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# funny sidequest ... race condition? #64

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[Open](#) mereportertmp12432 opened this issue 2 days ago · 2 comments



**mereportertmp12432** commented 2 days ago · edited

hi, i have a panasonic cf19mk6 with qm77 chipset and this is the story of how I was able to corrupt - and hopefully disable - my ME using fwupdcl and the integrated programmer, so it may inspire future "research".

## me config

Local FWUpdate: Enabled  
BIOS Config Lock: Enabled  
Host Read Access to ME: Disabled  
Host Write Access to ME: Disabled

## behaviour for fwupdcl with me\_cleaned ME.bin

<https://filebin.ca/3ZorKoSiEb12/MEREG-muchdisable.bin>  
C:\UpdateMeFirmware\Data801>FWUpdLcl64.exe  
-oemid D6B09D64-DA23-49A9-8888-F663BE603389 -allowsv -f "MEREG-muchdisable.bin"  
Intel (R) Firmware Update Utility Version: 8.1.40.1456  
Copyright (C) 2007 - 2013, Intel Corporation. All rights reserved.  
Communication Mode: MEI  
Checking firmware parameters...  
Warning: Do not exit the process or power off the machine before the firmware update process ends.  
Sending the update image to FW for verification: [ COMPLETE ]  
FW Update: [ 15% (Stage: 4 of 19) (-)]  
Error 8741: FW Update Failed.  
Error 8707: Firmware update failed due to an internal error

## partially update OEM stock ME.bin

<https://filebin.ca/3ZoqtxiQEx5m/ME.bin>  
C:\UpdateMeFirmware\Data801>FWUpdLcl.exe -oemid D6B09D64-DA23-49A9-8888-F663BE603389 -allowsv -f "ME.bin"  
Intel (R) Firmware Update Utility Version: 8.1.40.1456  
Copyright (C) 2007 - 2013, Intel Corporation. All rights reserved.  
Communication Mode: MEI  
Checking firmware parameters...  
Warning: Do not exit the process or power off the machine before the firmware update process ends.  
Sending the update image to FW for verification: [ COMPLETE ]  
FW Update: [ 35% (Stage: 13 of 19) (-)]

### Assignees

No one assigned

### Labels

None yet

### Projects

None yet

### Milestone

No milestone

### 2 participants



## HIBERNATE, after being in Stage13 for 2-3 seconds ... last seen "50%" and Stage 14/19

^C Update: [ 0% (Stage: 0 of 19) (|)]

## RESUME, now see 0%, program hangs, so ctrl-c && hijack session with me\_cleaned ME.bin

<https://filebin.ca/3ZorKoSiEbl2/MEREG-muchdisable.bin>

```
C:\UpdateMeFirmware\Data801>FWUpdLcl.exe -oemid D6B09D64-DA23-49A9-8888-F663BE603389
-allowsv -f "MEREG-muchdisable.bin"
```

Intel (R) Firmware Update Utility Version: 8.1.40.1456

Copyright (C) 2007 - 2013, Intel Corporation. All rights reserved.

Communication Mode: MEI

Checking firmware parameters...

Warning: Do not exit the process or power off the machine before the firmware update process ends.

Sending the update image to FW for verification: [ COMPLETE ]

FW Update: [ 35% (Stage: 13 of 19) (-)]

## it directly jumps to Stage 13 35% ... cool?

FW Update: [ 100% (Stage: 19 of 19) (-)]

FW Update is complete and a reboot will run the new FW.

## results

other oem strings @ panasonic pcinfo <http://picpaste.com/diff-pcinfo.png>

PRE-BOOT and other ME-Name @ meinfo <http://picpaste.com/diff-meinfo.png>

Recovery state and two wiped registers @ <http://picpaste.com/diff-intelmetool.png>

fwupdclcl -fwver shows version, but -save and -f just hang

memanuf reports some error

ctrl-p reports "FW Status Recovery Error" and then just boots

no issues so far, doesnt powercycle after 30 min or anything. seems good to me, especially the "pre-boot"

thingy ... but what the heck do i know



**mereportertmp12432** commented 9 hours ago • edited

any suggestions for one of those hipster vulnerability names?

i'll throw "UpDateME" and "Sleeper Hold" in the room for starters.



**archfan** commented 9 hours ago

any suggestions for one of those hipster vulnerability names?

Hodl me tight.