

First Looks at Foreign Protocols

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¹\$Header: d:/Binder2/1stLooks/RCS/1stLooks.tex,v 1.4 2007-06-05 07:37:32-07 Hamilton Exp Hamilton \$

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1 Foreign Protocol Discovery with a DMS Sprite2

On 29MAY07 an examination was made of the various serial protocols that the Dedicated Micro Systems (DMS) Sprite 2 could produce.

The GlassKeyboard used to control the non-existent domes was the one that is downloadable from a Sprite 2 over an EtherNet connection. The version used was: **NetVu ObserVer V1.6.3**, with a date of 2006. Since there was no connection to real equipment, some of the data collection attempts totally failed and others probably had messages sent that would not be sent if it was a normal installation.

The simulated keyboard as generated by NetVu OvserVer for the Sprite 2 is shown in Figure 1, page 6.

The Sprite 2 was at IP address 192.168.1.101 when on my machine.

The primary purpose of this exercise was to get a “first look” at non-Pelco protocols. And to see what the Sprite 2 does to good old Pelco P Protocol.

Several attempts were made to change the dome address using the Sprite 2’s internal software and there were no successes. The address for P Protocol stayed at 1 (0x00) in the address, through many tries. So the assumption is that all of these commands went to the equivalent address for the other competitors’ Protocols.

When testing was complete, it was discovered that it was possible to send presets with the GlassKeyboard. Due to the timing of this discovery, none were send during the protocol discovery exersize.

There are several mentions of a “Hello Message”. This is the initial set of messages sent by the Sprite 2 when it starts to talk to a PTZ, or other, unit. Usually these tell the unit to stop doing whatever they are currently doing and get into a known state. (This assumption is based on what is sent when starting to work on P Protocol.)

In the included data line captures, an attempt has been made to put a blank line infront of each change in testing. This is to break the test captures down into logical steps that match the test sheet (Figure 2, page 7). Each time that I changed from one key to the next an appreciable amount of time occured. Thus there is usually a gap of over a second at the start of the key push and this was used to identify probable “button down” events. With some of the simulations, the button down had no effect, but the button up did. The records that I kept were not detailed enough to identify these situations.

It appears that for motion commands, the Sprite 2 starts out by sending “stop”, or equivalent, commands. Then it sends out the required command followed by a double stop command. For the non-motion commands it usually does not send as many commands, which includes not usually sending the stop commands.

The captured data was saved is in Table 1, page 4.

The protocols that are built in to the Sprite 2, as listed on the Sprite 2 internal menu system are:

1. AD-Matrix, Section 1.1, page 9.
2. AD-168Matrix, Section 1.2, page 10.
3. BBV-Matrix, Section 1.3, page 10.
4. BBV-RS485, Section 1.4, page 11.
5. Dennard, Section 1.5, page 14.
6. DM-Serial, Section 1.6, page 17.
7. Ernitec, Section 1.7, page 19.
8. JCL, Section 1.8, page 23.
9. Kalatel, Section 1.9, page 26.

²\$Header: d:/Binder2/1stLooks/RCS/ProtoTst.inc,v 1.7 2007-06-05 08:37:22-07 Hamilton Exp Hamilton \$

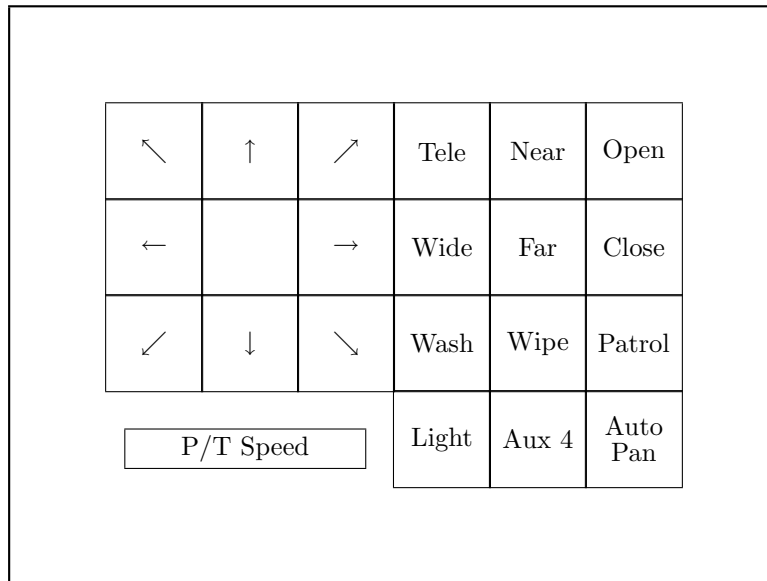
05/29/2007	07:21 AM	51,435	29may07a.txt
05/29/2007	08:37 AM	66,743	29may07aa.txt
05/29/2007	07:36 AM	36,512	29may07b.txt
05/29/2007	10:03 AM	40,616	29may07bb.txt
05/29/2007	07:41 AM	28,041	29may07c.txt
05/29/2007	10:09 AM	28,781	29may07cc.txt
05/29/2007	07:47 AM	9,895	29may07d.txt
05/29/2007	07:55 AM	15,915	29may07e.txt
05/29/2007	08:00 AM	29,374	29may07f.txt
05/29/2007	08:05 AM	32,298	29may07g.txt
05/29/2007	08:19 AM	28,428	29may07h.txt
05/29/2007	08:22 AM	181,424	29may07i.txt
05/29/2007	08:40 AM	37,286	29may07k.txt
05/29/2007	08:53 AM	41,285	29may07o.txt
05/29/2007	08:57 AM	33,717	29may07p.txt
05/29/2007	09:04 AM	34,706	29may07q.txt
05/29/2007	09:16 AM	19,054	29may07r.txt
05/29/2007	09:19 AM	2,198,469	29may07s.txt
05/29/2007	09:33 AM	33,760	29may07t.txt
05/29/2007	09:40 AM	215,867	29may07u.txt
05/29/2007	09:58 AM	198,409	29may07v.txt
21 File(s)		3,362,015	bytes

Table 1: Capture files from 29MAY07

10. MarkMercer, Section 1.10, page 28.
11. Pelco-P, Section 1.13, page 53.
12. Panasonic-WV-CS600, Section 1.11, page 31.
13. Panasonic-WV-CS850, Section 1.12, page 43.
14. Philips, Section 1.14, page 61.
15. Philips-232, Section 1.15, page 67.
16. Samsung, Section 1.16, page 67.
17. Sensormatic, Section 1.17, page 72.
18. Ultrack, Section 1.18, page 75.
19. Vantage, Section 1.19, page 78.
20. VCL, Section 1.20, page 80.
21. VCL-Matrix, Section 1.21, page 87.
22. Vista, Section 1.22, page 87.

In the Sprite 2 menu system the order of the protocols is: Pelco-P, Philips, Samsung, Sensormatic, Ultrack, Vantage, VCL, Vista, DM-Serial, Philips-232, AD-Matrix, AD-168Matrix, BBV-Matrix, VCL-Matrix, BBV-RS485, Dennard, Ernitec, JCL, Kalatel, MarkMercer, Panasonic-WV-CS600, Panasonic-WV-CS850, and then they repeat.

A sample data acquisition sheet is shown in Figure 2, page 7. The “improved” data acquisition sheet is shown in Figure 3, page 8.



\$RCSfile: SkeyBord.inc,v \$

Figure 1: Simulated keyboard for the Sprite 2

Test Number: _____
 Protocol: Sample
 Baud Rate: 9600

Action	
Up	
Up Right	
Right	
Down Right	
Down	
Down Left	
Left	
Up Left	
Up	
Tele	
Wide	
Wash	
Unk 1	
Near	
Far	
Wipe	
Aux 4	
Open Iris	
Close Iris	
Unk 2	
Unk 3	

Figure 2: Sample of first try at getting protocol data

Test Number: _____

Protocol: Sample

Baud Rate: 9600

Key	Down, 2 sec			Down, 25 sec			Toggle
	Action	Repeat	Up	Action	Repeat	Up	
Up							
Up Right							
Right							
Down Right							
Down							
Down Left							
Left							
Up Left							
Up							
Tele							
Wide							
Wash							
Light							
Near							
Far							
Wipe							
Aux 4							
Open Iris							
Close Iris							
Patrol							
Auto Scan							

1. Hello message? _____. If so wait at least 5 sec until proceeding.
2. Hello message length: _____
3. Polling? _____
4. Power cycle to get to next protocol? _____
5. Did "nothing" happen? _____
6. Parity if other than none: _____

Figure 3: Sample of second try at getting protocol data

1.1 AD-Matrix

This data was collected from a Dedicated Micro Systems Sprite 2 on 29MAY07.

1. Baud rate: 1200
2. Parity: None
3. Hello Message Length: Unknown
4. Hello Message last few bytes: —
5. Is the protocol a Polling Protocol?: Yes (0x30)
6. Name of the data capture file: 29MAY07K.txt
7. Special: Had to select a new protocol and power cycle to get the Sprite 2 to stop sending the Poll character.

1.1.1 k.out

```

1  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2  $Header: d:/Binder2/1stLooks/RCS/K.out,v 1.1 2007-05-30 06:56:02-07 Hamilton Exp Hamilton $
3  FTS capture buffer (5/29/2007 8:40:38 AM)
4  Event 1 (5/29/2007 8:37:37.398356 AM) through
5  Event 863 (5/29/2007 8:40:26.250071 AM)
6
7      1,      1: DTE      3      96.576641      0.000000 30
8      1,      2: DTE      4      96.659921      0.083280 30
9      1,      3: DTE      5      96.744085      0.084164 30
10     1,      4: DTE      6      96.828253      0.084168 30
11     1,      5: DTE      7      96.912420      0.084167 30
12     1,      6: DTE      8      96.996533      0.084113 30
13     1,      7: DTE      9      97.079868      0.083335 30
14
15     1,      849: DTE     851     167.842708      0.084166 30
16     1,      850: DTE     852     167.926875      0.084167 30
17     1,      851: DTE     853     168.011041      0.084166 30
18     1,      852: DTE     854     168.095156      0.084115 30
19     1,      853: DTE     855     168.179324      0.084168 30
20     1,      854: DTE     856     168.263491      0.084167 30
21     1,      855: DTE     857     168.347654      0.084163 30
22     1,      856: DTE     858     168.430935      0.083281 30
23     1,      857: DTE     859     168.515101      0.084166 30
24     1,      858: DTE     860     168.599270      0.084169 30
25     1,      859: DTE     861     168.683498      0.084228 30
26     1,      860: DTE     862     168.767552      0.084054 30
27     1,      861: DTE     863     168.851715      0.084163 30
28
29  There were a total of      861 bytes transferred
30
31  There were a total of      0 DCE bytes transferred
32  The first DCE byte came in at 0.000000 seconds from the start of data collection
33  The last DCE byte was at 0.000000 seconds from the start of data collection
34
35  There were a total of      861 DTE bytes transferred
36  The first DTE byte came in at 96.576641 seconds from the start of data collection
37  The last DTE byte was at 168.851715 seconds from the start of data collection
38

```

³\$Header: d:/Binder2/1stLooks/RCS/ADMMatrix.inc,v 1.1 2007-06-05 08:28:25-07 Hamilton Exp Hamilton \$

1.2 AD-168Matrix

This data was collected from a Dedicated Micro Systems Sprite 2 on 29MAY07.

1. Baud rate: 1200
2. Parity: None
3. Hello Message Length: Unknown
4. Hello Message last few bytes: —
5. Is the protocol a Polling Protocol?: No
6. Name of the data capture file: 29MAY07L.txt File is non-existent.
7. Special: Nothing ever came out of the Sprite 2.

1.3 BBV-Matrix

This data was collected from a Dedicated Micro Systems Sprite 2 on 29MAY07.

1. Baud rate: 9600
2. Parity: None
3. Hello Message Length: Unknown
4. Hello Message last few bytes: —
5. Is the protocol a Polling Protocol?: No
6. Name of the data capture file: 29MAY07M.txt File is non-existent.
7. Special: Nothing ever came out of the Sprite 2.

⁴\$Header: d:/Binder2/1stLooks/RCS/AD168Mtx.inc,v 1.1 2007-06-05 08:28:16-07 Hamilton Exp Hamilton \$

⁵\$Header: d:/Binder2/1stLooks/RCS/BBVMatrX.inc,v 1.1 2007-06-05 08:29:16-07 Hamilton Exp Hamilton \$

1.4 BBV-RS485

This data was collected from a Dedicated Micro Systems Sprite 2 on 29MAY07.

