openairinterface5g

Техническая документация

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Содержание

Release Notes & Latest Changes

- **2025.w24** — 2025-06-13
  Integration 2025 week 24 * !3354 Preparation Work for N2 Handover * !3383 Add configurable values of NR RLC and NR PDCP to the configuration file * !3468 Resolve "SSB frequency at gnb.sa.band78.fr1.24PRB.usrpb210.conf is invalid" * !3466 YAML related updates * !3460 SRS configuration * !3474 Fix AMF selection fallback by PLMN ID when no UE identity is present or matching * !3473 Fix various bugs and inconsistencies in config read, SCTP, ITTI, GTP * !3169 NR RU improvements for analog beamforming * !3456 CI: update config for AW2S pipeline * !3369 Add Security Mode Reject lib/unit test and adopt in stack * !3457 Fix NR reestablishment * !3412 [E2 agent] E2AP README update and OAI-FlexRIC CI pipeline improvements
- **2025.w23** — 2025-06-04
  Integration 2025 week 23 * !3302 Enhance UE identity management in Initial UE Message and other NGAP improvements * !3400 T bugfix: check input data a bit better * !3459 Improvements in NR band tables according to Rel.17 * !3465 Fix checking that amf_ip_address section is not set. * !3463 Move RRC radio parameters file to DU * !3389 Relax NR_UE_CAPABILITY_SLOT_RX_TO_TX asserts * !3417 Imscope updates * !3443 Fix data race in NR UE MSG3 scheduling * !3467 remove dead globals
- **2025.w22** — 2025-05-28
  Integration 2025 week 22 * !3415 several fixes and cleanup for nrLDPC_coding_t2 * !3448 T: macpdu2wireshark: dump to file instead of sending UDP packets * !3449 bugfix: pass correct buffer * !3453 CI: revert modification of SSB per RACH occasion in SC-FDMA test * !3440 Update NAS documentation * !3451 fix the number of preambles per SSB at UE in case PRACH is configured with groupB * !3441 Replace hashtable with epoll_event_t in rfsimulator * !3277 Add CI test to force RRC IDLE and new connection setup with 5G-S-TMSI * !3454 Keep old MAC stats after re-establishment * !3450 Make number of UL/DL actors in NR UE fully configurable * !3458 (doc): update README with build icons for dedicated arch and os
- **2025.w20** — 2025-05-20
  Integration 2025 week 20 * !3168 Improvements for LDPC encoding * !3386 E1 Bearer Context Release enc/dec lib and unit test * !3394 Fix Liteon with MTU 1500 and update the FHI docs * !3437 CI: RFsim F1/HO: Use hanging-workaround to avoid blocking of second client * !3384 Add enc/dec library and unit test for E1 Bearer Context Modification Failure * !3418 Use common function to generate CSI-RS signal * !3379 Add physim tests into ctest framework * !3420 Added intercommunication between namespaces * !3422 Tutorials: updates for NR SA Tutorials * !3436 Beam switching small fixes * !3439 Fix RRC resources periodicity determination according to number of slots per period * !3434 Remove EPC/UE main.py parameters * !3423 Fix PDSCH and PUSCH BWP Start and Size when PXSCH is scheduled with a DCI

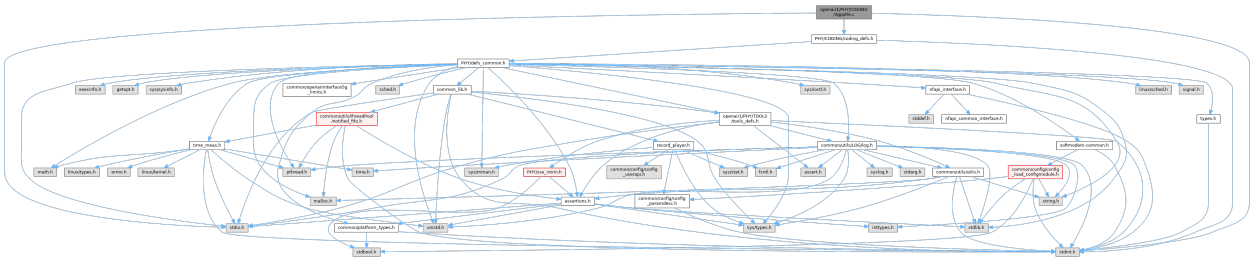
format x_0 in any type of PDCCH common search space * !3442 Fix UL chanel estimates mapping in 2-layer MMSE receiver

