

From: "Mason, Glenn M." <Glenn.Mason@jhuapl.edu>
Subject: **Re: w/ attached info. Fwd: STA_L1_SIT repeatable records**
Date: April 9, 2012 4:41:20 PM EDT
To: Peter Schroeder <peters@ssl.berkeley.edu>
Cc: "Mason, Glenn M." <Glenn.Mason@jhuapl.edu>, Andrew Davis <ad@srl.caltech.edu>, Richard Leske <ral@srl.caltech.edu>, Richard Mewaldt <rmewaldt@srl.caltech.edu>
▶ 1 Attachment, 72.7 KB

Hi Peter,
this is strange indeed. I looked at the 1-min files we post at the Caltech site and found the same stuff on day 178 that you are describing from the CDF stuff.

Looking a little more closely, the day has the right number of records. But the time tags have second values that jump around, which is not usually the case. Usually we get data with seconds (of minute) values that are the same or maybe change by one unit per day. But on day 178 the seconds values jump around as you can see. The Helium file does the same thing as expected. If you look at the adjacent days, they are both OK for both H and He, ie every data record has the same seconds of day value.

The software I have here puts out one record per packet, and so it not looking at the times. So that's why you have multiple records with the "same" time. What seems to be the case is that in fact they are 1-min apart (which is why the data changes) but the time tag does not move forward. This is also why the data changes between records with the "same" time tag.

I looked at the rest of 2011 data for this (see below). What is listed is each data file, and then for each day the number of cases the second tic had certain value. You can see on day 1 it went from 28 to 29 (total number of cases = $295 + 1145 = 1440$). On day 2 all the cases were second 28. Etc. Looking at day 178, however, there is a much different pattern (see **** below), with lots of different 'sec' values. That day stands out as anomalous in all the 2011 data.

So something went "wrong" with the time tags. The attached jpg shows the "sec" number of each minute of the day. It starts out at 16 and ends at 16, but you can see the period when things change. The pattern looks fairly regular, and starts around minute 830 and ends around minute 1242 (ie ~13:50 to ~20:40)

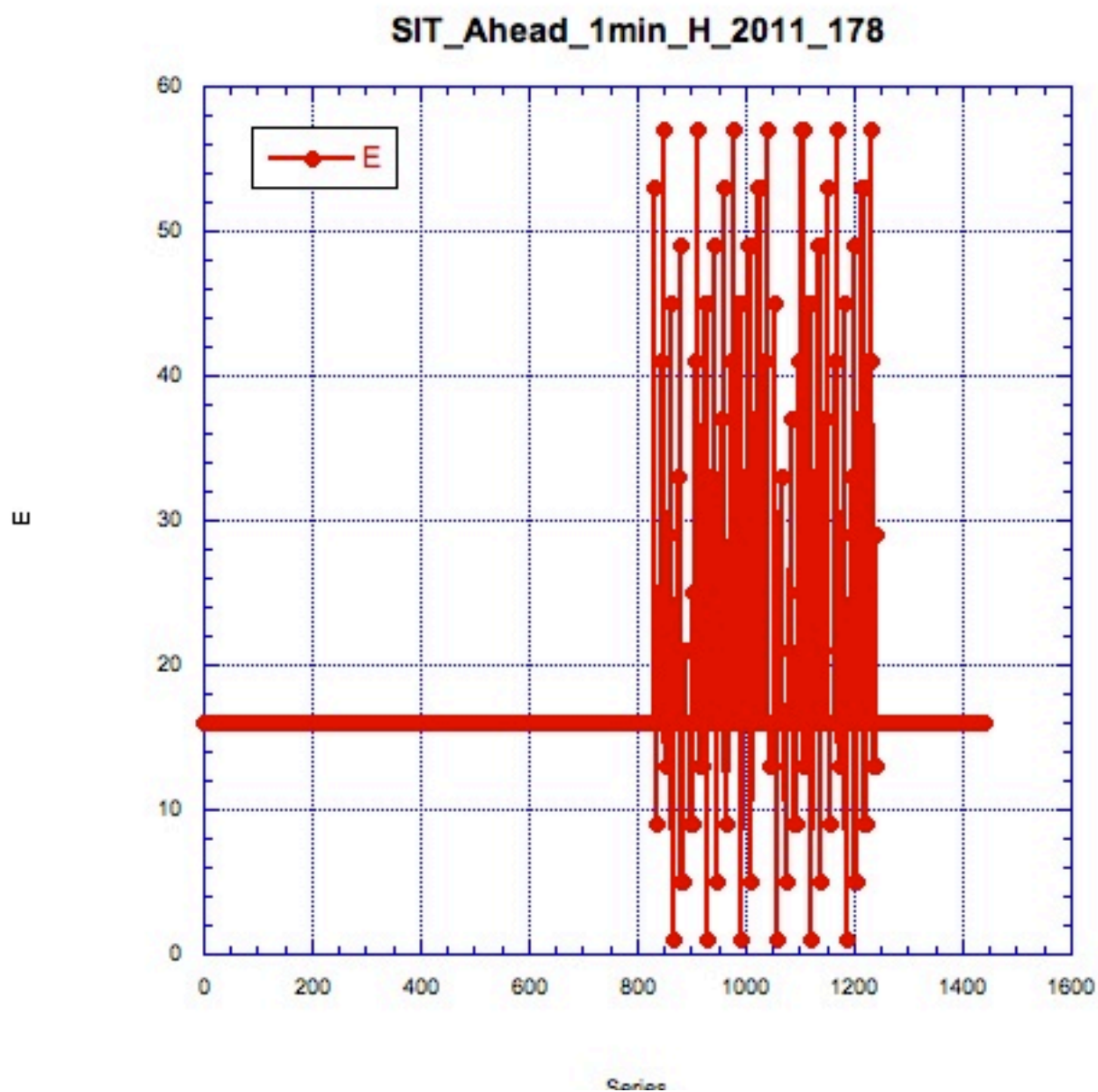
Needless to say I don't know what is causing this. I looked at the Caltech 1 min LET-A data for this period (H_ahead_2011_178_level1_10.txt) and saw similar (but not identical) behavior.