1. Baud rate: 9600
2. Parity: None
3. Hello Message Length: 64
4. Hello Message last few bytes: 0x00 0xBF 0x0F
5. Is the protocol a Polling Protocol?: No
6. Name of the data capture file: 29MAY070.txt
7. Protocol Characteristics:
 - 7.1 Message Length(s): 8
 - 7.2 ISO Level 1: _____.
 - 7.3 Unique first byte: 0xB0
 - 7.4 Unique last byte: 0xBF as the next to last byte.
 - 7.5 Checksum: XOR of all bytes in message, is the last byte.
 - 7.6 Device address: Byte 2.
 - 7.7 Is similar to P Protocol

1.4.1 o.out

```

1 $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2 $Header: d:/Binder2/1stLooks/RCS/0.out,v 1.3 2007-05-31 08:02:23-07 Hamilton Exp Hamilton $
3 FTS capture buffer (5/29/2007 8:53:08 AM)
4 Event 1 (5/29/2007 8:43:31.597640 AM) through
5 Event 956 (5/29/2007 8:52:48.813066 AM)
6
7      1,      1: DTE      5 433.779955 0.000000 b0 00 00 00 00 00 bf 0f
8      1,      9: DTE     13 433.789321 0.001249 b0 00 00 00 04 00 bf 0b
9      1,     17: DTE     21 433.798696 0.001147 b0 00 00 04 04 00 bf 0f
10     1,     25: DTE     29 433.807975 0.001154 b0 00 00 00 00 00 bf 0f
11     1,     33: DTE     37 433.817238 0.001146 b0 00 00 00 04 00 bf 0b
12     1,     41: DTE     45 433.826501 0.001250 b0 00 00 04 04 00 bf 0f
13     1,     49: DTE     53 433.835668 0.001147 b0 00 00 00 00 00 bf 0f
14     1,     57: DTE     61 433.880765 0.036973 b0 00 00 00 00 00 bf 0f
15
16     1,     65: DTE     69 458.008893 24.120002 b0 00 00 25 00 01 bf 2b
17     1,     73: DTE     77 458.206776 0.189764 b0 00 00 00 00 00 bf 0f
18     1,     81: DTE     85 458.216252 0.001146 b0 00 00 00 00 22 bf 2d
19     1,     89: DTE     93 458.225724 0.001146 b0 00 00 08 00 22 bf 25
20     1,     97: DTE    101 459.320246 1.086396 b0 00 00 25 00 01 bf 2b
21     1,    105: DTE    109 459.518651 0.190458 b0 00 00 00 00 00 bf 0f
22     1,    113: DTE    117 459.527918 0.001147 b0 00 00 00 00 00 bf 0f
23
24     1,    121: DTE    125 461.541344 2.005204 b0 00 00 25 00 01 bf 2b
25     1,    129: DTE    133 461.744020 0.194553 b0 00 00 00 00 00 bf 0f
26     1,    137: DTE    141 461.753393 0.001146 b0 00 00 00 00 22 bf 2d
27     1,    145: DTE    149 461.762662 0.001145 b0 00 00 08 00 22 bf 25
28     1,    153: DTE    157 461.771830 0.001145 b0 00 00 08 22 22 bf 07
29     1,    161: DTE    165 461.781095 0.001147 b0 00 00 0a 22 22 bf 05

```

⁶\$Header: d:/Binder2/1stLooks/RCS/BBVRS485.inc,v 1.1 2007-06-05 08:29:03-07 Hamilton Exp Hamilton \$

30	1,	169:	DTE	173	463.950856	2.161534	b0	00	00	25	00	01	bf	2b
31	1,	177:	DTE	181	464.151448	0.192470	b0	00	00	00	00	00	bf	0f
32	1,	185:	DTE	189	464.160718	0.001149	b0	00	00	00	00	00	bf	0f
33														
34	1,	193:	DTE	197	466.368909	2.200069	b0	00	00	25	00	01	bf	2b
35	1,	201:	DTE	205	466.583770	0.206845	b0	00	00	00	00	00	bf	0f
36	1,	209:	DTE	213	466.593032	0.001145	b0	00	00	00	00	22	bf	2d
37	1,	217:	DTE	221	466.602200	0.001147	b0	00	00	02	22	00	bf	2f
38	1,	225:	DTE	229	468.601363	1.991143	b0	00	00	25	00	01	bf	2b
39	1,	233:	DTE	237	468.809351	0.199762	b0	00	00	00	00	00	bf	0f
40	1,	241:	DTE	245	468.818731	0.001259	b0	00	00	00	00	00	bf	0f
41														
42	1,	249:	DTE	253	470.719882	1.893035	b0	00	00	25	00	01	bf	2b
43	1,	257:	DTE	261	470.942343	0.214449	b0	00	00	00	00	00	bf	0f
44	1,	265:	DTE	269	470.951925	0.001147	b0	00	00	00	00	22	bf	2d
45	1,	273:	DTE	277	470.961293	0.001146	b0	00	00	10	00	22	bf	3d
46	1,	281:	DTE	285	470.970461	0.001149	b0	00	00	10	22	22	bf	1f
47	1,	289:	DTE	293	470.979730	0.001250	b0	00	00	12	22	22	bf	1d
48	1,	297:	DTE	301	472.814197	1.826446	b0	00	00	25	00	01	bf	2b
49	1,	305:	DTE	309	473.016076	0.193723	b0	00	00	00	00	00	bf	0f
50	1,	313:	DTE	317	473.025342	0.001147	b0	00	00	00	00	00	bf	0f
51														
52	1,	321:	DTE	325	475.305084	2.271618	b0	00	00	25	00	01	bf	2b
53	1,	329:	DTE	333	475.510260	0.197055	b0	00	00	00	00	00	bf	0f
54	1,	337:	DTE	341	475.519631	0.001145	b0	00	00	00	00	22	bf	2d
55	1,	345:	DTE	349	475.529000	0.001250	b0	00	00	10	00	22	bf	3d
56	1,	353:	DTE	357	476.943885	1.406761	b0	00	00	25	00	01	bf	2b
57	1,	361:	DTE	365	477.145420	0.193419	b0	00	00	00	00	00	bf	0f
58	1,	369:	DTE	373	477.154787	0.001146	b0	00	00	00	00	00	bf	0f
59														
60	1,	377:	DTE	381	479.001052	1.838252	b0	00	00	25	00	01	bf	2b
61	1,	385:	DTE	389	479.211541	0.202367	b0	00	00	00	00	00	bf	0f
62	1,	393:	DTE	397	479.220808	0.001146	b0	00	00	00	00	22	bf	2d
63	1,	401:	DTE	405	479.230183	0.001147	b0	00	00	10	00	22	bf	3d
64	1,	409:	DTE	413	479.239448	0.001147	b0	00	00	10	22	22	bf	1f
65	1,	417:	DTE	421	479.248821	0.001249	b0	00	00	14	22	22	bf	1b
66	1,	425:	DTE	429	481.002921	1.745974	b0	00	00	25	00	01	bf	2b
67	1,	433:	DTE	437	481.200075	0.189139	b0	00	00	00	00	00	bf	0f
68	1,	441:	DTE	445	481.209447	0.001146	b0	00	00	00	00	00	bf	0f
69														
70	1,	449:	DTE	453	482.961150	1.743579	b0	00	00	25	00	01	bf	2b
71	1,	457:	DTE	461	483.168513	0.199243	b0	00	00	00	00	00	bf	0f
72	1,	465:	DTE	469	483.177883	0.001145	b0	00	00	00	00	22	bf	2d
73	1,	473:	DTE	477	483.187051	0.001146	b0	00	00	04	22	00	bf	29
74	1,	481:	DTE	485	485.036233	1.841064	b0	00	00	25	00	01	bf	2b
75	1,	489:	DTE	493	485.236826	0.192575	b0	00	00	00	00	00	bf	0f
76	1,	497:	DTE	501	485.246093	0.001147	b0	00	00	00	00	00	bf	0f
77														
78	1,	505:	DTE	509	487.040054	1.785838	b0	00	00	25	00	01	bf	2b
79	1,	513:	DTE	517	487.240049	0.191848	b0	00	00	00	00	00	bf	0f
80	1,	521:	DTE	525	487.249522	0.001146	b0	00	00	00	00	22	bf	2d
81	1,	529:	DTE	533	487.258898	0.001146	b0	00	00	08	00	22	bf	25
82	1,	537:	DTE	541	487.268273	0.001147	b0	00	00	08	22	22	bf	07
83	1,	545:	DTE	549	487.277535	0.001141	b0	00	00	0c	22	22	bf	03
84	1,	553:	DTE	557	489.344924	2.059325	b0	00	00	25	00	01	bf	2b
85	1,	561:	DTE	565	489.544161	0.191117	b0	00	00	00	00	00	bf	0f
86	1,	569:	DTE	573	489.553429	0.001146	b0	00	00	00	00	00	bf	0f
87														
88	1,	577:	DTE	581	491.544467	1.983025	b0	00	00	25	00	01	bf	2b
89	1,	585:	DTE	589	491.743080	0.190492	b0	00	00	00	00	00	bf	0f
90	1,	593:	DTE	597	491.752556	0.001137	b0	00	00	00	00	22	bf	2d
91	1,	601:	DTE	605	491.761819	0.001139	b0	00	00	08	00	22	bf	25
92	1,	609:	DTE	613	494.109471	2.339421	b0	00	00	25	00	01	bf	2b
93	1,	617:	DTE	621	494.306939	0.189345	b0	00	00	00	00	00	bf	0f
94	1,	625:	DTE	629	494.316210	0.001244	b0	00	00	00	00	00	bf	0f
95														
96	1,	633:	DTE	637	496.432017	2.107790	b0	00	00	25	00	01	bf	2b
97	1,	641:	DTE	645	496.644067	0.203825	b0	00	00	20	00	00	bf	2f
98														
99	1,	649:	DTE	653	498.446073	1.793989	b0	00	00	25	00	01	bf	2b
100	1,	657:	DTE	661	498.644580	0.190289	b0	00	00	00	00	00	bf	0f
101														

```

102      1,      665: DTE      669      500.765492      2.112894 b0 00 00 25 00 01 bf 2b
103      1,      673: DTE      677      500.963167      0.189657 b0 00 00 40 00 00 bf 4f
104
105      1,      681: DTE      685      502.933583      1.962294 b0 00 00 25 00 01 bf 2b
106      1,      689: DTE      693      503.131885      0.190291 b0 00 00 00 00 00 bf 0f
107
108      1,      697: DTE      701      505.100322      1.960316 b0 00 00 25 00 01 bf 2b
109      1,      705: DTE      709      505.300819      0.192279 b0 00 00 09 00 03 bf 05
110
111      1,      713: DTE      717      506.973772      1.664847 b0 00 00 25 00 01 bf 2b
112      1,      721: DTE      725      507.173609      0.191723 b0 00 00 0b 00 03 bf 07
113
114      1,      729: DTE      733      511.430762      4.249111 b0 00 00 25 00 01 bf 2b
115      1,      737: DTE      741      511.631041      0.192055 b0 00 00 09 00 01 bf 07
116
117      1,      745: DTE      749      518.512551      6.873388 b0 00 00 25 00 01 bf 2b
118      1,      753: DTE      757      518.727829      0.207157 b0 00 01 00 00 00 bf 0e
119
120      1,      761: DTE      765      520.897494      2.161550 b0 00 00 25 00 01 bf 2b
121      1,      769: DTE      773      521.096826      0.191227 b0 00 00 00 00 00 bf 0f
122
123      1,      777: DTE      781      523.733174      2.628233 b0 00 00 25 00 01 bf 2b
124      1,      785: DTE      789      523.931786      0.190492 b0 00 02 00 00 00 bf 0d
125
126      1,      793: DTE      797      526.000309      2.060567 b0 00 00 25 00 01 bf 2b
127      1,      801: DTE      805      526.230067      0.221638 b0 00 00 00 00 00 bf 0f
128
129      1,      809: DTE      813      528.271929      2.033747 b0 00 00 25 00 01 bf 2b
130      1,      817: DTE      821      528.469180      0.189138 b0 00 00 09 00 02 bf 04
131
132      1,      825: DTE      829      530.905880      2.428467 b0 00 00 25 00 01 bf 2b
133      1,      833: DTE      837      531.103658      0.189859 b0 00 00 0b 00 02 bf 06
134
135      1,      841: DTE      845      535.430780      4.318999 b0 00 00 25 00 01 bf 2b
136      1,      849: DTE      853      535.631266      0.192636 b0 00 00 07 00 63 bf 6b
137
138      1,      857: DTE      861      539.130603      3.491111 b0 00 00 25 00 01 bf 2b
139      1,      865: DTE      869      539.337549      0.198929 b0 00 04 00 00 00 bf 0b
140
141      1,      873: DTE      877      541.500849      2.155282 b0 00 00 25 00 01 bf 2b
142      1,      881: DTE      885      541.701338      0.192367 b0 00 00 00 00 00 bf 0f
143
144      1,      889: DTE      893      544.709195      2.999736 b0 00 00 25 00 01 bf 2b
145      1,      897: DTE      901      544.907287      0.189971 b0 00 08 00 00 00 bf 07
146
147      1,      905: DTE      909      546.868746      1.953441 b0 00 00 25 00 01 bf 2b
148      1,      913: DTE      917      547.070691      0.193616 b0 00 00 00 00 00 bf 0f
149
150      1,      921: DTE      925      551.812852      4.734144 b0 00 00 25 00 01 bf 2b
151      1,      929: DTE      933      552.013859      0.192892 b0 00 00 07 00 61 bf 69
152
153      1,      937: DTE      941      557.001399      4.979424 b0 00 00 25 00 01 bf 2b
154      1,      945: DTE      949      557.207294      0.197886 b0 00 00 07 00 63 bf 6b
155
156 There were a total of          952 bytes transferred
157
158 There were a total of          0 DCE bytes transferred
159 The first DCE byte came in at 0.000000 seconds from the start of data collection
160 The last DCE byte was at 0.000000 seconds from the start of data collection
161
162 There were a total of          952 DTE bytes transferred
163 The first DTE byte came in at 433.779955 seconds from the start of data collection
164 The last DTE byte was at 557.215426 seconds from the start of data collection
165

```

1.5 Dennard

This data was collected from a Dedicated Micro Systems Sprite 2 on 29MAY07.

