How to edit bios:

Make sure your device is on bios 323 (Currently the latest and the one used for these APCB blocks)

Neoprogrammer -> Detect IC -> Read IC -> Save to dump ->Verify IC

Once your bios is dumped and verified (You must select verify IC After reading), **save the file and make a copy as a backup (Store on the cloud if you can to always have it safe)**
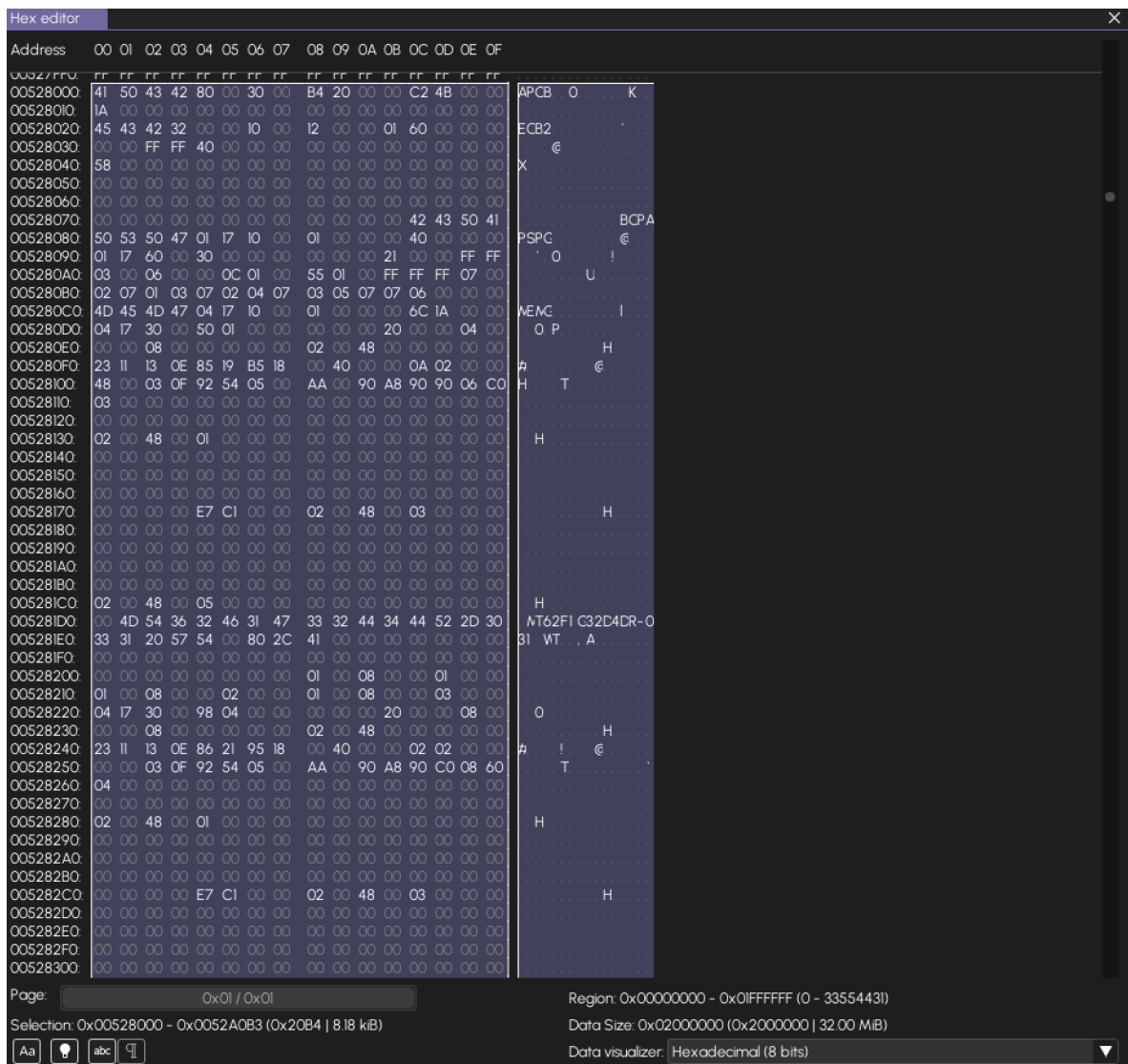
Then do this step again (You can never be too safe and if you lose your bios you will have a brick) and make a second backup

Incase of emergency you can flash the old bios back.

