

Upgrade to a non-vulnerable version of LPRng (3.6.25), as described in the vendor sections below. Alternately, you can obtain the version of LPRng which fixes the missing format string at:

<ftp://ftp.astart.com/pub/LPRng/LPRng/LPRng-3.6.25.tgz>

Disallow access to printer service ports (typically 515/tcp) using firewall or packet-filtering technologies

Blocking access to the vulnerable service will limit your exposure to attacks from outside your network perimeter. However, the vulnerability would still allow local users to gain privileges they normally shouldn't have; in addition, blocking port 515/tcp at a network perimeter would still allow any remote user inside the perimeter to exploit the vulnerability.

Appendix A. Vendor Information

Apple

Apple has conducted an investigation and determined that Mac OS X Public Beta and Mac OS X Server do not use LPRng and are therefore not vulnerable to this exploitation.

Caldera OpenLinux

See CSSA-2000-033.0 "format bug in LPRng" at:

<http://www.calderasystems.com/support/security/advisories/CSSA-2000-033.0.txt>

Compaq Computer Corporation

Compaq Tru64 UNIX S/W is not vulnerable.

FreeBSD

FreeBSD does not include LPRng in the base system. Older versions of FreeBSD included a vulnerable version of LPRng in the Ports Collection but this was corrected almost 2 months ago, prior to the release of FreeBSD 4.2. See FreeBSD Security Advisory 00:56 (<ftp://ftp.FreeBSD.org/pub/FreeBSD/CERT/advisories/FreeBSD-SA-00:56.lprng.asc>) for more information.

Hewlett-Packard Company

This does not apply to HP; HP does not ship LPRng on HP-UX.

IBM

IBM's AIX operating system is not vulnerable to this security exploit.

Microsoft Corporation

Microsoft doesn't use LPRng in any of its products, so no Microsoft products are affected by the vulnerability.

NetBSD

NetBSD does not include LPRng in the base system; however we do have a third-party package of LPRng-3.6.8 which is vulnerable. There's work underway to upgrade it to a non-vulnerable version.

OpenBSD

OpenBSD does not ship lprng.

RedHat

LPRng Version 3.6.24 and earlier is vulnerable.

See RHSA-2000:065 at:

<http://www.redhat.com/support/errata/RHSA-2000-065.html>

SGI

IRIX does not contain LPRng support.

SuSE

SuSE is not vulnerable. Please see additional comments at:

<http://lists.suse.com/archives/suse-security/2000-Sep/0259.html>

References

1. *VU#382365: LPRng can pass user-supplied input as a format string parameter to syslog() calls*, CERT/CC, 10/06/2000, <http://www.kb.cert.org/vuls/id/382365>

The CERT Coordination Center thanks Chris Evans for his initial report on the vulnerability described in this advisory.

Author: This document was written by Jeffrey S Havrilla.
Feedback on this advisory is appreciated.

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Revision History

Dec 12, 2000: Initial Release
Dec 12, 2000: Updated name anchor for reference #1
Jan 27, 2003: Updated URL in Red Hat vendor statement