

test2 - Bug #857

иногда портится нижний полукадр (эвективно меняется порядок байтов)

20.07.2020 02:44 - Александр Р

Статус:	New	Дата начала:	20.07.2020
Приоритет:	Normal	Срок завершения:	
Назначена:		Готовность:	0%
Категория:		Оценка временных затрат:	0.00 час
Версия:		Трудозатраты:	0.00 час
Описание			
ижняя половинка картинки ломается (ну как у колпакова тоже бывало) после перезапуска моей программы такая ситуация остается так что видимо прошивка такое присылать иногда начинает эта же проблема раньше также наблюдалась при использовании конфигуратора как специально воспроизвести проблему непонятно - возникает сама изредка			

История

#1 - 20.07.2020 02:57 - Александр Р

СРАВНЕНИЕ ПРИНЯТЫХ ПАКЕТОВ ДЛЯ ВЕРХНЕЙ И ДЛЯ НИЖНЕЙ ПОЛОВИНЫ КАДРА

данные начинаются посмещению 22
формат каждого пикселя 16 бит без знака little endian

у верхнего полукадра (nSPI: 0) видим что значанеи с 1 в старших битах байта встречаются только по четным смещениям а по нечетным их нет

а вот у нижнего полукадра видим очень много странных значение - все нули а вот например по смещению 189 значение 0xAC==8b'10101100

тк нулей много то откуда начинается сбойное место непонятно ну и вообще нулей столько не должно быть в нижнем полукадре судя по верхнему

какраз до этого отработал алгоритм коррекции подставки и обе половины кадра были действительно практически одинаковыми

nSPI: 0 seqn: 3810586
idx0: 17664 blkCnt:13
dataOff=22
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[1141]0x17 [1142]0x50 [1143]0x17 [1144]0x53 [1145]0x17 [1146]0x5A [1147]0x17 [1148]0x40 [1149]0x17 [1150]0x38 [1151]0x17 [1152]0x3E
[1153]0x17 [1154]0x56 [1155]0x17 [1156]0x4A [1157]0x17 [1158]0x46 [1159]0x17 [1160]0x4F [1161]0x17 [1162]0x49 [1163]0x17 [1164]0x3C
[1165]0x17 [1166]0x47 [1167]0x17 [1168]0x4D [1169]0x17 [1170]0x4D [1171]0x17 [1172]0x47 [1173]0x17 [1174]0x3E [1175]0x17 [1176]0x38
[1177]0x17 [1178]0x48 [1179]0x17 [1180]0x4D [1181]0x17 [1182]0x3C [1183]0x17 [1184]0x39 [1185]0x17 [1186]0x4F [1187]0x17 [1188]0x4E
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[1248]0x53 [1249]0x1F [1250]0x93 [1251]0x1E [1252]0x84 [1253]0x1B [1254]0x3D [1255]0x19 [1256]0x87 [1257]0x18 [1258]0x64 [1259]0x17
[1260]0x80 [1261]0x17 [1262]0xD5 [1263]0x16 [1264]0x7F [1265]0x16 [1266]0x3D [1267]0x16 [1268]0xF2 [1269]0x15 [1270]0xB9 [1271]0x15
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[1284]0xC3 [1285]0x15 [1286]0x9B [1287]0x15 [1288]0x4F [1289]0x15 [1290]0xDF [1291]0x14 [1292]0x80 [1293]0x14 [1294]0xB8 [1295]0x13
[1296]0x83 [1297]0x13 [1298]0x9E [1299]0x12 [1300]0x83 [1301]0x12 [1302]0x1C [1303]0x12 [1304]0x8B [1305]0x11 [1306]0x22 [1307]0x11

[1308]0x83 [1309]0x10 [1310]0x3F [1311]0x10 [1312]0xF [1313]0x10 [1314]0xEF [1315]0xF [1316]0xD4 [1317]0xF [1318]0x86 [1319]0xF
[1320]0x81 [1321]0xF [1322]0x7E [1323]0xF [1324]0x8 [1325]0xF [1326]0x40 [1327]0xF [1328]0xB8 [1329]0xE [1330]0xFB [1331]0xE
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nsPI: 1 seqn: 3669456

