



# CVE-2015-7981

[MITRE](#)[NVD](#)[CVE.ORG](#)[Print: PDF](#)

## Summary

<b>CVE</b>	CVE-2015-7981
<b>State</b>	PUBLIC
<b>Assigner</b>	cve@mitre.org
<b>Source Priority</b>	CVE Program / NVD first with legacy fallback
<b>Published</b>	2015-11-24 20:59:00 UTC
<b>Updated</b>	2017-07-01 01:29:00 UTC
<b>Description</b>	The png_convert_to_rfc1123 function in png.c in libpng 1.0.x before 1.0.64, 1.2.x before 1.2.54, and 1.4.x before 1.4.17 allc

## Risk And Classification

**Problem Types:** CWE-200

## NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Canonical	Ubuntu Linux	12.04	All	All	All
Operating System	Canonical	Ubuntu Linux	14.04	All	All	All
Operating System	Canonical	Ubuntu Linux	15.04	All	All	All
Operating System	Canonical	Ubuntu Linux	15.10	All	All	All
Operating System	Canonical	Ubuntu Linux	12.04	All	All	All
Operating System	Canonical	Ubuntu Linux	14.04	All	All	All
Operating System	Canonical	Ubuntu Linux	15.04	All	All	All
Operating System	Canonical	Ubuntu Linux	15.10	All	All	All
Operating System	Debian	Debian Linux	7.0	All	All	All
Operating System	Debian	Debian Linux	8.0	All	All	All
Operating System	Debian	Debian Linux	7.0	All	All	All
Operating System	Debian	Debian Linux	8.0	All	All	All
Application	Libpng	Libpng	1.0.0	All	All	All
Application	Libpng	Libpng	1.0.1	All	All	All
Application	Libpng	Libpng	1.0.10	All	All	All
Application	Libpng	Libpng	1.0.11	All	All	All
Application	Libpng	Libpng	1.0.12	All	All	All

Application	Libpng	Libpng	1.0.13	All	All	All
Application	Libpng	Libpng	1.0.14	All	All	All
Application	Libpng	Libpng	1.0.15	All	All	All
Application	Libpng	Libpng	1.0.16	All	All	All
Application	Libpng	Libpng	1.0.17	All	All	All
Application	Libpng	Libpng	1.0.18	All	All	All
Application	Libpng	Libpng	1.0.19	All	All	All
Application	Libpng	Libpng	1.0.2	All	All	All
Application	Libpng	Libpng	1.0.20	All	All	All
Application	Libpng	Libpng	1.0.21	All	All	All
Application	Libpng	Libpng	1.0.22	All	All	All
Application	Libpng	Libpng	1.0.23	All	All	All
Application	Libpng	Libpng	1.0.24	All	All	All
Application	Libpng	Libpng	1.0.25	All	All	All
Application	Libpng	Libpng	1.0.26	All	All	All
Application	Libpng	Libpng	1.0.27	All	All	All
Application	Libpng	Libpng	1.0.28	All	All	All
Application	Libpng	Libpng	1.0.29	All	All	All
Application	Libpng	Libpng	1.0.3	All	All	All
Application	Libpng	Libpng	1.0.30	All	All	All
Application	Libpng	Libpng	1.0.31	All	All	All
Application	Libpng	Libpng	1.0.32	All	All	All
Application	Libpng	Libpng	1.0.33	All	All	All
Application	Libpng	Libpng	1.0.34	All	All	All
Application	Libpng	Libpng	1.0.35	All	All	All
Application	Libpng	Libpng	1.0.37	All	All	All
Application	Libpng	Libpng	1.0.38	All	All	All
Application	Libpng	Libpng	1.0.39	All	All	All
Application	Libpng	Libpng	1.0.40	All	All	All
Application	Libpng	Libpng	1.0.41	All	All	All
Application	Libpng	Libpng	1.0.42	All	All	All
Application	Libpng	Libpng	1.0.43	All	All	All
Application	Libpng	Libpng	1.0.44	All	All	All
Application	Libpng	Libpng	1.0.45	All	All	All
Application	Libpng	Libpng	1.0.46	All	All	All