Once you have your bios, open up your hex editor and open your dumped bios and the APCB block you need (**Make sure you're using the right file based on your old RAM)**

In this tutorial i'm using imhex, which will highlight the changes made to your block, in my case red.

Scroll to the block 00528000 and highlight till 0052A0B0 (The end of the block ends with a lot of FF)

Once highlighted the selection on imHex at the bottom should say **0x00528000 - 0x0052A0B3 (0x20B4 | 8.18kiB)**

```
00529FE0:  FF 00 00 00 EF 76 01 CE   07 00 00 00 E2 85 EB CF
00529FF0:  FF 00 00 00 C2 E8 85 D0   00 00 00 00 D6 C3 DB D3
0052A000:  10 00 00 00 DA 59 B7 DD   00 00 00 00 D5 8E DB E5
0052A010:  0A 00 00 00 78 A0 F6 E6   00 00 00 00 4D F3 F9 FF
0052A020:  00 00 00 00 00 30 02 00   28 00 00 00 02 01 08 20
0052A030:  04 00 FF FF 00 00 00 00   FF FF 00 00 9D 00 99 19
0052A040:  66 06 00 00 4A 1C 5C AA   62 06 00 00 00 30 04 00
0052A050:  68 00 00 00 02 01 08 20   04 00 FF FF 7B E7 62 27
0052A060:  01 00 00 00 3C 0A 97 34   A6 0E 00 00 CF F8 B1 37
0052A070:  20 00 00 00 7B 7D 9B 3D   00 00 00 10 12 F5 DD 57
0052A080:  00 F8 FF 00 AC 63 66 59   1B 00 00 00 ED A9 4F 7A
0052A090:  00 00 00 E0 53 37 C3 A7   01 00 00 00 5F F6 83 C0
0052A0A0:  40 06 00 00 BF 15 B9 F6   00 00 00 00 7D 0D 56 FC
0052A0B0:  00 00 00 00 FF FF FF FF   FF FF FF FF FF FF FF FF
0052A0C0:  FF FF FF FF FF FF FF FF   FF FF FF FF FF FF FF FF
0052A0D0:  FF FF FF FF FF FF FF FF   FF FF FF FF FF FF FF FF
0052A0E0:  FF FF FF FF FF FF FF FF   FF FF FF FF FF FF FF FF
0052A0F0:  FF FF FF FF FF FF FF FF   FF FF FF FF FF FF FF FF
0052A100:  FF FF FF FF FF FF FF FF   FF FF FF FF FF FF FF FF
0052A110:  FF FF FF FF FF FF FF FF   FF FF FF FF FF FF FF FF
0052A120:  FF FF FF FF FF FF FF FF   FF FF FF FF FF FF FF FF
0052A130:  FF FF FF FF FF FF FF FF   FF FF FF FF FF FF FF FF
0052A140:  FF FF FF FF FF FF FF FF   FF FF FF FF FF FF FF FF
0052A150:  FF FF FF FF FF FF FF FF   FF FF FF FF FF FF FF FF
0052A160:  FF FF FF FF FF FF FF FF   FF FF FF FF FF FF FF FF
0052A170:  FF FF FF FF FF FF FF FF   FF FF FF FF FF FF FF FF
0052A180:  FF FF FF FF FF FF FF FF   FF FF FF FF FF FF FF FF
0052A190:  FF FF FF FF FF FF FF FF   FF FF FF FF FF FF FF FF
0052A1A0:  FF FF FF FF FF FF FF FF   FF FF FF FF FF FF FF FF
0052A1B0:  FF FF FF FF FF FF FF FF   FF FF FF FF FF FF FF FF
0052A1C0:  FF FF FF FF FF FF FF FF   FF FF FF FF FF FF FF FF
0052A1D0:  FF FF FF FF FF FF FF FF   FF FF FF FF FF FF FF FF
0052A1E0:  FF FF FF FF FF FF FF FF   FF FF FF FF FF FF FF FF
0052A1F0:  FF FF FF FF FF FF FF FF   FF FF FF FF FF FF FF FF
0052A200:  FF FF FF FF FF FF FF FF   FF FF FF FF FF FF FF FF
```

Page: 0x01 / 0x01

Selection: 0x00528000 - 0x0052A0B3 (0x20B4 | 8.18 kiB)