1. Baud rate: 9600
2. Parity: None
3. Hello Message Length: 64
4. Hello Message last few bytes: 0x00 0x9D 0x03
5. Is the protocol a Polling Protocol?: No
6. Name of the data capture file: 29MAY07P.txt
7. Protocol Characteristics:
 - 7.1 Message Length(s): 7, 8
 - 7.2 ISO Level 1: _____.
 - 7.3 Unique first byte: 0x02
 - 7.4 Unique last byte: 0x03
 - 7.5 Checksum: XOR not including the first or last byte (0x02 or 0x03)
 - 7.6 Device address: Byte 3

1.5.1 p.out

```

1  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2  $Header: d:/Binder2/1stLooks/RCS/P.out,v 1.3 2007-05-31 08:02:23-07 Hamilton Exp Hamilton $
3  FTS capture buffer (5/29/2007 8:57:25 AM)
4  Event 1 (5/29/2007 8:54:48.351554 AM) through
5  Event 780 (5/29/2007 8:57:00.550721 AM)
6
7      1,      1: DTE      1      0.000000  0.000000 02 49 01 04 00 00 4c 03
8      1,      9: DTE      9      0.039575  0.031622 02 4a 01 05 00 00 4e 03
9      1,     17: DTE     17      0.064044  0.016452 02 4b 01 04 00 00 4e 03
10     1,     25: DTE     25      0.101537  0.029368 02 4c 01 05 00 00 48 03
11     1,     33: DTE     33      0.165075  0.055413 02 4d 01 04 00 00 48 03
12     1,     41: DTE     41      0.184336  0.011243 02 4e 01 05 00 00 4a 03
13     1,     49: DTE     49      0.265369  0.073013 02 4f 01 04 00 00 4a 03
14     1,     57: DTE     57      0.314046  0.040661 02 49 01 05 00 00 4d 03
15
16     1,     65: DTE     65     21.750269  21.427931 02 4a 01 04 00 00 4f 03
17     1,     73: DTE     73     21.770265  0.011666 02 4b 01 05 00 00 4f 03
18     1,     81: DTE     81     21.790675  0.012291 02 4c 01 04 00 40 09 03
19
20     1,     89: DTE     89     24.231957  2.433054 02 4d 01 04 00 00 48 03
21     1,     97: DTE     97     24.249346  0.009270 02 4e 01 05 00 00 4a 03
22     1,    105: DTE    105     24.271529  0.014059 02 4f 01 04 00 00 4a 03
23     1,    113: DTE    113     24.289547  0.009791 02 49 01 05 00 00 4d 03
24
25     1,    121: DTE    121     27.232722  2.934945 02 4a 01 04 00 00 4f 03
26     1,    129: DTE    129     27.249593  0.008745 02 4b 01 05 00 00 4f 03
27     1,    137: DTE    137     27.270009  0.012396 02 4c 01 04 00 40 09 03
28     1,    145: DTE    145     27.289793  0.011556 02 4d 01 04 c0 40 c8 03
29
30     1,    153: DTE    153     29.754094  2.456279 02 4e 01 04 00 00 4b 03
31     1,    161: DTE    161     29.773762  0.011547 02 4f 01 05 00 00 4b 03

```

⁷\$Header: d:/Binder2/1stLooks/RCS/Dennard.inc,v 1.1 2007-06-05 08:29:24-07 Hamilton Exp Hamilton \$

32	1,	169:	DTE	169	29.793875	0.011980	02	49	01	04	00	00	4c	03
33	1,	177:	DTE	177	29.815014	0.013119	02	4a	01	05	00	00	4e	03
34														
35	1,	185:	DTE	185	31.894275	2.071137	02	4b	01	04	00	00	4e	03
36	1,	193:	DTE	193	31.912182	0.009689	02	4c	01	05	00	00	48	03
37	1,	201:	DTE	201	31.932702	0.012396	02	4d	01	04	c0	00	88	03
38														
39	1,	209:	DTE	209	34.229105	2.288285	02	4e	01	04	00	00	4b	03
40	1,	217:	DTE	217	34.246081	0.008855	02	4f	01	05	00	00	4b	03
41	1,	225:	DTE	225	34.266386	0.012180	02	49	01	04	00	00	4c	03
42	1,	233:	DTE	233	34.296284	0.021567	02	4a	01	05	00	00	4e	03
43														
44	1,	241:	DTE	241	36.940758	2.636351	02	4b	01	04	00	00	4e	03
45	1,	249:	DTE	249	36.962458	0.013476	02	4c	01	05	00	00	48	03
46	1,	257:	DTE	257	36.981162	0.010519	02	4d	01	04	00	c0	88	03
47	1,	265:	DTE	265	37.001782	0.012494	02	4e	01	04	c0	c0	4b	03
48														
49	1,	273:	DTE	273	39.044272	2.034261	02	4f	01	04	00	00	4a	03
50	1,	281:	DTE	281	39.064375	0.012087	02	49	01	05	00	00	4d	03
51	1,	289:	DTE	289	39.092181	0.019684	02	4a	01	04	00	00	4f	03
52	1,	297:	DTE	297	39.114365	0.014062	02	4b	01	05	00	00	4f	03
53														
54	1,	305:	DTE	305	41.473574	2.351084	02	4c	01	04	00	00	49	03
55	1,	313:	DTE	313	41.493397	0.011702	02	4d	01	05	00	00	49	03
56	1,	321:	DTE	321	41.514500	0.012811	02	4e	01	04	00	c0	8b	03
57														
58	1,	329:	DTE	329	43.902662	2.380140	02	4f	01	04	00	00	4a	03
59	1,	337:	DTE	337	43.923595	0.012918	02	49	01	05	00	00	4d	03
60	1,	345:	DTE	345	43.942756	0.011037	02	4a	01	04	00	00	4f	03
61	1,	353:	DTE	353	43.962861	0.011980	02	4b	01	05	00	00	4f	03
62														
63	1,	361:	DTE	361	46.231665	2.260702	02	4c	01	04	00	00	49	03
64	1,	369:	DTE	369	46.257807	0.018127	02	4d	01	05	00	00	49	03
65	1,	377:	DTE	377	46.276760	0.010933	02	4e	01	04	00	c0	8b	03
66	1,	385:	DTE	385	46.297176	0.012293	02	4f	01	04	40	c0	ca	03
67														
68	1,	393:	DTE	393	48.893116	2.587920	02	49	01	04	00	00	4c	03
69	1,	401:	DTE	401	48.910927	0.009795	02	4a	01	05	00	00	4e	03
70	1,	409:	DTE	409	48.931752	0.012703	02	4b	01	04	00	00	4e	03
71	1,	417:	DTE	417	48.959043	0.019272	02	4c	01	05	00	00	48	03
72														
73	1,	425:	DTE	425	51.034443	2.067283	02	4d	01	04	00	00	48	03
74	1,	433:	DTE	433	51.057973	0.015521	02	4e	01	05	00	00	4a	03
75	1,	441:	DTE	441	51.074643	0.008545	02	4f	01	04	40	00	0a	03
76														
77	1,	449:	DTE	449	53.333655	2.250689	02	49	01	04	00	00	4c	03
78	1,	457:	DTE	457	53.353650	0.011875	02	4a	01	05	00	00	4e	03
79	1,	465:	DTE	465	53.376351	0.014576	02	4b	01	04	00	00	4e	03
80	1,	473:	DTE	473	53.395101	0.010625	02	4c	01	05	00	00	48	03
81														
82	1,	481:	DTE	481	55.728587	2.325360	02	4d	01	04	00	00	48	03
83	1,	489:	DTE	489	55.754306	0.017604	02	4e	01	05	00	00	4a	03
84	1,	497:	DTE	497	55.777530	0.015203	02	4f	01	04	00	40	0a	03
85	1,	505:	DTE	505	55.797633	0.011979	02	49	01	04	40	40	4c	03
86														
87	1,	513:	DTE	513	58.327129	2.521475	02	4a	01	04	00	00	4f	03
88	1,	521:	DTE	521	58.346708	0.011458	02	4b	01	05	00	00	4f	03
89	1,	529:	DTE	529	58.375660	0.020835	02	4c	01	04	00	00	49	03
90	1,	537:	DTE	537	58.396799	0.013016	02	4d	01	05	00	00	49	03
91														
92	1,	545:	DTE	545	61.426216	3.021188	02	4e	01	04	00	00	4b	03
93	1,	553:	DTE	553	61.453810	0.019473	02	4f	01	05	00	00	4b	03
94	1,	561:	DTE	561	61.471975	0.010032	02	49	01	04	00	40	0c	03
95														
96	1,	569:	DTE	569	64.286801	2.806637	02	4a	01	04	00	00	4f	03
97	1,	577:	DTE	577	64.306693	0.011772	02	4b	01	05	00	00	4f	03
98	1,	585:	DTE	585	64.327562	0.012851	02	4c	01	04	00	00	49	03
99	1,	593:	DTE	593	64.354909	0.019056	02	4d	01	05	00	00	49	03
100														
101	1,	601:	DTE	601	68.121405	3.758372	02	4e	01	05	00	c8	82	03
102														
103	1,	609:	DTE	609	69.824559	1.695147	02	4f	01	05	00	c8	83	03

```

104      1,      617: DTE      617      70.045880      0.213096 02 49 01 05 00 00 4d 03
105
106      1,      625: DTE      625      71.986609      1.932609 02 4a 01 05 00 38 76 03
107
108      1,      633: DTE      633      74.667539      2.672705 02 4b 01 05 00 38 77 03
109      1,      641: DTE      641      74.886770      0.211117 02 4c 01 05 00 00 48 03
110
111      1,      649: DTE      649      77.023310      2.128418 02 4d 01 33 05 7a 03
112
113      1,      656: DTE      656      78.952895      1.922614 02 4e 01 33 06 7a 03
114
115      1,      663: DTE      663      83.255849      4.295980 02 4f 01 33 0a 77 03
116
117      1,      670: DTE      670      92.128704      8.865775 02 49 01 05 c8 00 85 03
118
119      1,      678: DTE      678      93.839576      1.702752 02 4a 01 05 c8 00 86 03
120      1,      686: DTE      686      94.056522      0.208826 02 4b 01 05 00 00 4f 03
121
122      1,      694: DTE      694      96.322406      2.257770 02 4c 01 05 38 00 70 03
123
124      1,      702: DTE      702      98.887204      2.556676 02 4d 01 05 38 00 71 03
125      1,      710: DTE      710      99.113109      0.217888 02 4e 01 05 00 00 4a 03
126
127      1,      718: DTE      718     102.085340      2.964111 02 4f 01 33 1b 83 7e 03
128
129      1,      726: DTE      726     104.429442      2.336085 02 49 01 33 04 7f 03
130
131      1,      733: DTE      733     110.156236      5.719819 02 4a 01 04 00 00 4f 03
132      1,      741: DTE      741     110.173419      0.009062 02 4b 01 05 00 00 4f 03
133
134      1,      749: DTE      749     128.059204     17.877780 02 4c 01 04 00 00 49 03
135      1,      757: DTE      757     128.078471      0.011145 02 4d 01 05 00 00 49 03
136
137      1,      765: DTE      765     132.171373      4.084673 02 4e 01 04 00 00 4b 03
138      1,      773: DTE      773     132.191042      0.011562 02 4f 01 05 00 00 4b 03
139
140 There were a total of          780 bytes transferred
141
142 There were a total of          0 DCE bytes transferred
143 The first DCE byte came in at 0.000000 seconds from the start of data collection
144 The last DCE byte was at 0.000000 seconds from the start of data collection
145
146 There were a total of          780 DTE bytes transferred
147 The first DTE byte came in at 0.000000 seconds from the start of data collection
148 The last DTE byte was at 132.199167 seconds from the start of data collection
149

```

1.6 DM-Serial

This data was collected from a Dedicated Micro Systems Sprite 2 on 29MAY07.