idx1: 58328 blkCnt:15

dataOff=22

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0x8 [13]0x5F [14]0x0 [15]0x0 [16]0x0 [17]0x1 [18]0x0 [19]0x37 [20]0xFD [21]0xD0
[22]0x0 [23]0x0 [24]0x0 [25]0x0 [26]0x0 [27]0x0 [28]0x0 [29]0x0 [30]0x0 [31]0x6A [32]0x5 [33]0x0 [34]0x0 [35]0x0 [36]0x0 [37]0x94 [38]0x0 [39]0x0 [40]0x0 [41]0x59 [42]0x2 [43]0x0 [44]0x0 [45]0x0 [46]0x0 [47]0xEC [48]0x3 [49]0x94 [50]0x0 [51]0x0 [52]0x0 [53]0x67 [54]0x7 [55]0x0 [56]0x0 [57]0x0 [58]0x0 [59]0x0 [60]0x0 [61]0x1E [62]0x3 [63]0x0 [64]0x0 [65]0x0 [66]0x0 [67]0x0 [68]0x0 [69]0x0 [70]0x0 [71]0x0 [72]0x0 [73]0x0 [74]0x0 [75]0x0 [76]0x0 [77]0x0 [78]0x0 [79]0x0 [80]0x0 [81]0x0 [82]0x0 [83]0x3C [84]0x6 [85]0x0 [86]0x0 [87]0x0 [88]0x0 [89]0x0 [90]0x0 [91]0x0 [92]0x0 [93]0xDD [94]0x0 [95]0xB8 [96]0x6 [97]0x0 [98]0x0 [99]0x0 [100]0x0 [101]0x0 [102]0x0 [103]0x0 [104]0x0 [105]0x0 [106]0x0 [107]0x0 [108]0x0 [109]0x2A [110]0x3 [111]0x0 [112]0x0 [113]0x0 [114]0x0 [115]0x1F [116]0x3 [117]0x0 [118]0x0 [119]0x0 [120]0x0 [121]0x0 [122]0x0 [123]0x0 [124]0x0 [125]0x0 [126]0x0 [127]0x0 [128]0x0 [129]0x0 [130]0x0 [131]0xE9 [132]0x3 [133]0x0 [134]0x0 [135]0x0 [136]0x0 [137]0x0 [138]0x0 [139]0x0 [140]0x0 [141]0x0 [142]0x0 [143]0x6A [144]0x0 [145]0x45 [146]0x2 [147]0x0 [148]0x0 [149]0x0 [150]0x0 [151]0x0 [152]0x0 [153]0x0 [154]0x0 [155]0x0 [156]0x0 [157]0x0 [158]0x0 [159]0x0 [160]0x0 [161]0x0 [162]0x0 [163]0x0 [164]0x0 [165]0x0 [166]0x0 [167]0x59 [168]0x7 [169]0x0 [170]0x0 [171]0x0 [172]0x0 [173]0x0 [174]0x0 [175]0x73 [176]0x0 [177]0x0 [178]0x0 [179]0x0 [180]0x0 [181]0x0 [182]0x0 [183]0x0 [184]0x0 [185]0x0 [186]0x0 [187]0x0 [188]0x0 [189]0xAC [190]0x6 [191]0x0 [192]0x0 [193]0x0 [194]0x0 [195]0x0 [196]0x0 [197]0x0 [198]0x0 [199]0x0 [200]0x0 [201]0x0 [202]0x0 [203]0x0 [204]0x0 [205]0x0 [206]0x0 [207]0x0 [208]0x0 [209]0x50 [210]0x6 [211]0x0 [212]0x0 [213]0x0 [214]0x0 [215]0x0 [216]0x0 [217]0x0 [218]0x0 [219]0x0 [220]0x0 [221]0x0 [222]0x0 [223]0x0 [224]0x0 [225]0x0 [226]0x0 [227]0x0 [228]0x0 [229]0x0 [230]0x0 [231]0x0 [232]0x0 [233]0x0 [234]0x0 [235]0x0 [236]0x0 [237]0x0 [238]0x0 [239]0x0 [240]0x0 [241]0x0 [242]0x0 [243]0x0 [244]0x0 [245]0x0 [246]0x0 [247]0x0 [248]0x0 [249]0x0 [250]0x0 [251]0x0 [252]0x0 [253]0x0 [254]0x0 [255]0x0 [256]0x0 [257]0x0 [258]0x0 [259]0xD6 [260]0x2 [261]0x0 [262]0x0 [263]0x2A [264]0x3 [265]0x0 [266]0x0 [267]0x23 [268]0x1 [269]0x0 [270]0x0 [271]0x0 [272]0x0 [273]0x0 [274]0x0 [275]0x49 [276]0x3 [277]0x36 [278]0x0 [279]0x0 [280]0x0 [281]0x0 [282]0x0 [283]0x0 [284]0x0 [285]0x0 [286]0x0 [287]0x0 [288]0x0 [289]0x0 [290]0x0 [291]0x0 [292]0x0 [293]0x0 [294]0x0 [295]0x0 [296]0x0 [297]0x0 [298]0x0 [299]0x0 [300]0x0 [301]0x0 [302]0x0 [303]0x0 [304]0x0 [305]0x0 [306]0x0 [307]0x0 [308]0x0 [309]0x0 [310]0x0 [311]0x0 [312]0x0 [313]0x0 [314]0x0 [315]0x0 [316]0x0 [317]0x44 [318]0x4 [319]0x0 [320]0x0 [321]0x0 [322]0x0 [323]0x0 [324]0x0 [325]0x0 [326]0x0 [327]0x0 [328]0x0 [329]0x0 [330]0x0 [331]0x4A [332]0x3 [333]0x0 [334]0x0 [335]0x0 [336]0x0 [337]0x0 [338]0x0 [339]0x0 [340]0x0 [341]0x0 [342]0x0 [343]0x0 [344]0x0 [345]0x0 [346]0x0 [347]0x0 [348]0x0 [349]0x0 [350]0x0 [351]0x0 [352]0x0 [353]0x0 [354]0x0 [355]0x0 [356]0x0 [357]0x36 [358]0x5 [359]0x0 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710x0	