- **2025.w19** — 2025-05-13
  Integration 2025 week 19 * !3409 Correctly handle minimum RB condition in MAC * !3421 Fix DMRS for PUCCH format 2 * !3424 limit the number of HARQ processes in case of DCI00 and 10 * !3116 ue txData more contextual, but still global as it is entangled with usrp driver * !3408 Handling 2 search spaces per slot in SIB1 * !3419 PRACH configuration index warning * !3429 CI: Add `-l` option for the UL iperf test * !3381 Add 5GMM Authentication Failure enc/dec lib and unit test
- `8c0641c` — 2025-06-13 (Robert Schmidt): Merge branch 'integration_2025_w24' into 'develop'
- `736ea53` — 2025-06-13 (luis_pereira87): Only reestablish RLC while processing reconfiguration complete after a RRCReestablishment and not for every RRCReconfiguration
- `5b9d770` — 2025-06-13 (Robert Schmidt): Merge remote-tracking branch 'origin/e2-fixes-updates' into integration_2025_w24 (!3412)
- `9513d48` — 2025-06-13 (Robert Schmidt): Merge remote-tracking branch 'origin/fix_nr_reestablishment' into integration_2025_w24 (!3457)
- `dfadcab` — 2025-06-12 (Robert Schmidt): Store spCellConfig during reestablishment for reconfiguration
- `81dbaf0` — 2025-06-12 (Robert Schmidt): Add comment on reestablishment in MAC-RRC DL handler
- `15370e7` — 2025-06-12 (Robert Schmidt): Implement RB suspend at gNB MAC
- `f3802d7` — 2025-06-12 (Robert Schmidt): Merge remote-tracking branch 'origin/nr-ue-nas-sec-mode-reject' into integration_2025_w24 (!3369)
- `690be9c` — 2025-06-12 (Robert Schmidt): Merge remote-tracking branch 'origin/ci-asue-test' into integration_2025_w24 (!3456)
- `27ece7e` — 2025-06-12 (Jaroslava Fiedlerova): CI: update AmariUE configuration file, add RF configuration

3gpplte.c File Reference

```
#include <stdint.h>
#include <stdio.h>
#include "PHY/CODING/coding_defs.h"
```

Include dependency graph for 3gpplte.c:



Functions

void	**threegpplte_interleaver_reset** (void)
uint16_t	**threegpplte_interleaver** (**uint16_t f1**, **uint16_t** f2, **uint16_t K**)
uint8_t	**threegpplte_rsc** (**uint8_t** input, **uint8_t** *__state__)
uint8_t	**threegpplte_rsc_lut** (**uint8_t** input, **uint8_t** *__state__)
void	**threegpplte_rsc_termination** (**uint8_t** *__x__, **uint8_t** *__z__, **uint8_t** *__state__)
void	**threegpplte_turbo_encoder** (**uint8_t** *input, **uint16_t** input_length_bytes, **uint8_t** *output, **uint8_t F**)
short	**threegpp_interleaver_parameters** (**uint16_t** bytes_per_codeword)
	__attribute__ ((constructor))

Variables

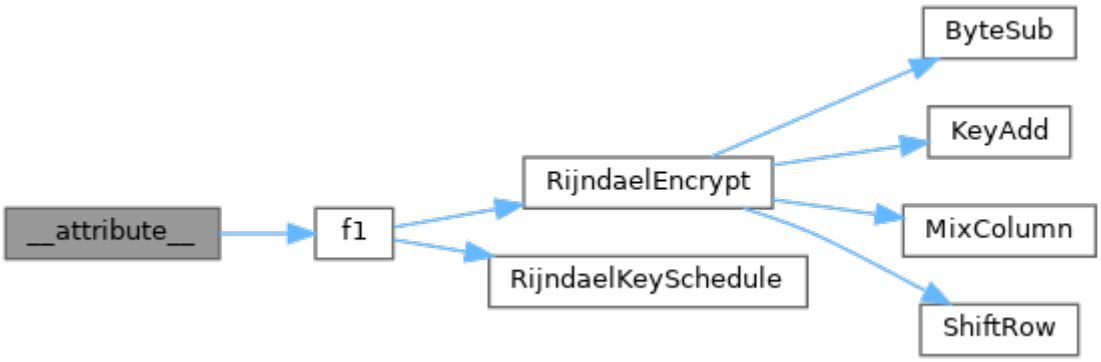
uint32_t	**threegpplte_interleaver_output**
uint32_t	**threegpplte_interleaver_tmp**
uint8_t	**output_lut** [16]
uint8_t	**state_lut** [16]
int	**turbo_encoder_init** = 0
uint32_t	**bit_byte_lut** [2048]
const **interleaver_TS_36_212_t**	**f1f2** [188]
t_interleaver_codebook *	**f1f2mat**
short *	**il_tb**

Function Documentation

◆ __attribute__()

__attribute__	(	(constructor)	)	

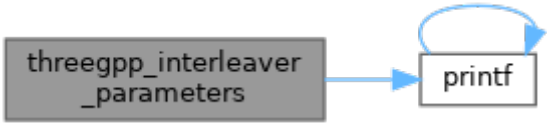
Here is the call graph for this function:



◆ threegpp_interleaver_parameters()

short threegpp_interleaver_parameters (**uint16_t** bytes_per_codeword) inline

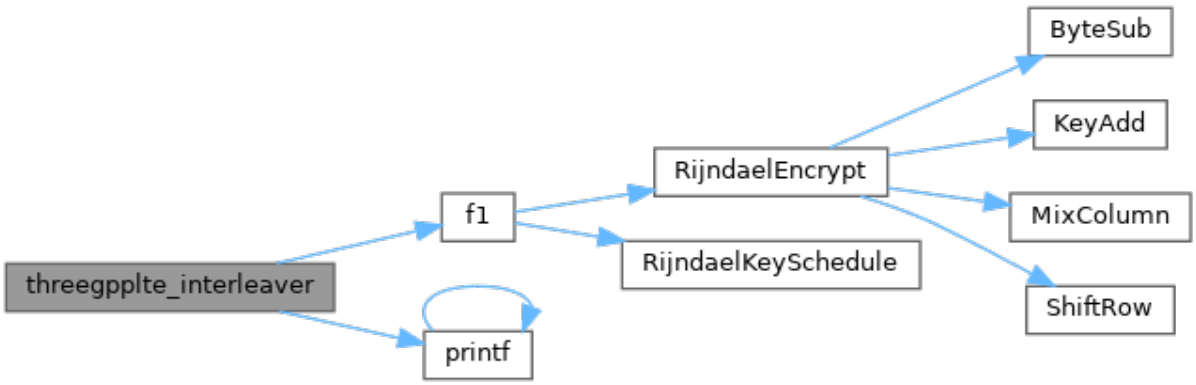
Here is the call graph for this function:



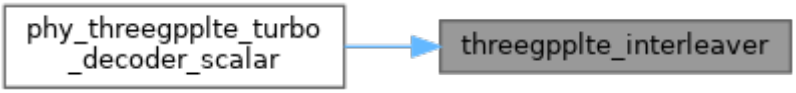
◆ threegpplte_interleaver()

uint16_t threegpplte_interleaver (**uint16_t** f1,
uint16_t f2,
uint16_t K) inline

Here is the call graph for this function:



Here is the caller graph for this function:

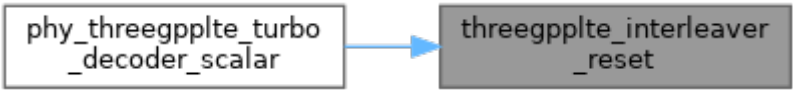


◆ threegpplte_interleaver_reset()

void threegpplte_interleaver_reset	(	void	)	

inline

Here is the caller graph for this function:



◆ threegpplte_rsc()

uint8_t threegpplte_rsc	(	**uint8_t**	input,
		uint8_t *	state)

inline

Here is the caller graph for this function:

◆ threegpplte_rsc_lut()

uint8_t threegpplte_rsc_lut	(	**uint8_t**	input,
		uint8_t *	state)

inline

Here is the caller graph for this function:

◆ threegpplte_rsc_termination()

void threegpplte_rsc_termination	(	**uint8_t** *	x,
		uint8_t *	z,
		uint8_t *	state)

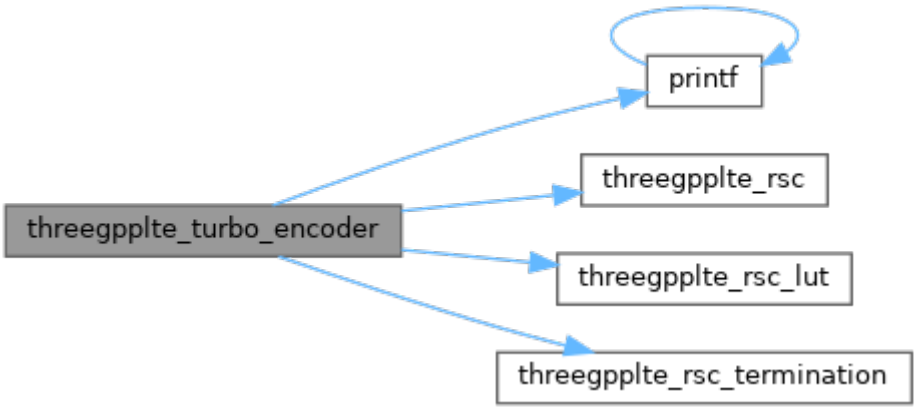
inline

Here is the caller graph for this function:

◆ threegpplte_turbo_encoder()

void threegpplte_turbo_encoder	(	**uint8_t** *	input,
		uint16_t	input_length_bytes,
		uint8_t *	output,
		uint8_t	F)

Here is the call graph for this function:



Variable Documentation

◆ bit_byte_lut

uint32_t bit_byte_lut[2048]

◆ f1f2

const **interleaver_TS_36_212_t** f1f2[188]

◆ f1f2mat

t_interleaver_codebook* f1f2mat

◆ il_tb

short* il_tb

◆ output_lut

uint8_t output_lut[16]

◆ state_lut

uint8_t state_lut[16]

◆ threegpplte_interleaver_output

uint32_t threegpplte_interleaver_output

◆ threegpplte_interleaver_tmp

uint32_t threegpplte_interleaver_tmp

◆ turbo_encoder_init

int turbo_encoder_init = 0