1. Baud rate: 9600
2. Parity: None
3. Hello Message Length: Unknown
4. Hello Message last few bytes: —
5. Is the protocol a Polling Protocol?: Yes. (02A) During the testing there was no indication of any “real data” being sent. This was probably due to the Sprite 2 never receiving any replies.
6. Name of the data capture file: 29MAY07I.txt
7. Special: Sprite 2 never stopped sending polls (0x2A) and I had to select a new protocol and power cycle the system to get it to stop.
8. Protocol Characteristics:
 - 8.1 Message Length(s): _____, _____, _____, _____, _____.
 - 8.2 ISO Level 1: _____.
 - 8.3 Unique first byte: _____.
 - 8.4 Unique last byte: _____.
 - 8.5 Checksum: _____.
 - 8.6 Device address: _____.

1.6.1 i.out

```

1  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2  $Header: d:/Binder2/1stLooks/RCS/I.out,v 1.1 2007-05-30 06:55:51-07 Hamilton Exp Hamilton $
3  FTS capture buffer (5/29/2007 8:22:50 AM)
4  Event 1 (5/29/2007 8:20:41.228534 AM) through
5  Event 4,215 (5/29/2007 8:22:39.277868 AM)
6
7      1,      1: DTE      1      0.000000  0.000000 2a
8      1,      2: DTE      2      0.027377  0.027377 2a
9      1,      3: DTE      3      0.055393  0.028016 2a
10     1,      4: DTE      4      0.083414  0.028021 2a
11
12     1,    4207: DTE    4207    117.825205  0.028018 2a
13     1,    4208: DTE    4208    117.853263  0.028058 2a
14     1,    4209: DTE    4209    117.881236  0.027973 2a
15     1,    4210: DTE    4210    117.909084  0.027848 2a
16     1,    4211: DTE    4211    117.937272  0.028188 2a
17     1,    4212: DTE    4212    117.965288  0.028016 2a
18     1,    4213: DTE    4213    117.993299  0.028011 2a
19     1,    4214: DTE    4214    118.021320  0.028021 2a
20     1,    4215: DTE    4215    118.049334  0.028014 2a
21
22  There were a total of      4215 bytes transferred
23
24  There were a total of          0 DCE bytes transferred
25  The first DCE byte came in at 0.000000 seconds from the start of data collection

```

^s\$Header: d:/Binder2/1stLooks/RCS/DMSerial.inc,v 1.1 2007-06-05 08:29:29-07 Hamilton Exp Hamilton \$

26 The last DCE byte was at 0.000000 seconds from the start of data collection
27
28 There were a total of 4215 DTE bytes transferred
29 The first DTE byte came in at 0.000000 seconds from the start of data collection
30 The last DTE byte was at 118.049334 seconds from the start of data collection
31

1.7 Ernitec

This data was collected from a Dedicated Micro Systems Sprite 2 on 29MAY07.

1. Baud rate: 2400
2. Parity: None
3. Hello Message Length: 11
4. Hello Message last few bytes: 0x00 0x00 0x03
5. Is the protocol a Polling Protocol?: No
6. Name of the data capture file: 29MAY07Q.txt
7. Protocol Characteristics:
 - 7.1 Message Length(s): 5, 6
 - 7.2 ISO Level 1: _____.
 - 7.3 Unique first byte: 0x02
 - 7.4 Unique last byte: 0x03
 - 7.5 Checksum: Sum of the full message.
 - 7.6 Device address: Byte 2

1.7.1 q.out

```

1  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2  $Header: d:/Binder2/1stLooks/RCS/Q.out,v 1.3 2007-05-31 08:02:24-07 Hamilton Exp Hamilton $
3  FTS capture buffer (5/29/2007 9:04:32 AM)
4  Event 1 (5/29/2007 8:57:45.452399 AM) through
5  Event 803 (5/29/2007 9:04:14.869181 AM)
6
7      1,      1: DTE      3      80.541176      0.000000 02 00 01 00 00 03
8      1,      7: DTE      9      80.693482      0.131224 02 00 01 00 00 03
9
10     1,     13: DTE     15     267.133026 186.418548 02 00 05 77 7e
11     1,     18: DTE     20     267.431724      0.282060 02 00 01 00 00 03
12     1,     24: DTE     26     267.531694      0.079142 02 00 0e 00 80 90
13     1,     30: DTE     32     267.632530      0.080003 02 00 01 04 00 07
14
15     1,     36: DTE     38     268.657767      1.004015 02 00 01 04 00 07
16
17     1,     42: DTE     44     269.683443      1.004848 02 00 01 04 00 07
18     1,     48: DTE     50     270.311672      0.607401 02 00 05 77 7e
19     1,     53: DTE     55     270.612036      0.283703 02 00 01 00 00 03
20     1,     59: DTE     61     270.716199      0.082918 02 00 01 00 00 03
21
22     1,     65: DTE     67     273.006671      2.269222 02 00 05 77 7e
23     1,     70: DTE     72     273.306618      0.282868 02 00 01 00 00 03
24     1,     76: DTE     78     273.406592      0.079146 02 00 0e 00 80 90
25     1,     82: DTE     84     273.506589      0.079166 02 00 01 04 00 07
26     1,     88: DTE     90     273.606981      0.079170 02 00 0e 80 80 10
27     1,     94: DTE     96     273.706953      0.078724 02 00 01 05 00 08
28
29     1,    100: DTE    102     274.731800      1.004014 02 00 01 05 00 08
30     1,    106: DTE    108     275.223805      0.471303 02 00 05 77 7e
31     1,    111: DTE    113     275.530419      0.289951 02 00 01 00 00 03

```

⁹\$Header: d:/Binder2/1stLooks/RCS/Ernitec.inc,v 1.1 2007-06-05 08:29:40-07 Hamilton Exp Hamilton \$

32	1,	117:	DTE	119	275.630418	0.078752	02	00	01	00	00	03
33												
34	1,	123:	DTE	125	277.438496	1.787274	02	00	05	77	7e	
35	1,	128:	DTE	130	277.738829	0.283895	02	00	01	00	00	03
36	1,	134:	DTE	136	277.838637	0.078587	02	00	0e	80	80	10
37	1,	140:	DTE	142	277.939190	0.079558	02	00	01	01	00	04
38												
39	1,	146:	DTE	148	278.964039	1.004015	02	00	01	01	00	04
40	1,	152:	DTE	154	279.879751	0.894885	02	00	05	77	7e	
41	1,	157:	DTE	159	280.178021	0.281229	02	00	01	00	00	03
42	1,	163:	DTE	165	280.277992	0.078724	02	00	01	00	00	03
43												
44	1,	169:	DTE	171	282.508880	2.210055	02	00	05	77	7e	
45	1,	174:	DTE	176	282.807188	0.281645	02	00	01	00	00	03
46	1,	180:	DTE	182	282.914243	0.085835	02	00	0e	80	80	10
47	1,	186:	DTE	188	283.012551	0.077476	02	00	01	08	00	0b
48	1,	192:	DTE	194	283.113382	0.079167	02	00	0e	80	80	10
49	1,	198:	DTE	200	283.213774	0.079560	02	00	01	09	00	0c
50												
51	1,	204:	DTE	206	284.238620	1.004007	02	00	01	09	00	0c
52	1,	210:	DTE	212	285.030155	0.770708	02	00	05	77	7e	
53	1,	215:	DTE	217	285.337612	0.290795	02	00	01	00	00	03
54	1,	221:	DTE	223	285.436743	0.078310	02	00	01	00	00	03
55												
56	1,	227:	DTE	229	286.972760	1.514863	02	00	05	77	7e	
57	1,	232:	DTE	234	287.269791	0.280370	02	00	01	00	00	03
58	1,	238:	DTE	240	287.370203	0.079672	02	00	0e	80	80	10
59	1,	244:	DTE	246	287.470178	0.078726	02	00	01	08	00	0b
60												
61	1,	250:	DTE	252	288.495440	1.004598	02	00	01	08	00	0b
62												
63	1,	256:	DTE	258	289.521092	1.004822	02	00	01	08	00	0b
64	1,	262:	DTE	264	289.799397	0.257061	02	00	05	77	7e	
65	1,	267:	DTE	269	290.099761	0.283283	02	00	01	00	00	03
66	1,	273:	DTE	275	290.199733	0.078725	02	00	01	00	00	03
67												
68	1,	279:	DTE	281	291.795751	1.574769	02	00	05	77	7e	
69	1,	284:	DTE	286	292.104865	0.292060	02	00	01	00	00	03
70	1,	290:	DTE	292	292.208197	0.082100	02	00	0e	80	80	10
71	1,	296:	DTE	298	292.308143	0.079140	02	00	01	08	00	0b
72	1,	302:	DTE	304	292.425230	0.095836	02	00	0e	80	80	10
73	1,	308:	DTE	310	292.528535	0.082058	02	00	01	0a	00	0d
74												
75	1,	314:	DTE	316	293.554216	1.004850	02	00	01	0a	00	0d
76												
77	1,	320:	DTE	322	294.579448	1.004405	02	00	01	0a	00	0d
78												
79	1,	326:	DTE	328	295.605126	1.004873	02	00	01	0a	00	0d
80	1,	332:	DTE	334	296.238771	0.612401	02	00	05	77	7e	
81	1,	337:	DTE	339	296.540384	0.284534	02	00	01	00	00	03
82	1,	343:	DTE	345	296.640385	0.079169	02	00	01	00	00	03
83												
84	1,	349:	DTE	351	299.295383	2.634168	02	00	05	77	7e	
85	1,	354:	DTE	356	299.595331	0.282893	02	00	01	00	00	03
86	1,	360:	DTE	362	299.696973	0.080811	02	00	0e	80	80	10
87	1,	366:	DTE	368	299.801942	0.084140	02	00	01	02	00	05
88												
89	1,	372:	DTE	374	300.826791	1.004014	02	00	01	02	00	05
90												
91	1,	378:	DTE	380	301.852051	1.004432	02	00	01	02	00	05
92												
93	1,	384:	DTE	386	302.877560	1.004845	02	00	01	02	00	05
94	1,	390:	DTE	392	303.072924	0.174367	02	00	05	77	7e	
95	1,	395:	DTE	397	303.371815	0.281643	02	00	01	00	00	03
96	1,	401:	DTE	403	303.472205	0.079587	02	00	01	00	00	03
97												
98	1,	407:	DTE	409	306.762518	3.269482	02	00	05	77	7e	
99	1,	412:	DTE	414	307.062881	0.283701	02	00	01	00	00	03
100	1,	418:	DTE	420	307.163939	0.079813	02	00	0e	80	80	10
101	1,	424:	DTE	426	307.264522	0.079172	02	00	01	04	00	07
102	1,	430:	DTE	432	307.366159	0.080810	02	00	0e	80	80	10
103	1,	436:	DTE	438	307.465745	0.078753	02	00	01	06	00	09

