

UU口 UL 4次HARQ重传失败问题

2026-04-17 09:53 - 王金伏

状态:	转测试	开始日期:	2026-04-17
优先级:	高	计划完成日期:	
指派给:	周磊	% 完成:	100%
类别:		预期时间:	0.00 小时
目标版本:		耗时:	0.00 小时
描述			

历史记录

#1 - 2026-04-17 09:55 - 王金伏

- 状态从新建变更为进行中

#2 - 2026-04-17 09:55 - 王金伏

- % 完成从0变更为10

#3 - 2026-04-17 09:55 - 王金伏

- 优先级从一般变更为高

#4 - 2026-04-17 10:58 - 高峰

- 主题从UU口4次HARQ重传失败问题变更为UU口UL 4次HARQ重传失败问题

#5 - 2026-04-21 10:36 - 王金伏

- 文件20260421-103341.jpg已添加

- 文件20260421-103349.jpg已添加

- 文件20260421-103345.jpg已添加

重传的问题修改L1C计算重传时的码率，在31环境验证多次，已解决。代码已合入主分支。

【问题描述】环境开启3次重传时，从DUlog中观察首次传是DTX，后面3次重传全部解析失败，核对终端与基站收发pusch时机，确定重传时候L1C已经调度的pusch且发送时机与基站要求的时机一致，基站3次重传时发送rv=0的版本，相同版本发送4次，从终端侧打印4次收到的协议栈下发的码流是一样的，定位中。

【问题原因】：

重传失败有2个原因：

1

重传时L1c计算的码率值为0，是错误的，L1C中码率数组共31个值，dci解析的mcs是码率数组索引，mcs是28/29/30/31时对应码率值全部是0，前面27个值是正常码率值。重传时，L1C计算的3次重传的coderate都是0，原因是PDCCH盲检dci0_1的mcs是31，30等（重传mcs取30等是正常的，代表重传，含义不是初传使用的mcs值），L1c从dci0_1获取mcs=30，将mcs作为码率数组的索引，后面28/29/30/31码率全部是0，L1C给码率赋值是0。

在初传ldpc编码为1时，重传coderate是0会导致ldpc等参数错误（coderate是0时ldpc编码是2），重发3次的bit处理流程与初传不同，导致基站无法解对重传。

2

特定配置解不对（与重传功能无关，该配置下解析不对）。环境开启AMC，rbstart=4,rbnum=4, tbsize=69, mcs=7，运行多次观察多个基站log，AMC开始会遍历多种tbsize与rbnum，目前只发现这一种配置一直错误（非重传参数错误）。重传与初传参数相同，都是ldpc2。

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15619 [15615][15615][2026-04-20T22:02:49.761][COMMON]pusch start: sfn:942, cur_slot:1,slot_cycle:64
15620 [15616][15616][2026-04-20T22:02:49.761][PUSCH]PUSCH para:sfn=942, slot=1, target:1, TBSize:1505,rbSize=36, rbStart=4, targetcode:0, vIndex:0
15621 [15617][15617][2026-04-20T22:02:49.761][PUSCH]PUSCH wj:rg_mod=0, mcb_tmp=3, nullpos:2400,nulllen:160,ldpcBaseGrp=2, qmModOrder=4, mrm_n_cb:16000,mrm_er0:5016,mrm_er1:5016,rm_er:5016
15622 [15618][15618][2026-04-20T22:02:49.761][PUSCH]PUSCH wj:rg_mod=0, mcb_tmp=3, nullpos:2400,nulllen:160,ldpcBaseGrp=2, qmModOrder=4, mrm_n_cb:16000,mrm_er0:5016,mrm_er1:5016,rm_er:5016
15623 [15619][15619][2026-04-20T22:02:49.761][PUSCH]PUSCH wj:rg_mod=0, mcb_tmp=3, nullpos:2400,nulllen:160,ldpcBaseGrp=2, qmModOrder=4, mrm_n_cb:16000,mrm_er0:5016,mrm_er1:5016,rm_er:5016
15624 [15620][15620][2026-04-20T22:02:49.761][PUSCH]PUSCH wj:rg_mod=0, mcb_tmp=3, nullpos:2400,nulllen:160,ldpcBaseGrp=2, qmModOrder=4, mrm_n_cb:16000,mrm_er0:5016,mrm_er1:5016,rm_er:5016
15625 [15621][15621][2026-04-20T22:02:49.761][COMMON]pusch end: sfn:942, cur_slot:1,slot_cycle:286
15626 [15622][15622][2026-04-20T22:02:49.761][COMMON]l1c start: sfn:942, cur_slot:2,slot_cycle:4
15627 [15623][15623][2026-04-20T22:02:49.761][COMMON]l1c ueType:0,ueState:15
15628 [15624][15624][2026-04-20T22:02:49.761][COMMON]l1c UE_STATE_Transition_start sfn:942, cur_slot:2,ue_state:25,start_cycle:7,dl_crc:0
15629 [15625][15625][2026-04-20T22:02:49.761][COMMON]l1c Clean buffer sfn:942, cur_slot:2, start_cycle:7, rf_start:159, end_cycle:94
15630 [15626][15626][2026-04-20T22:02:49.761][COMMON]l1c end sfn:942, cur_slot:2,end_cycle:95,dur_time:91
15631 [15627][15627][2026-04-20T22:02:49.761][COMMON]l1c start: sfn:942, cur_slot:3,slot_cycle:3
15632 [15628][15628][2026-04-20T22:02:49.761][COMMON]l1c ueType:0,ueState:25
15633 [15629][15629][2026-04-20T22:02:49.761][COMMON]l1c UE_STATE_Transition_start sfn:942, cur_slot:3,ue_state:25,start_cycle:5,dl_crc:0
15634 [15630][15630][2026-04-20T22:02:49.761][COMMON]l1c Clean buffer sfn:942, cur_slot:3, start_cycle:5, rf_start:144, end_cycle:75