Aa   💡   abc   ¶

Select the APCB file and highlight and copy it all, the section size should be the same **(0x20B4 | 8.18kiB) if it's not stop as you could be doing something wrong**

Hex editor

Address	00 01 02 03 04 05 06 07	08 09 0A 0B 0C 0D 0E 0F	
00000000:	41 50 43 42 80 00 30 00	B4 20 00 00 C2 4B 00 00	APCB.0....K.
00000010:	ID 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	
00000020:	45 43 42 32 00 00 10 00	12 00 00 01 60 00 00 00	ECB2......`
00000030:	00 00 FF FF 40 00 00 00	00 00 00 00 00 00 00 00	....@
00000040:	58 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	X
00000050:	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	
00000060:	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	
00000070:	00 00 00 00 00 00 00 00	00 00 00 00 42 43 50 41	....BCPA
00000080:	50 53 50 47 01 17 10 00	01 00 00 00 40 00 00 00	PSPG.....@
00000090:	01 17 60 00 30 00 00 00	00 00 00 21 00 00 FF FF	.`.0.....!..
000000A0:	03 00 06 00 00 0C 01 00	55 01 00 FF FF FF 07 00	.....U.
000000B0:	02 07 01 03 07 02 04 07	03 05 07 07 06 00 00 00	
000000C0:	4D 45 4D 47 04 17 10 00	01 00 00 00 6C 1A 00 00	MEMG.....l.
000000D0:	04 17 30 00 50 01 00 00	00 00 00 20 00 00 04 00	..0.P.....O.P
000000E0:	00 00 08 00 00 00 00 00	02 00 48 00 00 00 00 00	.........H
000000F0:	23 11 13 0E 85 19 B5 18	00 40 00 00 0A 02 00 00	#.......@
00000100:	48 00 03 0F 92 54 05 00	AA 00 90 A8 90 90 06 C0	H...T
00000110:	03 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	
00000120:	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	
00000130:	02 00 48 00 01 00 00 00	00 00 00 00 00 00 00 00	.H
00000140:	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	
00000150:	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	
00000160:	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	
00000170:	00 00 00 00 E7 C1 00 00	02 00 48 00 03 00 00 00	.....H
00000180:	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	
00000190:	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	
000001A0:	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	
000001B0:	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	
000001C0:	02 00 48 00 05 00 00 00	00 00 00 00 00 00 00 00	.H
000001D0:	00 4D 54 36 32 46 31 47	33 32 44 34 44 52 2D 30	MT62F1 C32D4DR-0
000001E0:	33 31 20 57 54 00 80 2C	41 00 00 00 00 00 00 00	31 WT..A
000001F0:	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	
00000200:	00 00 00 00 00 00 00 00	01 00 08 00 00 01 00 00	
00000210:	01 00 08 00 00 02 00 00	01 00 08 00 00 03 00 00	
00000220:	04 17 30 00 98 04 00 00	00 00 00 20 00 00 08 00	.0.....O
00000230:	00 00 08 00 00 00 00 00	02 00 48 00 00 00 00 00	.........H
00000240:	23 11 13 0E 86 21 B5 18	00 40 00 00 0A 02 00 00	#.!..@
00000250:	00 00 03 00 00 00 00 00	2B 00 90 A8 90 C0 08 60	....+....`
00000260:	04 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	
00000270:	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	
00000280:	02 00 48 00 01 00 00 00	00 00 00 00 00 00 00 00	.H
00000290:	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	
000002A0:	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	
000002B0:	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	
000002C0:	00 00 00 00 E7 C1 00 00	02 00 48 00 03 00 00 00	.....H
000002D0:	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	
000002E0:	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	
000002F0:	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	
00000300:	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	
00000310:	02 00 48 00 05 00 00 00	00 00 00 00 00 00 00 00	.H

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Selection: 0x00000000 - 0x000020B3 (0x20B4 | 8.18 kiB)

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Once copied, paste it into your bios and it should highlight the changes in red:

Address	00 01 02 03 04 05 06 07	08 09 0A 0B 0C 0D 0E 0F	
00527FE0:	FF FF FF FF FF FF FF FF	FF FF FF FF FF FF FF FF	
00527FF0:	FF FF FF FF FF FF FF FF	FF FF FF FF FF FF FF FF	
00528000:	41 50 43 42 80 00 30 00	B4 20 00 00 C2 4B 00 00	APCB.0....K.
00528010:	ID 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	

```
00528010:  ID  00  00  00  00  00  00  00   00  00  00  00  00  00  00  00   .............
00528020:  45  43  42  32  00  00  10  00   12  00  00  01  60  00  00  00   ECB2......`...
00528030:  00  00  FF  FF  40  00  00  00   00  00  00  00  00  00  00  00   ....@...........
00528040:  58  00  00  00  00  00  00  00   00  00  00  00  00  00  00  00   X...............
00528050:  00  00  00  00  00  00  00  00   00  00  00  00  00  00  00  00   ................
00528060:  00  00  00  00  00  00  00  00   00  00  00  00  00  00  00  00   ................
00528070:  00  00  00  00  00  00  00  00   00  00  00  00  42  43  50  41   ........BCPA
00528080:  50  53  50  47  01  17  10  00   01  00  00  00  40  00  00  00   PSPG........@...
00528090:  01  17  60  00  30  00  00  00   00  00  00  00  21  00  00  FF   ..`.0.......!...FF
005280A0:  03  00  06  00  00  0C  01  00   55  01  00  FF  FF  FF  07  00   ........U.......
005280B0:  02  07  01  03  07  02  04  07   03  05  07  07  06  00  00  00   ................
005280C0:  4D  45  4D  47  04  17  10  00   01  00  00  00  6C  1A  00  00   MEMG........l...
005280D0:  04  17  30  00  50  01  00  00   00  00  00  20  00  00  04  00   ..0.P...... ....
005280E0:  00  00  08  00  00  00  00  00   02  00  48  00  00  00  00  00   ..........H.....
005280F0:  23  11  13  0E  85  19  B5  18   00  40  00  00  0A  02  00  00   #........@......
00528100:  48  00  03  0F  92  54  05  00   AA  00  90  A8  90  90  06  C0   H....T..........
00528110:  03  00  00  00  00  00  00  00   00  00  00  00  00  00  00  00   ................
00528120:  00  00  00  00  00  00  00  00   00  00  00  00  00  00  00  00   ................
00528130:  02  00  48  00  01  00  00  00   00  00  00  00  00  00  00  00   ..H.............
00528140:  00  00  00  00  00  00  00  00   00  00  00  00  00  00  00  00   ................
00528150:  00  00  00  00  00  00  00  00   00  00  00  00  00  00  00  00   ................
00528160:  00  00  00  00  00  00  00  00   00  00  00  00  00  00  00  00   ................
00528170:  00  00  00  00  E7  C1  00  00   02  00  48  00  03  00  00  00   ..........H.....
00528180:  00  00  00  00  00  00  00  00   00  00  00  00  00  00  00  00   ................
00528190:  00  00  00  00  00  00  00  00   00  00  00  00  00  00  00  00   ................
005281A0:  00  00  00  00  00  00  00  00   00  00  00  00  00  00  00  00   ................
005281B0:  00  00  00  00  00  00  00  00   00  00  00  00  00  00  00  00   ................
005281C0:  02  00  48  00  05  00  00  00   00  00  00  00  00  00  00  00   ..H.............
005281D0:  00  4D  54  36  32  46  31  47   33  32  44  34  44  52  2D  30   .MT62F1G32D4DR-0
005281E0:  33  31  20  57  54  00  80  2C   41  00  00  00  00  00  00  00   31 WT..,A.......
005281F0:  00  00  00  00  00  00  00  00   00  00  00  00  00  00  00  00   ................
00528200:  00  00  00  00  00  00  00  00   01  00  08  00  00  00  01  00   ................
00528210:  01  00  08  00  00  02  00  00   01  00  08  00  00  00  03  00   ................
00528220:  04  17  30  00  98  04  00  00   00  00  00  20  00  00  08  00   ..0........ ....
00528230:  00  00  08  00  00  00  00  00   02  00  48  00  00  00  00  00   ..........H.....
00528240:  23  11  13  0E  86  21  B5  18   00  40  00  00  0A  02  00  00   #....!...@......
00528250:  00  00  03  00  00  00  00  00   2B  00  90  A8  90  C0  08  60   ........+......`
00528260:  04  00  00  00  00  00  00  00   00  00  00  00  00  00  00  00   ................
00528270:  00  00  00  00  00  00  00  00   00  00  00  00  00  00  00  00   ................
00528280:  02  00  48  00  01  00  00  00   00  00  00  00  00  00  00  00   ..H.............
00528290:  00  00  00  00  00  00  00  00   00  00  00  00  00  00  00  00   ................
005282A0:  00  00  00  00  00  00  00  00   00  00  00  00  00  00  00  00   ................
005282B0:  00  00  00  00  00  00  00  00   00  00  00  00  00  00  00  00   ................
005282C0:  00  00  00  00  E7  C1  00  00   02  00  48  00  03  00  00  00   ..........H.....
005282D0:  00  00  00  00  00  00  00  00   00  00  00  00  00  00  00  00   ................
005282E0:  00  00  00  00  00  00  00  00   00  00  00  00  00  00  00  00   ................
005282F0:  00  00  00  00  00  00  00  00   00  00  00  00  00  00  00  00   ................
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Selection: 0x00528000 - 0x0052A0B3 (0x20B4 | 8.18 kiB)