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```

176
177      1,      717: DTE      719      372.020827      3.608594 02 00 05 77 7e
178
179      1,      722: DTE      724      374.983692      2.945785 02 00 05 77 7e
180      1,      727: DTE      729      375.287389      0.286619 02 00 01 00 00 03
181
182      1,      733: DTE      735      381.295599      5.986964 02 00 05 77 7e
183      1,      738: DTE      740      381.593454      0.281200 02 00 01 06 00 09
184      1,      744: DTE      746      381.693036      0.078334 02 00 0e 10 80 a0
185
186      1,      750: DTE      752      382.995329      1.281045 02 00 0e 00 80 90
187      1,      756: DTE      758      383.095299      0.079140 02 00 01 00 00 03
188      1,      762: DTE      764      383.696281      0.580149 02 00 02 65 69
189
190      1,      767: DTE      769      386.990510      3.277565 02 00 05 77 7e
191      1,      772: DTE      774      387.288376      0.281369 02 00 01 06 00 09
192      1,      778: DTE      780      387.387540      0.078336 02 00 0e 10 80 a0
193
194      1,      784: DTE      786      388.689833      1.281460 02 00 0e 00 80 90
195      1,      790: DTE      792      388.796482      0.085401 02 00 01 00 00 03
196      1,      796: DTE      798      389.395980      0.578677 02 00 0f 03 00 14
197
198 There were a total of      801 bytes transferred
199
200 There were a total of      0 DCE bytes transferred
201 The first DCE byte came in at 0.000000 seconds from the start of data collection
202 The last DCE byte was at 0.000000 seconds from the start of data collection
203
204 There were a total of      801 DTE bytes transferred
205 The first DTE byte came in at 80.541176 seconds from the start of data collection
206 The last DTE byte was at 389.416782 seconds from the start of data collection
207

```

1.8 JCL

This data was collected from a Dedicated Micro Systems Sprite 2 on 29MAY07.

1. Baud rate: 9600
2. Parity: Even
3. Hello Message Length: 25
4. Hello Message last few bytes: 0x82 0x45 0x0F
5. Is the protocol a Polling Protocol?: No
6. Name of the data capture file: 29MAY07R.txt
7. Protocol Characteristics:
 - 7.1 Message Length(s): 6, 7
 - 7.2 ISO Level 1: _____.
 - 7.3 Unique first byte: 0xB1
 - 7.4 Unique last byte: _____.
 - 7.5 Checksum: _____.
 - 7.6 Device address: _____.

1.8.1 r.out

```

1  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2  $Header: d:/Binder2/1stLooks/RCS/R.out,v 1.3 2007-05-31 08:02:24-07 Hamilton Exp Hamilton $
3  FTS capture buffer (5/29/2007 9:16:07 AM)
4  Event 1 (5/29/2007 9:13:23.277796 AM) through
5  Event 439 (5/29/2007 9:15:38.334316 AM)
6
7      1,      1: DTE      1      0.000000  0.000000 b1 01 01 82 45 0f
8      1,      7: DTE      7      0.017074  0.010833 b1 01 01 83 42 26 00
9      1,     14: DTE     14      0.052276  0.027598 b1 01 01 83 42 19 00
10     1,     21: DTE     21      0.139139  0.079363 b1 01 01 82 45 0f
11
12     1,     27: DTE     27     25.141605  24.996009 b1 01 01 82 45 0f
13     1,     33: DTE     33     25.149095  0.001249 b1 01 01 83 45 03 18
14
15     1,     40: DTE     40     27.012451  1.855856 b1 01 01 82 45 0f
16     1,     46: DTE     46     27.019946  0.001250 b1 01 01 82 45 0f
17
18     1,     52: DTE     52     29.606824  2.580634 b1 01 01 82 45 0f
19     1,     58: DTE     58     29.614320  0.001241 b1 01 01 83 45 03 18
20     1,     65: DTE     65     29.623080  0.001259 b1 01 01 83 45 00 18
21
22     1,     72: DTE     72     32.341596  2.711026 b1 01 01 82 45 0f
23     1,     78: DTE     78     32.349091  0.001250 b1 01 01 82 45 0f
24
25     1,     84: DTE     84     34.847137  2.491796 b1 01 01 82 45 0f
26     1,     90: DTE     90     34.854838  0.001249 b1 01 01 83 45 00 18
27
28     1,     97: DTE     97     37.504578  2.642239 b1 01 01 82 45 0f
29     1,    103: DTE    103     37.512123  0.001250 b1 01 01 82 45 0f
30
31     1,    109: DTE    109     39.207999  1.689632 b1 01 01 82 45 0f

```

¹⁰\$Header: d:/Binder2/1stLooks/RCS/JCL.inc,v 1.1 2007-06-05 08:29:44-07 Hamilton Exp Hamilton \$

32	1,	115:	DTE	115	39.215494	0.001249	b1	01	01	83	45	04	18
33	1,	122:	DTE	122	39.224244	0.001250	b1	01	01	83	45	00	18
34													
35	1,	129:	DTE	129	41.421603	2.189865	b1	01	01	82	45	0f	
36	1,	135:	DTE	135	41.429101	0.001250	b1	01	01	82	45	0f	
37													
38	1,	141:	DTE	141	43.850692	2.415347	b1	01	01	82	45	0f	
39	1,	147:	DTE	147	43.858292	0.001250	b1	01	01	83	45	04	18
40													
41	1,	154:	DTE	154	46.275308	2.409516	b1	01	01	82	45	0f	
42	1,	160:	DTE	160	46.282908	0.001252	b1	01	01	82	45	0f	
43													
44	1,	166:	DTE	166	48.493288	2.204130	b1	01	01	82	45	0f	
45	1,	172:	DTE	172	48.501298	0.001250	b1	01	01	83	45	04	18
46	1,	179:	DTE	179	48.510049	0.001253	b1	01	01	83	45	01	18
47													
48	1,	186:	DTE	186	50.842598	2.325051	b1	01	01	82	45	0f	
49	1,	192:	DTE	192	50.850196	0.001249	b1	01	01	82	45	0f	
50													
51	1,	198:	DTE	198	52.950798	2.094351	b1	01	01	82	45	0f	
52	1,	204:	DTE	204	52.958503	0.001250	b1	01	01	83	45	01	18
53													
54	1,	211:	DTE	211	55.911049	2.945046	b1	01	01	82	45	0f	
55	1,	217:	DTE	217	55.918658	0.001250	b1	01	01	82	45	0f	
56													
57	1,	223:	DTE	223	58.230165	2.305263	b1	01	01	82	45	0f	
58	1,	229:	DTE	229	58.243079	0.006564	b1	01	01	83	45	03	18
59	1,	236:	DTE	236	58.251821	0.001243	b1	01	01	83	45	01	18
60													
61	1,	243:	DTE	243	61.029403	2.770082	b1	01	01	82	45	0f	
62	1,	249:	DTE	249	61.037003	0.001251	b1	01	01	82	45	0f	
63													
64	1,	255:	DTE	255	64.060170	3.016919	b1	01	01	82	45	0f	
65	1,	261:	DTE	261	64.067873	0.001251	b1	01	01	83	45	03	18
66													
67	1,	268:	DTE	268	66.483847	2.408473	b1	01	01	82	45	0f	
68	1,	274:	DTE	274	66.491551	0.001354	b1	01	01	82	45	0f	
69													
70	1,	280:	DTE	280	70.154717	3.656818	b1	01	01	83	45	0c	01
71													
72	1,	287:	DTE	287	72.411131	2.248918	b1	01	01	83	45	0c	01
73	1,	294:	DTE	294	72.613951	0.195228	b1	01	01	82	45	0e	
74													
75	1,	300:	DTE	300	75.173186	2.552820	b1	01	01	83	45	0d	01
76													
77	1,	307:	DTE	307	77.372154	2.191472	b1	01	01	83	45	0d	01
78	1,	314:	DTE	314	77.575196	0.195491	b1	01	01	82	45	0e	
79													
80	1,	320:	DTE	320	81.359591	3.778044	b1	01	01	83	45	19	01
81													
82	1,	327:	DTE	327	83.740669	2.373479	b1	01	01	83	45	19	00
83													
84	1,	334:	DTE	334	89.472985	5.724611	b1	01	01	83	45	1b	00
85													
86	1,	341:	DTE	341	93.283518	3.802835	b1	01	01	83	45	0a	01
87													
88	1,	348:	DTE	348	95.581693	2.290680	b1	01	01	83	45	0a	01
89	1,	355:	DTE	355	95.782598	0.193408	b1	01	01	82	45	0b	
90													
91	1,	361:	DTE	361	98.648913	2.859963	b1	01	01	83	45	09	01
92													
93	1,	368:	DTE	368	101.147779	2.491376	b1	01	01	83	45	09	01
94	1,	375:	DTE	375	101.347024	0.191645	b1	01	01	82	45	0b	
95													
96	1,	381:	DTE	381	104.081685	2.728421	b1	01	01	83	45	1a	01
97													
98	1,	388:	DTE	388	107.336795	3.247511	b1	01	01	83	45	1a	00
99													
100	1,	395:	DTE	395	112.485762	5.141369	b1	01	01	83	42	19	00
101													
102	1,	402:	DTE	402	114.922039	2.428786	b1	01	01	82	45	06	
103													

```
104      1,      408: DTE      408      118.070294      3.141905 b1 01 01 82 45 08
105
106      1,      414: DTE      414      121.051477      2.974847 b1 01 01 82 45 07
107
108      1,      420: DTE      420      124.465720      3.408005 b1 01 01 82 45 08
109
110      1,      426: DTE      426      129.178817      4.706747 b1 01 01 83 42 26 00
111
112      1,      433: DTE      433      135.049030      5.862708 b1 01 01 83 42 19 00
113
114 There were a total of          439 bytes transferred
115
116 There were a total of          0 DCE bytes transferred
117 The first DCE byte came in at 0.000000 seconds from the start of data collection
118 The last DCE byte was at 0.000000 seconds from the start of data collection
119
120 There were a total of          439 DTE bytes transferred
121 The first DTE byte came in at 0.000000 seconds from the start of data collection
122 The last DTE byte was at 135.056520 seconds from the start of data collection
123
```

1.9 Kalatel

This data was collected from a Dedicated Micro Systems Sprite 2 on 29MAY07.

1. Baud rate: 4800
2. Parity: None
3. Hello Message Length: Unknown due to the quantity of data sent.
4. Hello Message last few bytes: —
5. Is the protocol a Polling Protocol?: No
6. Name of the data capture file: 29MAY07S.txt
7. Special: Kalatel sends data continuously, which makes it difficult to find the start of each command. There are interpreted breakout of the data available.
8. Protocol Characteristics:
 - 8.1 Message Length(s): 3, 6, 9, 12,
 - 8.2 ISO Level 1: _____.
 - 8.3 Unique first byte: _____.
 - 8.4 Unique last byte: _____.
 - 8.5 Checksum: _____.
 - 8.6 Device address: _____.

1.9.1 s.out

```

1  $ Id: MakeSecs.l,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2  $Header: d:/Binder2/1stLooks/RCS/S.out,v 1.2 2007-05-30 08:08:27-07 Hamilton Exp Hamilton $
3  FTS capture buffer (5/29/2007 9:19:42 AM)
4  Event 1 (5/29/2007 9:16:31.465789 AM) through
5  Event 51,123 (5/29/2007 9:19:27.760681 AM)
6
7      1,      1: DTE      4      58.664291      0.000000 00
8      1,      2: DTE      5      58.666580      0.002289 80
9      1,      3: DTE      6      58.668872      0.002292 00
10     1,      4: DTE      7      58.671162      0.002290 00
11     1,      5: DTE      8      58.673456      0.002294 80
12     1,      6: DTE      9      58.675746      0.002290 00
13     1,      7: DTE     10      58.677872      0.002126 00
14     1,      8: DTE     11      58.680331      0.002459 80
15     1,      9: DTE     12      58.682621      0.002290 00
16     1,     10: DTE     13      58.684911      0.002290 00
17     1,     11: DTE     14      58.687205      0.002294 80
18     1,     12: DTE     15      58.689497      0.002292 00
19     1,     13: DTE     16      58.691788      0.002291 00
20
21     1, 51113: DTE 51116 176.278863      0.002117 80
22     1, 51114: DTE 51117 176.281159      0.002296 00
23     1, 51115: DTE 51118 176.283449      0.002290 00
24     1, 51116: DTE 51119 176.285739      0.002290 80
25     1, 51117: DTE 51120 176.288030      0.002291 00
26     1, 51118: DTE 51121 176.290321      0.002291 00
27     1, 51119: DTE 51122 176.292613      0.002292 80

```

¹¹\$Header: d:/Binder2/1stLooks/RCS/Kalatel.inc,v 1.1 2007-06-05 08:29:49-07 Hamilton Exp Hamilton \$

