating System	Linux	Linux Kernel	2.4.17	All	All		All

System						
Operating System	Linux	Linux Kernel	2.4.18	All	All	All
Operating System	Linux	Linux Kernel	2.4.18	All	x86	All
Operating System	Linux	Linux Kernel	2.4.18	pre1	All	All
Operating System	Linux	Linux Kernel	2.4.18	pre2	All	All
Operating System	Linux	Linux Kernel	2.4.18	pre3	All	All
Operating System	Linux	Linux Kernel	2.4.18	pre4	All	All
Operating System	Linux	Linux Kernel	2.4.18	pre5	All	All
Operating System	Linux	Linux Kernel	2.4.18	pre6	All	All
Operating System	Linux	Linux Kernel	2.4.18	pre7	All	All
Operating System	Linux	Linux Kernel	2.4.18	pre8	All	All
Operating System	Linux	Linux Kernel	2.4.19	pre1	All	All
Operating System	Linux	Linux Kernel	2.4.19	pre2	All	All
Operating System	Linux	Linux Kernel	2.4.19	pre3	All	All
Operating System	Linux	Linux Kernel	2.4.19	pre4	All	All
Operating System	Linux	Linux Kernel	2.4.19	pre5	All	All
Operating System	Linux	Linux Kernel	2.4.19	pre6	All	All
Operating System	Linux	Linux Kernel	2.6.20.1	All	All	All
Operating System	Linux	Linux Kernel	2.0	All	All	All
Operating System	Linux	Linux Kernel	2.0.1	All	All	All
Operating System	Linux	Linux Kernel	2.0.10	All	All	All
Operating System	Linux	Linux Kernel	2.0.11	All	All	All
Operating System	Linux	Linux Kernel	2.0.12	All	All	All
Operating System	Linux	Linux Kernel	2.0.13	All	All	All

System						
Operating System	Linux	Linux Kernel	2.0.14	All	All	All
Operating System	Linux	Linux Kernel	2.0.15	All	All	All
Operating System	Linux	Linux Kernel	2.0.16	All	All	All
Operating System	Linux	Linux Kernel	2.0.17	All	All	All
Operating System	Linux	Linux Kernel	2.0.18	All	All	All
Operating System	Linux	Linux Kernel	2.0.19	All	All	All
Operating System	Linux	Linux Kernel	2.0.2	All	All	All
Operating System	Linux	Linux Kernel	2.0.20	All	All	All
Operating System	Linux	Linux Kernel	2.0.21	All	All	All
Operating System	Linux	Linux Kernel	2.0.22	All	All	All
Operating System	Linux	Linux Kernel	2.0.23	All	All	All
Operating System	Linux	Linux Kernel	2.0.24	All	All	All
Operating System	Linux	Linux Kernel	2.0.25	All	All	All
Operating System	Linux	Linux Kernel	2.0.26	All	All	All
Operating System	Linux	Linux Kernel	2.0.27	All	All	All
Operating System	Linux	Linux Kernel	2.0.28	All	All	All
Operating System	Linux	Linux Kernel	2.0.29	All	All	All
Operating System	Linux	Linux Kernel	2.0.3	All	All	All
Operating System	Linux	Linux Kernel	2.0.30	All	All	All
Operating System	Linux	Linux Kernel	2.0.31	All	All	All
Operating System	Linux	Linux Kernel	2.0.32	All	All	All
Operating System	Linux	Linux Kernel	2.0.33	All	All	All
Operating System	Linux	Linux Kernel	2.0.34	All	All	All