Application	Libpng	Libpng	1.0.47	All	All	All
Application	Libpng	Libpng	1.0.48	All	All	All
Application	Libpng	Libpng	1.0.5	All	All	All
Application	Libpng	Libpng	1.0.50	All	All	All
Application	Libpng	Libpng	1.0.51	All	All	All
Application	Libpng	Libpng	1.0.52	All	All	All
Application	Libpng	Libpng	1.0.53	All	All	All
Application	Libpng	Libpng	1.0.54	All	All	All
Application	Libpng	Libpng	1.0.55	All	All	All
Application	Libpng	Libpng	1.0.55	rc01	All	All
Application	Libpng	Libpng	1.0.56	All	All	All
Application	Libpng	Libpng	1.0.56	devel	All	All
Application	Libpng	Libpng	1.0.57	All	All	All
Application	Libpng	Libpng	1.0.57	rc01	All	All
Application	Libpng	Libpng	1.0.58	All	All	All
Application	Libpng	Libpng	1.0.59	All	All	All
Application	Libpng	Libpng	1.0.6	All	All	All
Application	Libpng	Libpng	1.0.60	All	All	All
Application	Libpng	Libpng	1.0.61	All	All	All
Application	Libpng	Libpng	1.0.62	All	All	All
Application	Libpng	Libpng	1.0.63	All	All	All
Application	Libpng	Libpng	1.0.7	All	All	All
Application	Libpng	Libpng	1.0.8	All	All	All
Application	Libpng	Libpng	1.0.9	All	All	All
Application	Libpng	Libpng	1.2.0	All	All	All
Application	Libpng	Libpng	1.2.1	All	All	All
Application	Libpng	Libpng	1.2.10	All	All	All
Application	Libpng	Libpng	1.2.11	All	All	All
Application	Libpng	Libpng	1.2.12	All	All	All
Application	Libpng	Libpng	1.2.13	All	All	All
Application	Libpng	Libpng	1.2.14	All	All	All
Application	Libpng	Libpng	1.2.15	All	All	All
Application	Libpng	Libpng	1.2.16	All	All	All
Application	Libpng	Libpng	1.2.17	All	All	All
Application	Libpng	Libpng	1.2.18	All	All	All
Application	Libpng	Libpng	1.2.19	All	All	All

Application	Libpng	Libpng	1.2.19	All	All	All
Application	Libpng	Libpng	1.2.2	All	All	All
Application	Libpng	Libpng	1.2.20	All	All	All
Application	Libpng	Libpng	1.2.21	All	All	All
Application	Libpng	Libpng	1.2.22	All	All	All
Application	Libpng	Libpng	1.2.23	All	All	All
Application	Libpng	Libpng	1.2.24	All	All	All
Application	Libpng	Libpng	1.2.25	All	All	All
Application	Libpng	Libpng	1.2.26	All	All	All
Application	Libpng	Libpng	1.2.27	All	All	All
Application	Libpng	Libpng	1.2.28	All	All	All
Application	Libpng	Libpng	1.2.29	All	All	All
Application	Libpng	Libpng	1.2.3	All	All	All
Application	Libpng	Libpng	1.2.30	All	All	All
Application	Libpng	Libpng	1.2.31	All	All	All
Application	Libpng	Libpng	1.2.32	All	All	All
Application	Libpng	Libpng	1.2.33	All	All	All
Application	Libpng	Libpng	1.2.34	All	All	All
Application	Libpng	Libpng	1.2.35	All	All	All
Application	Libpng	Libpng	1.2.36	All	All	All
Application	Libpng	Libpng	1.2.37	All	All	All
Application	Libpng	Libpng	1.2.38	All	All	All
Application	Libpng	Libpng	1.2.39	All	All	All
Application	Libpng	Libpng	1.2.4	All	All	All
Application	Libpng	Libpng	1.2.40	All	All	All
Application	Libpng	Libpng	1.2.41	All	All	All
Application	Libpng	Libpng	1.2.42	All	All	All
Application	Libpng	Libpng	1.2.43	All	All	All
Application	Libpng	Libpng	1.2.43	devel	All	All
Application	Libpng	Libpng	1.2.44	All	All	All
Application	Libpng	Libpng	1.2.45	All	All	All
Application	Libpng	Libpng	1.2.45	devel	All	All
Application	Libpng	Libpng	1.2.46	All	All	All
Application	Libpng	Libpng	1.2.46	devel	All	All
Application	Libpng	Libpng	1.2.47	All	All	All
Application	Libpng	Libpng	1.2.47	beta	All	All