```
28      1,  51120: DTE  51123  176.294892  0.002279 00
29
30 There were a total of    51120 bytes transferred
31
32 There were a total of          0 DCE bytes transferred
33 The first DCE byte came in at 0.000000 seconds from the start of data collection
34 The last DCE byte was at 0.000000 seconds from the start of data collection
35
36 There were a total of    51120 DTE bytes transferred
37 The first DTE byte came in at 58.664291 seconds from the start of data collection
38 The last DTE byte was at 176.294892 seconds from the start of data collection
39
```

1.10 Mark Mercer

This data was collected from a Dedicated Micro Systems Sprite 2 on 29MAY07.

1. Baud rate: 9600
2. Parity: None
3. Hello Message Length: 26
4. Hello Message last few bytes: 0x31 0x3A 0x5D
5. Is the protocol a Polling Protocol?: No
6. Name of the data capture file: 29MAY07T.txt
7. Protocol Characteristics:
 - 7.1 Message Length(s): 6, 8, 11
 - 7.2 ISO Level 1: _____.
 - 7.3 Unique first byte: 5B
 - 7.4 Unique last byte: 5D
 - 7.5 Checksum: None
 - 7.6 Device address: Bytes 3, 4
 - 7.7 ASCII for data capture line 111:

```
[ @ 0 1 T R 2 5 U 2 5 ]
5B 40 30 31 54 52 32 35 55 32 35 5D
```

1.10.1 t.out

```
1 $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2 $Header: d:/Binder2/1stLooks/RCS/T.out,v 1.3 2007-05-31 08:02:24-07 Hamilton Exp Hamilton $
3 FTS capture buffer (5/29/2007 9:33:52 AM)
4 Event 1 (5/29/2007 9:29:51.403350 AM) through
5 Event 781 (5/29/2007 9:33:32.288320 AM)
6
7 1, 1: DTE 1 0.000000 0.000000 5b 40 30 31 2a 5d
8 1, 7: DTE 7 0.078739 0.073018 5b 40 30 31 58 38 5d
9 1, 15: DTE 15 0.129869 0.043121 5b 40 30 31 2a 5d
10 1, 21: DTE 21 0.240066 0.104367 5b 40 30 31 2a 5d
11
12 1, 27: DTE 27 104.133340 103.887451 5b 40 30 31 2a 5d
13 1, 33: DTE 33 104.362571 0.223403 5b 40 30 31 2a 5d
14 1, 39: DTE 39 104.389026 0.020625 5b 40 30 31 2a 5d
15 1, 45: DTE 45 104.415268 0.020409 5b 40 30 31 54 55 32 35 5d
16
17 1, 54: DTE 54 107.494472 3.070037 5b 40 30 31 54 55 32 35 5d
18 1, 63: DTE 63 107.725162 0.221536 5b 40 30 31 2a 5d
19 1, 69: DTE 69 107.749942 0.019048 5b 40 30 31 2a 5d
20
21 1, 75: DTE 75 110.265902 2.510127 5b 40 30 31 2a 5d
22 1, 81: DTE 81 110.493883 0.222151 5b 40 30 31 2a 5d
23 1, 87: DTE 87 110.525539 0.025931 5b 40 30 31 2a 5d
24 1, 93: DTE 93 110.549393 0.018124 5b 40 30 31 54 55 32 35 5d
25 1, 102: DTE 102 110.579389 0.020724 5b 40 30 31 54 55 32 35 5d
```

¹²\$Header: d:/Binder2/1stLooks/RCS/MarkMerc.inc,v 1.1 2007-06-05 08:29:57-07 Hamilton Exp Hamilton \$

26	1,	111:	DTE	111	110.604381	0.015827	5b	40	30	31	54	52	32	35	55	32	35	5d
27																		
28	1,	123:	DTE	123	113.366447	2.749255	5b	40	30	31	54	52	32	35	55	32	35	5d
29	1,	135:	DTE	135	113.594846	0.215734	5b	40	30	31	2a	5d						
30	1,	141:	DTE	141	113.620674	0.019999	5b	40	30	31	2a	5d						
31																		
32	1,	147:	DTE	147	115.402580	1.776079	5b	40	30	31	2a	5d						
33	1,	153:	DTE	153	115.628061	0.219653	5b	40	30	31	2a	5d						
34	1,	159:	DTE	159	115.659516	0.025522	5b	40	30	31	2a	5d						
35	1,	165:	DTE	165	115.682738	0.017397	5b	40	30	31	54	52	32	35	5d			
36																		
37	1,	174:	DTE	174	118.211712	2.519809	5b	40	30	31	54	52	32	35	5d			
38	1,	183:	DTE	183	118.437299	0.216425	5b	40	30	31	2a	5d						
39	1,	189:	DTE	189	118.497288	0.054162	5b	40	30	31	2a	5d						
40																		
41	1,	195:	DTE	195	121.078443	2.575324	5b	40	30	31	2a	5d						
42	1,	201:	DTE	201	121.309340	0.225173	5b	40	30	31	2a	5d						
43	1,	207:	DTE	207	121.337455	0.022284	5b	40	30	31	2a	5d						
44	1,	213:	DTE	213	121.362456	0.019169	5b	40	30	31	54	44	32	35	5d			
45	1,	222:	DTE	222	121.396305	0.024579	5b	40	30	31	54	44	32	35	5d			
46	1,	231:	DTE	231	121.425359	0.019889	5b	40	30	31	54	52	32	35	44	32	35	5d
47																		
48	1,	243:	DTE	243	124.102750	2.664474	5b	40	30	31	54	52	32	35	44	32	35	5d
49	1,	255:	DTE	255	124.330317	0.214972	5b	40	30	31	2a	5d						
50	1,	261:	DTE	261	124.352390	0.016348	5b	40	30	31	2a	5d						
51																		
52	1,	267:	DTE	267	126.491220	2.132998	5b	40	30	31	2a	5d						
53	1,	273:	DTE	273	126.729931	0.232986	5b	40	30	31	2a	5d						
54	1,	279:	DTE	279	126.763879	0.028224	5b	40	30	31	2a	5d						
55	1,	285:	DTE	285	126.786484	0.016875	5b	40	30	31	54	44	32	35	5d			
56																		
57	1,	294:	DTE	294	129.447521	2.651872	5b	40	30	31	54	44	32	35	5d			
58	1,	303:	DTE	303	129.680294	0.223513	5b	40	30	31	2a	5d						
59	1,	309:	DTE	309	129.706534	0.020514	5b	40	30	31	2a	5d						
60																		
61	1,	315:	DTE	315	132.376947	2.664580	5b	40	30	31	2a	5d						
62	1,	321:	DTE	321	132.601283	0.218507	5b	40	30	31	2a	5d						
63	1,	327:	DTE	327	132.628780	0.021835	5b	40	30	31	2a	5d						
64	1,	333:	DTE	333	132.651272	0.016772	5b	40	30	31	54	44	32	35	5d			
65	1,	342:	DTE	342	132.680223	0.019472	5b	40	30	31	54	44	32	35	5d			
66	1,	351:	DTE	351	132.706473	0.017141	5b	40	30	31	54	4c	32	35	44	32	35	5d
67																		
68	1,	363:	DTE	363	135.848686	3.129303	5b	40	30	31	54	4c	32	35	44	32	35	5d
69	1,	375:	DTE	375	136.072499	0.211057	5b	40	30	31	2a	5d						
70	1,	381:	DTE	381	136.097078	0.018854	5b	40	30	31	2a	5d						
71																		
72	1,	387:	DTE	387	139.231059	3.128259	5b	40	30	31	2a	5d						
73	1,	393:	DTE	393	139.458206	0.221422	5b	40	30	31	2a	5d						
74	1,	399:	DTE	399	139.494759	0.030720	5b	40	30	31	2a	5d						
75	1,	405:	DTE	405	139.517779	0.017291	5b	40	30	31	54	4c	32	35	5d			
76																		
77	1,	414:	DTE	414	142.298591	2.771443	5b	40	30	31	54	4c	32	35	5d			
78	1,	423:	DTE	423	142.527614	0.219930	5b	40	30	31	2a	5d						
79	1,	429:	DTE	429	142.558331	0.024994	5b	40	30	31	2a	5d						
80																		
81	1,	435:	DTE	435	145.031174	2.467009	5b	40	30	31	2a	5d						
82	1,	441:	DTE	441	145.260614	0.223722	5b	40	30	31	2a	5d						
83	1,	447:	DTE	447	145.292066	0.025622	5b	40	30	31	2a	5d						
84	1,	453:	DTE	453	145.317314	0.019418	5b	40	30	31	54	55	32	35	5d			
85	1,	462:	DTE	462	145.342575	0.015937	5b	40	30	31	54	55	32	35	5d			
86	1,	471:	DTE	471	145.379131	0.027181	5b	40	30	31	54	4c	32	35	55	32	35	5d
87																		
88	1,	483:	DTE	483	148.110574	2.718631	5b	40	30	31	54	4c	32	35	55	32	35	5d
89	1,	495:	DTE	495	148.332832	0.209345	5b	40	30	31	2a	5d						
90	1,	501:	DTE	501	148.358135	0.019474	5b	40	30	31	2a	5d						
91																		
92	1,	507:	DTE	507	151.164876	2.801012	5b	40	30	31	2a	5d						
93	1,	513:	DTE	513	151.395675	0.225074	5b	40	30	31	2a	5d						
94	1,	519:	DTE	519	151.428063	0.026565	5b	40	30	31	2a	5d						
95	1,	525:	DTE	525	151.458368	0.024531	5b	40	30	31	54	55	32	35	5d			
96																		
97	1,	534:	DTE	534	153.527831	2.060193	5b	40	30	31	54	55	32	35	5d			

```

98      1,      543: DTE      543      153.751548      0.214406 5b 40 30 31 2a 5d
99      1,      549: DTE      549      153.776642      0.019432 5b 40 30 31 2a 5d
100
101     1,      555: DTE      555      156.982388      3.199913 5b 40 30 31 2a 5d
102     1,      561: DTE      561      157.207452      0.219243 5b 40 30 31 54 49 31 35 5d
103
104     1,      570: DTE      570      159.553434      2.336869 5b 40 30 31 54 49 31 35 5d
105     1,      579: DTE      579      159.796830      0.234241 5b 40 30 31 2a 5d
106
107     1,      585: DTE      585      162.056884      2.254333 5b 40 30 31 2a 5d
108     1,      591: DTE      591      162.296324      0.233612 5b 40 30 31 54 4f 31 35 5d
109
110     1,      600: DTE      600      165.116923      2.811437 5b 40 30 31 54 4f 31 35 5d
111     1,      609: DTE      609      165.340882      0.214701 5b 40 30 31 2a 5d
112
113     1,      615: DTE      615      168.426075      3.079363 5b 40 30 31 2a 5d
114
115     1,      621: DTE      621      171.168969      2.737170 5b 40 30 31 2a 5d
116
117     1,      627: DTE      627      178.846910      7.672113 5b 40 30 31 2a 5d
118     1,      633: DTE      633      179.069268      0.216535 5b 40 30 31 58 32 5d
119
120     1,      640: DTE      640      181.708529      2.632287 5b 40 30 31 2a 5d
121     1,      646: DTE      646      181.934642      0.220283 5b 40 30 31 54 4e 5d
122
123     1,      653: DTE      653      184.181262      2.239644 5b 40 30 31 54 4e 5d
124     1,      660: DTE      660      184.402892      0.214758 5b 40 30 31 2a 5d
125
126     1,      666: DTE      666      186.126263      1.717544 5b 40 30 31 2a 5d
127     1,      672: DTE      672      186.351438      0.219346 5b 40 30 31 54 46 5d
128
129     1,      679: DTE      679      189.029654      2.671351 5b 40 30 31 54 46 5d
130     1,      686: DTE      686      189.251079      0.214450 5b 40 30 31 2a 5d
131
132     1,      692: DTE      692      191.935960      2.679058 5b 40 30 31 2a 5d
133
134     1,      698: DTE      698      194.068114      2.126324 5b 40 30 31 2a 5d
135
136     1,      704: DTE      704      200.246505      6.172457 5b 40 30 31 2a 5d
137
138     1,      710: DTE      710      202.580302      2.327968 5b 40 30 31 2a 5d
139     1,      716: DTE      716      202.838275      0.252147 5b 40 30 31 54 45 5d
140
141     1,      723: DTE      723      205.772910      2.927661 5b 40 30 31 54 45 5d
142     1,      730: DTE      730      205.999230      0.219347 5b 40 30 31 2a 5d
143
144     1,      736: DTE      736      207.620324      1.615370 5b 40 30 31 2a 5d
145     1,      742: DTE      742      207.872992      0.246945 5b 40 30 31 54 43 5d
146
147     1,      749: DTE      749      210.791170      2.911306 5b 40 30 31 54 43 5d
148     1,      756: DTE      756      211.028429      0.230389 5b 40 30 31 2a 5d
149
150     1,      762: DTE      762      216.042313      5.008062 5b 40 30 31 2a 5d
151     1,      768: DTE      768      216.297475      0.249500 5b 40 30 31 58 50 31 5d
152
153     1,      776: DTE      776      220.879141      4.573549 5b 40 30 31 2a 5d
154
155 There were a total of          781 bytes transferred
156
157 There were a total of          0 DCE bytes transferred
158 The first DCE byte came in at 0.000000 seconds from the start of data collection
159 The last DCE byte was at 0.000000 seconds from the start of data collection
160
161 There were a total of          781 DTE bytes transferred
162 The first DTE byte came in at 0.000000 seconds from the start of data collection
163 The last DTE byte was at 220.884970 seconds from the start of data collection
164

```

1.11 Panasonic-WV-CS600

This data was collected from a Dedicated Micro Systems Sprite 2 on 29MAY07.

1. Baud rate: 19200
2. Parity: None
3. Hello Message Length: 172
4. Hello Message last few bytes: 0x30 0x34 0x03
5. Is the protocol a Polling Protocol?: No
6. Name of the data capture file: 29MAY07V.txt
7. Protocol Characteristics:
 - 7.1 Message Length(s): _____, _____, _____, _____, _____.
 - 7.2 ISO Level 1: RS-485, 2 and 4 wire versions.
 - 7.3 Unique first byte: 0x02
 - 7.4 Unique last byte: 0x03
 - 7.5 Checksum: No
 - 7.6 Device address: Bytes 4, 5
8. When this data capture was done, the DCE/DTE lines were reversed from the “normal” connection.
9. A translation of the raw file is included after the main capture file. The translation software only translates type “GC7” commands. It ignores all other command types.
10. A TXB-P485 is in development to support this protocol.

1.11.1 u.out

