

# ESP8266 exception 29

Asked 5 years, 1 month ago   Active 7 months ago   Viewed 9k times

```
Exception (29):
epc1=0x40202556 epc2=0x00000000 epc3=0x00000000 excvaddr=0x00000000 depc=0x00000000
0
ctx: cont
sp: 3ffef940 end: 3ffefbb0 offset: 01a0
>>>stack>>>
3ffefae0: 3ffe84d4 00000001 3ffefb30 40204b6a
3ffefaf0: 3ffecb70 40214154 3ffefb30 40204b9a
3ffefb00: 3ffefb30 00000000 3ffefb30 40204be8
3ffefb10: 3ffe84d4 3ffeeb84 3ffeeb7c 3ffeeb84
3ffefb20: 3ffffdc20 00000000 3ffeeb7c 40202673
3ffefb30: 3ffff1c48 0000000f 00000001 3ffff1ae0
3ffefb40: 0000000f 00000008 3ffefb78 40204a58
3ffefb50: 3ffffdc20 00000000 3ffeeb7c 40202823
3ffefb60: 3ffe8530 00000000 000003e8 0024b4d2
3ffefb70: 00000000 3ffff1b68 3ffff1ac0 0000000f
3ffefb80: 00000008 0707a8c0 00000000 00000000
3ffefb90: 00000000 00000000 3ffeeb7c 40203631
3ffefba0: 00000000 00000000 3ffeeb90 40100114
<<<stack<<<
Setup begin...
```

I have Wemos D1 connected to pc in AP mode. When I send a lot of message it give me an exception. Baudios: 921600.

arduino   esp8266

Share   Improve this question   Follow

edited Feb 8 '17 at 15:07

asked Dec 27 '15 at 19:22



Community ♦

1 1



gonmaster

1 1 3

I have same issue with esp8266-01. Any solution with Aduino? – [Khalil Laleh](#) Jul 16 '16 at 0:22

hi, you have one ore some functions that need a lot of exertion. in me case. I have in arduino a function to splits the mesage that recive from Esp8266 and it make a bottleneck giving that exception. I change split function to .readString() and work it – [gonmaster](#) Jul 17 '16 at 10:04

Long time gone, I know. Do you still have your faulty script? I'be curious to see it, because I get the same exception, but I'm running the ESP as Wifi client instead of as an accesspoint. Maybe, we find some matches or have you allready solved the problem? – [Sim Son](#) Nov 4 '17 at 17:05

1 Answer

Active   Oldest   Votes



1



I am getting the same exception from my ESP8266, so I did some research. It was tricky to track-down a list of exception codes, but I found one in an ebook published by Neil Kolban and downloadable here: [https://leanpub.com/ESP8266\\_ESP32](https://leanpub.com/ESP8266_ESP32). (Well worth the \$5 suggested price, IMO.)

Anyway, to your question: Exception 29 is 'storeprohibitedcause,' meaning that your code tried to write to a protected area in memory.

The value given for excvaddr shows the virtual memory address (0x00000000) that caused the exception. Kolban's book gives this link to a map of the ESP8266's memory addresses: [http://www.esp8266.com/wiki/doku.php?id=esp8266\\_memory\\_map](http://www.esp8266.com/wiki/doku.php?id=esp8266_memory_map).

Your code faulted at program counter (epc1) 0x40202556, information that can help you figure-out what part of your code caused the offending memory write. There are debuggers that you can use to track this down, but, in my own case, I know where the problem is so I haven't researched that avenue any further.

Share Improve this answer Follow

answered Jan 1 '16 at 22:06



t\_henderson

19 1

---

Can you elaborate a little more about what debuggers you used? And in addition to that, what your resolution you took? I too have the same problem. – Aditya Talpade Dec 15 '18 at 19:16

---

@AdityaTalpade, I didn't use any debugger. I just did some digging on the internet, found the ebook I mentioned, and went from there. For whatever it was that I was struggling with (don't remember now), that was enough to let me find the remedy. – t\_henderson Dec 16 '18 at 20:52

---