

ESPhttpUpdate.update 升级快完成时掉电，系统异常

```
us1
??*?P*V?EIT????T??+??u?U+UZ?Z?T????IQT?UQ??jP? ??u????ZT? (UE????QR?Eu?? ??*???jPE*?u?? E+????)UZV? R?E?j*QR?E? ?*? ER??IT*U?
SDK:2.2.2-dev(38a443e)/Core:3.0.0=30000000/lwIP:STABLE-2_1_2_RELEASE/glue:1.2-48-g7421258/BearSSL:c0b03df
fpm close 3
mode : sta(f4:cf:a2:72:1b:18)
add if0
scandone
state: 0 -> 2 (b0)
state: 2 -> 3 (0)
state: 3 -> 5 (10)
add 0
aid 14
cnt

connected with GL-H6-2, channel 3
dhcp client start...
ip:192.168.1.252,mask:255.255.255.0,gw:192.168.1.1
[httpUpdate] Header read fin.
[httpUpdate] Server header:
[httpUpdate] - code: 200
[httpUpdate] - len: 463312
[httpUpdate] ESP8266 info:
[httpUpdate] - free Space: 581632
[httpUpdate] - current Sketch Size: 463312
[httpUpdate] runUpdate flash...
[httpUpdate] peekBytes x: 4
sleep disable
pm open,type:0 0
[httpUpdate] Update ok
state: 5 -> 0 (0)
rm 0
pm close 7
del if0
us1
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ets Jan 8 2013,rst cause:1, boot mode:(3,7)

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ets Jan 8 2013,rst cause:1, boot mode:(3,7)

load 0x4010f000, len 3460, room 16
tail 4
chksum 0xcc
load 0x3fff20b8, len 40, room 4
tail 4
chksum 0xc9
csum 0xc9
v000711d0
~ld
Fatal exception 0 (IllegalInstructionCause):
epc1=0x4024dd50, epc2=0x00000000, epc3=0x00000000, excvaddr=0x00000000, depc=0x00000000

----- CUT HERE FOR EXCEPTION DECODER -----

Exception (0):
epc1=0x4024dd50 epc2=0x00000000 epc3=0x00000000 excvaddr=0x00000000 depc=0x00000000

>>>stack>>>

ctx: sys
sp: 3fffe8c0 end: 3fffffb0 offset: 0190
3fffea50: 00000000 00000000 00000000 00000000
3fffea60: 4024e721 00000000 00000000 00000000
3fffea70: 4025c8c7 40105bb8 00000000 00000000
3fffea80: 00000000 400042db 40105e6d 000001fd
3fffea90: 00000082 00000020 00000000 00000001
3fffeaa0: 40105e67 40105cd7 00000003 00000000
3fffeab0: fffff7f4 ffffffff ffff0001 00000007
3fffeac0: 482d4c47 00322d36 3fffeec 40211c90
3fffead0: 40211c84 3ffef260 3fffeec 40212019
3fffeae0: 00030503 47000001 3236486c 00313034
3fffeaf0: 6d3ffffe da402122 003ffe8d 0d000000
```

未掉电，下次正常启动

升级过程中，如果在这里掉电，
ESP8266再次启动将会异常Crash

此时掉电，下次启动异常Crash，必现

升级过程中，到这里之后断电，再上电
启动即异常
这里一段是乱码，不清楚是什么打印

```
ESPhttpUpdate.setLedPin(LED_PIN);
ESPhttpUpdate.rebootOnUpdate(false);
WiFiClient client;
S_PL(urlOTA);
t_httpUpdate_return OTA = ESPhttpUpdate.update(client, urlOTA);
if(OTA != HTTP_UPDATE_OK) {
  S_P("UpdateByOTA: ");S_P(ESPhttpUpdate.getLastErrorMessage().c_str());S_PL("!");
}
ESP.restart();
```

[httpUpdate] Update ok

state: 5 -> 0 (0)

rm 0

pm close 7

del if0

usl

??*?P*V??ET????T??+??u?U+UZ??Z??T??TQT?UQ??J????u????ZT?(UE????QR?Eu????*???)

PE*?u??E+???)UZV?R?E?j*QR?E??*?ER??TT*U?

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3fffea80: 00000000 400042db 40105e6d 000001fd

3fffea90: 00000082 00000020 00000000 00000001

3fffeaa0: 40105e67 40105cd7 00000003 00000000

3fffeab0: fffe7f4 ffffffff ffff0001 00000007

3fffeac0: 482d4c47 00322d36 3fffeec 40211c90

3fffead0: 40211c84 3ffef260 3fffeec 40212019

3fffeae0: 00030503 47000001 3236486c 00313034

3fffeaf0: 6d3ffffe da402122 003ffe8d 0d000000

3fffeb00: fd6f000a da402156 f03ffe8d ef4bc6a7
3fffeb10: 380bc6a7 00353634 00000000 f0000000
3fffeb20: 7c4bc6a7 003fffff e28ad284 d296942e
3fffeb30: 1dba09f8 1c1c0229 911b3f99 a815e2ca
3fffeb40: c74311de 1d7214fb ffffffff ffffffff
3fffeb50: ffffffff ffffffff 1f0000ff a1f6347a
3fffeb60: 00000005 38383838 00000038 40250442
3fffeb70: 000001ff 40250493 000008c0 00000118
3fffeb80: 00000118 38383838 38383838 00000000
3fffeb90: 00000020 40100d08 3ffe84c5 00000002
3fffeba0: 00000020 40100cd3 40100f6e 00000041
3fffebb0: 00000002 40100f60 3ffe88b8 00000000
3fffec0: 202e2e2e be253d00 837c76b6 2b6826c9
3fffec10: 1ce46b67 a7cb7dc4 f369cdb5 aa2cb4f9
3fffec20: 7a293ae5 000301a2 ffffff04 ffff0001
3fffec30: 00000007 482d4c47 00322d36 3fffeec
3fffec40: 40211c90 40211c84 3ffef260 3fffeec
3fffec50: 40212019 36486c47 31303432 3fffe00
3fffec60: 4021226d 3ffe8dda 00000000 6f000a0d
3fffec70: 402156fd 3ffe8dda 4bc6a7f0 0bc6a7ef
3fffec80: 35363438 00000000 00000000 4bc6a7f0
3fffec90: 3ffff7c ffffffff ffffffff ffffffff
3fffed00: ffffffff ffffffff ffffffff ffffffff
3fffed10: ffffffff ffffffff ffffffff ffffffff
3fffed20: ffffffff ffffffff ffffffff ffffffff
3fffed30: ffffffff ffffffff ffffffff ffffffff
3fffed40: ffffffff ffffffff ffffffff ffffffff
3fffed50: ffffffff ffffffff ffffffff ffffffff