Summarizing,

- 1) for the 2011 data this behavior is seen only during part of day 178
- 2) the time data returned for each packet is the problem (but why?)
- 3) Caltech LET seems to have a similar problem

On balance, it looks like something in the S/C time data and/or its handling, and not the processing software at UCB or APL.

Best regards, Glenn



data file	DOY	sec	# cases
SIT_Ahead_1min_H_2011_001.txt	1	28	295.000
SIT_Ahead_1min_H_2011_001.txt	1	29	1145.00
SIT_Ahead_1min_H_2011_002.txt	2	28	1440.00
SIT_Ahead_1min_H_2011_003.txt	3	28	1440.00
SIT_Ahead_1min_H_2011_004.txt	4	28	1440.00
SIT_Ahead_1min_H_2011_005.txt	5	28	1440.00
SIT_Ahead_1min_H_2011_006.txt	6	28	1440.00
SIT_Ahead_1min_H_2011_007.txt	7	28	1440.00
SIT_Ahead_1min_H_2011_008.txt	8	28	1440.00
SIT_Ahead_1min_H_2011_009.txt	9	28	1440.00
SIT_Ahead_1min_H_2011_010.txt	10	28	1440.00
SIT_Ahead_1min_H_2011_011.txt	11	28	1440.00
SIT_Ahead_1min_H_2011_012.txt	12	28	1440.00
SIT_Ahead_1min_H_2011_013.txt	13	28	1440.00
SIT_Ahead_1min_H_2011_014.txt	14	28	1440.00
SIT_Ahead_1min_H_2011_015.txt	15	28	1440.00
SIT_Ahead_1min_H_2011_016.txt	16	28	1440.00
SIT_Ahead_1min_H_2011_017.txt	17	27	910.000
SIT_Ahead_1min_H_2011_017.txt	17	28	530.000
SIT_Ahead_1min_H_2011_018.txt	18	27	1440.00
SIT_Ahead_1min_H_2011_019.txt	19	27	1440.00
SIT_Ahead_1min_H_2011_020.txt	20	27	1440.00
SIT_Ahead_1min_H_2011_021.txt	21	27	1440.00
SIT_Ahead_1min_H_2011_022.txt	22	27	1440.00
SIT_Ahead_1min_H_2011_023.txt	23	27	1440.00
SIT_Ahead_1min_H_2011_024.txt	24	27	1440.00
SIT_Ahead_1min_H_2011_025.txt	25	27	1440.00
SIT_Ahead_1min_H_2011_026.txt	26	27	1440.00
SIT_Ahead_1min_H_2011_027.txt	27	27	1440.00
SIT_Ahead_1min_H_2011_028.txt	28	27	1440.00
SIT_Ahead_1min_H_2011_029.txt	29	27	1440.00
SIT_Ahead_1min_H_2011_030.txt	30	27	1440.00
SIT_Ahead_1min_H_2011_031.txt	31	27	1440.00
SIT_Ahead_1min_H_2011_032.txt	32	27	1440.00
SIT_Ahead_1min_H_2011_033.txt	33	27	1440.00
SIT_Ahead_1min_H_2011_034.txt	34	27	1440.00
SIT_Ahead_1min_H_2011_035.txt	35	26	746.000
SIT_Ahead_1min_H_2011_035.txt	35	27	694.000
SIT_Ahead_1min_H_2011_036.txt	36	26	1440.00
SIT_Ahead_1min_H_2011_037.txt	37	26	1440.00
SIT_Ahead_1min_H_2011_038.txt	38	26	1440.00
SIT_Ahead_1min_H_2011_039.txt	39	26	1319.00
SIT_Ahead_1min_H_2011_040.txt	40	26	1440.00

