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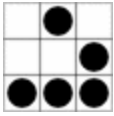
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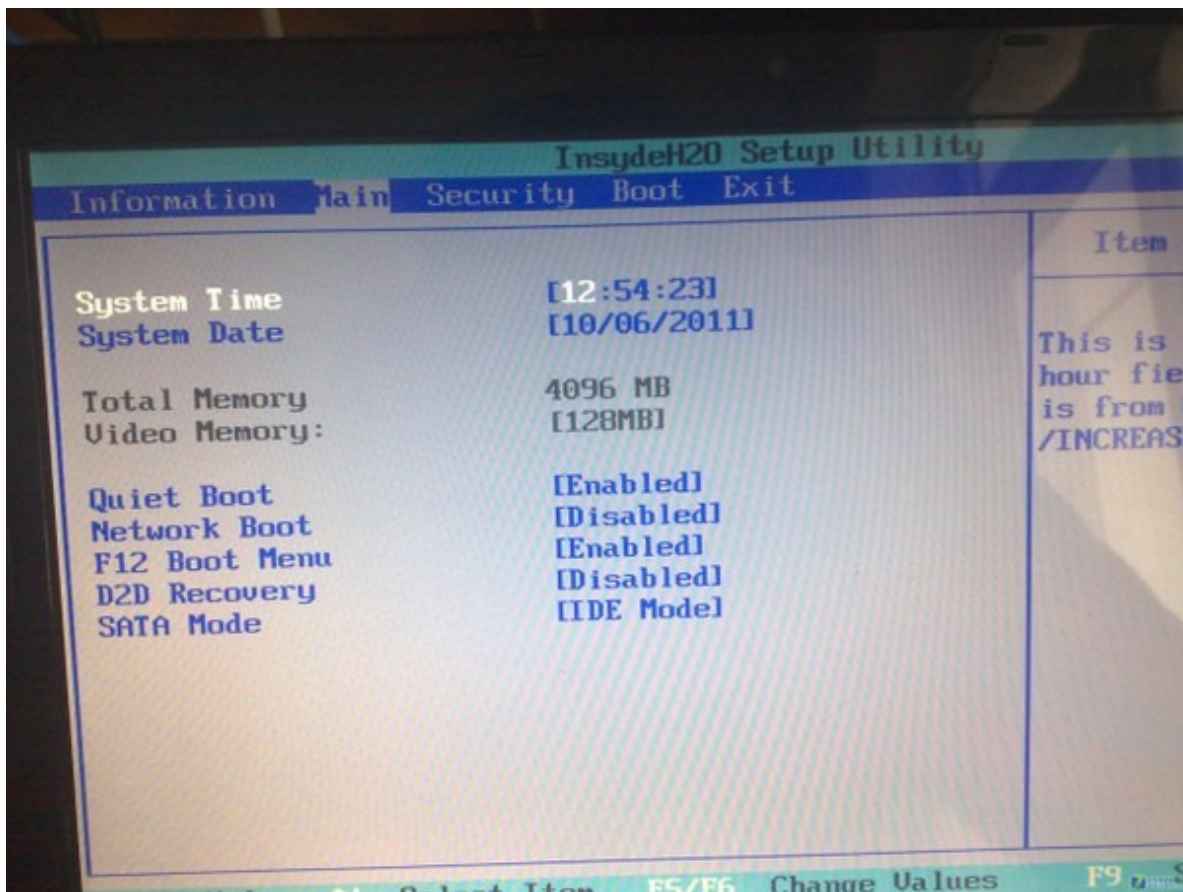
Based [www.h4ck.org.cn](http://www.h4ck.org.cn) works on creation.

<< [QQ International 1.6 \(2739\) Today & Plugin Check Patch](#)  
[Talk WindowsBlinds 7.4 probationary period](#) >>

## Acer 5742G Bios (1.30) to modify

Posted on 09/12/2012 | by the [obaby](#)

Bios various notebook manufacturers have largely been set various restrictions, leaving few options that can be modified, and if you want to do some advanced configuration, but no way. So he can only think of ways to solve, such as Acer's notebook on the left so few options.



To be honest, these options are basically nothing too useful, and I do not want to change bios startup screen is right and what modifications are interested in that stuff really did not mean shrimp.

From casual online search, see the articles mentioned in the main program to modify bios related content. But the basic are not out insyde EzH20 this thing, unfortunately this thing on my laptop can not load the bios file, search for the next 2m is said to be unable to load more than one file, this would not work. I have now modified the file 4m. He had to find another method.

From <http://rajko.info/acer/tools/> Download python tool kit, perform python main.py PEW71130.fid

```
管理员: C:\Windows\system32\cmd.exe

版权所有 (c) 2009 Microsoft Corporation。保留所有权利。

F:\Acer_Bios\Python_Scripts>python main.py PEW71130.fd
Opened BIOS 'PEW71130.fd' with md5:5916fbec7460c3ed314ccb8885b6134b
Operating on BIOS data/original_bios-mine.fd size = 0x400000
Loading compressed sections
.. found 3 compressed sections
Locating Firmware Volumes
.. found 9 FirmwareVolumes (5 compressed)
Wrote SetupUtility to data/SetupUtility-mine.pe
Size = 0x85260 MD5: 35e35e0f9d7c6ef48ccb892a3c4a4860
STRING_TABLE = 0x18560
String table:
Language: eng (English)
String count: 939
Location = 0x7ee10
Location = 0x7f1f0
Location = 0x7f280
Location = 0x7f400
Location = 0x7f970
Location = 0x7fad0
Location = 0x83cb0
Have vss_volume: <FirmVol position=0x390000 size=0x00ffb8 where=None [USS]>
Have vss_volume: <FirmVol position=0x3a0000 size=0x05ffb8 where=None [USS]>
Have vss_volume: <FirmVol position=0x000010 size=0x47ffb8 where=[compr at 0x281069] [USS]>
Done
```