Application	Libpng	Libpng	1.2.48	All	All	All
Application	Libpng	Libpng	1.2.48	betas	All	All
Application	Libpng	Libpng	1.2.49	All	All	All
Application	Libpng	Libpng	1.2.5	All	All	All
Application	Libpng	Libpng	1.2.50	All	All	All
Application	Libpng	Libpng	1.2.51	All	All	All
Application	Libpng	Libpng	1.2.52	All	All	All
Application	Libpng	Libpng	1.2.53	All	All	All
Application	Libpng	Libpng	1.2.6	All	All	All
Application	Libpng	Libpng	1.2.7	All	All	All
Application	Libpng	Libpng	1.2.8	All	All	All
Application	Libpng	Libpng	1.2.9	All	All	All
Application	Libpng	Libpng	1.4.0	All	All	All
Application	Libpng	Libpng	1.4.1	All	All	All
Application	Libpng	Libpng	1.4.10	All	All	All
Application	Libpng	Libpng	1.4.11	All	All	All
Application	Libpng	Libpng	1.4.12	All	All	All
Application	Libpng	Libpng	1.4.13	All	All	All
Application	Libpng	Libpng	1.4.14	All	All	All
Application	Libpng	Libpng	1.4.15	All	All	All
Application	Libpng	Libpng	1.4.16	All	All	All
Application	Libpng	Libpng	1.4.2	All	All	All
Application	Libpng	Libpng	1.4.3	All	All	All
Application	Libpng	Libpng	1.4.4	All	All	All
Application	Libpng	Libpng	1.4.5	All	All	All
Application	Libpng	Libpng	1.4.6	All	All	All
Application	Libpng	Libpng	1.4.7	All	All	All
Application	Libpng	Libpng	1.4.8	All	All	All
Application	Libpng	Libpng	1.4.9	All	All	All
Application	Libpng	Libpng	1.0.0	All	All	All
Application	Libpng	Libpng	1.0.1	All	All	All
Application	Libpng	Libpng	1.0.10	All	All	All
Application	Libpng	Libpng	1.0.11	All	All	All
Application	Libpng	Libpng	1.0.12	All	All	All
Application	Libpng	Libpng	1.0.13	All	All	All