SIT_Ahead_1min_H_2011_041.txt	41	26	1436.00
SIT_Ahead_1min_H_2011_042.txt	42	25	470.000
SIT_Ahead_1min_H_2011_042.txt	42	26	965.000
SIT_Ahead_1min_H_2011_043.txt	43	25	1440.00
SIT_Ahead_1min_H_2011_044.txt	44	25	1440.00
SIT_Ahead_1min_H_2011_045.txt	45	25	1440.00
SIT_Ahead_1min_H_2011_046.txt	46	25	1363.00
SIT_Ahead_1min_H_2011_047.txt	47	25	1440.00
SIT_Ahead_1min_H_2011_048.txt	48	25	956.000
SIT_Ahead_1min_H_2011_049.txt	49	24	1061.00
SIT_Ahead_1min_H_2011_049.txt	49	25	379.000
SIT_Ahead_1min_H_2011_050.txt	50	24	1440.00
SIT_Ahead_1min_H_2011_051.txt	51	24	1440.00
SIT_Ahead_1min_H_2011_052.txt	52	24	1440.00
SIT_Ahead_1min_H_2011_053.txt	53	24	1440.00
SIT_Ahead_1min_H_2011_054.txt	54	24	1440.00
SIT_Ahead_1min_H_2011_055.txt	55	24	1440.00
SIT_Ahead_1min_H_2011_056.txt	56	24	1440.00
SIT_Ahead_1min_H_2011_057.txt	57	24	1417.00
SIT_Ahead_1min_H_2011_058.txt	58	24	1410.00
SIT_Ahead_1min_H_2011_059.txt	59	24	1440.00
SIT_Ahead_1min_H_2011_060.txt	60	24	1440.00
SIT_Ahead_1min_H_2011_061.txt	61	24	1440.00
SIT_Ahead_1min_H_2011_062.txt	62	24	1440.00
SIT_Ahead_1min_H_2011_063.txt	63	23	614.000
SIT_Ahead_1min_H_2011_063.txt	63	24	826.000
SIT_Ahead_1min_H_2011_064.txt	64	23	1440.00
SIT_Ahead_1min_H_2011_065.txt	65	23	126.000
SIT_Ahead_1min_H_2011_065.txt	65	24	1314.00
SIT_Ahead_1min_H_2011_066.txt	66	24	1440.00
SIT_Ahead_1min_H_2011_067.txt	67	24	1440.00
SIT_Ahead_1min_H_2011_068.txt	68	23	966.000
SIT_Ahead_1min_H_2011_068.txt	68	24	474.000
SIT_Ahead_1min_H_2011_069.txt	69	23	1388.00
SIT_Ahead_1min_H_2011_070.txt	70	23	1439.00
SIT_Ahead_1min_H_2011_071.txt	71	23	1440.00
SIT_Ahead_1min_H_2011_072.txt	72	23	1440.00
SIT_Ahead_1min_H_2011_073.txt	73	23	1440.00
SIT_Ahead_1min_H_2011_074.txt	74	23	1439.00
SIT_Ahead_1min_H_2011_075.txt	75	23	1440.00
SIT_Ahead_1min_H_2011_076.txt	76	23	1440.00
SIT_Ahead_1min_H_2011_077.txt	77	23	1440.00
SIT_Ahead_1min_H_2011_078.txt	78	23	1440.00
SIT_Ahead_1min_H_2011_079.txt	79	23	1438.00
SIT_Ahead_1min_H_2011_080.txt	80	23	1440.00
SIT_Ahead_1min_H_2011_081.txt	81	23	1440.00

SIT_Ahead_1min_H_2011_082.txt	82	23	1440.00
SIT_Ahead_1min_H_2011_083.txt	83	22	50.0000
SIT_Ahead_1min_H_2011_083.txt	83	23	1390.00
SIT_Ahead_1min_H_2011_084.txt	84	22	1440.00
SIT_Ahead_1min_H_2011_085.txt	85	22	1440.00
SIT_Ahead_1min_H_2011_086.txt	86	22	1440.00
SIT_Ahead_1min_H_2011_087.txt	87	22	1440.00
SIT_Ahead_1min_H_2011_088.txt	88	22	1440.00
SIT_Ahead_1min_H_2011_089.txt	89	22	1440.00
SIT_Ahead_1min_H_2011_090.txt	90	22	1440.00
SIT_Ahead_1min_H_2011_091.txt	91	21	967.000
SIT_Ahead_1min_H_2011_091.txt	91	22	473.000
SIT_Ahead_1min_H_2011_092.txt	92	21	1440.00
SIT_Ahead_1min_H_2011_093.txt	93	21	1440.00
SIT_Ahead_1min_H_2011_094.txt	94	21	1440.00
SIT_Ahead_1min_H_2011_095.txt	95	21	1440.00
SIT_Ahead_1min_H_2011_096.txt	96	21	1440.00
SIT_Ahead_1min_H_2011_097.txt	97	21	1440.00
SIT_Ahead_1min_H_2011_098.txt	98	21	1440.00
SIT_Ahead_1min_H_2011_099.txt	99	20	1149.00
SIT_Ahead_1min_H_2011_099.txt	99	21	258.000
SIT_Ahead_1min_H_2011_100.txt	100	20	1438.00
SIT_Ahead_1min_H_2011_101.txt	101	20	1440.00
SIT_Ahead_1min_H_2011_102.txt	102	20	1440.00
SIT_Ahead_1min_H_2011_103.txt	103	20	1440.00
SIT_Ahead_1min_H_2011_104.txt	104	20	1440.00
SIT_Ahead_1min_H_2011_105.txt	105	20	1440.00
SIT_Ahead_1min_H_2011_106.txt	106	20	1440.00
SIT_Ahead_1min_H_2011_107.txt	107	20	1440.00
SIT_Ahead_1min_H_2011_108.txt	108	20	1440.00
SIT_Ahead_1min_H_2011_109.txt	109	20	1440.00
SIT_Ahead_1min_H_2011_110.txt	110	20	1440.00
SIT_Ahead_1min_H_2011_111.txt	111	20	1440.00
SIT_Ahead_1min_H_2011_112.txt	112	20	1440.00
SIT_Ahead_1min_H_2011_113.txt	113	20	1440.00
SIT_Ahead_1min_H_2011_114.txt	114	20	1440.00
SIT_Ahead_1min_H_2011_115.txt	115	20	1440.00
SIT_Ahead_1min_H_2011_116.txt	116	20	1440.00
SIT_Ahead_1min_H_2011_117.txt	117	20	1440.00
SIT_Ahead_1min_H_2011_118.txt	118	20	1440.00
SIT_Ahead_1min_H_2011_119.txt	119	19	455.000
SIT_Ahead_1min_H_2011_119.txt	119	20	985.000
SIT_Ahead_1min_H_2011_120.txt	120	19	1433.00
SIT_Ahead_1min_H_2011_121.txt	121	19	1440.00
SIT_Ahead_1min_H_2011_122.txt	122	19	1440.00
SIT_Ahead_1min_H_2011_123.txt	123	19	1440.00