After the extraction is completed can be found in the data directory SetupUtility-mine.pe files loaded directly ida64 analyze, navigate to the following address (the file corresponds acer 5742g 1.30 version of bios, the address may not be consistent with other versions)

```
00000000180001240 mov     rax, [rsp+60h]
00000000180001245 movzx  eax, word ptr [rax+12h]
00000000180001249 cmp     eax, 070
0000000018000124C jz      loc_1800012F0

00000000180001252 mov     rax, [rsp+60h]
00000000180001257 movzx  eax, word ptr [rax+12h]
0000000018000125B cmp     eax, 2830
00000000180001260 jz      loc_1800012F0

00000000180001266 mov     rax, [rsp+60h]
0000000018000126B movzx  eax, word ptr [rax+12h]
0000000018000126F mov     [rsp+80h], ax
00000000180001277 mov     rax, cs:qword_180084B38
0000000018000127E movzx  edx, byte ptr [rax+49h]
```

Code is as follows:

```
text: 0000000018000122C mov rax, cs: qword_180084B38
```

```

. Text: 00000000180001233 movzx eax, byte ptr [rax +49 h]
. Text: 00000000180001237 cmp eax, 0Ah
. Text: 0000000018000123A jge loc_1800012F0
. Text: 00000000180001240 mov rax, [rsp +68 h]
. Text: 00000000180001245 movzx eax, word ptr [rax +12 h]
. Text: 00000000180001249 cmp eax, 67h
. Text: 0000000018000124C jz loc_1800012F0
. Text: 00000000180001252 mov rax, [rsp +68 h]
. Text: 00000000180001257 movzx eax, word ptr [rax +12 h]
. Text: 0000000018000125B cmp eax, 283h
. Text: 00000000180001260 jz loc_1800012F0
. Text: 00000000180001266 mov rax, [rsp +68 h]

```

Modification method is relatively simple, direct to three consecutive jz loc\_1800012F0 can jump nop out, there is no way to use ida modification, you can use winhex or other tools to find the corresponding address to be modified.

If you can not locate the address above by alt + I immediate search, search 67h to find a similar place on it.

Now the main goal has been reached, but the procedures need to be modified after the re-packaged into fd file with c32asm or winhex open PEW71130.fd, search lzma file header 5D 00 80 00, to find the compressed data file header.

<pre> 00281060: F6 79 0F 01 10 00 48 00 02 5D 00 00 80 00 10 00 00281070: 48 00 00 00 00 00 00 08 00 06 A4 4D 9A 51 BC 63 00281080: E1 14 87 6A A2 02 E7 20 14 C7 50 99 AB B3 95 49 00281090: 64 52 58 16 43 4A EF C8 D9 72 60 E5 02 D6 7A 24 002810A0: 70 A2 BD 18 1D 60 72 99 3E E5 07 05 80 99 8F BE 002810B0: C4 F5 BC 2D 1D 6B 8F FE 0D 84 A1 7B 63 1C 7C 86 002810C0: 72 F9 34 63 85 4D CB 3D E2 D3 43 BE 9B 68 4A 62 002810D0: 7C 52 B1 3A 3A C3 1E 30 BD 71 12 2E 91 00 24 52 002810E0: B3 3E 47 00 7E 99 9C 9F D2 16 7B BB 1D 9F 60 16 002810F0: BE 87 6A DE 13 D9 96 5D 00 58 03 A3 8A 4C 35 7D 00281100: 9E 8E 62 63 73 74 37 97 CB FA 6F 74 23 2F 8A C6 00281110: 6C A9 E8 C7 DF 25 C2 49 B9 84 4B CF 76 B2 DD E6 00281120: 32 38 F1 57 EC A5 8F 31 39 3D 12 88 72 EA ED BC 00281130: E2 CC D2 F9 52 8D B5 D8 E4 87 7B 61 58 84 A9 3F 00281140: 81 FA 6C DD 16 58 2E 1C 78 5D DE A0 9E CA 55 57 00281150: E6 53 4C F0 FD 8D B6 82 AE BB 89 7B 83 FB 74 E8 00281160: DC F4 E6 41 BF FB 25 08 BE 83 FA 30 FB 46 8D 89 00281170: 57 0F 1A 9B 4E 55 59 96 B4 85 DF A4 88 A9 DF B8 </pre>	<pre> 0y....H...].... H..... 飲櫛 ?嗎??-莊樸磅IÜÜÜ dRX.CJ總賠`?詔\$ÿ p13...`r??-■椅?ÿÿ 孽?.k巨.劇{c. ?ÿ r?c匪?麻C纓hJbÿÿ  R?:?0或...?\$Rÿÿÿ ?G.~梃煙.{?焚.ÿÿ 縉j?懸].X. L5&gt;ÿ 瀘bcst7架鸛t#/妮 1十沁%璉園K蝻草? 28馱欹?9=-.圪觀?ÿ 徹淫R岫亭魚嶮ax劑? 俯1?X...x]送炊UWÿ 錨L瘡磬儲柜{滄t? 行鍬葵%-緝?鵲嶠ÿ W...冷UY樹咄 上? </pre>
--	--

