

FIXING ZOMBIELOAD VULNERABILITIES

On MacOS

ALL APPLE COMPUTERS SINCE 2011



- **ATTACKS CAN LEAK CONFIDENTIAL DATA**
- **REAL-WORLD SETTINGS (CLOUD, BROWSERS, ETC.)**
- **CAN LEAK IN-FLIGHT DATA**
- **BUGS ARE ACTUALLY SYSTEMIC**
- **HARDWARE VULNERABILITIES BECOMING THE NEW HUNTING GROUND FOR ATTACKERS**

UNSUPPORTED MODELS

- **MACBOOK (13-INCH, LATE 2009)**
- **MACBOOK (13-INCH, MID 2010)**
- **MACBOOK AIR (13-INCH, LATE 2010)**
- **MACBOOK AIR (11-INCH, LATE 2010)**
- **MACBOOK PRO (17-INCH, MID 2010)**
- **MACBOOK PRO (15-INCH, MID 2010)**
- **MACBOOK PRO (13-INCH, MID 2010)**
- **IMAC (21.5-INCH, LATE 2009)**
- **IMAC (27-INCH, LATE 2009)**
- **IMAC (21.5-INCH, MID 2010)**
- **IMAC (27-INCH, MID 2010)**
- **MAC MINI (MID 2010)**
- **MAC PRO (LATE 2010)**

INTEL HAS DECIDED TO NOT RELEASE FIXES FOR THESE MODELS

PROTECTING YOUR MAC

1 INSTALL SECURITY UPDATES

<https://support.apple.com/kb/HT210107>

2 RESTART YOUR MAC IN MACOS RECOVERY

Reboot your Mac and hold <CMD><R> while rebooting

3 GO TO UTILITIES AND CLICK ON TERMINAL

TYPE THE FOLLOWING COMMANDS USING LOWER-CASE:

1 **NVRAM
BOOT-ARGS="CWAE=2"**

2 **NVRAM
SMTDISABLE=%01**

YOU'RE DONE WITH THE TERMINAL

SELECT “RESTART”

YOU MAY LOSE 40% PERFORMANCE



- **LAST STEP DISABLED HYPERTHREADING -- THE BIGGEST SECURITY PROBLEM**
- **IT WILL SLOW YOUR COMPUTER BY 20% TO 40%**
- **IF YOUR COMPUTER IS TOO SLOW YOU CAN REMOVE THE SECURITY FIX...**

REMOVING SECURITY WORKAROUND

Resetting your NVRAM

- 1 SHUT DOWN YOUR MAC**
- 2 TURN IT BACK ON**
- 3 IMMEDIATELY HOLD THESE FOUR KEYS:**
<CMD><OPTION><P><R>
- 4 ALLOW YOUR MAC TO REBOOT TWO TIMES**

Apple Article: <https://support.apple.com/en-us/HT204063>

AFTER RESETTING, YOU MAY WANT TO CHECK YOUR SYSTEM PREFERENCES SUCH AS:



- **SOUND VOLUME**
- **STARTUP DISK SELECTION**
- **DISPLAY RESOLUTION**
- **TIME ZONE**



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