```

1  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2  $Header: d:/Binder2/1stLooks/RCS/U.out,v 1.3 2007-05-31 08:02:24-07 Hamilton Exp Hamilton $
3  FTS capture buffer (5/29/2007 9:40:03 AM)
4  Event 1 (5/29/2007 9:34:08.768741 AM) through
5  Event 5,016 (5/29/2007 9:39:33.743755 AM)
6
7      1,      1: DTE      3  152.796212  0.000000 02 41 44 5a 5a 3a 52 4f 4e 3a 37 03
8      1,     13: DTE     15  152.844483  0.041808 02 41 44 30 31 3b 47 43 46 3a 32 30 32 31 33 36 34 3a 32 30 32 32
30 30 30 03
9      1,     39: DTE     41  152.906507  0.046923 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
10     1,     57: DTE     59  152.945351  0.028590 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 34 03
11     1,     75: DTE     77  152.966754  0.010990 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 34 39 31 03
12     1,     93: DTE     95  152.993936  0.016874 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 33 30 31 03
13     1,    111: DTE    113  153.102408  0.098212 02 41 44 30 31 3b 47 43 46 3a 32 30 32 31 33 36 34 3a 32 30 32 32
30 30 30 03
14     1,    137: DTE    139  153.129748  0.012031 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
15     1,    155: DTE    157  153.151517  0.011354 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 34 03
16
17     1,    173: DTE    175  188.048539  34.886661 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
18     1,    191: DTE    193  188.070824  0.011976 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
19     1,    209: DTE    211  188.296259  0.215005 02 41 44 30 31 3b 47 43 46 3a 32 30 32 31 33 36 34 3a 32 30 32 32
30 30 30 03

```

¹³\$Header: d:/Binder2/1stLooks/RCS/Pana600.inc,v 1.5 2007-06-08 09:37:01-07 Hamilton Exp Hamilton \$

20	1,	235:	DTE	237	188.315264	0.003844	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
21	1,	253:	DTE	255	188.335780	0.009996	02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 34 03
22	1,	271:	DTE	273	188.355674	0.009528	02 41 44 30 31 3b 47 43 46 3a 32 30 32 31 33 36 34 3a 32 30 32 32
30 34 30 03							
23	1,	297:	DTE	299	188.375723	0.004999	02 41 44 30 31 3b 47 43 46 3a 32 30 32 31 33 36 41 3a 32 30 32 32
30 34 30 03							
24							
25	1,	323:	DTE	325	189.391814	1.001091	02 41 44 30 31 3b 47 43 46 3a 32 30 32 31 33 36 41 3a 32 30 32 32
30 34 30 03							
26							
27	1,	349:	DTE	351	190.407331	1.000262	02 41 44 30 31 3b 47 43 46 3a 32 30 32 31 33 36 41 3a 32 30 32 32
30 34 30 03							
28							
29	1,	375:	DTE	377	191.422845	1.000261	02 41 44 30 31 3b 47 43 46 3a 32 30 32 31 33 36 41 3a 32 30 32 32
30 34 30 03							
30	1,	401:	DTE	403	192.240840	0.802742	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
31	1,	419:	DTE	421	192.262550	0.011198	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
32	1,	437:	DTE	439	192.507620	0.234974	02 41 44 30 31 3b 47 43 46 3a 32 30 32 31 33 36 34 3a 32 30 32 32
30 34 30 03							
33	1,	463:	DTE	465	192.530841	0.008229	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
34	1,	481:	DTE	483	192.552294	0.010623	02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 34 03
35	1,	499:	DTE	501	192.572810	0.010152	02 41 44 30 31 3b 47 43 46 3a 32 30 32 31 33 36 34 3a 32 30 32 32
30 34 30 03							
36	1,	525:	DTE	527	192.592342	0.004609	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
37	1,	543:	DTE	545	192.613841	0.011190	02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 34 03
38							
39	1,	561:	DTE	563	195.450379	2.825857	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
40	1,	579:	DTE	581	195.472348	0.011404	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
41	1,	597:	DTE	599	195.697731	0.215072	02 41 44 30 31 3b 47 43 46 3a 32 30 32 31 33 36 34 3a 32 30 32 32
30 34 30 03							
42	1,	623:	DTE	625	195.730433	0.017134	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
43	1,	641:	DTE	643	195.747668	0.006873	02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 34 03
44	1,	659:	DTE	661	195.768656	0.010626	02 41 44 30 31 3b 47 43 46 3a 32 30 32 31 33 36 34 3a 32 30 32 32
30 34 30 03							
45	1,	685:	DTE	687	195.794330	0.010574	02 41 44 30 31 3b 47 43 46 3a 32 30 32 31 33 36 41 3a 32 30 32 32
30 34 30 03							
46	1,	711:	DTE	713	195.830573	0.021195	02 41 44 30 31 3b 47 43 46 3a 32 30 32 31 33 36 41 3a 32 30 32 32
34 34 30 03							
47	1,	737:	DTE	739	195.848590	0.002917	02 41 44 30 31 3b 47 43 46 3a 32 30 32 31 33 36 42 3a 32 30 32 32
34 34 30 03							
48							
49	1,	763:	DTE	765	196.864525	1.000729	02 41 44 30 31 3b 47 43 46 3a 32 30 32 31 33 36 42 3a 32 30 32 32
34 34 30 03							
50	1,	789:	DTE	791	197.848326	0.968600	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
51	1,	807:	DTE	809	197.866497	0.007866	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
52	1,	825:	DTE	827	198.096569	0.219712	02 41 44 30 31 3b 47 43 46 3a 32 30 32 31 33 36 34 3a 32 30 32 32
34 34 30 03							
53	1,	851:	DTE	853	198.116718	0.004947	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
54	1,	869:	DTE	871	198.141820	0.014637	02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 34 03
55	1,	887:	DTE	889	198.164884	0.012653	02 41 44 30 31 3b 47 43 46 3a 32 30 32 31 33 36 34 3a 32 30 32 32
34 34 30 03							
56	1,	913:	DTE	915	198.197017	0.016768	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
57	1,	931:	DTE	933	198.216858	0.009636	02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 34 03
58							
59	1,	949:	DTE	951	200.603720	2.376449	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
60	1,	967:	DTE	969	200.622977	0.008797	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
61	1,	985:	DTE	987	200.846962	0.213680	02 41 44 30 31 3b 47 43 46 3a 32 30 32 31 33 36 34 3a 32 30 32 32
34 34 30 03							
62	1,	1011:	DTE	1013	200.866642	0.004479	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
63	1,	1029:	DTE	1031	200.890805	0.014115	02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 34 03
64	1,	1047:	DTE	1049	200.911791	0.010625	02 41 44 30 31 3b 47 43 46 3a 32 30 32 31 33 36 34 3a 32 30 32 32
34 34 30 03							
65	1,	1073:	DTE	1075	200.950276	0.023488	02 41 44 30 31 3b 47 43 46 3a 32 30 32 31 33 36 43 3a 32 30 32 32
34 34 30 03							
66							
67	1,	1099:	DTE	1101	201.966001	1.000677	02 41 44 30 31 3b 47 43 46 3a 32 30 32 31 33 36 43 3a 32 30 32 32
34 34 30 03							
68							
69	1,	1125:	DTE	1127	202.981515	1.000275	02 41 44 30 31 3b 47 43 46 3a 32 30 32 31 33 36 43 3a 32 30 32 32
34 34 30 03							
70							

71	1,	1151:	DTE	1153	203.997032	1.000261	02	41	44	30	31	3b	47	43	46	3a	32	30	32	31	33	36	43	3a	32	30	32	32
34	34	30	03																									
72	1,	1177:	DTE	1179	204.182576	0.170343	02	41	44	30	31	3b	47	43	37	3a	32	30	32	31	32	32	34	03				
73	1,	1195:	DTE	1197	204.203346	0.010413	02	41	44	30	31	3b	47	43	37	3a	32	30	32	31	32	32	34	03				
74	1,	1213:	DTE	1215	204.427584	0.213822	02	41	44	30	31	3b	47	43	46	3a	32	30	32	31	33	36	34	3a	32	30	32	32
34	34	30	03																									
75	1,	1239:	DTE	1241	204.447476	0.004844	02	41	44	30	31	3b	47	43	37	3a	32	30	32	31	32	32	34	03				
76	1,	1257:	DTE	1259	204.506843	0.049213	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03				
77	1,	1275:	DTE	1277	204.532877	0.015779	02	41	44	30	31	3b	47	43	46	3a	32	30	32	31	33	36	34	3a	32	30	32	32
34	34	30	03																									
78	1,	1301:	DTE	1303	204.552717	0.004636	02	41	44	30	31	3b	47	43	37	3a	32	30	32	31	32	32	34	03				
79	1,	1319:	DTE	1321	204.572610	0.009477	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03				
80																												
81	1,	1337:	DTE	1339	206.876829	2.293855	02	41	44	30	31	3b	47	43	37	3a	32	30	32	31	32	32	34	03				
82	1,	1355:	DTE	1357	206.899210	0.012125	02	41	44	30	31	3b	47	43	37	3a	32	30	32	31	32	32	34	03				
83	1,	1373:	DTE	1375	207.117110	0.207425	02	41	44	30	31	3b	47	43	46	3a	32	30	32	31	33	36	34	3a	32	30	32	32
34	34	30	03																									
84	1,	1399:	DTE	1401	207.141990	0.009788	02	41	44	30	31	3b	47	43	37	3a	32	30	32	31	32	32	34	03				
85	1,	1417:	DTE	1419	207.164278	0.012026	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03				
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34	34	30	03																									
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34	34	30	03																									
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125	1,	2149:	DTE	2151	218.786957	0.210701	02 41 44 30 31 3b 47 43 46 3a 32 30 32 31 33 36 34 3a 32 30 32 32
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34 34 30 03							
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205	1,	3647:	DTE	3649	240.953875	0.006606	02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 34 03
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265
266 1, 4421: DTE 4423 287.263188 3.266255 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
267 1, 4439: DTE 4441 287.286355 0.013069 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
268 1, 4457: DTE 4459 287.506741 0.210021 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 31 36 32 03
269
270 1, 4475: DTE 4477 289.893859 2.376757 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
271 1, 4493: DTE 4495 289.916038 0.011768 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
272 1, 4511: DTE 4513 290.142986 0.216739 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 31 36 33 03
273
274 1, 4529: DTE 4531 296.389851 6.236453 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
275 1, 4547: DTE 4549 296.412137 0.011981 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
276 1, 4565: DTE 4567 296.638043 0.215326 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 33 30 31 03
277
278 1, 4583: DTE 4585 301.924591 5.276296 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
279 1, 4601: DTE 4603 301.945729 0.010822 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
280 1, 4619: DTE 4621 302.185590 0.229444 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 32 03
281
282 1, 4637: DTE 4639 303.196690 1.000844 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 32 03
283
284 1, 4655: DTE 4657 304.207194 1.000385 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 32 03
285
286 1, 4673: DTE 4675 305.217658 1.000208 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 32 03
287 1, 4691: DTE 4693 305.921712 0.693748 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
288 1, 4709: DTE 4711 305.945298 0.013174 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
289 1, 4727: DTE 4729 306.162973 0.207519 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 34 03
290
291 1, 4745: DTE 4747 308.884946 2.711715 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
292 1, 4763: DTE 4765 308.910919 0.015793 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
293 1, 4781: DTE 4783 309.144320 0.223145 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 33 03
294
295 1, 4799: DTE 4801 310.155100 1.000366 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 33 03
296
297 1, 4817: DTE 4819 311.165612 1.000261 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 33 03
298
299 1, 4835: DTE 4837 312.176078 1.000157 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 33 03
300 1, 4853: DTE 4855 312.556223 0.369892 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
301 1, 4871: DTE 4873 312.580237 0.013552 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
302 1, 4889: DTE 4891 312.807174 0.216870 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 34 03
303
304 1, 4907: DTE 4909 318.054874 5.237394 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
305 1, 4925: DTE 4927 318.080233 0.014999 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
306 1, 4943: DTE 4945 318.313687 0.223300 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 34 39 31 03
307

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308      1,      4961: DTE  4963   324.725578   6.401688 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
309      1,      4979: DTE  4981   324.746665   0.010727 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
310      1,      4997: DTE  4999   324.964861   0.207885 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 33 30 31 03
311
312 There were a total of      5014 bytes transferred
313
314 There were a total of          0 DCE bytes transferred
315 The first DCE byte came in at 0.000000 seconds from the start of data collection
316 The last DCE byte was at 0.000000 seconds from the start of data collection
317
318 There were a total of      5014 DTE bytes transferred
319 The first DTE byte came in at 152.796212 seconds from the start of data collection
320 The last DTE byte was at 324.975014 seconds from the start of data collection
321
```

