

re-sorted 2 merged archive files

Two merged archive files have been found with fairly big blocks of backwards samples.

The statsproc process logs the following after every 100 backwards samples, and many were seen in the logs of processing the PCAPS data.

```
2013-01-01, 22:45:17|WARNING|NearestResampler: sample id 2,102 backwards by 2325.2 sec at 2011 01 26 22:21:05.469201
```

I re-sorted the data with a 1 hour sorter in nidsmerge:

```
nidsmerge -s "2011 01 29 16:00" -e "2011 01 30 00:00" -i isfs_20110129_160000.dat.bz2 -r 3600 -o $s/isfs_%Y%m%d_%H%M%S.dat.bz2 -l $((8*3600))
```

The files have been replaced on /scr/isfs and on the HPSS.

Here are data_stats listing of the old and new files.

data_stats isfs_20110126_160000.dat.bz2									
2013-01-02,09:30:18 NOTICE parsing: /net/isf/isff/projects/PCAPS/ISFF/config/pcaps.xml									
Exception: EOFException: isfs_20110126_160000.dat.bz2: open: EOF									
sensor	dsM	sampid	nsamps	-----	start	-----		-----	end -----
minMaxDT(sec)	minMaxLen								rate
isfs1:/dev/ttyS2	1	20	30083	2011 01 26 16:00:00.138	01 26 23:59:59.726			1.04-2332.729	
890.893 19 19									
isfs1:/var/tmp/gps_pty0	1	30	60658	2011 01 26 16:00:00.500	01 26 23:59:59.708			2.11-2333.150	
890.859 51 73									
isfs1:/dev/ttyS4	1	40	30604	2011 01 26 16:00:00.559	01 26 23:59:59.606			1.06-2332.339	
890.471 18 18									
isfs1:/dev/ttyS5	1	50	27235	2011 01 26 16:00:00.201	01 26 23:59:59.538			0.95-2332.128	
891.041 21 39									
isfs1:/dev/ttyS1	1	100	1804701	2011 01 26 16:00:00.004	01 26 23:59:59.995			62.66-2333.789	
890.018 14 14									
isfs1:/dev/ttyS6	1	32768	18054	2011 01 26 16:00:02.016	01 26 23:59:59.688			0.63-2332.560	
892.475 21 80									
isfs2:/dev/ttyS2	2	20	30082	2011 01 26 16:00:00.403	01 26 23:59:59.191			1.04-2333.743	
890.905 20 20									
isfs2:/var/tmp/gps_pty0	2	30	60157	2011 01 26 16:00:00.505	01 26 23:59:59.742			2.09-2334.145	
890.857 72 73									
isfs2:/dev/ttyS5	2	50	30729	2011 01 26 16:00:00.105	01 26 23:59:59.569			1.07-2333.530	
891.714 29 31									
isfs2:/dev/ttyS1	2	100	1804650	2011 01 26 16:00:00.006	01 26 23:59:59.989			62.66-2334.522	
890.388 14 14									
isfs2:/dev/ttyS6	2	32768	18062	2011 01 26 16:00:01.207	01 26 23:59:58.369			0.63-2330.950	
894.940 6 116									
isfs3:/dev/ttyS2	3	20	30084	2011 01 26 16:00:00.059	01 26 23:59:59.855			1.04-2333.907	
890.009 20 20									
isfs3:/var/tmp/gps_pty0	3	30	60160	2011 01 26 16:00:00.501	01 26 23:59:59.730			2.09-2333.186	
890.829 72 73									
isfs3:/dev/ttyS5	3	50	30730	2011 01 26 16:00:00.602	01 26 23:59:59.258			1.07-2333.224	
890.619 25 30									
isfs3:/dev/ttyS8	3	80	6011	2011 01 26 16:00:03.430	01 26 23:59:55.246			0.21-2330.504	
895.250 9 9									
isfs3:/dev/ttyS1	3	100	1804820	2011 01 26 16:00:00.004	01 26 23:59:59.994			62.67-2334.070	
889.825 14 14									
isfs3:/dev/ttyS6	3	32768	18062	2011 01 26 16:00:03.144	01 26 23:59:58.299			0.63-2330.892	
894.098 7 106									
isfs4:/dev/ttyS2	4	20	30088	2011 01 26 16:00:00.189	01 26 23:59:59.753			1.04-2333.458	
891.704 20 20									
isfs4:/var/tmp/gps_pty0	4	30	60656	2011 01 26 16:00:00.497	01 26 23:59:59.752			2.11-2333.119	
890.881 51 73									
isfs4:/dev/ttyS5	4	50	30744	2011 01 26 16:00:00.379	01 26 23:59:59.972			1.07-2332.118	
891.174 29 30									
isfs4:/dev/ttyS8	4	80	5998	2011 01 26 16:00:04.099	01 26 23:59:59.640			0.21-2329.348	