Simply, directly pull down, to find a FF area is the end of the compressed data files (281068-38a1ff):



[illegible][illegible]





```
管理员: C:\Windows\system32\cmd.exe
Microsoft Windows [版本 6.1.7601]
版权所有 (c) 2009 Microsoft Corporation。保留所有权利。

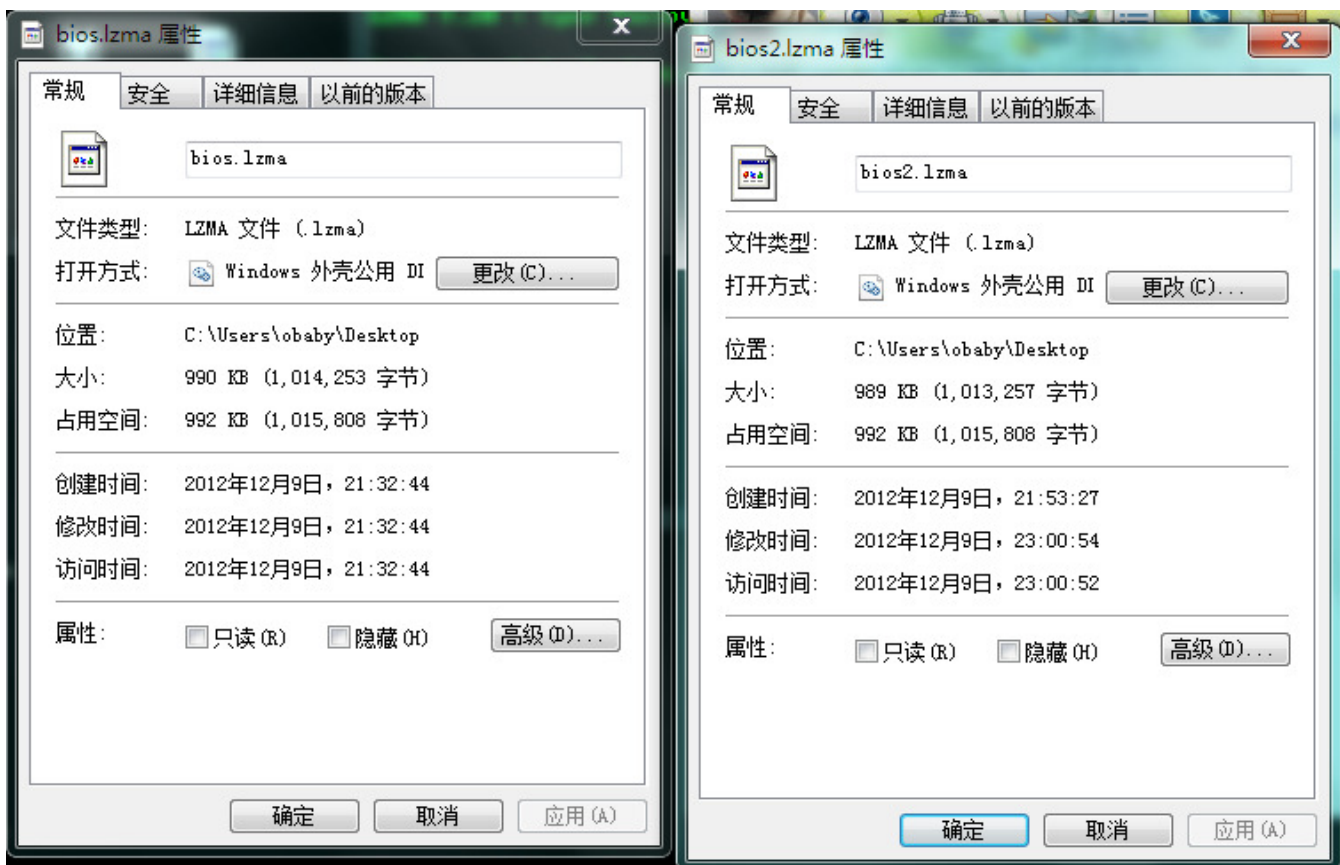
C:\Users\obaby>cd Desktop

C:\Users\obaby\Desktop>lzma.exe e bios2 bios2.lzma

LZMA 9.20 : Igor Pavlov : Public domain : 2010-11-18

C:\Users\obaby\Desktop>
```

Now for the final step, the data cover PEW71130.fd bios2.lzma file 281068-38aff area, this thing should be noted that after modification compressed size 989k, 1k less data.



That coverage will then 1k remaining space, then the original data simply fill out the FF can.

After the modified file is saved, then you can use InsydeFlash.exe refresh bios on:



**insyde®**

## InsydeFlash

Windows(R) BIOS Flash Utility  
Copyright(C) 2010 Insyde Software Corp.  
<http://www.insydesw.com>

	Current BIOS	New BIOS
ID	<input type="text" value="PEW71"/>	<input type="text" value="PEW71"/>
Version	<input type="text" value="V1.30"/>	<input type="text" value="V1.30"/>










Status

Erasing and Writing...