```
00528430:  02 00 48 00 05 01 00 00  00 00 00 00 00 00 00 00   H..............
00528440:  00 4B 33 4C 4B 42 4B 42  30 42 4D 2D 4D 47 43 50   K3LKBKBOBN-NCCP
00528450:  20 20 20 20 20 00 80 CE  4D 00 00 00 00 00 00 00   N.........
00528460:  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ................
00528470:  00 00 00 00 00 00 00 00  02 00 48 00 00 02 00 00   H..........
00528480:  23 11 13 0E 86 21 B5 18  00 40 00 00 0A 02 00 00   #....!...@....
00528490:  00 00 03 00 00 00 00 00  2B 00 90 A8 90 C0 08 60   .....+.......`
005284A0:  04 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ................
005284B0:  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ................
005284C0:  02 00 48 00 01 02 00 00  00 00 00 00 00 00 00 00   H...........
005284D0:  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ................
005284E0:  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ................
005284F0:  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ................
00528500:  00 00 00 00 E7 C1 00 00  02 00 48 00 03 02 00 00   .....H...
00528510:  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ................
00528520:  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ................
00528530:  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ................
00528540:  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ................
00528550:  02 00 48 00 05 02 00 00  00 00 00 00 00 00 00 00   H...........
00528560:  00 4B 33 4C 4B 42 4B 42  30 42 4D 2D 4D 47 43 50   K3LKBKBOBN-NCCP
00528570:  20 20 20 20 20 00 80 CE  4D 00 00 00 00 00 00 00   N.........
00528580:  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ................
00528590:  00 00 00 00 00 00 00 00  02 00 48 00 00 03 00 00   H..........
005285A0:  23 11 13 0E 86 21 B5 18  00 40 00 00 0A 02 00 00   #....!...@....
005285B0:  00 00 03 00 00 00 00 00  2B 00 90 A8 90 C0 08 60   .....+.......`
005285C0:  04 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ................
005285D0:  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ................
005285E0:  02 00 48 00 01 03 00 00  00 00 00 00 00 00 00 00   H...........
005285F0:  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ................
00528600:  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ................
00528610:  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ................
00528620:  00 00 00 00 E7 C1 00 00  02 00 48 00 03 03 00 00   .....H...
00528630:  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ................
00528640:  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ................
00528650:  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ................
00528660:  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ................
00528670:  02 00 48 00 05 03 00 00  00 00 00 00 00 00 00 00   H...........
00528680:  00 4B 33 4C 4B 42 4B 42  30 42 4D 2D 4D 47 43 50   K3LKBKBOBN-NCCP
00528690:  20 20 20 20 20 00 80 CE  4D 00 00 00 00 00 00 00   N.........
005286A0:  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ................
005286B0:  00 00 00 00 00 00 00 00  04 17 30 00 98 04 00 00   O.......
005286C0:  00 00 00 20 00 00 10 00  00 00 08 00 00 00 00 00   ................
005286D0:  02 00 48 00 00 00 00 00  23 11 15 0E 86 21 95 18   H...#....!..
005286E0:  00 40 00 00 02 02 00 00  00 00 03 0F 92 54 05 00   @........T.
005286F0:  AA 00 90 A8 90 C0 08 60  04 00 00 00 00 00 00 00   .......`
00528700:  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ................