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这是初传的harqid 11的第一次重传，targetcode是0，错误，导致bit处理时ldpc判断是2，整个bit处理全部异常，与初传完全不同。

- 文件 20260421-154731.jpg 已添加

#10 - 2026-04-21 16:38 - 王金伏

- 文件 20260421-163836.jpg 已添加

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195 [191] [191] [2026-04-21T15:24:00.512] [PDCCH] PDCCH dci0-1, sfn=597, slot=5, mcs=11, LOAD_EX_Bmcs=11
196 [192] [192] [2026-04-21T15:24:00.512] [PDCCH] PDCCH dci0-1, sfn=597, slot=10, mcs=11, LOAD_EX_Bmcs=11
197 [193] [193] [2026-04-21T15:24:00.512] [PDCCH] PDCCH dci0-1, sfn=597, slot=15, mcs=11, LOAD_EX_Bmcs=11
198 [194] [194] [2026-04-21T15:24:00.512] [PDCCH] PDCCH dci0-1, sfn=598, slot=0, mcs=11, LOAD_EX_Bmcs=11
199 [195] [195] [2026-04-21T15:24:00.512] [PDCCH] PDCCH dci0-1, sfn=598, slot=5, mcs=11, LOAD_EX_Bmcs=11
200 [196] [196] [2026-04-21T15:24:00.512] [PDCCH] PDCCH dci0-1, sfn=598, slot=10, mcs=11, LOAD_EX_Bmcs=11
201 [197] [197] [2026-04-21T15:24:00.512] [PDCCH] PDCCH dci0-1, sfn=598, slot=15, mcs=11, LOAD_EX_Bmcs=11
202 [198] [198] [2026-04-21T15:24:00.512] [PDCCH] PDCCH dci0-1, sfn=599, slot=0, mcs=11, LOAD_EX_Bmcs=11
203 [199] [199] [2026-04-21T15:24:00.512] [PDCCH] PDCCH dci0-1, sfn=599, slot=5, mcs=11, LOAD_EX_Bmcs=11
204 [200] [200] [2026-04-21T15:24:00.512] [PDCCH] PDCCH dci0-1, sfn=599, slot=10, mcs=11, LOAD_EX_Bmcs=11
205 [201] [201] [2026-04-21T15:24:00.512] [PDCCH] PDCCH dci0-1, sfn=599, slot=15, mcs=11, LOAD_EX_Bmcs=11
206 [202] [202] [2026-04-21T15:24:00.612] [PDCCH] PDCCH dci0-1, sfn=600, slot=0, mcs=11, LOAD_EX_Bmcs=11
207 [203] [203] [2026-04-21T15:24:00.612] [PDCCH] PDCCH dci0-1, sfn=600, slot=5, mcs=11, LOAD_EX_Bmcs=11
208 [204] [204] [2026-04-21T15:24:00.612] [PDCCH] PDCCH dci0-1, sfn=600, slot=10, mcs=11, LOAD_EX_Bmcs=11
209 [205] [205] [2026-04-21T15:24:00.612] [PDCCH] PDCCH dci0-1, sfn=600, slot=15, mcs=12, LOAD_EX_Bmcs=12
210 [206] [206] [2026-04-21T15:24:00.612] [PDCCH] PDCCH dci0-1, sfn=601, slot=0, mcs=30, LOAD_EX_Bmcs=30
211 [207] [207] [2026-04-21T15:24:00.612] [PDCCH] PDCCH dci0-1, sfn=601, slot=5, mcs=11, LOAD_EX_Bmcs=11
212 [208] [208] [2026-04-21T15:24:00.612] [PDCCH] PDCCH dci0-1, sfn=601, slot=10, mcs=11, LOAD_EX_Bmcs=11
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216 [212] [212] [2026-04-21T15:24:00.612] [PDCCH] PDCCH dci0-1, sfn=602, slot=10, mcs=11, LOAD_EX_Bmcs=11
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218 [214] [214] [2026-04-21T15:24:00.612] [PDCCH] PDCCH dci0-1, sfn=603, slot=0, mcs=11, LOAD_EX_Bmcs=11
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220 [216] [216] [2026-04-21T15:24:00.612] [PDCCH] PDCCH dci0-1, sfn=603, slot=10, mcs=30, LOAD_EX_Bmcs=30
221 [217] [217] [2026-04-21T15:24:00.612] [PDCCH] PDCCH dci0-1, sfn=603, slot=15, mcs=11, LOAD_EX_Bmcs=11
222 [218] [218] [2026-04-21T15:24:00.612] [PDCCH] PDCCH dci0-1, sfn=604, slot=0, mcs=11, LOAD_EX_Bmcs=11
223 [219] [219] [2026-04-21T15:24:00.612] [PDCCH] PDCCH dci0-1, sfn=604, slot=5, mcs=11, LOAD_EX_Bmcs=11
224 [220] [220] [2026-04-21T15:24:00.612] [PDCCH] PDCCH dci0-1, sfn=604, slot=10, mcs=11, LOAD_EX_Bmcs=11
225 [221] [221] [2026-04-21T15:24:00.612] [PDCCH] PDCCH dci0-1, sfn=604, slot=15, mcs=10, LOAD_EX_Bmcs=10
226 [222] [222] [2026-04-21T15:24:00.612] [PDCCH] PDCCH dci0-1, sfn=605, slot=0, mcs=10, LOAD_EX_Bmcs=10
227 [223] [223] [2026-04-21T15:24:00.612] [PDCCH] PDCCH dci0-1, sfn=605, slot=5, mcs=10, LOAD_EX_Bmcs=10