**Do not turn off your computer**

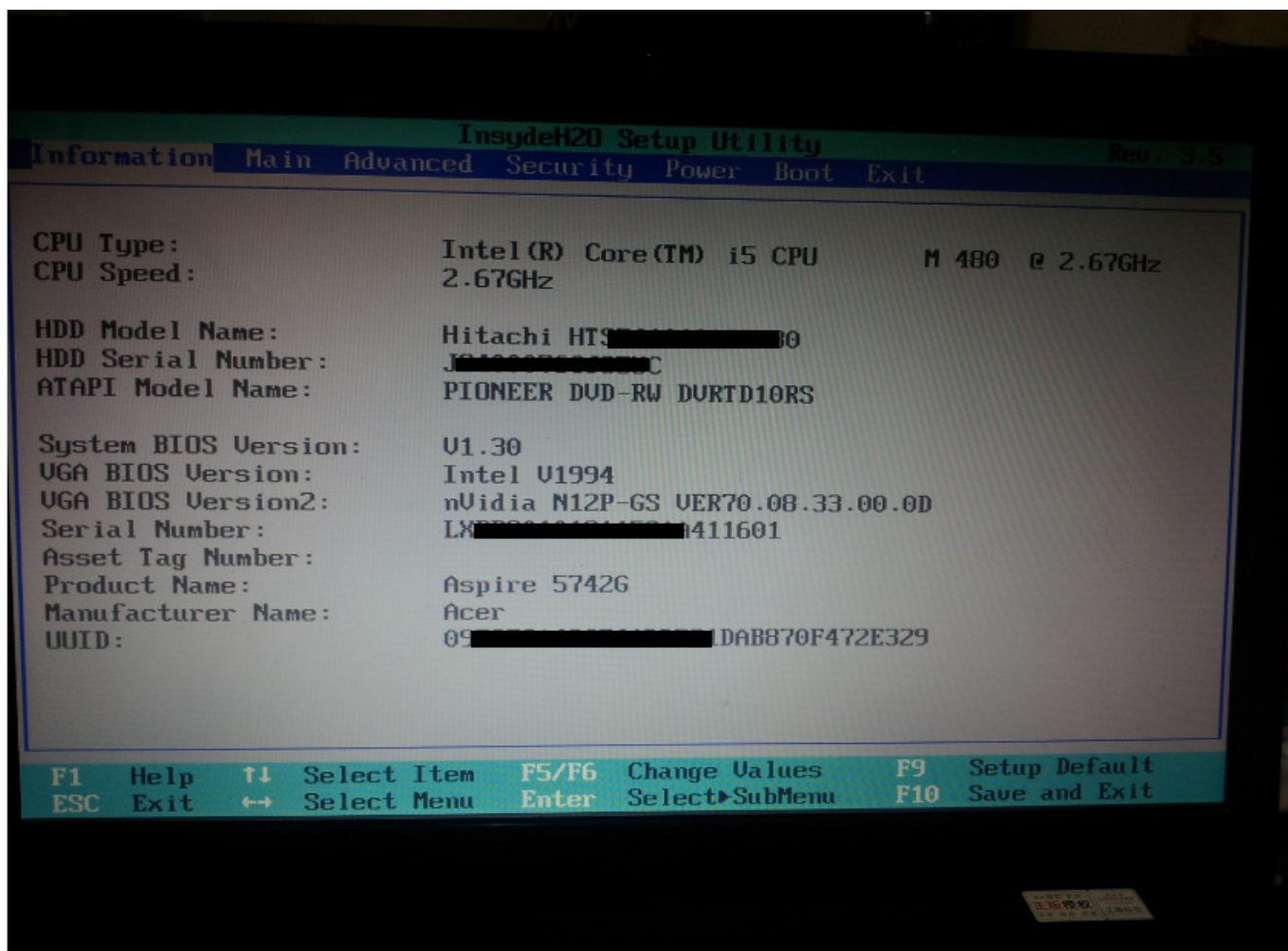
This thing supports flat brush, but does not support downgrading, if you need to downgrade patch can try this program on the line, but this stuff, and this little, interested parties can engage in their own do, because in <http://rajko.info / acer / tools /> low version provides several after revision bios:

