

Note: ran Chelsea's pre-loaded ZZ exchange overnight for ¹⁵N TAD + PPIE ΔRRM (i.e. isomerase domain). We had time for 12 of our usual 13 spectra, ditching the 3 sec dso delay.

dso array = 0, 2.5, 0.05, 2, 0.1, 1.75, 0.25, 1.5, 0.5, 1.25, 0.75, 1 (sec)

When I originally processed the interleaved data, I could tell that something was wrong. We've typically been setting our overnight time series as:

array = dso, phase } this means array phase, then dso*

* this collects phase=1 and phase=2 for each dso, such that FID 1 and 2 are the first dso increment, while FIDs 3 and 4 are the second. This is the default mode of nmrPipe processing.

Previously, I was interleaving both dso & phase w UTSW, such that:

array = phase, dso } first collect phase 1 on all dso, and then collect phase 2 on all dso

array = dso, phase

FID	dso	phase
1	0	1
2	0	2
3	2.5	1
4	2.5	2
5	0.05	1
6	0.05	2
7	2	1
8	2	2
9	0.1	1
10	0.1	2
11	1.75	1
12	1.75	2
13	0.25	1
14	0.25	2
15	1.5	1
16	1.5	2
17	0.5	1
18	0.5	2
19	1.25	1
20	1.25	2
21	0.75	1
22	0.75	2
23	1	1
24	1	2

array = phase, dso

FID	dso
1	0
2	2.5
3	0.05
4	2
5	0.1
6	1.75
7	0.25
8	1.5
9	0.5
10	1.25
11	0.75
12	1
13	0
14	2.5
15	0.05
16	2
17	0.1
18	1.75
19	0.25
20	1.5
21	0.5
22	1.25
23	0.75
24	1

phase=1

phase=2

- ① To readjust FID order and 'reassemble' data, run the varAdjust.tcl script; you'll need to list each phase = 1, 2 pair of FIDs in whatever order you wish to reassemble them in. While we're pairing up FIDs, we may as well put the dso delay series in order.

```
% varAdjust.tcl -in fid -out new_fid -expand  
-order 1 13 3 15 5 17 7 19 9 21 11 23  
12 24 10 22 8 20 6 18 4 16 2 14  
% gzip --best new_fid
```

- ② Open process_interleavedZZ.com macro - edit header to accept new_fig.gz. Make sure ISN column has z plane and time/dso is listed as y plane. This is the typical header for our ZZ macros. Edit # of Spectra (12 in our case), and then update file name.

- ③ process data and open .fts from newly created "FTs_new" directory. Done!