Application	Libpng	Libpng	1.0.14	All	All	All
Application	Libpng	Libpng	1.0.15	All	All	All
Application	Libpng	Libpng	1.0.16	All	All	All
Application	Libpng	Libpng	1.0.17	All	All	All
Application	Libpng	Libpng	1.0.18	All	All	All
Application	Libpng	Libpng	1.0.19	All	All	All
Application	Libpng	Libpng	1.0.2	All	All	All
Application	Libpng	Libpng	1.0.20	All	All	All
Application	Libpng	Libpng	1.0.21	All	All	All
Application	Libpng	Libpng	1.0.22	All	All	All
Application	Libpng	Libpng	1.0.23	All	All	All
Application	Libpng	Libpng	1.0.24	All	All	All
Application	Libpng	Libpng	1.0.25	All	All	All
Application	Libpng	Libpng	1.0.26	All	All	All
Application	Libpng	Libpng	1.0.27	All	All	All
Application	Libpng	Libpng	1.0.28	All	All	All
Application	Libpng	Libpng	1.0.29	All	All	All
Application	Libpng	Libpng	1.0.3	All	All	All
Application	Libpng	Libpng	1.0.30	All	All	All
Application	Libpng	Libpng	1.0.31	All	All	All
Application	Libpng	Libpng	1.0.32	All	All	All
Application	Libpng	Libpng	1.0.33	All	All	All
Application	Libpng	Libpng	1.0.34	All	All	All
Application	Libpng	Libpng	1.0.35	All	All	All
Application	Libpng	Libpng	1.0.37	All	All	All
Application	Libpng	Libpng	1.0.38	All	All	All
Application	Libpng	Libpng	1.0.39	All	All	All
Application	Libpng	Libpng	1.0.40	All	All	All
Application	Libpng	Libpng	1.0.41	All	All	All
Application	Libpng	Libpng	1.0.42	All	All	All
Application	Libpng	Libpng	1.0.43	All	All	All
Application	Libpng	Libpng	1.0.44	All	All	All
Application	Libpng	Libpng	1.0.45	All	All	All
Application	Libpng	Libpng	1.0.46	All	All	All
Application	Libpng	Libpng	1.0.47	All	All	All
Application	Libpng	Libpng	1.0.48	All	All	All

Application	Libpng	Libpng	1.0.48	All	All	All
Application	Libpng	Libpng	1.0.5	All	All	All
Application	Libpng	Libpng	1.0.50	All	All	All
Application	Libpng	Libpng	1.0.51	All	All	All
Application	Libpng	Libpng	1.0.52	All	All	All
Application	Libpng	Libpng	1.0.53	All	All	All
Application	Libpng	Libpng	1.0.54	All	All	All
Application	Libpng	Libpng	1.0.55	All	All	All
Application	Libpng	Libpng	1.0.55	rc01	All	All
Application	Libpng	Libpng	1.0.56	All	All	All
Application	Libpng	Libpng	1.0.56	devel	All	All
Application	Libpng	Libpng	1.0.57	All	All	All
Application	Libpng	Libpng	1.0.57	rc01	All	All
Application	Libpng	Libpng	1.0.58	All	All	All
Application	Libpng	Libpng	1.0.59	All	All	All
Application	Libpng	Libpng	1.0.6	All	All	All
Application	Libpng	Libpng	1.0.60	All	All	All
Application	Libpng	Libpng	1.0.61	All	All	All
Application	Libpng	Libpng	1.0.62	All	All	All
Application	Libpng	Libpng	1.0.63	All	All	All
Application	Libpng	Libpng	1.0.7	All	All	All
Application	Libpng	Libpng	1.0.8	All	All	All
Application	Libpng	Libpng	1.0.9	All	All	All
Application	Libpng	Libpng	1.2.0	All	All	All
Application	Libpng	Libpng	1.2.1	All	All	All
Application	Libpng	Libpng	1.2.10	All	All	All
Application	Libpng	Libpng	1.2.11	All	All	All
Application	Libpng	Libpng	1.2.12	All	All	All
Application	Libpng	Libpng	1.2.13	All	All	All
Application	Libpng	Libpng	1.2.14	All	All	All
Application	Libpng	Libpng	1.2.15	All	All	All
Application	Libpng	Libpng	1.2.16	All	All	All
Application	Libpng	Libpng	1.2.17	All	All	All
Application	Libpng	Libpng	1.2.18	All	All	All
Application	Libpng	Libpng	1.2.19	All	All	All
Application	Libpng	Libpng	1.2.2	All	All	All