[648]0x0	[649]0x2A	[650]0x6	[651]0x0	[652]0x0	[653]0x0	[654]0x0	[655]0x0	[656]0x0	[657]0x0	[658]0x0	[659]0x0	[660]0x0	[661]0x0	[662]0x0	[663]0x0	[664]0x0	[665]0xAA	[666]0x4	[667]0x0	[668]0x0	[669]0x0	[670]0x0	[671]0x0	[672]0x0	[673]0x0	[674]0x0	[675]0x0	[676]0x0	[677]0x0	[678]0x0	[679]0x0	[680]0x0	[681]0x0	[682]0x0	[683]0x0	[684]0x0	[685]0x0	[686]0x0	[687]0x0	[688]0x0	[689]0x0	[690]0x0	[691]0x0	[692]0x0	[693]0x0	[694]0x0	[695]0x0	[696]0x0	[697]0x0	[698]0x0	[699]0x0	[700]0x0	[701]0x0	[702]0x0	[703]0x0	[704]0x0	[705]0x0	[706]0x0	[707]0x0	[708]0x0	[709]0x0	[710]0x0	[711]0x0	[712]0x0	[713]0x0	[714]0x0	[715]0xAA	[716]0x6	[717]0xF7	[718]0x5	[719]0x0	[720]0x0	[721]0x0	[722]0x0	[723]0x0	[724]0x0	[725]0x0	[726]0x0	[727]0x0	[728]0x0	[729]0x0	[730]0x0	[731]0x0	[732]0x0	[733]0x0	[734]0x0	[735]0x0	[736]0x0	[737]0xAA	[738]0x2	[739]0x0	[740]0x0	[741]0x0	[742]0x0	[743]0x0	[744]0x0	[745]0x0	[746]0x0	[747]0x0	[748]0x0	[749]0x0	[750]0x0	[751]0x0	[752]0x0	[753]0x0	[754]0x0	[755]0x0	[756]0x0	[757]0x0	[758]0x0	[759]0x0	[760]0x0	[761]0x0	[762]0x0	[763]0x0	[764]0x0	[765]0x0	[766]0x0	[767]0x0	[768]0x0	[769]0x0	[770]0x0	[771]0x0	[772]0x0	[773]0x0	[774]0x0	[775]0x8A	[776]0x0	[777]0x0	[778]0x0	[779]0x0	[780]0x0	[781]0x0	[782]0x0	[783]0x0	[784]0x0	[785]0x0	[786]0x0	[787]0x71	[788]0x0	[789]0x0	[790]0x0	[791]0x0	[792]0x0	[793]0x0	[794]0x0	[795]0x0	[796]0x0	[797]0x0	[798]0x0	[799]0x6B	[800]0x2	[801]0x0	[802]0x0	[803]0x0	[804]0x0	[805]0x0	[806]0x0	[807]0x0	[808]0x0	[809]0x0	[810]0x0	[811]0x0	[812]0x0	[813]0x0	[814]0x0	[815]0x0	[816]0x0	[817]0x0	[818]0x0	[819]0x0	[820]0x0	[821]0x0	[822]0x0	[823]0x0	[824]0x0	[825]0x0	[826]0x0	[827]0x0	[828]0x0	[829]0x0	[830]0x0	[831]0x0	[832]0x0	[833]0x0	[834]0x0	[835]0x3B	[836]0x3	[837]0x0	[838]0x0	[839]0x0	[840]0x0	[841]0x8A	[842]0x5	[843]0x0	[844]0x0	[845]0x0	[846]0x0	[847]0x8C	[848]0x4	[849]0x0	[850]0x0	[851]0x0	[852]0x0	[853]0x0	[854]0x0	[855]0x0	[856]0x0	[857]0x0	[858]0x0	[859]0x0	[860]0x0	[861]0x0	[862]0x0	[863]0x0	[864]0x0	[865]0x0	[866]0x0	[867]0x0	[868]0x0	[869]0x0	[870]0x0	[871]0x0	[872]0x0	[873]0x0	[874]0x0	[875]0x82	[876]0x0	[877]0x54	[878]0x1	[879]0x0	[880]0x0	[881]0x0	[882]0x0	[883]0x0	[884]0x0	[885]0x0	[886]0x0	[887]0xD8	[888]0x6	[889]0x0	[890]0x0	[891]0x0	[892]0x0	[893]0x0	[894]0x0	[895]0x0	[896]0x0	[897]0xC6	[898]0x6	[899]0x0	[900]0x0	[901]0x0	[902]0x0	[903]0x0	[904]0x0	[905]0x77	[906]0x5	[907]0x0	[908]0x0	[909]0x0	[910]0x0	[911]0x0	[912]0x0	[913]0x84	[914]0x1	[915]0x0	[916]0x0	[917]0x0	[918]0x0	[919]0x0	[920]0x0	[921]0x0	[922]0x0	[923]0x0	[924]0x0	[925]0x7	[926]0x4	[927]0x0	[928]0x0	[929]0x0	[930]0x0	[931]0x0	[932]0x3	[933]0x0	[934]0x0	[935]0x0	[936]0x0	[937]0x2A	[938]0x2	[939]0x2D	[940]0x1	[941]0xC3	[942]0x6	[943]0x0	[944]0x0	[945]0x0	[946]0x0	[947]0x2A	[948]0x3	[949]0x0	[950]0x0	[951]0x0	[952]0x0	[953]0x0	[954]0x0	[955]0x0	[956]0x0	[957]0x0	[958]0x0	[959]0x0	[960]0x0	[961]0x0	[962]0x0	[963]0x0	[964]0x0	[965]0x0	[966]0x0	[967]0x0	[968]0x0	[969]0xA	[970]0x0	[971]0x0	[972]0x0	[973]0x0	[974]0x0	[975]0xE4	[976]0x2	[977]0x0	[978]0x0	[979]0x0	[980]0x0	[981]0x0	[982]0x0	[983]0xF9	[984]0x2	[985]0x0	[986]0x0
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#2 - 20.07.2020 03:00 - Александр Р