00528710:  00 00 00 00 00 00 00 00  02 00 48 00 01 00 00 00   H...
00528720:  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ................
00528730:  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ................
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```
005281C0:  02 00  48 00  05 00  00 00  00 00  00 00  00 00  00 00   H
005281D0:  00 4D  54 36  32 46  31 47  33 32  44 34  44 52 2D 30    NT62F1G32D4DR-0
005281E0:  33 31  20 57  54 00  80 2C  41 00  00 00  00 00  00 00  31 WT. , A
005281F0:  00 00  00 00  00 00  00 00  00 00  00 00  00 00  00 00
00528200:  00 00  00 00  00 00  01 00  08 00  00 00  01 00  00 00
00528210:  01 00  08 00  00 02  00 00  01 00  08 00  00 03  00 00
00528220:  04 17  30 00  98 04  00 00  00 00  20 00  00 08  00 00   O
00528230:  00 00  08 00  00 00  00 00  02 00  48 00  00 00  00 00        H
00528240:  23 11  13 0E  86 21  B5 18  00 40  00 00  0A 02  00 00  #  !  @
00528250:  00 00  03 00  00 00  00 00  2B 00  90 A8  90 C0 08 60       +        `
00528260:  04 00  00 00  00 00  00 00  00 00  00 00  00 00  00 00
00528270:  00 00  00 00  00 00  00 00  00 00  00 00  00 00  00 00
00528280:  02 00  48 00  01 00  00 00  00 00  00 00  00 00  00 00   H
00528290:  00 00  00 00  00 00  00 00  00 00  00 00  00 00  00 00
005282A0:  00 00  00 00  00 00  00 00  00 00  00 00  00 00  00 00
005282B0:  00 00  00 00  00 00  00 00  00 00  00 00  00 00  00 00
005282C0:  00 00  00 00  E7 C1  00 00  02 00  48 00  03 00  00 00       H
005282D0:  00 00  00 00  00 00  00 00  00 00  00 00  00 00  00 00
005282E0:  00 00  00 00  00 00  00 00  00 00  00 00  00 00  00 00
005282F0:  00 00  00 00  00 00  00 00  00 00  00 00  00 00  00 00
00528300:  00 00  00 00  00 00  00 00  00 00  00 00  00 00  00 00
00528310:  02 00  48 00  05 00  00 00  00 00  00 00  00 00  00 00   H
00528320:  00 4B  33 4C  4B 42  4B 42  30 42  4D 2D  4D 47 43 50    K3LKBKBOBM-MGCP
00528330:  20 20  20 20  20 00  80 CE  4D 00  00 00  00 00  00 00        N
00528340:  00 00  00 00  00 00  00 00  00 00  00 00  00 00  00 00
00528350:  00 00  00 00  00 00  00 00  02 00  48 00  00 01  00 00        H
00528360:  23 11  13 0E  86 21  B5 18  00 40  00 00  0A 02  00 00  #  !  @
00528370:  00 00  03 00  00 00  00 00  2B 00  90 A8  90 C0 08 60       +        `
00528380:  04 00  00 00  00 00  00 00  00 00  00 00  00 00  00 00
00528390:  00 00  00 00  00 00  00 00  00 00  00 00  00 00  00 00
005283A0:  02 00  48 00  01 01  00 00  00 00  00 00  00 00  00 00   H
005283B0:  00 00  00 00  00 00  00 00  00 00  00 00  00 00  00 00
005283C0:  00 00  00 00  00 00  00 00  00 00  00 00  00 00  00 00
005283E0:  00 00  00 00  E7 C1  00 00  02 00  48 00  03 01  00 00       H
005283F0:  00 00  00 00  00 00  00 00  00 00  00 00  00 00  00 00
00528400:  00 00  00 00  00 00  00 00  00 00  00 00  00 00  00 00
00528410:  00 00  00 00  00 00  00 00  00 00  00 00  00 00  00 00
00528420:  00 00  00 00  00 00  00 00  00 00  00 00  00 00  00 00
00528430:  02 00  48 00  05 01  00 00  00 00  00 00  00 00  00 00   H
00528440:  00 4B  33 4C  4B 42  4B 42  30 42  4D 2D  4D 47 43 50    K3LKBKBOBM-MGCP
00528450:  20 20  20 20  20 00  80 CE  4D 00  00 00  00 00  00 00        N
00528460:  00 00  00 00  00 00  00 00  00 00  00 00  00 00  00 00
00528470:  00 00  00 00  00 00  00 00  02 00  48 00  00 02  00 00        H
00528480:  23 11  13 0E  86 21  B5 18  00 40  00 00  0A 02  00 00  #  !  @
00528490:  00 00  03 00  00 00  00 00  2B 00  90 A8  90 C0 08 60       +        `