System						
Operating System	Linux	Linux Kernel	2.0.35	All	All	All
Operating System	Linux	Linux Kernel	2.0.36	All	All	All
Operating System	Linux	Linux Kernel	2.0.37	All	All	All
Operating System	Linux	Linux Kernel	2.0.38	All	All	All
Operating System	Linux	Linux Kernel	2.0.39	All	All	All
Operating System	Linux	Linux Kernel	2.0.4	All	All	All
Operating System	Linux	Linux Kernel	2.0.5	All	All	All
Operating System	Linux	Linux Kernel	2.0.6	All	All	All
Operating System	Linux	Linux Kernel	2.0.7	All	All	All
Operating System	Linux	Linux Kernel	2.0.8	All	All	All
Operating System	Linux	Linux Kernel	2.0.9	All	All	All
Operating System	Linux	Linux Kernel	2.0.9.9	All	All	All
Operating System	Linux	Linux Kernel	2.1	All	All	All
Operating System	Linux	Linux Kernel	2.1.89	All	All	All
Operating System	Linux	Linux Kernel	2.2.0	All	All	All
Operating System	Linux	Linux Kernel	2.2.1	All	All	All
Operating System	Linux	Linux Kernel	2.2.10	All	All	All
Operating System	Linux	Linux Kernel	2.2.11	All	All	All
Operating System	Linux	Linux Kernel	2.2.12	All	All	All
Operating System	Linux	Linux Kernel	2.2.13	All	All	All
Operating System	Linux	Linux Kernel	2.2.14	All	All	All
Operating System	Linux	Linux Kernel	2.2.15	All	All	All
Operating	Linux	Linux Kernel	2.2.15	pre16	All	All

System						
Operating System	Linux	Linux Kernel	2.2.15_pre20	All	All	All
Operating System	Linux	Linux Kernel	2.2.16	All	All	All
Operating System	Linux	Linux Kernel	2.2.16	pre6	All	All
Operating System	Linux	Linux Kernel	2.2.17	All	All	All
Operating System	Linux	Linux Kernel	2.2.18	All	All	All
Operating System	Linux	Linux Kernel	2.2.19	All	All	All
Operating System	Linux	Linux Kernel	2.2.2	All	All	All
Operating System	Linux	Linux Kernel	2.2.20	All	All	All
Operating System	Linux	Linux Kernel	2.2.21	All	All	All
Operating System	Linux	Linux Kernel	2.2.22	All	All	All
Operating System	Linux	Linux Kernel	2.2.23	All	All	All
Operating System	Linux	Linux Kernel	2.2.24	All	All	All
Operating System	Linux	Linux Kernel	2.2.25	All	All	All
Operating System	Linux	Linux Kernel	2.2.27	rc2	All	All
Operating System	Linux	Linux Kernel	2.2.3	All	All	All
Operating System	Linux	Linux Kernel	2.2.4	All	All	All
Operating System	Linux	Linux Kernel	2.2.5	All	All	All
Operating System	Linux	Linux Kernel	2.2.6	All	All	All
Operating System	Linux	Linux Kernel	2.2.7	All	All	All
Operating System	Linux	Linux Kernel	2.2.8	All	All	All
Operating System	Linux	Linux Kernel	2.2.9	All	All	All
Operating System	Linux	Linux Kernel	2.3.0	All	All	All
Operating	Linux	Linux Kernel	2.3.99	All	All	All

System						
Operating System	Linux	Linux Kernel	2.3.99	pre1	All	All
Operating System	Linux	Linux Kernel	2.3.99	pre2	All	All
Operating System	Linux	Linux Kernel	2.3.99	pre3	All	All
Operating System	Linux	Linux Kernel	2.3.99	pre4	All	All
Operating System	Linux	Linux Kernel	2.3.99	pre5	All	All
Operating System	Linux	Linux Kernel	2.3.99	pre6	All	All
Operating System	Linux	Linux Kernel	2.3.99	pre7	All	All
Operating System	Linux	Linux Kernel	2.4.0	All	All	All
Operating System	Linux	Linux Kernel	2.4.0	test1	All	All
Operating System	Linux	Linux Kernel	2.4.0	test10	All	All
Operating System	Linux	Linux Kernel	2.4.0	test11	All	All
Operating System	Linux	Linux Kernel	2.4.0	test12	All	All
Operating System	Linux	Linux Kernel	2.4.0	test2	All	All
Operating System	Linux	Linux Kernel	2.4.0	test3	All	All
Operating System	Linux	Linux Kernel	2.4.0	test4	All	All
Operating System	Linux	Linux Kernel	2.4.0	test5	All	All
Operating System	Linux	Linux Kernel	2.4.0	test6	All	All
Operating System	Linux	Linux Kernel	2.4.0	test7	All	All
Operating System	Linux	Linux Kernel	2.4.0	test8	All	All
Operating System	Linux	Linux Kernel	2.4.0	test9	All	All
Operating System	Linux	Linux Kernel	2.4.1	All	All	All
Operating System	Linux	Linux Kernel	2.4.10	All	All	All
Operating	Linux	Linux Kernel	2.4.11	All	All	All