nSPI: 0 seqn: 3810586

idx0: 17664 blkCnt:13

dataOff=22

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#3 - 20.07.2020 03:01 - Александр Р

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idx1: 58328 blkCnt:15

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#4 - 20.07.2020 03:07 - Александр Р

- Файл *broken-halfframe.png* добавлен

#5 - 20.07.2020 03:13 - Александр Р

- Файл *broken-halfframe-2.png* добавлен

#6 - 20.07.2020 03:16 - Александр Р

ОСТАНОВКА И ЗАПУСК КАМЕРЫ КОМДОЙ ОТ ПК СИТУАЦИИ НЕ МЕНЯЮТ - НИЖНИЙ ПОЛУКАДР ОСТАЕТСЯ ИСПОРЧЕННЫМ!!!

#7 - 20.07.2020 03:27 - Александр Р

- Файл *broken-halfframe-230x164-u16_le.raw* добавлен

наверное надо подловив такую ситуацию нужно попытаться перепрошить и перезапустить контроллер без загрузки битстрима в ПЛИС и проверить пропадет ли ошибка

#8 - 20.07.2020 03:59 - Александр Р

закомментировал загрузку ПЛИС в контроллере и перепрошил его не выключая питания

и от камеры пакеты вообще перестали приходить - даже биконы

возможно при перепрошивке процессора для ПЛИС тоже каким-то образом аппаратно ресет делается?
нужно проверять как такой трюк с перепрошивкой работает и не влияет ли на ПЛИС когда все штатно

```
$ git diff main.c
diff --git a/proc_unit/Src/main.c b/proc_unit/Src/main.c
index cffcc8..b2c3360 100644
--- a/proc_unit/Src/main.c
+++ b/proc_unit/Src/main.c
@ -189,7 +189,8 @ int main(void)
HAL_GPIO_WritePin(GPIO_PORT_MIGRATE_TEST_LED2, GPIO_PIN_MIGRATE_TEST_LED2, GPIO_PIN_SET);
HAL_Delay(200);

- FPGA_init();
+// FPGA_init();^M
+bFPGA_Success = 1;^M
if(!bFPGA_Success) {
HAL_GPIO_WritePin(GPIO_PORT_MIGRATE_TEST_LED0, GPIO_PIN_MIGRATE_TEST_LED0, GPIO_PIN_RESET); //0 - OFF
```

#9 - 20.07.2020 04:05 - Александр Р

перепрошивка контроллера с загрузкой битстрима в ПЛИС пробелу устранило (до следующего раза когда опять возникнет)

Файлы

broken-halfframe.png	196 КБ	20.07.2020	Александр Р
broken-halfframe-2.png	231 КБ	20.07.2020	Александр Р
broken-halfframe-230x164-u16_le.raw	73,7 КБ	20.07.2020	Александр Р