



the the information below for patch installation instructions.

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Sun Bug ID   : 1047340
Synopsis    : /bin/mail can be caused to invoke a root shell if given the
              (im)proper arguments.
Sun Patch ID: 100224-01
Checksum of compressed tarfile 100224-01.tar.Z = 64102 109
=====
```

```
Patch-ID# 100224-01
Keywords: mail, delivery, /bin/mail, 4.1, sendmail
Synopsis: SunOS 4.1.1, 4.1, 4.0.3: program "mail" problem in delivering
          mail + security enhancement
Date: 15 Jan 1990
```

SunOS release: 4.0.3 4.1 4.1.1

Topic: /bin/mail delivering fix

BugID's fixed with this patch: 1045636 1047340

Architectures for which this patch is available: sun3, sun3x, sun4, sun4c,  
sun4/490\_4.1\_PSR\_A.

Patches which may conflict with this patch: 100161-01. This patch obsoletes  
patch 100161-01 since this patch  
incorporates 100161-01 fixes plus  
the new fixes.

Obsoleted by: SysV Release 4

Problem Description:

Bug ID: 1045636

/bin/mail is the local delivery agent for sendmail. In  
some particular instance, /bin/mail parse its argument incorrectly  
and therefore, mail are being drop into the bit bucket...

If you have users that has "f" has the second character, you might want  
to try the following: (substitute "af" with anyuser with "f" as second  
character)

>From any machine except mailhost:

```
/bin/lib/sendmail -t -v <<END
From: anyuser
to: anyuser
Subject: test
Cc: af          <-- substitute any username with second character as "f"
test
```

END

When the mail arrived on mailhost, sendmail process will invoke  
/bin/mail with the following argument "/bin/mail -r anyuser -d af  
anyuser". Now you are in trouble. The following are different  
scenarios for /bin/mail.

- 1) /bin/mail -r anyuser -d af <mailmessages worked fine
- 2) /bin/mail -r anyuser -d anyone af ... <mailmessages worked fine
- 3) /bin/mail -r anyuser -d af anyone ... <mailmessages !!error!!

in case (3), /bin/mail thinks that you want to read mail instead of  
delivering mail. Therefore, mail messages is lost.

BugID: 1047340

/bin/mail can be caused to invoke a root shell if given the  
(im)proper arguments.

INSTALL:

AS ROOT:

```
# mv /bin/mail to /bin/mail.old
# chmod 400 /bin/mail.old
# cp $arch/$os/mail to /bin/mail
  (where $arch is either sun3 sun4 sun4c or sun3x)
  (and where $os is either 4.0.3 4.1 or 4.1.1)
  ( change the permissions for the newly installed mail)
# chmod 4111 /bin/mail
```

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Computer Emergency Response Team/Coordination Center (CERT/CC)  
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-----BEGIN PGP SIGNATURE-----  
Version: PGP for Personal Privacy 5.0  
Charset: noconv

iQA/AwUBOBS9lFr9kb5qlZHQEJpWACfZ5yYpqqpdRSXuBqjmtkv85nad78AoPXQ  
joXDjXK9WlT3SYwd9/rKCpsq  
=y7Gz  
-----END PGP SIGNATURE-----