# Index of /acer/tools

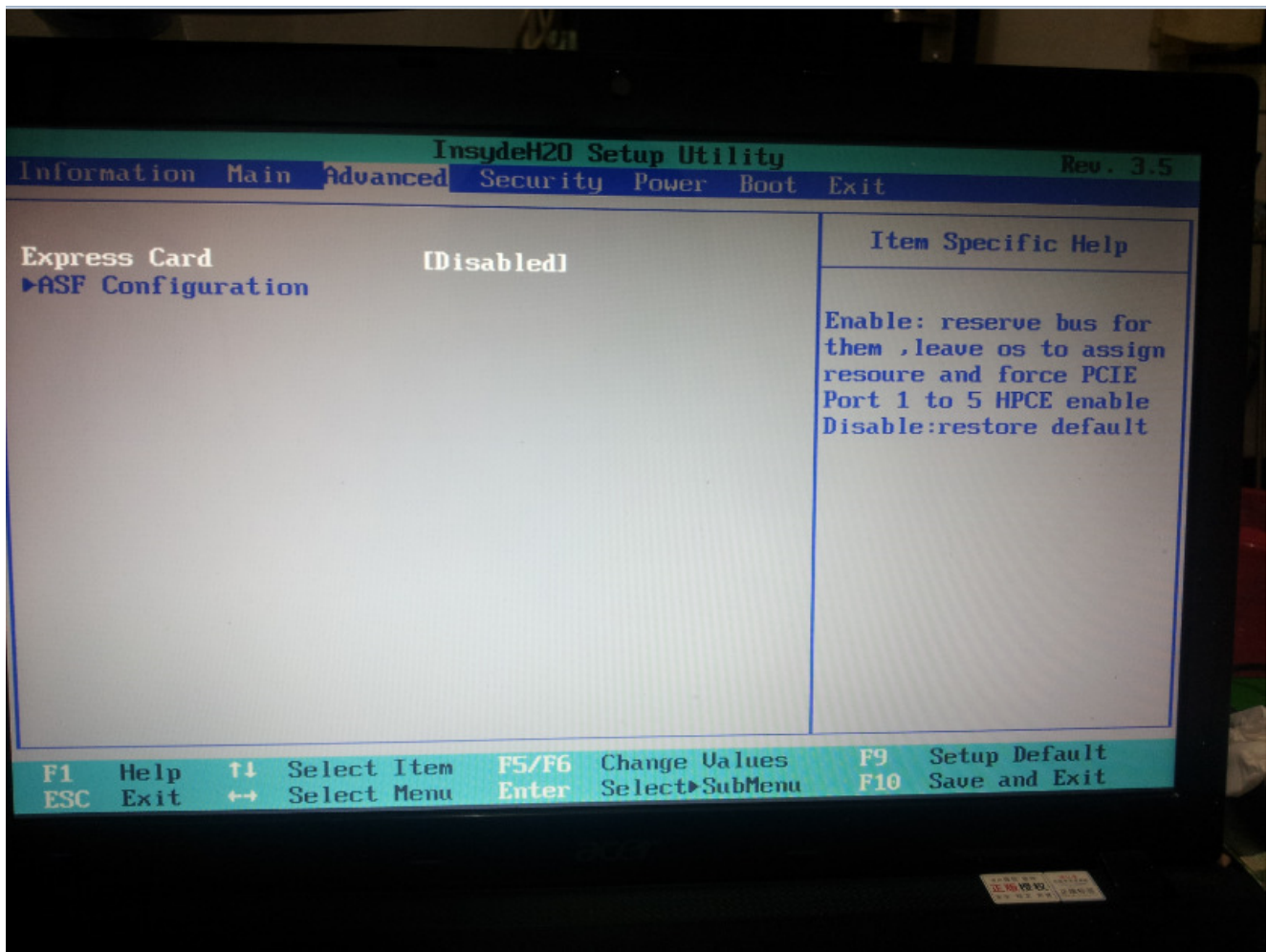
<a href="#">Name</a>	<a href="#">Last modified</a>	<a href="#">Size</a>	<a href="#">Description</a>
 <a href="#">Parent Directory</a>		-	
 <a href="#">ACER5742G_124_MoreOptionsMorePages_UEFIBOOT.rar</a>	13-Sep-2011 00:32	3.5M	
 <a href="#">ACER5742G_MOMP_NA_UB_VRAM_VTYPE115.rar</a>	18-Feb-2011 12:42	1.6M	
 <a href="#">ACER5742G_MOMP_NOATI_UEFIBOOT115.rar</a>	18-Feb-2011 12:42	1.6M	
 <a href="#">ACER5742G_MoreOptionsMorePages115.rar</a>	18-Feb-2011 12:43	1.6M	
 <a href="#">ACER5745PGMorePagesMoreOptions.rar</a>	20-Dec-2010 14:26	2.9M	
 <a href="#">ACER5745PGMorePagesMoreOptions_NonRacist.rar</a>	22-Dec-2010 17:38	2.9M	
 <a href="#">Python_Scripts.rar</a>	21-Dec-2010 00:22	36K	
 <a href="#">acer logo original.rar</a>	19-Dec-2010 20:27	9.9K	