SIT_Ahead_1min_H_2011_124.txt	124	19	1440.00
SIT_Ahead_1min_H_2011_125.txt	125	19	1440.00
SIT_Ahead_1min_H_2011_126.txt	126	19	1440.00
SIT_Ahead_1min_H_2011_127.txt	127	19	1440.00
SIT_Ahead_1min_H_2011_128.txt	128	19	1440.00
SIT_Ahead_1min_H_2011_129.txt	129	18	26.0000
SIT_Ahead_1min_H_2011_129.txt	129	19	1414.00
SIT_Ahead_1min_H_2011_130.txt	130	18	1440.00
SIT_Ahead_1min_H_2011_131.txt	131	18	1440.00
SIT_Ahead_1min_H_2011_132.txt	132	18	1440.00
SIT_Ahead_1min_H_2011_133.txt	133	18	1440.00
SIT_Ahead_1min_H_2011_134.txt	134	18	1440.00
SIT_Ahead_1min_H_2011_135.txt	135	18	1440.00
SIT_Ahead_1min_H_2011_136.txt	136	18	1440.00
SIT_Ahead_1min_H_2011_137.txt	137	17	1338.00
SIT_Ahead_1min_H_2011_137.txt	137	18	102.000
SIT_Ahead_1min_H_2011_138.txt	138	17	1440.00
SIT_Ahead_1min_H_2011_139.txt	139	17	1440.00
SIT_Ahead_1min_H_2011_140.txt	140	17	1440.00
SIT_Ahead_1min_H_2011_141.txt	141	17	1440.00
SIT_Ahead_1min_H_2011_142.txt	142	17	1440.00
SIT_Ahead_1min_H_2011_143.txt	143	17	1440.00
SIT_Ahead_1min_H_2011_144.txt	144	17	1440.00
SIT_Ahead_1min_H_2011_145.txt	145	17	1440.00
SIT_Ahead_1min_H_2011_146.txt	146	16	396.000
SIT_Ahead_1min_H_2011_146.txt	146	17	1044.00
SIT_Ahead_1min_H_2011_147.txt	147	16	1440.00
SIT_Ahead_1min_H_2011_148.txt	148	16	1440.00
SIT_Ahead_1min_H_2011_149.txt	149	16	1440.00
SIT_Ahead_1min_H_2011_150.txt	150	16	1440.00
SIT_Ahead_1min_H_2011_151.txt	151	16	1440.00
SIT_Ahead_1min_H_2011_152.txt	152	16	1440.00
SIT_Ahead_1min_H_2011_153.txt	153	16	1440.00
SIT_Ahead_1min_H_2011_154.txt	154	16	1440.00
SIT_Ahead_1min_H_2011_155.txt	155	16	1440.00
SIT_Ahead_1min_H_2011_156.txt	156	16	1440.00
SIT_Ahead_1min_H_2011_157.txt	157	16	1440.00
SIT_Ahead_1min_H_2011_158.txt	158	16	1438.00
SIT_Ahead_1min_H_2011_159.txt	159	16	1440.00
SIT_Ahead_1min_H_2011_160.txt	160	16	1440.00
SIT_Ahead_1min_H_2011_161.txt	161	16	1440.00
SIT_Ahead_1min_H_2011_162.txt	162	16	1440.00
SIT_Ahead_1min_H_2011_163.txt	163	16	1440.00
SIT_Ahead_1min_H_2011_164.txt	164	16	1440.00
SIT_Ahead_1min_H_2011_165.txt	165	16	1440.00
SIT_Ahead_1min_H_2011_166.txt	166	16	1440.00