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重传时，PDCCH解析出的mcs是30,31等值，代表重传时使用的QAM表，不是初传时使用的mcs值，不能用做判断速率的输入。（初传是根据PDCCH解析的mcs值，mcs作为数组索引确定速率值）

#11 - 2026-04-22 18:02 - 王金伏

- 文件 20260422-180058.jpg 已添加

- 文件 20260422-180102.jpg 已添加

- % 完成 从 50 变更为 90

【解决方案】

- 1 重传码率参数错误----修改L1c代码，在重传时L1C使用上一次初传的码率。
- 2 特定配置解不对，准备在这种参数配置UT对数。（与重传功能无关）

【问题验证】

- 1 重传码率参数错误----修改L1c代码，在重传时L1C使用上一次初传的码率。修改L1C处理重传代码，在判断重传时，使用上次harqid的码率，在环境验证，第二次重传成功。

重传失败问题已解决，31环境验证重传的基站log:

这是第一次新传失败的基站dulog。

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新传第一次失败!!!对应的Harqid          基站解析错误, 0是crc解析错误          同harqid下第1次解析值, txCnt=1, 第2次解析值, txCnt=2, 第3次解析值, txCnt=3, 第4次解析值, txCnt=4.
nd: rnti[17019] harqid[10] iMcs[25] rbStart[4] rbNum[265] tbsize[20997] ucAckNack[0] txCnt[1] rv[0] crntTime[217 18] puscb[217 17] pdccch[217 5] ta[31] sinr[-69] rsrp[-11]
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nd: rnti[17019] harqid[3] iMcs[25] rbStart[4] rbNum[265] tbsize[20997] ucAckNack[0] txCnt[1] rv[0] crntTime[337 17] puscb[337 17] pdccch[337 5] ta[31] sinr[-67] rsrp[-10]
nd: rnti[17019] harqid[15] iMcs[25] rbStart[4] rbNum[265] tbsize[20997] ucAckNack[0] txCnt[1] rv[0] crntTime[388 18] puscb[388 17] pdccch[388 5] ta[31] sinr[-65] rsrp[8]
nd: rnti[17019] harqid[3] iMcs[25] rbStart[4] rbNum[265] tbsize[20997] ucAckNack[0] txCnt[1] rv[0] crntTime[448 8] puscb[448 7] pdccch[448 10] ta[31] sinr[-68] rsrp[-10]
nd: rnti[17019] harqid[0] iMcs[25] rbStart[4] rbNum[265] tbsize[20997] ucAckNack[0] txCnt[1] rv[0] crntTime[527 8] puscb[527 7] pdccch[526 15] ta[31] sinr[-69] rsrp[-9]
nd: rnti[17019] harqid[3] iMcs[25] rbStart[4] rbNum[265] tbsize[20997] ucAckNack[0] txCnt[1] rv[0] crntTime[566 18] puscb[566 17] pdccch[566 5] ta[31] sinr[-65] rsrp[3]
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nd: rnti[17019] harqid[5] iMcs[25] rbStart[4] rbNum[265] tbsize[20997] ucAckNack[0] txCnt[1] rv[0] crntTime[962 18] puscb[962 17] pdccch[962 5] ta[31] sinr[-68] rsrp[-11]
