

组会报告

徐益

2018 年 9 月 30 日

1 工作内容

1. 实现特定天线上特定子帧的数据采集；
2. 生成数据频谱；
3. 根据 PRACH 测时延。

2 实现特定天线上特定子帧的数据采集

C main.c	rx_U2l.bt	rx_U2r.bt	data.bt	x	C data_pkg_head.c	C data_pkg_head.h	C info_pkg_head.c	M makefile
1	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 32 00 00 01 49 48 A3 20	00 00 00 00 00 00 00 00 FC 48 EF 4A F6 AE DD 3E FB		01 00 00 00 00 00 00 00 0F 43 E7 4E FC 5A FC 77 F4			
2	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 33 00 00 01 49 48 A3 20	02 00 00 00 00 00 00 00 EC 29 11 C4 F9 03 08 2D 09		02 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
3	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 34 00 00 01 49 48 A3 20	03 00 00 00 00 00 00 00 EE 27 FB 1F FE D5 ED 44 FB		03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
4	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 35 00 00 01 49 48 A3 20	04 00 00 00 00 00 00 00 12 BD 08 0E F0 E3 11 13 ED		04 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
5	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 36 00 00 01 49 48 A3 20	05 00 00 00 00 00 00 00 ED FB F0 46 EF 7B FA E1 F9		05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
6	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 37 00 00 01 49 48 A3 20	06 00 00 00 00 00 00 00 08 60 00 D5 FA 1E EB 34 06		06 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
7	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 38 00 00 00 E3 48 A3 20	07 00 00 00 00 00 00 00 05 7A F7 45 22 76 07 7E 03		07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
8	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 39 00 00 01 49 48 A3 21	08 00 00 00 00 00 00 00 09 89 EE 39 FA F5 E4 82 05		08 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
9	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 3A 00 00 01 49 48 A3 21	09 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		09 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
10	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 3B 00 00 01 49 48 A3 21	0A 00 00 00 00 00 00 00 EB E8 FB 04 1E A4 F0 8A 27		0A 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
11	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 3C 00 00 01 49 48 A3 21	0B 00 00 00 00 00 00 00 0D C4 F5 DD F1 FD 22 5F EE		0B 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
12	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 3D 00 00 01 49 48 A3 21	0C 00 00 00 00 00 00 00 F5 A0 1C 5F E4 2B E6 C4 F9		0C 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
13	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 3E 00 00 01 49 48 A3 21	0D 00 00 00 00 00 00 00 F2 01 FE 97 08 2B 00 44 20		0D 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
14	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 3F 00 00 00 D3 48 A3 21	0E 00 00 00 00 00 00 00 F3 9C F0 E5 00 0A FC 6E EF		0E 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
15	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 40 00 00 01 49 48 A3 22	0F 00 00 00 00 00 00 00 08 8B FC 9E F5 50 1A 15 05		0F 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
16	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 41 00 00 01 49 48 A3 22	10 00 00 00 00 00 00 00 E4 D0 DB 66 DC FB D4 CC F2		10 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
17	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 42 00 00 01 49 48 A3 22	11 00 00 00 00 00 00 00 F6 9A 0D CD 19 58 07 F9 0B		11 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
18	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 43 00 00 01 49 48 A3 22	12 00 00 00 00 00 00 00 F8 FA 22 79 ED 6F 13 67 EC		12 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
19	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 44 00 00 01 49 48 A3 22	13 00 00 00 00 00 00 00 FA 9D 09 A2 F5 2A 10 33 0F		13 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
20	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 45 00 00 00 01 49 48 A3 22	14 00 00 00 00 00 00 00 05 9B F6 03 F8 CA F2 15 E0		14 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
21	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 46 00 00 00 D3 48 A3 22	15 00 00 00 00 00 00 00 F0 BB EB 30 F4 A8 FC BF F0		15 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
22	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 47 00 00 01 49 48 A3 23	16 00 00 00 00 00 00 00 ED 82 E0 F2 14 67 D8 D9 16		16 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
23	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 48 00 00 01 49 48 A3 23	17 00 00 00 00 00 00 00 02 25 00 E8 10 D1 FF 05 FB		17 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
24	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 49 00 00 01 49 48 A3 23	18 00 00 00 00 00 00 00 EA F4 F9 98 E6 1F 10 FB FD		18 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
25	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 4A 00 00 01 49 48 A3 23	19 00 00 00 00 00 00 00 09 31 E4 3C FB 4F E6 71 FD		19 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
26	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 4B 00 00 01 49 48 A3 23	1A 00 00 00 00 00 00 00 09 FB 20 84 06 57 14 99 F1		1A 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
27	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 4C 00 00 01 49 48 A3 23	1B 00 00 00 00 00 00 00 F5 C0 D9 FF 22 9A E9 9F 16		1B 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
28	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 4D 00 00 00 D3 48 A3 23	1C 00 00 00 00 00 00 00 FB 99 0C DA EA 50 0E 12 05		1C 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
29	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 4E 00 00 01 49 48 A3 24	1D 00 00 00 00 00 00 00 02 BB FE DE 0C 37 05 5B 15		1D 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
30	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 4F 00 00 01 49 48 A3 24	1E 00 00 00 00 00 00 00 03 AF 11 8B F2 9D F7 17 FB		1E 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
31	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 50 00 00 01 49 48 A3 24	1F 00 00 00 00 00 00 00 04 60 E7 0A 0A 09 E8 BF 0D		1F 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
32	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 51 00 00 01 49 48 A3 24	20 00 00 00 00 00 00 00 F6 5E 01 4E FC A7 E5 C3 01		20 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
33	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 52 00 00 01 49 48 A3 24	21 00 00 00 00 00 00 00 FA 62 0A D9 1B CE FF 57 04		21 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
34	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 53 00 00 01 49 48 A3 24	22 00 00 00 00 00 00 00 F4 6C E8 6C 02 91 D6 CA 08		22 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
35	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 54 00 00 00 D3 48 A3 24	23 00 00 00 00 00 00 00 09 C5 E5 6B 0D 54 FE 0F FF		23 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
36	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 55 00 00 01 49 48 A3 25	24 00 00 00 00 00 00 00 03 F5 02 1B 16 E6 02 D8 03		24 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
37	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 56 00 00 01 49 48 A3 25	25 00 00 00 00 00 00 00 12 A9 FD 81 F8 45 18 C4 11		25 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
38	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 57 00 00 01 49 48 A3 25	26 00 00 00 00 00 00 00 0C 9C FE E8 08 53 F7 42 03		26 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			
39	00 00 FF 0A 17 BF F7 C0 BB 53 01	11 01 B7 06 11 6B 58 00 00 01 49 48 A3 25	27 00 00 00 00 00 00 00 FD 4D 18 AE 02 69 1D 00 07		27 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00			