SIT_Ahead_1min_H_2011_167.txt	167	15	1412.00
SIT_Ahead_1min_H_2011_167.txt	167	16	28.0000
SIT_Ahead_1min_H_2011_168.txt	168	15	1206.00
SIT_Ahead_1min_H_2011_168.txt	168	17	233.000
SIT_Ahead_1min_H_2011_169.txt	169	17	1440.00
SIT_Ahead_1min_H_2011_170.txt	170	17	1440.00
SIT_Ahead_1min_H_2011_171.txt	171	17	1440.00
SIT_Ahead_1min_H_2011_172.txt	172	17	1440.00
SIT_Ahead_1min_H_2011_173.txt	173	17	1440.00
SIT_Ahead_1min_H_2011_174.txt	174	16	224.000
SIT_Ahead_1min_H_2011_174.txt	174	17	1216.00
SIT_Ahead_1min_H_2011_175.txt	175	16	1440.00
SIT_Ahead_1min_H_2011_176.txt	176	16	1440.00
SIT_Ahead_1min_H_2011_177.txt	177	16	1440.00

SIT_Ahead_1min_H_2011_178.txt	178	1	12.0000
SIT_Ahead_1min_H_2011_178.txt	178	5	14.0000
SIT_Ahead_1min_H_2011_178.txt	178	9	17.0000
SIT_Ahead_1min_H_2011_178.txt	178	13	19.0000
SIT_Ahead_1min_H_2011_178.txt	178	16	1234.00
SIT_Ahead_1min_H_2011_178.txt	178	17	20.0000
SIT_Ahead_1min_H_2011_178.txt	178	21	11.0000
SIT_Ahead_1min_H_2011_178.txt	178	25	9.00000
SIT_Ahead_1min_H_2011_178.txt	178	29	14.0000
SIT_Ahead_1min_H_2011_178.txt	178	33	13.0000
SIT_Ahead_1min_H_2011_178.txt	178	37	9.00000
SIT_Ahead_1min_H_2011_178.txt	178	41	15.0000
SIT_Ahead_1min_H_2011_178.txt	178	45	14.0000
SIT_Ahead_1min_H_2011_178.txt	178	49	15.0000
SIT_Ahead_1min_H_2011_178.txt	178	53	10.0000
SIT_Ahead_1min_H_2011_178.txt	178	57	14.0000

SIT_Ahead_1min_H_2011_179.txt	179	16	1440.00
SIT_Ahead_1min_H_2011_180.txt	180	16	1440.00
SIT_Ahead_1min_H_2011_181.txt	181	16	1440.00
SIT_Ahead_1min_H_2011_182.txt	182	15	321.000
SIT_Ahead_1min_H_2011_182.txt	182	16	1119.00
SIT_Ahead_1min_H_2011_183.txt	183	15	1405.00
SIT_Ahead_1min_H_2011_184.txt	184	15	1440.00
SIT_Ahead_1min_H_2011_185.txt	185	15	1440.00
SIT_Ahead_1min_H_2011_186.txt	186	15	1440.00
SIT_Ahead_1min_H_2011_187.txt	187	15	1440.00
SIT_Ahead_1min_H_2011_188.txt	188	15	1440.00
SIT_Ahead_1min_H_2011_189.txt	189	15	1438.00
SIT_Ahead_1min_H_2011_190.txt	190	15	1440.00
SIT_Ahead_1min_H_2011_191.txt	191	15	861.000

SIT_Ahead_1min_H_2011_192.txt	192	15	1010.00
SIT_Ahead_1min_H_2011_193.txt	193	15	1440.00
SIT_Ahead_1min_H_2011_194.txt	194	15	1440.00
SIT_Ahead_1min_H_2011_195.txt	195	15	1440.00
SIT_Ahead_1min_H_2011_196.txt	196	15	1297.00
SIT_Ahead_1min_H_2011_197.txt	197	15	1309.00
SIT_Ahead_1min_H_2011_198.txt	198	15	1440.00
SIT_Ahead_1min_H_2011_199.txt	199	15	1440.00
SIT_Ahead_1min_H_2011_200.txt	200	15	1440.00
SIT_Ahead_1min_H_2011_201.txt	201	15	1440.00
SIT_Ahead_1min_H_2011_202.txt	202	14	1065.00
SIT_Ahead_1min_H_2011_202.txt	202	15	375.000
SIT_Ahead_1min_H_2011_203.txt	203	14	1440.00
SIT_Ahead_1min_H_2011_204.txt	204	14	1440.00
SIT_Ahead_1min_H_2011_205.txt	205	14	1440.00
SIT_Ahead_1min_H_2011_206.txt	206	14	1440.00
SIT_Ahead_1min_H_2011_207.txt	207	14	1440.00
SIT_Ahead_1min_H_2011_208.txt	208	14	1440.00
SIT_Ahead_1min_H_2011_209.txt	209	14	1440.00
SIT_Ahead_1min_H_2011_210.txt	210	14	1440.00
SIT_Ahead_1min_H_2011_211.txt	211	14	1440.00
SIT_Ahead_1min_H_2011_212.txt	212	14	1440.00
SIT_Ahead_1min_H_2011_213.txt	213	13	998.000
SIT_Ahead_1min_H_2011_213.txt	213	14	442.000
SIT_Ahead_1min_H_2011_214.txt	214	13	1440.00
SIT_Ahead_1min_H_2011_215.txt	215	13	1440.00
SIT_Ahead_1min_H_2011_216.txt	216	13	1440.00
SIT_Ahead_1min_H_2011_217.txt	217	13	1440.00
SIT_Ahead_1min_H_2011_218.txt	218	13	1440.00
SIT_Ahead_1min_H_2011_219.txt	219	13	1440.00
SIT_Ahead_1min_H_2011_220.txt	220	12	1178.00
SIT_Ahead_1min_H_2011_220.txt	220	13	262.000
SIT_Ahead_1min_H_2011_221.txt	221	12	1440.00
SIT_Ahead_1min_H_2011_222.txt	222	12	1437.00
SIT_Ahead_1min_H_2011_223.txt	223	12	1190.00
SIT_Ahead_1min_H_2011_224.txt	224	12	1322.00
SIT_Ahead_1min_H_2011_225.txt	225	12	1440.00
SIT_Ahead_1min_H_2011_226.txt	226	12	1440.00
SIT_Ahead_1min_H_2011_227.txt	227	12	1440.00
SIT_Ahead_1min_H_2011_228.txt	228	11	1020.00
SIT_Ahead_1min_H_2011_228.txt	228	12	420.000
SIT_Ahead_1min_H_2011_229.txt	229	11	1440.00
SIT_Ahead_1min_H_2011_230.txt	230	11	1440.00
SIT_Ahead_1min_H_2011_231.txt	231	11	1440.00
SIT_Ahead_1min_H_2011_232.txt	232	11	1440.00
SIT_Ahead_1min_H_2011_233.txt	233	11	1440.00