005284A0:  04 00  00 00  00 00  00 00  00 00  00 00  00 00  00 00
005284B0:  00 00  00 00  00 00  00 00  00 00  00 00  00 00  00 00
005284C0:  02 00  48 00  01 02  00 00  00 00  00 00  00 00  00 00   H
           00 00  00 00  00 00  00 00  00 00  00 00  00 00  00 00
           00 00  00 00  00 00  00 00  02 00  48 00  00 01  00 00        H
           23 11  13 0E  86 21  B5 18  00 40  00 00  0A 02  00 00  #  !  @
           00 00  03 00  00 00  00 00  2B 00  90 A8  90 C0 08 60       +        `
           04 00  00 00  00 00  00 00  00 00  00 00  00 00  00 00
           00 00  00 00  00 00  00 00  00 00  00 00  00 00  00 00
```
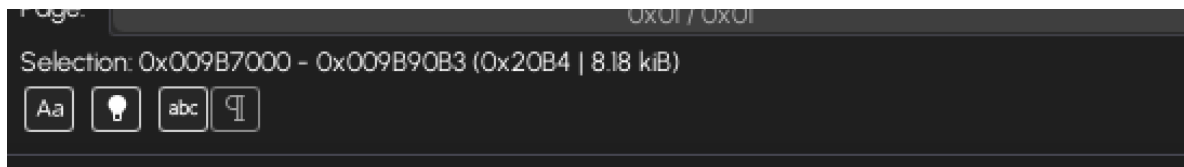
```
02 00 48 00 01 01 00 00   00 00 00 00 00 00 00 00    .H.............
00 00 00 00 00 00 00 00   00 00 00 00 00 00 00 00    ................
00 00 00 00 00 00 00 00   00 00 00 00 00 00 00 00    ................
00 00 00 00 00 00 00 00   00 00 00 00 00 00 00 00    ................
00 00 00 00 E7 C1 00 00   02 00 48 00 03 01 00 00    ..........H.....
00 00 00 00 00 00 00 00   00 00 00 00 00 00 00 00    ................
00 00 00 00 00 00 00 00   00 00 00 00 00 00 00 00    ................
00 00 00 00 00 00 00 00   00 00 00 00 00 00 00 00    ................
00 00 00 00 00 00 00 00   00 00 00 00 00 00 00 00    ................
02 00 48 00 05 01 00 00   00 00 00 00 00 00 00 00    .H.............
00 4B 33 4B 4C 38 4C 38   30 43 4D 2D 4D 47 43 54    K3KL8L80CM-MGCT
20 20 20 20 20 00 80 CE   43 00 00 00 00 00 00 00         C
00 00 00 00 00 00 00 00   00 00 00 00 00 00 00 00    ................
00 00 00 00 00 00 00 00   02 00 48 00 00 02 00 00    ..........H.....
23 11 13 0E 86 21 B5 18   00 40 00 00 0A 02 00 00    #....!...@......
00 00 03 00 00 00 00 00   2B 00 90 A8 90 C0 08 60    ........+.......
04 00 00 00 00 00 00 00   00 00 00 00 00 00 00 00    ................
00 00 00 00 00 00 00 00   00 00 00 00 00 00 00 00    ................
02 00 48 00 01 02 00 00   00 00 00 00 00 00 00 00    .H.............
00 00 00 00 00 00 00 00   00 00 00 00 00 00 00 00    ................
00 00 00 00 00 00 00 00   00 00 00 00 00 00 00 00    ................
00 00 00 00 00 00 00 00   00 00 00 00 00 00 00 00    ................
00 00 00 00 E7 C1 00 00   02 00 48 00 03 02 00 00    ..........H.....
00 00 00 00 00 00 00 00   00 00 00 00 00 00 00 00    ................
00 00 00 00 00 00 00 00   00 00 00 00 00 00 00 00    ................
00 00 00 00 00 00 00 00   00 00 00 00 00 00 00 00    ................
00 00 00 00 00 00 00 00   00 00 00 00 00 00 00 00    ................
02 00 48 00 05 02 00 00   00 00 00 00 00 00 00 00    .H.............
00 4B 33 4B 4C 38 4C 38   30 43 4D 2D 4D 47 43 54    K3KL8L80CM-MGCT
20 20 20 20 20 00 80 CE   43 00 00 00 00 00 00 00         C
00 00 00 00 00 00 00 00   00 00 00 00 00 00 00 00    ................
00 00 00 00 00 00 00 00   02 00 48 00 00 03 00 00    ..........H.....
23 11 13 0E 86 21 B5 18   00 40 00 00 0A 02 00 00    #....!...@......
00 00 03 00 00 00 00 00   2B 00 90 A8 90 C0 08 60    ........+.......
04 00 00 00 00 00 00 00   00 00 00 00 00 00 00 00    ................
00 00 00 00 00 00 00 00   00 00 00 00 00 00 00 00    ................
02 00 48 00 01 03 00 00   00 00 00 00 00 00 00 00    .H.............
00 00 00 00 00 00 00 00   00 00 00 00 00 00 00 00    ................
00 00 00 00 00 00 00 00   00 00 00 00 00 00 00 00    ................
00 00 00 00 00 00 00 00   00 00 00 00 00 00 00 00    ................
00 00 00 00 E7 C1 00 00   02 00 48 00 03 03 00 00    ..........H.....
00 00 00 00 00 00 00 00   00 00 00 00 00 00 00 00    ................