Application	Libpng	Libpng	1.2.20	All	All	All
Application	Libpng	Libpng	1.2.21	All	All	All
Application	Libpng	Libpng	1.2.22	All	All	All
Application	Libpng	Libpng	1.2.23	All	All	All
Application	Libpng	Libpng	1.2.24	All	All	All
Application	Libpng	Libpng	1.2.25	All	All	All
Application	Libpng	Libpng	1.2.26	All	All	All
Application	Libpng	Libpng	1.2.27	All	All	All
Application	Libpng	Libpng	1.2.28	All	All	All
Application	Libpng	Libpng	1.2.29	All	All	All
Application	Libpng	Libpng	1.2.3	All	All	All
Application	Libpng	Libpng	1.2.30	All	All	All
Application	Libpng	Libpng	1.2.31	All	All	All
Application	Libpng	Libpng	1.2.32	All	All	All
Application	Libpng	Libpng	1.2.33	All	All	All
Application	Libpng	Libpng	1.2.34	All	All	All
Application	Libpng	Libpng	1.2.35	All	All	All
Application	Libpng	Libpng	1.2.36	All	All	All
Application	Libpng	Libpng	1.2.37	All	All	All
Application	Libpng	Libpng	1.2.38	All	All	All
Application	Libpng	Libpng	1.2.39	All	All	All
Application	Libpng	Libpng	1.2.4	All	All	All
Application	Libpng	Libpng	1.2.40	All	All	All
Application	Libpng	Libpng	1.2.41	All	All	All
Application	Libpng	Libpng	1.2.42	All	All	All
Application	Libpng	Libpng	1.2.43	All	All	All
Application	Libpng	Libpng	1.2.43	devel	All	All
Application	Libpng	Libpng	1.2.44	All	All	All
Application	Libpng	Libpng	1.2.45	All	All	All
Application	Libpng	Libpng	1.2.45	devel	All	All
Application	Libpng	Libpng	1.2.46	All	All	All
Application	Libpng	Libpng	1.2.46	devel	All	All
Application	Libpng	Libpng	1.2.47	All	All	All
Application	Libpng	Libpng	1.2.47	beta	All	All
Application	Libpng	Libpng	1.2.48	All	All	All

Application	Libpng	Libpng	1.2.48	betas	All	All
Application	Libpng	Libpng	1.2.49	All	All	All
Application	Libpng	Libpng	1.2.5	All	All	All
Application	Libpng	Libpng	1.2.50	All	All	All
Application	Libpng	Libpng	1.2.51	All	All	All
Application	Libpng	Libpng	1.2.52	All	All	All
Application	Libpng	Libpng	1.2.53	All	All	All
Application	Libpng	Libpng	1.2.6	All	All	All
Application	Libpng	Libpng	1.2.7	All	All	All
Application	Libpng	Libpng	1.2.8	All	All	All
Application	Libpng	Libpng	1.2.9	All	All	All
Application	Libpng	Libpng	1.4.0	All	All	All
Application	Libpng	Libpng	1.4.1	All	All	All
Application	Libpng	Libpng	1.4.10	All	All	All
Application	Libpng	Libpng	1.4.11	All	All	All
Application	Libpng	Libpng	1.4.12	All	All	All
Application	Libpng	Libpng	1.4.13	All	All	All
Application	Libpng	Libpng	1.4.14	All	All	All
Application	Libpng	Libpng	1.4.15	All	All	All
Application	Libpng	Libpng	1.4.16	All	All	All
Application	Libpng	Libpng	1.4.2	All	All	All
Application	Libpng	Libpng	1.4.3	All	All	All
Application	Libpng	Libpng	1.4.4	All	All	All
Application	Libpng	Libpng	1.4.5	All	All	All
Application	Libpng	Libpng	1.4.6	All	All	All
Application	Libpng	Libpng	1.4.7	All	All	All
Application	Libpng	Libpng	1.4.8	All	All	All
Application	Libpng	Libpng	1.4.9	All	All	All
Operating System	Redhat	Enterprise Linux Desktop	6.0	All	All	All
Operating System	Redhat	Enterprise Linux Desktop	7.0	All	All	All
Operating System	Redhat	Enterprise Linux Desktop	6.0	All	All	All
Operating System	Redhat	Enterprise Linux Desktop	7.0	All	All	All
Operating System	Redhat	Enterprise Linux Hpc Node	6.0	All	All	All
Operating System	Redhat	Enterprise Linux Hpc Node	7.0	All	All	All
Operating System	Redhat	Enterprise Linux Hpc Node	6.0	All	All	All
Operating System	Redhat	Enterprise Linux Hpc Node	7.0	All	All	All

