[Live-devel] Stack Overflow in FD SET()

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To whom it may concern,

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I am a researcher working on fuzzing and I would like to report a stack overflow bug in live555. When a large number of requests for the same MP3 file in a short time, the live555 quickly open the same MP3 file multiple time. Then, the value of the newly assigned file descriptor for the mp3 file quickly exceed 1024 here: liveMedia/MP3FileSource.cpp: 46
It uses "select()" system call to check if the file is readable. However, the "select()" usually support maximum 1024 file descriptor value, so it incurs a stack overflow in FD_SET:
MP3StreamState.cpp: 343 This is the output from AddressSanitizer: [cid:image001.ipg at 01D788BA.302143E0] To reproduce it, please download the attachment: 1. Build the docker image: docker build . -t live555 bug Start a container on the image and open two terminals.
 In one terminal, run the live555:
 cd live/testProgs/; ./testOnDemandRTSPServer 1. On the other terminal, run the poc: ./poc.sh Then the testOnDemandRTSPServer would crash in several seconds. An HTML attachment was scrubbed...

URL: http://lists.live555.com/pipermail/live-devel/attachments/20210803/7ede9297/attachment-0001.htm
A non-text attachment was scrubbed...
Name: image001.jpg
Type: image/jpeg
Size: 136257 bytes
Desc: image001.jpg
URL: <a href="http://lists.live555.com/pipermail/live-deve"/"http://lists.live555.com/pipermail/live-deve"/"http://lists.live555.com/pipermail/live-deve"/"http://lists.live555.com/pipermail/live-deve"/"http://lists.live555.com/pipermail/live-deve"/
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