00 00 00 00 00 00 00 00   00 00 00 00 00 00 00 00    ................
00 00 00 00 00 00 00 00   00 00 00 00 00 00 00 00    ................
```

This is the first APCB Block edit.

This then will need to be repeated for the block 009B7000 -009B90B0

Use the same APCB file as before and follow the steps again

Address	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F		
009B8F90:	02	00	00	00	23	46	34	80	00	00	00	00	F6	41	57	84	#F4	AW
009B8FA0:	01	00	00	00	42	04	EE	87	01	00	00	00	29	85	B9	8F	B	)
009B8FB0:	A0	00	00	00	39	BA	2B	9F	01	00	00	00	98	3F	90	A0	9 +	?
009B8FC0:	00	00	00	00	4C	E3	4E	A1	01	00	00	00	6F	3A	6D	AF	L N	o: m
009B8FD0:	FF	00	00	00	33	80	64	B1	0F	00	00	00	DF	87	8D	B8	3 d	
009B8FE0:	FF	00	00	00	EF	76	01	CE	07	00	00	00	E2	85	EB	CF	v	
009B8FF0:	FF	00	00	00	C2	E8	85	D0	00	00	00	00	D6	C3	DB	D3		
009B9000:	10	00	00	00	DA	59	B7	DD	00	00	00	00	D5	8E	DB	E5	Y	
009B9010:	0A	00	00	00	78	A0	F6	E6	00	00	00	00	4D	F3	F9	FF	x	N
009B9020:	00	00	00	00	00	30	02	00	28	00	00	00	02	01	08	20	0 (	
009B9030:	04	00	FF	FF	00	00	00	00	FF	FF	00	00	9D	00	99	19		
009B9040:	66	06	00	00	4A	1C	5C	AA	62	06	00	00	00	30	04	00	f J \ b	0
009B9050:	68	00	00	00	02	01	08	20	04	00	FF	FF	7B	E7	62	27	h	(b'
009B9060:	01	00	00	00	3C	0A	97	34	A6	0E	00	00	CF	F8	B1	37	< 4	7
009B9070:	20	00	00	00	7B	7D	9B	3D	00	00	00	10	12	F5	DD	57	() =	W
009B9080:	00	F8	FF	00	AC	63	66	59	1B	00	00	00	ED	A9	4F	7A	cf Y	Cz
009B9090:	00	00	00	E0	53	37	C3	A7	01	00	00	00	5F	F6	83	CC	S7	_
009B90A0:	40	06	00	00	BF	15	B9	F6	00	00	00	00	7D	0D	56	FC	@	) V
009B90B0:	00	00	00	00	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B90C0:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B90D0:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B90E0:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B90F0:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B9100:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B9110:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B9120:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B9130:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B9140:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B9150:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B9160:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B9170:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B9180:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B9190:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B91A0:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B91B0:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B91C0:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B91D0:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B91E0:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B91F0:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B9200:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B9210:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B9220:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B9230:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B9240:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B9250:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B9260:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B9270:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B9280:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		
009B9290:	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		

Page:

Save your file as something like RCL71A_modified.bin

On neoprogrammer wipe your IC and open RCL71A_modified.bin, write it to IC.

Congrats, your bios is now changed.