SIT_Ahead_1min_H_2011_234.txt	234	11	1440.00
SIT_Ahead_1min_H_2011_235.txt	235	11	1428.00
SIT_Ahead_1min_H_2011_236.txt	236	11	1440.00
SIT_Ahead_1min_H_2011_237.txt	237	11	1081.00
SIT_Ahead_1min_H_2011_238.txt	238	11	1203.00
SIT_Ahead_1min_H_2011_239.txt	239	11	1440.00
SIT_Ahead_1min_H_2011_240.txt	240	11	1440.00
SIT_Ahead_1min_H_2011_241.txt	241	11	1440.00
SIT_Ahead_1min_H_2011_242.txt	242	11	1440.00
SIT_Ahead_1min_H_2011_243.txt	243	11	1440.00
SIT_Ahead_1min_H_2011_244.txt	244	11	1440.00
SIT_Ahead_1min_H_2011_245.txt	245	11	1440.00
SIT_Ahead_1min_H_2011_246.txt	246	11	1440.00
SIT_Ahead_1min_H_2011_247.txt	247	10	1345.00
SIT_Ahead_1min_H_2011_247.txt	247	11	77.0000
SIT_Ahead_1min_H_2011_248.txt	248	10	1440.00
SIT_Ahead_1min_H_2011_249.txt	249	10	1440.00
SIT_Ahead_1min_H_2011_250.txt	250	10	1440.00
SIT_Ahead_1min_H_2011_251.txt	251	10	1440.00
SIT_Ahead_1min_H_2011_252.txt	252	10	1440.00
SIT_Ahead_1min_H_2011_253.txt	253	10	1440.00
SIT_Ahead_1min_H_2011_254.txt	254	10	1440.00
SIT_Ahead_1min_H_2011_255.txt	255	9	256.000
SIT_Ahead_1min_H_2011_255.txt	255	10	1184.00
SIT_Ahead_1min_H_2011_256.txt	256	9	1439.00
SIT_Ahead_1min_H_2011_257.txt	257	9	1430.00
SIT_Ahead_1min_H_2011_258.txt	258	9	1440.00
SIT_Ahead_1min_H_2011_259.txt	259	9	1440.00
SIT_Ahead_1min_H_2011_260.txt	260	9	1440.00
SIT_Ahead_1min_H_2011_261.txt	261	9	1440.00
SIT_Ahead_1min_H_2011_262.txt	262	9	941.000
SIT_Ahead_1min_H_2011_264.txt	264	17	623.000
SIT_Ahead_1min_H_2011_265.txt	265	16	342.000
SIT_Ahead_1min_H_2011_265.txt	265	17	1098.00
SIT_Ahead_1min_H_2011_266.txt	266	16	1440.00
SIT_Ahead_1min_H_2011_267.txt	267	16	1440.00
SIT_Ahead_1min_H_2011_268.txt	268	16	1440.00
SIT_Ahead_1min_H_2011_269.txt	269	16	1440.00
SIT_Ahead_1min_H_2011_270.txt	270	16	1387.00
SIT_Ahead_1min_H_2011_271.txt	271	16	1440.00
SIT_Ahead_1min_H_2011_272.txt	272	16	1440.00
SIT_Ahead_1min_H_2011_273.txt	273	16	1438.00
SIT_Ahead_1min_H_2011_274.txt	274	16	1440.00
SIT_Ahead_1min_H_2011_275.txt	275	16	1440.00
SIT_Ahead_1min_H_2011_276.txt	276	16	1440.00
SIT_Ahead_1min_H_2011_277.txt	277	15	1384.00