1.979 20 20													
isfs3:/var/tmp/gps_pty0	3	30	57600	2011 01 26 16:00:00.501	01 26 23:59:59.730	2.00	0.029						
1.627 72 73													
isfs3:/dev/ttyS5	3	50	29422	2011 01 26 16:00:00.602	01 26 23:59:59.258	1.02	0.494						
1.466 25 30													
isfs3:/dev/ttyS8	3	80	5755	2011 01 26 16:00:03.430	01 26 23:59:55.246	0.20	4.041						
5.959 9 9													
isfs3:/dev/ttyS1	3	100	1728005	2011 01 26 16:00:00.004	01 26 23:59:59.994	60.00	0.000						
0.164 14 14													
isfs3:/dev/ttyS6	3	32768	17290	2011 01 26 16:00:03.144	01 26 23:59:58.299	0.60	0.001						
4.864 7 106													
isfs4:/dev/ttyS2	4	20	28809	2011 01 26 16:00:00.189	01 26 23:59:59.753	1.00	0.020						
2.763 20 20													
isfs4:/var/tmp/gps_pty0	4	30	58080	2011 01 26 16:00:00.497	01 26 23:59:59.752	2.02	0.067						
2.303 51 73													
isfs4:/dev/ttyS5	4	50	29438	2011 01 26 16:00:00.379	01 26 23:59:59.972	1.02	0.030						
2.823 29 30													
isfs4:/dev/ttyS8	4	80	5745	2011 01 26 16:00:04.099	01 26 23:59:59.640	0.20	4.989						
5.033 9 9													
isfs4:/dev/ttyS1	4	100	1727993	2011 01 26 16:00:00.014	01 26 23:59:59.987	60.00	0.000						
0.269 14 14													
isfs4:/dev/ttyS6	4	32768	17403	2011 01 26 16:00:00.547	01 26 23:59:59.591	0.60	0.003						
5.149 13 80													
isfs5:/dev/ttyS2	5	20	28802	2011 01 26 16:00:00.317	01 26 23:59:59.481	1.00	0.049						
1.952 19 19													
isfs5:/var/tmp/gps_pty0	5	30	58080	2011 01 26 16:00:00.486	01 26 23:59:59.700	2.02	0.132						
1.531 51 73													
isfs5:/dev/ttyS5	5	50	29547	2011 01 26 16:00:00.008	01 26 23:59:59.130	1.03	0.360						
1.591 27 30													
isfs5:/dev/ttyS1	5	100	1727995	2011 01 26 16:00:00.011	01 26 23:59:59.995	60.00	0.000						
0.153 14 14													
isfs5:/dev/ttyS6	5	32768	23061	2011 01 26 16:00:00.057	01 26 23:59:59.848	0.80	0.004						
3.022 22 80													
isfs6:/dev/ttyS2	6	20	28801	2011 01 26 16:00:00.794	01 26 23:59:59.165	1.00	0.019						
2.175 19 19													
isfs6:/var/tmp/gps_pty0	6	30	58080	2011 01 26 16:00:00.512	01 26 23:59:59.755	2.02	0.029						
1.625 51 73													
isfs6:/dev/ttyS4	6	40	29301	2011 01 26 16:00:00.442	01 26 23:59:59.043	1.02	0.018						
2.367 18 18													
isfs6:/dev/ttyS5	6	50	29505	2011 01 26 16:00:00.794	01 26 23:59:59.555	1.02	0.002						
2.223 29 30													
isfs6:/dev/ttyS8	6	80	5768	2011 01 26 16:00:01.303	01 26 23:59:58.299	0.20	4.381						
5.605 9 9													
isfs6:/dev/ttyS1	6	100	1727971	2011 01 26 16:00:00.004	01 26 23:59:59.985	60.00	0.000						
0.272 14 14													
isfs6:/dev/ttyS6	6	32768	23046	2011 01 26 16:00:00.322	01 26 23:59:59.868	0.80	0.001						
3.838 22 80													
isfs7:/dev/ttyS2	7	20	28801	2011 01 26 16:00:00.874	01 26 23:59:59.581	1.00	0.452						
1.548 19 19													
isfs7:/var/tmp/gps_pty0	7	30	58080	2011 01 26 16:00:00.513	01 26 23:59:59.724	2.02	0.023						
1.666 51 73													
isfs7:/dev/ttyS5	7	50	29555	2011 01 26 16:00:00.224	01 26 23:59:59.083	1.03	0.225						
1.716 29 30													
isfs7:/dev/ttyS1	7	100	1727986	2011 01 26 16:00:00.012	01 26 23:59:59.988	60.00	0.000						
0.157 14 14													
isfs7:/dev/ttyS6	7	32768	17292	2011 01 26 16:00:01.147	01 26 23:59:57.571	0.60	0.000						
4.963 7 112													