图 1: 第二子帧数据采集

3 生成数据频谱

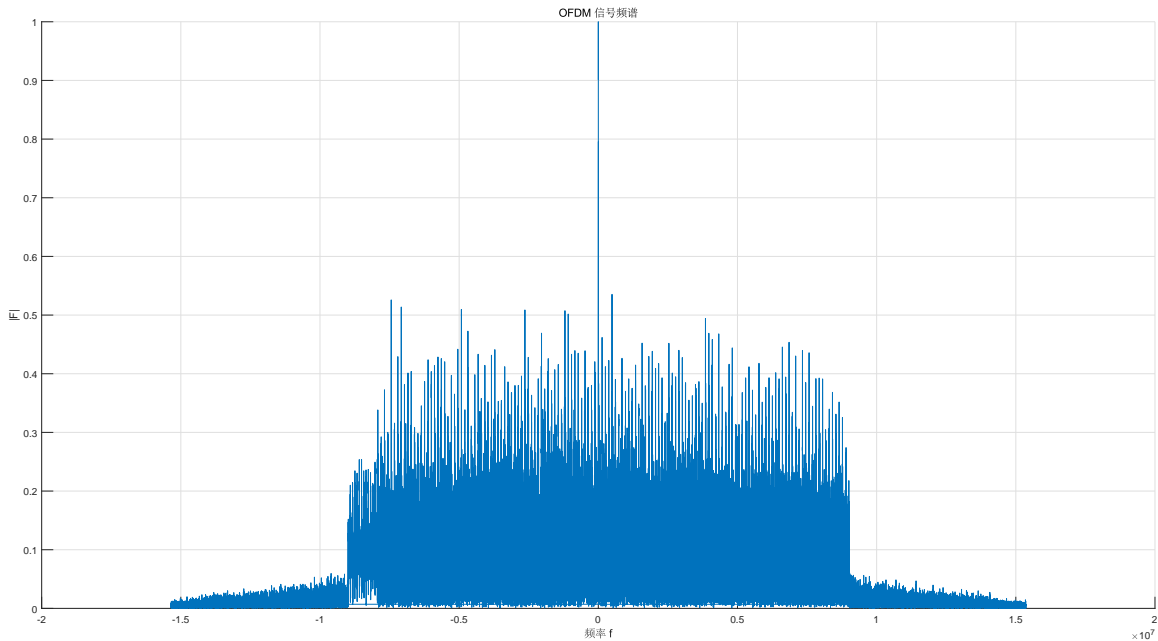


图 2: 第二子帧频谱

4 根据 PRACH 测时延

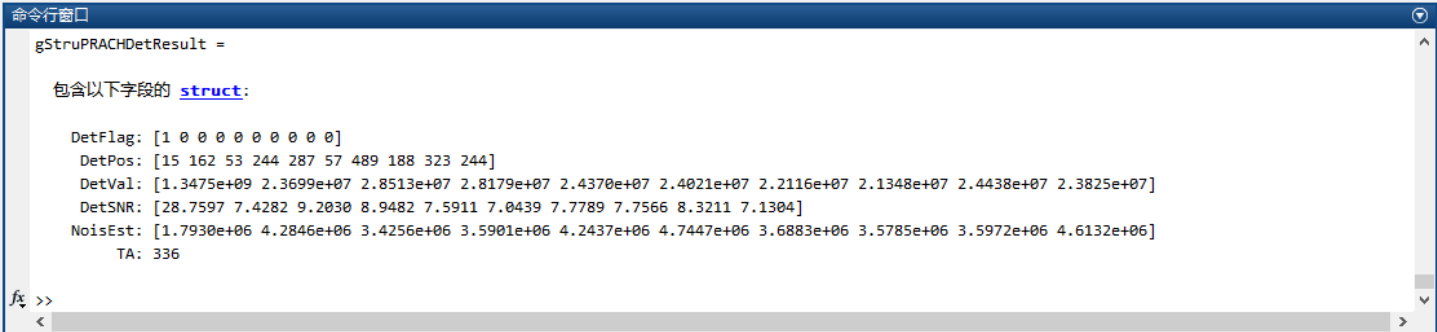


图 3: 时延测试结果

5 后续工作

1. 对采集数据进行信道检测;
2. 对采集数据进行 LTE 译码解调;
3. 用 LDPC 编译码替换原单线程系统的 Turbo 编译码;
4. 将带 LDPC 的系统生成的数据通过底层设备并测试。