SIT_Ahead_1min_H_2011_277.txt	277	16	56.0000
SIT_Ahead_1min_H_2011_278.txt	278	15	1440.00
SIT_Ahead_1min_H_2011_279.txt	279	15	1440.00
SIT_Ahead_1min_H_2011_280.txt	280	15	1440.00
SIT_Ahead_1min_H_2011_281.txt	281	15	1440.00
SIT_Ahead_1min_H_2011_282.txt	282	15	1440.00
SIT_Ahead_1min_H_2011_283.txt	283	15	1440.00
SIT_Ahead_1min_H_2011_284.txt	284	15	1440.00
SIT_Ahead_1min_H_2011_285.txt	285	15	1440.00
SIT_Ahead_1min_H_2011_286.txt	286	15	1440.00
SIT_Ahead_1min_H_2011_287.txt	287	15	1440.00
SIT_Ahead_1min_H_2011_288.txt	288	15	1439.00
SIT_Ahead_1min_H_2011_289.txt	289	15	1440.00
SIT_Ahead_1min_H_2011_290.txt	290	15	1440.00
SIT_Ahead_1min_H_2011_291.txt	291	15	1440.00
SIT_Ahead_1min_H_2011_292.txt	292	15	1310.00
SIT_Ahead_1min_H_2011_293.txt	293	14	342.000
SIT_Ahead_1min_H_2011_293.txt	293	15	1098.00
SIT_Ahead_1min_H_2011_294.txt	294	14	1440.00
SIT_Ahead_1min_H_2011_295.txt	295	14	1440.00
SIT_Ahead_1min_H_2011_296.txt	296	14	1440.00
SIT_Ahead_1min_H_2011_297.txt	297	14	1440.00
SIT_Ahead_1min_H_2011_298.txt	298	14	1440.00
SIT_Ahead_1min_H_2011_299.txt	299	14	1440.00
SIT_Ahead_1min_H_2011_300.txt	300	13	223.000
SIT_Ahead_1min_H_2011_300.txt	300	14	1215.00
SIT_Ahead_1min_H_2011_301.txt	301	13	1440.00
SIT_Ahead_1min_H_2011_302.txt	302	13	1440.00
SIT_Ahead_1min_H_2011_303.txt	303	13	1440.00
SIT_Ahead_1min_H_2011_304.txt	304	13	1440.00
SIT_Ahead_1min_H_2011_305.txt	305	13	1440.00
SIT_Ahead_1min_H_2011_306.txt	306	13	1439.00
SIT_Ahead_1min_H_2011_307.txt	307	13	1440.00
SIT_Ahead_1min_H_2011_308.txt	308	12	4.00000
SIT_Ahead_1min_H_2011_308.txt	308	13	1436.00
SIT_Ahead_1min_H_2011_309.txt	309	12	1440.00
SIT_Ahead_1min_H_2011_310.txt	310	12	1440.00
SIT_Ahead_1min_H_2011_311.txt	311	12	1440.00
SIT_Ahead_1min_H_2011_312.txt	312	12	1440.00
SIT_Ahead_1min_H_2011_313.txt	313	12	1440.00
SIT_Ahead_1min_H_2011_314.txt	314	12	1440.00
SIT_Ahead_1min_H_2011_315.txt	315	12	1440.00
SIT_Ahead_1min_H_2011_316.txt	316	12	1440.00
SIT_Ahead_1min_H_2011_317.txt	317	12	1430.00
SIT_Ahead_1min_H_2011_318.txt	318	12	1440.00
SIT_Ahead_1min_H_2011_319.txt	319	12	1440.00