data_stats isfs_20110129_160000.dat.bz2

2013-01-02,10:42:50|NOTICE|parsing: /net/isf/isff/projects/PCAPS/ISFF/config/pcaps.xml

Exception: EOFException: isfs_20110129_160000.dat.bz2: open: EOF

sensor	dsm	sampid	nsamps	----- start -----	----- end -----	rate	minMaxDT
(sec) minMaxLen							
isfs1:/dev/ttyS2	1	20	29000	2011 01 29 16:00:00.073	01 29 23:59:59.629	1.01-1741.788	
1547.804 19 19							
isfs1:/var/tmp/gps_pty0	1	30	58475	2011 01 29 16:00:00.503	01 29 23:59:59.719	2.03-1743.099	
1548.802 51 73							
isfs1:/dev/ttyS4	1	40	29501	2011 01 29 16:00:00.473	01 29 23:59:59.487	1.02-1741.648	

[illegible]

isfs7:/dev/ttyS1	7	100	1739746	2011 01 29 16:00:00.007	01 29 23:59:59.998	60.41-1743.534
1547.602 14 14						
isfs7:/dev/ttyS6	7	32768	17405	2011 01 29 16:00:02.423	01 29 23:59:58.715	0.60-1740.449
1554.782 22 87						

```
data_stats $s/isfs_20110129_160000.dat.bz2
2013-01-02,10:55:26|NOTICE|parsing: /net/isf/isff/projects/PCAPS/ISFF/config/pcaps.xml
Exception: EOFException: /scr/tmp/maclean/isfs_20110129_160000.dat.bz2: open: EOF
```