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长度: 42,138,055 行数: 195,955 行: 2,155 列: 123 选中: 24 | 1 Windows (CR LF) UTF-8 INS 17:55 2026/4/22

这是第二次重传时, 基站解对重传:

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基站解析第一次重传, 对应新传错误的harqid,          重传基站解对CRC-1是解对          解析的次数, txCnt[2]是同Harqid第三次解析          重传的版本rv=2, 真实是发送rv=0, 基站填写值是2
nd: rnti[17019] harqid[4] iMcs[25] rbStart[4] rbNum[265] tbsize[20997] ucAckNack[1] txCnt[2] rv[2] crntTime[188 13] puscb[188 12] pdccch[188 0] ta[31] sinr[-65] rsrp[25]
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nd: rnti[17019] harqid[15] iMcs[25] rbStart[4] rbNum[265] tbsize[20997] ucAckNack[1] txCnt[2] rv[2] crntTime[388 3] puscb[388 2] pdccch[387 10] ta[31] sinr[-65] rsrp[24]
nd: rnti[17019] harqid[3] iMcs[25] rbStart[4] rbNum[265] tbsize[20997] ucAckNack[1] txCnt[2] rv[2] crntTime[448 8] puscb[448 7] pdccch[447 15] ta[31] sinr[-65] rsrp[26]
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长度: 42,138,055 行数: 195,955 行: 2,151 列: 172 选中: 124,882 | 580 Windows (CR LF) UTF-8 INS 17:49 2026/4/22

2 特定配置解不对, 准备在这种参数配置UT对数。(与重传功能无关, 之前的问题单#4080) 重传的问题已经解决。

新传的时候会出现0.3%误包, 从基站log看是基站刚收到的SNR是负值, RSRP正常是-65左右, 待定位。

#12 - 2026-04-23 17:13 - 王金伏

- 状态从进行中变更为审视

- % 完成从90 变更为100

#13 - 2026-04-23 19:49 - 王金伏

- 指派给从王金伏变更为朱荣涛

#14 - 2026-04-24 09:30 - 王金伏

- 指派给从朱荣涛变更为雪峰赖

#15 - 2026-04-24 14:07 - 雪峰赖

- 状态从 审视 变更为 已解决

#16 - 2026-04-24 14:25 - 李常

- 状态从 已解决 变更为 审视

#17 - 2026-04-24 14:26 - 雪峰赖

- 状态从 审视 变更为 转测试

重传，采用上次的CodeRate

#18 - 2026-04-24 14:32 - 雪峰赖

- 指派给从雪峰赖变更为周磊

#19 - 2026-04-24 16:05 - 李常

已合入到V0.0.1_T07__Alpha21版本中，请负责验证。

文件

20260421-103341.jpg	1.75 MB	2026-04-21	王金伏
20260421-103349.jpg	318 KB	2026-04-21	王金伏
20260421-103345.jpg	269 KB	2026-04-21	王金伏
20260421-114529.jpg	1.1 MB	2026-04-21	王金伏
20260421-142225.jpg	297 KB	2026-04-21	王金伏
20260421-142231.jpg	339 KB	2026-04-21	王金伏
20260421-142727.jpg	113 KB	2026-04-21	王金伏
20260421-154731.jpg	584 KB	2026-04-21	王金伏
20260421-163836.jpg	727 KB	2026-04-21	王金伏
20260422-180058.jpg	1.23 MB	2026-04-22	王金伏
20260422-180102.jpg	1.18 MB	2026-04-22	王金伏