

Duplicate Run Issue

- CODA Version 2.6.1
 - Sometimes the scripts do not create the correct filename and a duplicate file is created instead
 - Problem occurred 28 times
 - Having four disks has mostly prevented us from overwriting data, except for two runs:
 - **3886** overwrote **3885** (10 M events)
 - **22855** overwrote **22854** (10 M events)
 - This problem seems to have vanished after the run control GUI software was updated in mid-April

Problematic Run Summary

Runs from Fall 2011 through Feb 2012

Run Number	Comments
1152	Pre-December Commissioning
1162	Pre-December Commissioning
1943	4 M events
20228	Pre-December Commissioning
20339	Pre-December Commissioning
20891	High Deadtime, short run
21062	1.7 M events
21255	Pre-March Commissioning
21580	Pre-March Commissioning

Problematic Run Summary II

L-HRS Runs from March and April 2012

Run Number	Comments
3003	0.8 M, beam position
3005	0.83 M, beam position
3234	0.45 M, pulsed beam Carbon
3249	0.83 M, Optics BPM calibration
3266	2 M, Dilution on Carbon
3504	2 M, NH3 unpolarized
3769	2 M, Dilution NH3 top
3825	1 M, NH3 top, production 4 mins
4423	1 M, Dilution, Home

Problematic Run Summary III

R-HRS and TA Runs from March and April 2012

Run Number	Comments
22096	1 M, BPM calibration
22339	2 M, current scan 15 nA, dat. I
22347	2 M, current scan 100 nA
22352	2.6 M, Dilution on Dummy, dat. I
22539	0.16 M, Carbon, time < 1 min
22547	1 M, Dilution, Empty
22910	0.26 M, Dilution, Home
40531	6.1 M, NH3 top, production TA

Summary of Run Types

- Two production runs lost: 3885 and 22854
- 26 runs with duplicate files:
 - 6 runs without beam
 - 3 runs during December commissioning
 - 5 runs during March BPM calibration
 - 2 runs during current scan
 - 8 runs dilution
 - 1 production run on NH3 (3825)
 - 1 third arm run using CODA 2.5 (50531)

Handling Duplicate Runs

- For the useful runs ~ 16, we will need to figure out which file belongs to which run number
- The run number is stored in the raw data file, so this should be fairly easy to figure out after replay.
- For the R-HRS, two duplicate files are “dat.1” files but the “dat.0” was not duplicated. This may be more problematic to figure out.