System						
Operating System	Linux	Linux Kernel	2.4.12	All	All	All
Operating System	Linux	Linux Kernel	2.4.13	All	All	All
Operating System	Linux	Linux Kernel	2.4.14	All	All	All
Operating System	Linux	Linux Kernel	2.4.15	All	All	All
Operating System	Linux	Linux Kernel	2.4.16	All	All	All
Operating System	Linux	Linux Kernel	2.4.17	All	All	All
Operating System	Linux	Linux Kernel	2.4.18	All	All	All
Operating System	Linux	Linux Kernel	2.4.18	All	x86	All
Operating System	Linux	Linux Kernel	2.4.18	pre1	All	All
Operating System	Linux	Linux Kernel	2.4.18	pre2	All	All
Operating System	Linux	Linux Kernel	2.4.18	pre3	All	All
Operating System	Linux	Linux Kernel	2.4.18	pre4	All	All
Operating System	Linux	Linux Kernel	2.4.18	pre5	All	All
Operating System	Linux	Linux Kernel	2.4.18	pre6	All	All
Operating System	Linux	Linux Kernel	2.4.18	pre7	All	All
Operating System	Linux	Linux Kernel	2.4.18	pre8	All	All
Operating System	Linux	Linux Kernel	2.4.19	pre1	All	All
Operating System	Linux	Linux Kernel	2.4.19	pre2	All	All
Operating System	Linux	Linux Kernel	2.4.19	pre3	All	All
Operating System	Linux	Linux Kernel	2.4.19	pre4	All	All
Operating System	Linux	Linux Kernel	2.4.19	pre5	All	All
Operating System	Linux	Linux Kernel	2.4.19	pre6	All	All
Operating System	Linux	Linux Kernel	2.6.20.1	All	All	All

Operating System	Linux	Linux Kernel	Linux	...	...	...
Operating System	Linux	Linux Kernel	All	All	All	All
Operating System	Redhat	Enterprise Linux	2.1	All	advanced_server	All
Operating System	Redhat	Enterprise Linux	2.1	All	advanced_server_ia64	All
Operating System	Redhat	Enterprise Linux	2.1	All	enterprise_server	All
Operating System	Redhat	Enterprise Linux	2.1	All	enterprise_server_ia64	All
Operating System	Redhat	Enterprise Linux	2.1	All	workstation	All
Operating System	Redhat	Enterprise Linux	2.1	All	workstation_ia64	All
Operating System	Redhat	Enterprise Linux	3.0	All	advanced_servers	All
Operating System	Redhat	Enterprise Linux	3.0	All	enterprise_server	All
Operating System	Redhat	Enterprise Linux	3.0	All	workstation	All
Operating System	Redhat	Enterprise Linux	4.0	All	advanced_server	All
Operating System	Redhat	Enterprise Linux	4.0	All	enterprise_server	All
Operating System	Redhat	Enterprise Linux	4.0	All	workstation	All
Operating System	Redhat	Enterprise Linux	2.1	All	advanced_server	All
Operating System	Redhat	Enterprise Linux	2.1	All	advanced_server_ia64	All
Operating System	Redhat	Enterprise Linux	2.1	All	enterprise_server	All
Operating System	Redhat	Enterprise Linux	2.1	All	enterprise_server_ia64	All
Operating System	Redhat	Enterprise Linux	2.1	All	workstation	All
Operating System	Redhat	Enterprise Linux	2.1	All	workstation_ia64	All
Operating System	Redhat	Enterprise Linux	3.0	All	advanced_servers	All
Operating System	Redhat	Enterprise Linux	3.0	All	enterprise_server	All
Operating System	Redhat	Enterprise Linux	3.0	All	workstation	All
Operating System	Redhat	Enterprise Linux	4.0	All	advanced_server	All