Operating System	Redhat	Enterprise Linux Hpc Node	7.0	All	All	All
Operating System	Redhat	Enterprise Linux Hpc Node Eus	7.2	All	All	All
Operating System	Redhat	Enterprise Linux Hpc Node Eus	7.2	All	All	All
Operating System	Redhat	Enterprise Linux Server	6.0	All	All	All
Operating System	Redhat	Enterprise Linux Server	7.0	All	All	All
Operating System	Redhat	Enterprise Linux Server	6.0	All	All	All
Operating System	Redhat	Enterprise Linux Server	7.0	All	All	All
Operating System	Redhat	Enterprise Linux Server Aus	7.2	All	All	All
Operating System	Redhat	Enterprise Linux Server Aus	7.2	All	All	All
Operating System	Redhat	Enterprise Linux Server Eus	6.7.z	All	All	All
Operating System	Redhat	Enterprise Linux Server Eus	7.2	All	All	All
Operating System	Redhat	Enterprise Linux Server Eus	6.7.z	All	All	All
Operating System	Redhat	Enterprise Linux Server Eus	7.2	All	All	All
Operating System	Redhat	Enterprise Linux Workstation	6.0	All	All	All
Operating System	Redhat	Enterprise Linux Workstation	7.0	All	All	All
Operating System	Redhat	Enterprise Linux Workstation	6.0	All	All	All
Operating System	Redhat	Enterprise Linux Workstation	7.0	All	All	All

## References

Reference	Source
oss-security - CVE Requests for read out of bound in libpng	MLIST
Red Hat Customer Portal	REDHAT
[SECURITY] Fedora 21 Update: libpng10-1.0.64-1.fc21	FEDORA
[SECURITY] Fedora 23 Update: libpng10-1.0.64-1.fc23	FEDORA
PNG reference library: libpng - Browse Files at SourceForge.net	CONFIRM
[security-announce] openSUSE-SU-2015:2099-1: important: Security update	SUSE
[SECURITY] Fedora 22 Update: libpng10-1.0.64-1.fc22	FEDORA
openSUSE-SU-2015:2136-1: moderate: Security update for libpng12	SUSE
Debian -- Security Information -- DSA-3399-1 libpng	DEBIAN
libpng: Multiple vulnerabilities (GLSA 201611-08) — Gentoo security	GENTOO
oss-security - Re: CVE Requests for read out of bound in libpng	MLIST
LIBPNG: PNG reference library / Bugs / #241 a out of bound read in libpng 1.2.*-1.2.53 and libpng 1.4.*	CONFIRM
libpng File Processing Buffer Overflow in png_convert_to_rfc1123() Lets Remote Users Execute Arbitrary Code - SecurityTracker	SECTRA
PNG reference library: libpng - Browse Files at SourceForge.net	CONFIRM
Oracle Linux Bulletin - October 2015	CONFIRM
libpng 'png_convert_to_rfc1123()' Function Out Of Bounds Read Memory Corruption Vulnerability	BID

PNG reference library: libpng - Browse Files at SourceForge.net	CONFIRM
Red Hat Customer Portal	REDHAT
Red Hat Customer Portal	REDHAT
USN-2815-1: libpng vulnerabilities   Ubuntu	UBUNTU
Oracle Solaris Bulletin - July 2016	CONFIRM
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.

© [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](#).

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