Apache/2.2.22 (Debian) Server at rajko.info Port 80

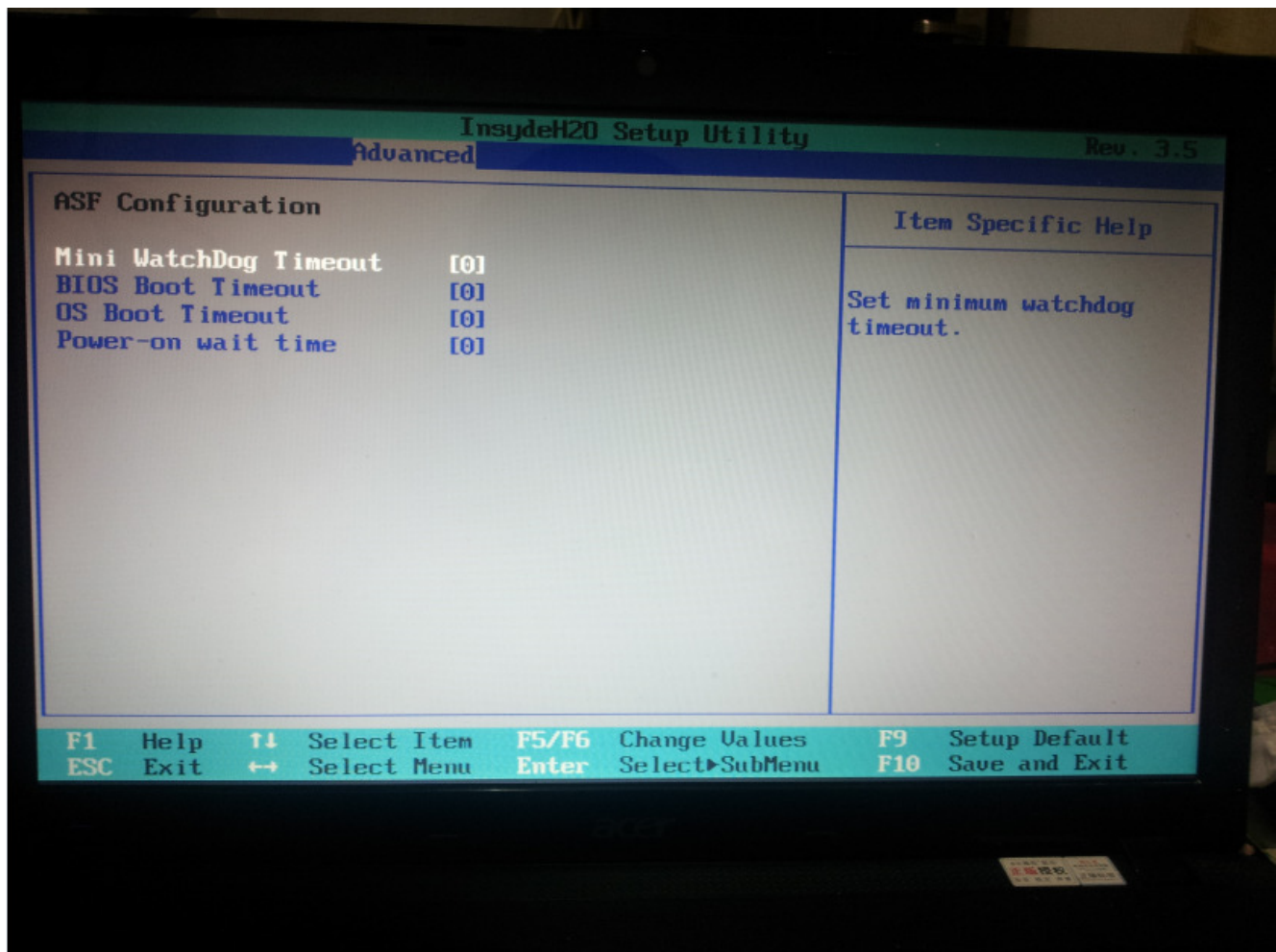
Brush after the restart to see the effect:



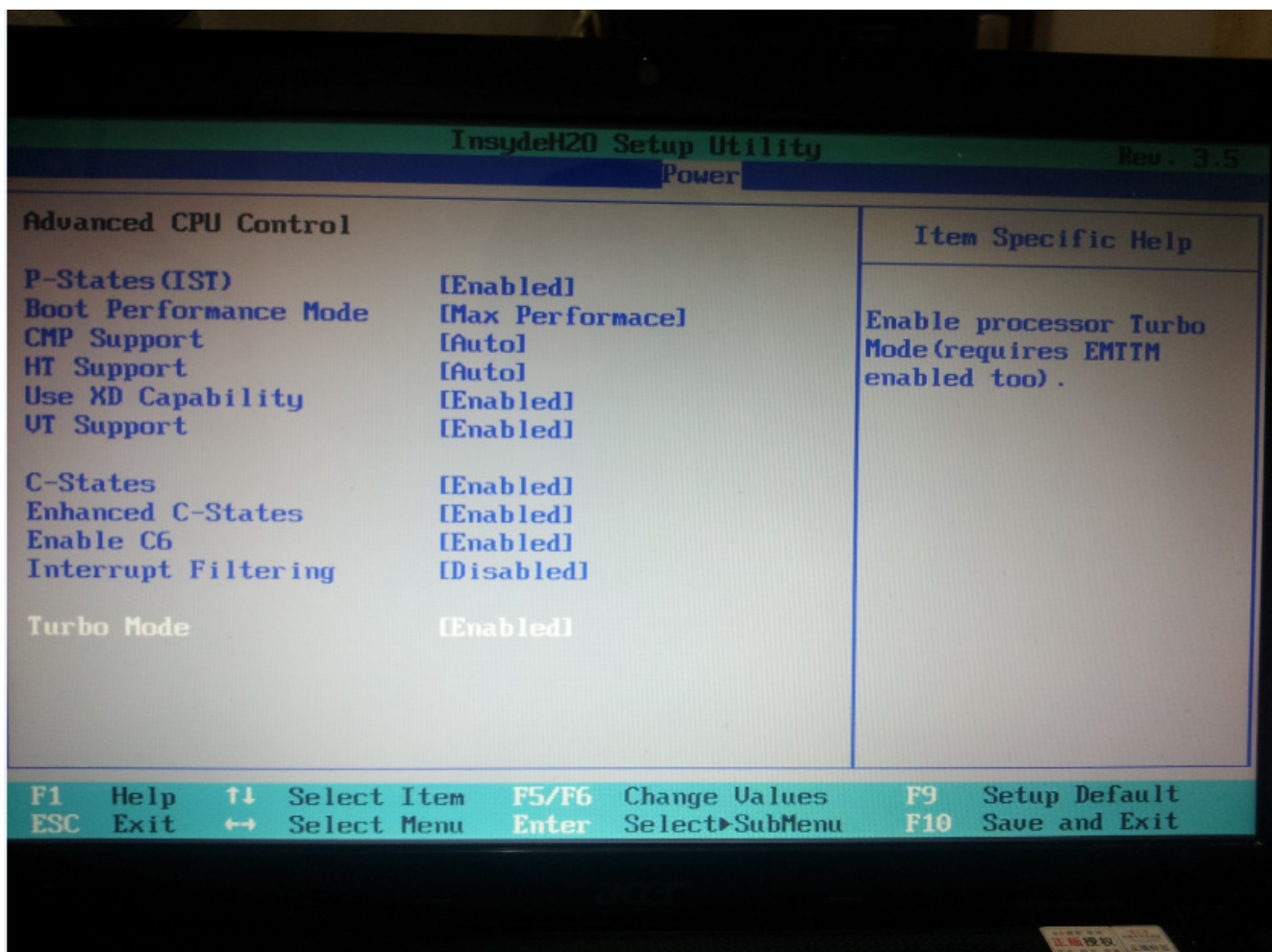




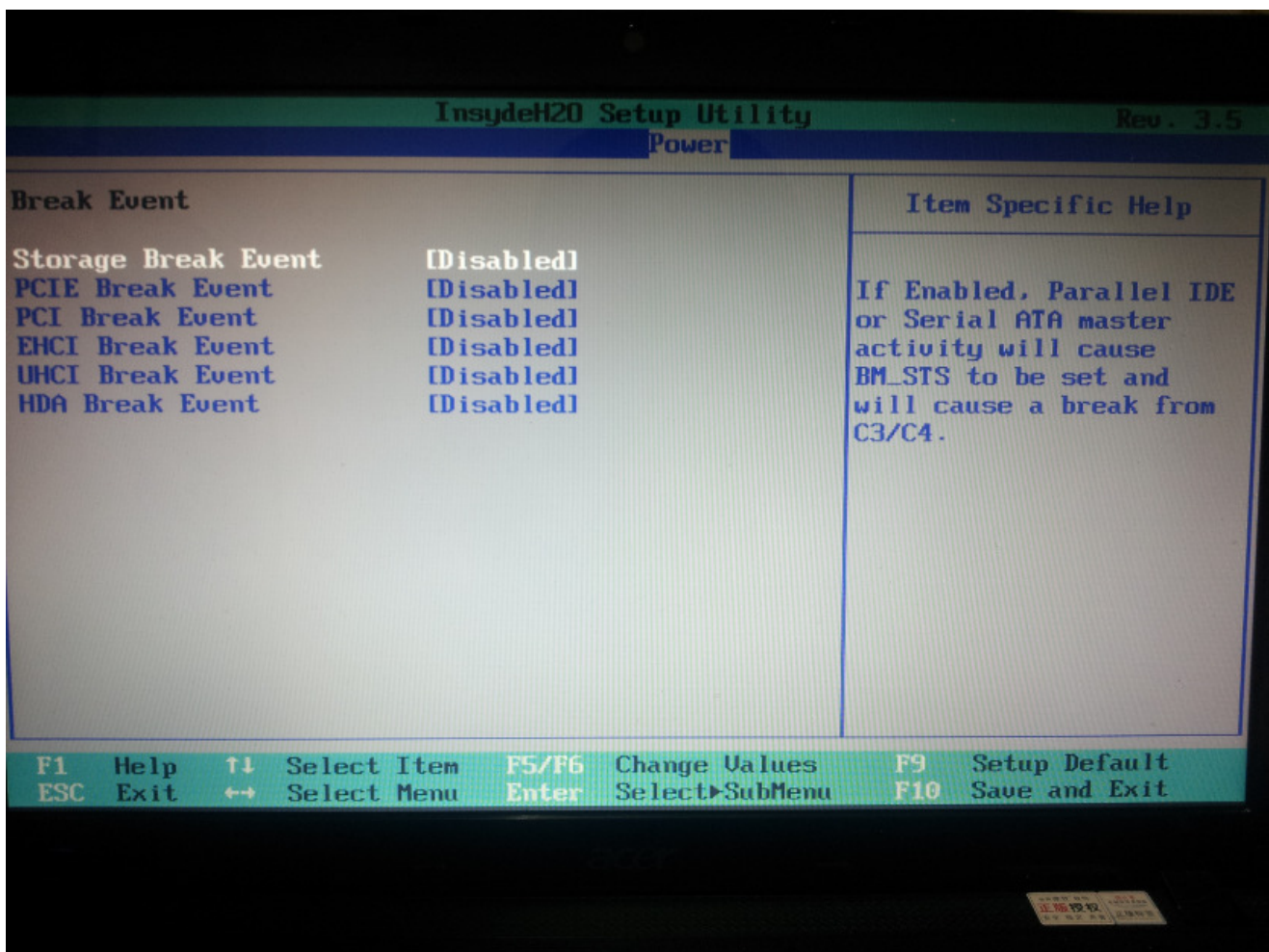
Advanced Options, in fact, still pitiful Options



## ASF settings



## Power Options



## Interrupt Options

Brush Pack: <http://pan.baidu.com/share/link?shareid=164677&uk=3188888025>

Relevant documents and tools: <http://pan.baidu.com/share/link?shareid=164678&uk=3188888025>

## Related Links:

<http://rajko.info/acer/tools/>

[http://forums.mydigitallife.info/threads/23762-ACER-5742G-BIOS-modding-\(unhidden-pages-enabled-UEFI-BOOT\)](http://forums.mydigitallife.info/threads/23762-ACER-5742G-BIOS-modding-(unhidden-pages-enabled-UEFI-BOOT))

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*Article title: [‘Acer 5742G Bios \(1.30\) to modify’](#)*

*This link address: <http://www.h4ck.org.cn/2012/12/acer-5742g-bios1-30%E4%BFAE%E6%94%B9/>*





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"Acer 5742G Bios (1.30) modify" There are 16 comments



• [Mrs White](#) on [10/12/2012 15: 32](#)

Good senior • • • I just brush swipe would be finished.