SIT_Ahead_1min_H_2011_320.txt	320	12	1440.00
SIT_Ahead_1min_H_2011_321.txt	321	12	1440.00
SIT_Ahead_1min_H_2011_322.txt	322	12	1440.00
SIT_Ahead_1min_H_2011_323.txt	323	12	1440.00
SIT_Ahead_1min_H_2011_324.txt	324	12	1440.00
SIT_Ahead_1min_H_2011_325.txt	325	12	1440.00
SIT_Ahead_1min_H_2011_326.txt	326	12	1440.00
SIT_Ahead_1min_H_2011_327.txt	327	12	1440.00
SIT_Ahead_1min_H_2011_328.txt	328	12	1276.00
SIT_Ahead_1min_H_2011_329.txt	329	12	1440.00
SIT_Ahead_1min_H_2011_330.txt	330	11	1158.00
SIT_Ahead_1min_H_2011_330.txt	330	12	282.000
SIT_Ahead_1min_H_2011_331.txt	331	11	1440.00
SIT_Ahead_1min_H_2011_332.txt	332	11	1440.00
SIT_Ahead_1min_H_2011_333.txt	333	11	1440.00
SIT_Ahead_1min_H_2011_334.txt	334	11	1440.00
SIT_Ahead_1min_H_2011_335.txt	335	11	1440.00
SIT_Ahead_1min_H_2011_336.txt	336	11	1440.00
SIT_Ahead_1min_H_2011_337.txt	337	11	1440.00
SIT_Ahead_1min_H_2011_338.txt	338	11	1440.00
SIT_Ahead_1min_H_2011_339.txt	339	10	790.000
SIT_Ahead_1min_H_2011_339.txt	339	11	650.000
SIT_Ahead_1min_H_2011_340.txt	340	10	1440.00
SIT_Ahead_1min_H_2011_341.txt	341	10	1440.00
SIT_Ahead_1min_H_2011_342.txt	342	10	1440.00
SIT_Ahead_1min_H_2011_343.txt	343	10	1440.00
SIT_Ahead_1min_H_2011_344.txt	344	10	1440.00
SIT_Ahead_1min_H_2011_345.txt	345	10	1440.00
SIT_Ahead_1min_H_2011_346.txt	346	10	1440.00
SIT_Ahead_1min_H_2011_347.txt	347	9	516.000
SIT_Ahead_1min_H_2011_347.txt	347	10	924.000
SIT_Ahead_1min_H_2011_348.txt	348	9	1440.00
SIT_Ahead_1min_H_2011_349.txt	349	9	1440.00
SIT_Ahead_1min_H_2011_350.txt	350	9	1440.00
SIT_Ahead_1min_H_2011_351.txt	351	9	1440.00
SIT_Ahead_1min_H_2011_352.txt	352	9	1440.00
SIT_Ahead_1min_H_2011_353.txt	353	9	1440.00
SIT_Ahead_1min_H_2011_354.txt	354	9	1440.00
SIT_Ahead_1min_H_2011_355.txt	355	9	1440.00
SIT_Ahead_1min_H_2011_356.txt	356	9	1440.00
SIT_Ahead_1min_H_2011_357.txt	357	9	1440.00
SIT_Ahead_1min_H_2011_358.txt	358	9	1440.00
SIT_Ahead_1min_H_2011_359.txt	359	9	1366.00
SIT_Ahead_1min_H_2011_360.txt	360	9	1440.00
SIT_Ahead_1min_H_2011_361.txt	361	9	1440.00
SIT_Ahead_1min_H_2011_362.txt	362	9	1440.00

SIT_Ahead_1min_H_2011_363.txt	363	9	1440.00
SIT_Ahead_1min_H_2011_364.txt	364	9	1440.00
SIT_Ahead_1min_H_2011_365.txt	365	9	1440.00

On Apr 9, 2012, at 2:32 PM, Peter Schroeder wrote:

Hi Glenn,

Tami at CDAWeb notified of a problem with at least one SIT data file with two or more data points with the same times, but with different data.

I tried reprocessing the file that they found with the problem (STA_L1_SIT_20110627_V02.cdf) to see if the problem would disappear. It did not. So now I'm trying to figure out why this is happening. I've taken a look into your part of the SIT processing code. It appears you just take the time from the packet header without any modification. If that's true, then apparently we are getting more than one SIT packet with the same times.

Could you take a look at the SIT data around 16:14 on 2011-06-27 for STA and let me know if you see anything odd or, really, anything that may give us a clue as to what is going on? I've taken a look at what was going on operationally around that time. It appears we were having the typical kinds of dropouts during passes. APL also changed telemetry rates and had some sort of switch between the primary and backup links to the IONET. Details are here: http://stereo-ssc.nascom.nasa.gov/minutes/2011/weekly_20110628.txt

I don't know that those explain any of this, however. I would expect dropouts to cause data gaps. And if the switch in the IONet caused duplicate packets, APL should have cleaned those out when they produced the L0 files. However, perhaps there are duplicates here - although why would the data be different?

Thank you,
Peter

----- Original Message -----

Subject:w/ attached info. Fwd: STA_L1_SIT repeatable records

Date:Mon, 9 Apr 2012 10:14:12 -0400

From:Tami Kovalick <tamara.j.kovalick@nasa.gov>

Organization:ADNET

To:Peter Schroeder <peters@ssl.berkeley.edu>

CC:'Natalia Papitashvili' <Natalia.E.Papitashvili@nasa.gov>, Joseph King
<joseph.h.king@nasa.gov>

----- Original Message -----

Subject: STA_L1_SIT repeatable records

Date: Mon, 9 Apr 2012 08:48:07 -0500

From: Papitashvili, Natalia E. (GSFC-672.0)[ADNET SYSTEMS INC]
[<natalia.e.papitashvili@nasa.gov>](mailto:natalia.e.papitashvili@nasa.gov)

To: Kovalick, Tamara J. (GSFC-672.0)[ADNET SYSTEMS INC]
[<tamara.j.kovalick@nasa.gov>](mailto:tamara.j.kovalick@nasa.gov)

CC: King, Joseph H. (GSFC-672.0)[ADNET SYSTEMS INC] [<joseph.h.king@nasa.gov>](mailto:joseph.h.king@nasa.gov)

Tami,

May be it will be interesting for you:

Looking at STEREO-A fluxes data: "STA_L1_SIT"

I found that in some records are repeated in year 2011 month =6 day =27

and H-fluxes are different in the repeatable records

I attach file with that time tags

Just FYI

Natasha

[<mist.txt>](#)

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