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linux-input.vger.kernel.org archive mirror
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The problem is that the check of user input values that is just before the fixed line of code is for the part of first values (before len or before len/2), but then the usage of all the values including is > len (or i >= len/2) could be.

Since the resulted array of values inited by default with some good values, the fix is to ignore out of bounds values and just to use only correct input values by user.

Originally detected by Murray with this simple poc (If you run the following as an unprivileged user on a default install it will instantly panic the system:
int main(void) {
    int fd, ret;
    unsigned int buffer[10000];
             fd = open("/dev/input/js0", O_RDONLY);
if (fd == -1)
                        == -1)
printf("Error opening file\n");
             ret = ioctl(fd, JSIOCSBTNMAP & ~IOCSIZE_MASK, &buffer);
printf("%d\n", ret);
Fixes: 182d679b2298 ("Input: joydev - prevent potential read overflow in ioctl")
Reported-by: Murray McAllister <murray.mcallister@gmail.com>
Signed-off-by: Alexander Larkin <avlarkin82@gmail.com>
 drivers/input/joydev.c | 4 ++--
1 file changed, 2 insertions(+), 2 deletions(-)
diff --git a/drivers/input/joydev.c b/drivers/input/joydev.c
index da8963a9f044..laa067d4a3e8 100644
--- a/drivers/input/joydev.c
+++ b/drivers/input/joydev.c
68 -464,7 +464,7 88 static int joydev_handle_JSIOCSAXMAP(struct joydev *joydev,
             memcpy(joydev->abspam, abspam, len);
             memcpy(joydev->keypam, keypam, len);
             out:
2.27.0
                           reply other threads:[~2021-06-20 12:01 UTC|newest]
find likely ancestor, descendant, or conflicting patches for this message: dfblob:da8963a9f04 dfblob:laa067d4a3e
search
                         (help)
Reply instructions:
You may reply publicly to this message via plain-text email using any one of the following methods:
* Save the following mbox file, import it into your mail client, and reply-to-all from there: \ensuremath{\mathsf{mbox}}
   Avoid top-posting and favor interleaved quoting: https://en.wikipedia.org/wiki/Posting_style#Interleaved_style
* Reply using the --to, --cc, and --in-reply-to switches of git-send-email(1):
   git send-email \
--in-reply-to-20210620120030.1513655-1-avlarkin82@gmail.com \
--to-avlarkin82@gmail.com \
--cc-dan.carpenter@oracle.com \
--cc-linux-input@vger.kernel.org \
--cc-linux-input@vger.kernel.org \
--cc=murray.mcallister@gmail.com \
--cc=cmurray.mcallister@gmail.com \
/-path/to/YOUR_REPLY
   https://kernel.org/pub/software/scm/git/docs/git-send-email.html
* If your mail client supports setting the In-Reply-To header via mailto: links, try the mailto: link
Be sure your reply has a Subject: header at the top and a blank line before the message body.
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This is a public inbox, see mirroring instructions for how to clone and mirror all data and code used for this inbox; as well as URLs for NNTP newsgroup(s).