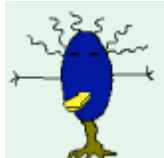
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◦ [obaby](#) on [10/12/201217: 17](#)

I was tossing home, simply swipe not reflect my skill level, haha. So we must brush to brush handsome point.

[Reply](#)



• [Rapido](#) on [31/12/201216: 22](#)

Hi bro, can you unlock more pages in 1.30 pls, you are awesome! <3

[Reply](#)



◦ [obaby](#) on [31/12/201221: 59](#)

well, i have not do any more research, but i will have a try.

[Reply](#)



• [Arkascha](#) on [07/05/201307: 42](#)

Hello,

first i have to thank you for unlocking my bios on my acer 5742g. After hours of searching i found your modded file and after reading the reviews i decided to flash it to my bios. It works great!

But the reason i installed it, was that i hoped to control the fan because my acer has like many of those others overheating problems. Off course there is no option to control the fan, so i believe the last option is to compile it in the installer.

I have no problems if my fan would be everytime on 100%, but a stepped fan would be great! Im no programmer so i cant help myself, but after testing your file i trust you and i hope you can help me and many others.

If you want, i can donate u with paypal. It would be very nice if you could release a modded 1.30 with fan control or modded fan steppings! I would pay for it.

Greetings from Germany

[Reply](#)



o

[obaby](#) on [07/05/201309: 55](#)

I am wondering IF I will continue the Reverse of Acer BIOS. In this Post i Did not do much Research of the BIOS file. There has been a low Release Version of Acer BIOS on this url: <http://rajko.info/acer/tools/> . Since I now mostly Use my MSI GE70, the Acer is now just a Backup Option, SO i do Not spent much time on the Acer laptop. But IF i have time i will have a further Research. Thx for the DONATE, I just reverse the program for fun, so I release everything for free. If ur laptop overheating, u can first try to clean up the cpu fan tunnel for a better wind cool effect.

[Reply](#)



Arkascha on [07/05/201316: 09](#)

Yes i tried so much. But me and many others in Acerforums are looking for a modified bios, with priority point on the fan control. If this isnt possible, the fan could run on 100% all the time, i have no problems with noise . But it would be better if the fan would step until 100%! He is now to lame because of to low rpms and cant cool the laptop enough.

You would help me and many others! A fast work would be really nice from you and i would donate you beacause i need the fan control fast!

[Reply](#)



o

[obaby](#) on [07/05/201316: 18](#)

I am sorry, but I can not say when I will finish the job. Sorry for that.

[Reply](#)



■

Arkascha on [07/05/201316: 22](#)

No problem. I will wait and Visit your site from times to times or would you send me a Email? I like the thought that an asians Hacker writes my new BIOS 😊 Youre great, dude!

[Reply](#)



■

[obaby](#) on [07/05/201316: 29](#)

U do not have to visit my blog all the time, once I done the job I would like to send u the files via the email address with ur nick name. Also u can contact me with the email root (at) h4ck.ws.

[Reply](#)



■

Arkascha on [17/05/201301: 06](#)

Hey dude did u TRY the job?

I need the. exe and are really exited Waiting until your Release

And i dont know How to Thank you for this. 😊

[Reply](#)



■

[obaby](#) on [17/05/201309: 44](#)

Sorry for that, I am changing my job now days, and is so busy that to have time to reverse the file again. In the next half month I have to move to a new city and start a fresh live. I am afraid that until July i will barely have no time to do it.

[Reply](#)



●

Arkascha on [04/07/201320: 37](#)

Hey Dude,

it would be nice to Hear from you soon. Did you Solve the problem with the Fan? If you have any other questions ill TRY to Help u out! 😊

Greetings from Germany

[Reply](#)



○

[obaby](#) on [05/07/201310: 35](#)

Glad to hear from u, but so sorry to say that, I have not have another try to fix the problem. Live in Fucking China is really tough, now I have been back in Shandong, but still live in a small hotel. And have no pleasure to do any research.

Just fucking the shit China.

Wish u have a nice day.

From Shandong China

[Reply](#)



• Arkascha on [25/07/201304: 30](#)

Im so sorry to hurry you up, but my Acer 5742G is over 100 ° Celcius hot this summer time ... i need you to fix my fan speed ... you will help me and many others! Please help me i will to pay you for you work ! Nobody on this World can to this except you .... thats my intention when i Look in many threads.

Greetings from ... Germany!

[Reply](#)



◦ [obaby](#) on [26/07/201322: 59](#)

I think u should clean the cpu fan by open the laptop, this will help u to cool the cpu much better, or just use a laptop cooler to get much more wind. I am sorry for have u wait for a long time.

[Reply](#)

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E-mail \*

Site

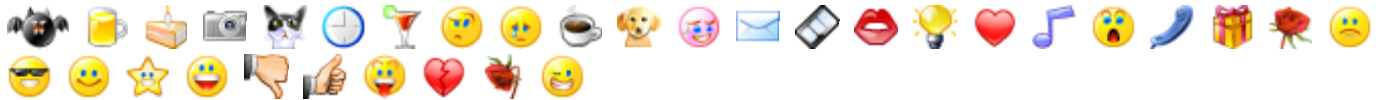


Verification Code \*

Comment

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