sensor	dsm	sampid	nsamps	start	end	rate	minMaxDT(sec)
isfs1:/dev/ttyS2	1	20	28804	2011 01 29 16:00:00.073	01 29 23:59:59.629	1.00	0.577
1.403 19 19							
isfs1:/var/tmp/gps_pty0	1	30	58080	2011 01 29 16:00:00.503	01 29 23:59:59.719	2.02	0.106
1.111 51 73							
isfs1:/dev/ttyS4	1	40	29302	2011 01 29 16:00:00.473	01 29 23:59:59.487	1.02	0.873
1.087 18 18							
isfs1:/dev/ttyS5	1	50	29485	2011 01 29 16:00:00.033	01 29 23:59:59.150	1.02	0.603
1.348 29 30							
isfs1:/dev/ttyS1	1	100	1727990	2011 01 29 16:00:00.011	01 29 23:59:59.990	60.00	0.000
0.145 14 14							
isfs1:/dev/ttyS6	1	32768	17288	2011 01 29 16:00:03.399	01 29 23:59:59.859	0.60	0.000
4.197 7 123							
isfs2:/dev/ttyS2	2	20	28803	2011 01 29 16:00:00.451	01 29 23:59:59.251	1.00	0.020
2.555 20 20							
isfs2:/var/tmp/gps_pty0	2	30	57600	2011 01 29 16:00:00.520	01 29 23:59:59.721	2.00	0.132
2.021 72 73							
isfs2:/dev/ttyS5	2	50	29424	2011 01 29 16:00:00.833	01 29 23:59:59.512	1.02	0.029
2.303 29 30							
isfs2:/dev/ttyS1	2	100	1728021	2011 01 29 16:00:00.010	01 29 23:59:59.993	60.00	0.000
0.278 14 14							
isfs2:/dev/ttyS6	2	32768	17293	2011 01 29 16:00:01.412	01 29 23:59:59.279	0.60	0.005
4.471 21 79							
isfs3:/dev/ttyS2	3	20	28801	2011 01 29 16:00:00.393	01 29 23:59:59.236	1.00	0.568
1.413 20 20							
isfs3:/var/tmp/gps_pty0	3	30	57600	2011 01 29 16:00:00.525	01 29 23:59:59.715	2.00	0.059
1.448 72 73							
isfs3:/dev/ttyS5	3	50	29424	2011 01 29 16:00:00.176	01 29 23:59:59.515	1.02	0.116
1.843 29 30							
isfs3:/dev/ttyS8	3	80	5757	2011 01 29 16:00:03.156	01 29 23:59:56.543	0.20	4.746
5.265 9 9							
isfs3:/dev/ttyS1	3	100	1728005	2011 01 29 16:00:00.003	01 29 23:59:59.995	60.00	0.000
0.146 14 14							
isfs3:/dev/ttyS6	3	32768	17289	2011 01 29 16:00:00.915	01 29 23:59:58.465	0.60	0.005
3.229 7 106							
isfs4:/dev/ttyS2	4	20	28808	2011 01 29 16:00:00.931	01 29 23:59:59.669	1.00	0.020
3.039 20 20							
isfs4:/var/tmp/gps_pty0	4	30	58080	2011 01 29 16:00:00.512	01 29 23:59:59.739	2.02	0.022
2.280 51 73							
isfs4:/dev/ttyS5	4	50	29440	2011 01 29 16:00:00.615	01 29 23:59:59.469	1.02	0.029
2.211 29 30							
isfs4:/dev/ttyS8	4	80	5748	2011 01 29 16:00:00.624	01 29 23:59:55.437	0.20	4.197
5.804 9 9							
isfs4:/dev/ttyS1	4	100	1727993	2011 01 29 16:00:00.014	01 29 23:59:59.990	60.00	0.000
0.285 14 14							
isfs4:/dev/ttyS6	4	32768	17406	2011 01 29 16:00:03.872	01 29 23:59:59.529	0.60	0.003
4.496 13 82							
isfs5:/dev/ttyS2	5	20	28802	2011 01 29 16:00:00.397	01 29 23:59:59.554	1.00	0.617
1.383 19 19							
isfs5:/var/tmp/gps_pty0	5	30	58080	2011 01 29 16:00:00.508	01 29 23:59:59.704	2.02	0.138
1.184 51 73							
isfs5:/dev/ttyS5	5	50	29333	2011 01 29 16:00:00.740	01 29 23:59:59.526	1.02	0.146
1.824 28 29							
isfs5:/dev/ttyS1	5	100	1727994	2011 01 29 16:00:00.011	01 29 23:59:59.984	60.00	0.001
0.155 14 14							
isfs5:/dev/ttyS6	5	32768	23056	2011 01 29 16:00:01.708	01 29 23:59:58.034	0.80	0.001
4.276 22 80							
isfs6:/dev/ttyS2	6	20	28802	2011 01 29 16:00:00.089	01 29 23:59:59.448	1.00	0.365
1.635 19 19							

isfs6:/var/tmp/gps_pty0 1.574 51 73	6	30	58080	2011 01 29 16:00:00.518	01 29 23:59:59.698	2.02	0.129
isfs6:/dev/ttyS4 1.969 18 18	6	40	29301	2011 01 29 16:00:00.497	01 29 23:59:59.106	1.02	0.001
isfs6:/dev/ttyS5 1.796 29 30	6	50	29504	2011 01 29 16:00:00.109	01 29 23:59:59.117	1.02	0.154
isfs6:/dev/ttyS8 5.561 9 9	6	80	5767	2011 01 29 16:00:04.617	01 29 23:59:55.740	0.20	4.426
isfs6:/dev/ttyS1 0.165 14 14	6	100	1727972	2011 01 29 16:00:00.011	01 29 23:59:59.982	60.00	0.000
isfs6:/dev/ttyS6 4.236 22 80	6	32768	23043	2011 01 29 16:00:00.698	01 29 23:59:58.787	0.80	0.005
isfs7:/dev/ttyS2 2.144 19 19	7	20	28801	2011 01 29 16:00:00.321	01 29 23:59:59.024	1.00	0.006
isfs7:/var/tmp/gps_pty0 1.349 51 73	7	30	58080	2011 01 29 16:00:00.522	01 29 23:59:59.713	2.02	0.015
isfs7:/dev/ttyS5 2.034 29 30	7	50	29556	2011 01 29 16:00:00.533	01 29 23:59:59.975	1.03	0.029
isfs7:/dev/ttyS1 0.195 14 14	7	100	1727988	2011 01 29 16:00:00.007	01 29 23:59:59.998	60.00	0.000
isfs7:/dev/ttyS6 5.747 22 87	7	32768	17288	2011 01 29 16:00:02.423	01 29 23:59:58.715	0.60	0.000