Operating System	Redhat	Enterprise Linux	4.0	All	advanced_server	All
Operating System	Redhat	Enterprise Linux	4.0	All	enterprise_server	All
Operating System	Redhat	Enterprise Linux	4.0	All	workstation	All
cpe:2.3:o:linux:linux_kernel:2.0:*:*:*:*:*:						
cpe:2.3:o:linux:linux_kernel:2.0.1:*:*:*:*:*:						
cpe:2.3:o:linux:linux_kernel:2.0.10:*:*:*:*:*:						
cpe:2.3:o:linux:linux_kernel:2.0.11:*:*:*:*:*:						
cpe:2.3:o:linux:linux_kernel:2.0.12:*:*:*:*:*:						
cpe:2.3:o:linux:linux_kernel:2.0.13:*:*:*:*:*:						
cpe:2.3:o:linux:linux_kernel:2.0.14:*:*:*:*:*:						
cpe:2.3:o:linux:linux_kernel:2.0.15:*:*:*:*:*:						
cpe:2.3:o:linux:linux_kernel:2.0.16:*:*:*:*:*:						
cpe:2.3:o:linux:linux_kernel:2.0.17:*:*:*:*:*:						
cpe:2.3:o:linux:linux_kernel:2.0.18:*:*:*:*:*:						
cpe:2.3:o:linux:linux_kernel:2.0.19:*:*:*:*:*:						
cpe:2.3:o:linux:linux_kernel:2.0.2:*:*:*:*:*:						
cpe:2.3:o:linux:linux_kernel:2.0.20:*:*:*:*:*:						
cpe:2.3:o:linux:linux_kernel:2.0.21:*:*:*:*:*:						
cpe:2.3:o:linux:linux_kernel:2.0.22:*:*:*:*:*:						
cpe:2.3:o:linux:linux_kernel:2.0.23:*:*:*:*:*:						
cpe:2.3:o:linux:linux_kernel:2.0.24:*:*:*:*:*:						
cpe:2.3:o:linux:linux_kernel:2.0.25:*:*:*:*:*:						
cpe:2.3:o:linux:linux_kernel:2.0.26:*:*:*:*:*:						
cpe:2.3:o:linux:linux_kernel:2.0.27:*:*:*:*:*:						
cpe:2.3:o:linux:linux_kernel:2.0.28:*:*:*:*:*:						
cpe:2.3:o:linux:linux_kernel:2.0.29:*:*:*:*:*:						
cpe:2.3:o:linux:linux_kernel:2.0.3:*:*:*:*:*:						
cpe:2.3:o:linux:linux_kernel:2.0.30:*:*:*:*:*:						

cpe:2.3:o:linux:linux_kernel:2.0.31:****:*:*:
cpe:2.3:o:linux:linux_kernel:2.0.32:****:*:*:
cpe:2.3:o:linux:linux_kernel:2.0.33:****:*:*:
cpe:2.3:o:linux:linux_kernel:2.0.34:****:*:*:
cpe:2.3:o:linux:linux_kernel:2.0.35:****:*:*:
cpe:2.3:o:linux:linux_kernel:2.0.36:****:*:*:
cpe:2.3:o:linux:linux_kernel:2.0.37:****:*:*:
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No vendor comments have been submitted for this CVE