1.11.2 u.bl

```

1 $Header: d:/Binder2/1stLooks/RCS/U.bl,v 1.3 2007-06-08 09:32:13-07 Hamilton Exp Hamilton $
2
3 Hello
4 1: DCE 0.000000 02 41 44 5a 5a 3a 52 4f 4e 3a 37 03: ADZZ:RON:7: All call, disable replies, alarms and ACKs
5 2: DCE 0.048271 AD01;GCF:2021364:2022000: ----- Pan stop(v), Tilt stop(v)
6 3: DCE 0.110295 AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
7 4: DCE 0.149139 AD01;GC7:0021004: Iris Stop
8 5: DCE 0.170542 AD01;GC7:2021491: Patrol Stop
9 6: DCE 0.197724 AD01;GC7:2021301: Auto Pan Off
10 7: DCE 0.306196 AD01;GCF:2021364:2022000: ----- Pan stop(v), Tilt stop(v)
11 8: DCE 0.333536 AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
12 9: DCE 0.355305 AD01;GC7:0021004: Iris Stop
13
14 Up
15 10: DCE 35.252327 AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
16 11: DCE 35.274612 AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
17 12: DCE 35.500047 AD01;GCF:2021364:2022000: ----- Pan stop(v), Tilt stop(v)
18 13: DCE 35.519052 AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
19 14: DCE 35.539568 AD01;GC7:0021004: Iris Stop
20 15: DCE 35.559462 AD01;GCF:2021364:2022040: ----- Pan stop(v), Tilt stop(v), Tilt 4
21 16: DCE 35.579511 AD01;GCF:202136A:2022040: ----- Tilt up(v), Tilt 4
22 17: DCE 36.595602 AD01;GCF:202136A:2022040: ----- Tilt up(v), Tilt 4
23 18: DCE 37.611119 AD01;GCF:202136A:2022040: ----- Tilt up(v), Tilt 4
24 19: DCE 38.626633 AD01;GCF:202136A:2022040: ----- Tilt up(v), Tilt 4
25 20: DCE 39.444628 AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
26 21: DCE 39.466338 AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
27 22: DCE 39.711408 AD01;GCF:2021364:2022040: ----- Pan stop(v), Tilt stop(v), Tilt 4
28 23: DCE 39.734629 AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
29 24: DCE 39.756082 AD01;GC7:0021004: Iris Stop
30 25: DCE 39.776598 AD01;GCF:2021364:2022040: ----- Pan stop(v), Tilt stop(v), Tilt 4
31 26: DCE 39.796130 AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
32 27: DCE 39.817629 AD01;GC7:0021004: Iris Stop
33
34 Up, Right
35 28: DCE 42.654167 AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
36 29: DCE 42.676136 AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
37 30: DCE 42.901519 AD01;GCF:2021364:2022040: ----- Pan stop(v), Tilt stop(v), Tilt 4
38 31: DCE 42.934221 AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
39 32: DCE 42.951456 AD01;GC7:0021004: Iris Stop
40 33: DCE 42.972444 AD01;GCF:2021364:2022040: ----- Pan stop(v), Tilt stop(v), Tilt 4
41 34: DCE 42.998118 AD01;GCF:202136A:2022040: ----- Tilt up(v), Tilt 4
42 35: DCE 43.034361 AD01;GCF:202136A:2022440: ----- Tilt up(v), Tilt 4
43 36: DCE 43.052378 AD01;GCF:202136B:2022440: ----- Pan right(v), Tilt up(v), Pan 4, Tilt 4
44 37: DCE 44.068313 AD01;GCF:202136B:2022440: ----- Pan right(v), Tilt up(v), Pan 4, Tilt 4
45 38: DCE 45.052114 AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
46 39: DCE 45.070285 AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
47 40: DCE 45.300357 AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
48 41: DCE 45.320506 AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
49 42: DCE 45.345608 AD01;GC7:0021004: Iris Stop
50 43: DCE 45.368672 AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
51 44: DCE 45.400805 AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
52 45: DCE 45.420646 AD01;GC7:0021004: Iris Stop
53
54 Right
55 46: DCE 47.807508 AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
56 47: DCE 47.826765 AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
57 48: DCE 48.050750 AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
58 49: DCE 48.070430 AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
59 50: DCE 48.094593 AD01;GC7:0021004: Iris Stop
60 51: DCE 48.115579 AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
61 52: DCE 48.154064 AD01;GCF:202136C:2022440: ----- Pan right(v), Pan 4, Tilt 4
62 53: DCE 49.169789 AD01;GCF:202136C:2022440: ----- Pan right(v), Pan 4, Tilt 4
63 54: DCE 50.185303 AD01;GCF:202136C:2022440: ----- Pan right(v), Pan 4, Tilt 4
64 55: DCE 51.200820 AD01;GCF:202136C:2022440: ----- Pan right(v), Pan 4, Tilt 4
65 56: DCE 51.386364 AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
66 57: DCE 51.407134 AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
67 58: DCE 51.631372 AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
68 59: DCE 51.651264 AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)

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69	60: DCE	51.710631	AD01;GC7:0021004: Iris Stop
70	61: DCE	51.736665	AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
71	62: DCE	51.756505	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
72	63: DCE	51.776398	AD01;GC7:0021004: Iris Stop
73			
74	Right, Down		
75	64: DCE	54.080617	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
76	65: DCE	54.102998	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
77	66: DCE	54.320898	AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
78	67: DCE	54.345778	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
79	68: DCE	54.368066	AD01;GC7:0021004: Iris Stop
80	69: DCE	54.386658	AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
81	70: DCE	54.407071	AD01;GCF:202136E:2022440: ----- Tilt down(v), Pan 4, Tilt 4
82	71: DCE	54.436858	AD01;GCF:202136E:2022440: ----- Tilt down(v), Pan 4, Tilt 4
83	72: DCE	54.456283	AD01;GCF:202136D:2022440: ----- Pan right(v), Tilt down(v), Pan 4, Tilt 4
84	73: DCE	55.471905	AD01;GCF:202136D:2022440: ----- Pan right(v), Tilt down(v), Pan 4, Tilt 4
85	74: DCE	56.487367	AD01;GCF:202136D:2022440: ----- Pan right(v), Tilt down(v), Pan 4, Tilt 4
86	75: DCE	57.421126	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
87	76: DCE	57.443098	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
88	77: DCE	57.662388	AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
89	78: DCE	57.686340	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
90	79: DCE	57.706337	AD01;GC7:0021004: Iris Stop
91	80: DCE	57.736435	AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
92	81: DCE	57.756483	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
93	82: DCE	57.776793	AD01;GC7:0021004: Iris Stop
94			
95	Down		
96	83: DCE	60.165789	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
97	84: DCE	60.185522	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
98	85: DCE	60.407207	AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
99	86: DCE	60.426003	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
100	87: DCE	60.445843	AD01;GC7:0021004: Iris Stop
101	88: DCE	60.470685	AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
102	89: DCE	60.491827	AD01;GCF:202136E:2022440: ----- Tilt down(v), Pan 4, Tilt 4
103	90: DCE	61.507867	AD01;GCF:202136E:2022440: ----- Tilt down(v), Pan 4, Tilt 4
104	91: DCE	62.523331	AD01;GCF:202136E:2022440: ----- Tilt down(v), Pan 4, Tilt 4
105	92: DCE	63.278262	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
106	93: DCE	63.304188	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
107	94: DCE	63.528481	AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
108	95: DCE	63.546389	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
109	96: DCE	63.570449	AD01;GC7:0021004: Iris Stop
110	97: DCE	63.605288	AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
111	98: DCE	63.636157	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
112	99: DCE	63.656322	AD01;GC7:0021004: Iris Stop
113			
114	Left, Down		
115	100: DCE	65.741201	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
116	101: DCE	65.769617	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
117	102: DCE	65.990745	AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
118	103: DCE	66.015630	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
119	104: DCE	66.035523	AD01;GC7:0021004: Iris Stop
120	105: DCE	66.055624	AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
121	106: DCE	66.076661	AD01;GCF:202136E:2022440: ----- Tilt down(v), Pan 4, Tilt 4
122	107: DCE	66.103743	AD01;GCF:202136E:2022440: ----- Tilt down(v), Pan 4, Tilt 4
123	108: DCE	66.136654	AD01;GCF:202136F:2022440: ----- Pan left(v), Tilt down(v), Pan 4, Tilt 4
124	109: DCE	67.152644	AD01;GCF:202136F:2022440: ----- Pan left(v), Tilt down(v), Pan 4, Tilt 4
125	110: DCE	68.168105	AD01;GCF:202136F:2022440: ----- Pan left(v), Tilt down(v), Pan 4, Tilt 4
126	111: DCE	68.200801	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
127	112: DCE	68.218819	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
128	113: DCE	68.444724	AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
129	114: DCE	68.472748	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
130	115: DCE	68.503930	AD01;GC7:0021004: Iris Stop
131	116: DCE	68.529446	AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
132	117: DCE	68.549548	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
133	118: DCE	68.575118	AD01;GC7:0021004: Iris Stop
134			
135	Left		
136	119: DCE	71.867522	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
137	120: DCE	71.889377	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
138	121: DCE	72.110703	AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
139	122: DCE	72.138610	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
140	123: DCE	72.155949	AD01;GC7:0021004: Iris Stop

141	124: DCE	72.176571	AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
142	125: DCE	72.198600	AD01;GCF:2021368:2022440: ----- Pan left(v), Tilt up(v), Pan 4, Tilt 4
143	126: DCE	73.214640	AD01;GCF:2021368:2022440: ----- Pan left(v), Tilt up(v), Pan 4, Tilt 4
144	127: DCE	74.231051	AD01;GCF:2021368:2022440: ----- Pan left(v), Tilt up(v), Pan 4, Tilt 4
145	128: DCE	74.892017	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
146	129: DCE	74.910770	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
147	130: DCE	75.141467	AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
148	131: DCE	75.169324	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
149	132: DCE	75.190519	AD01;GC7:0021004: Iris Stop
150	133: DCE	75.211818	AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
151	134: DCE	75.242228	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
152			
153	Left, Up		
154	135: DCE	75.272018	AD01;GC7:0021004: Iris Stop
155	136: DCE	78.277784	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
156	137: DCE	78.305437	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
157	138: DCE	78.526497	AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
158	139: DCE	78.551180	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
159	140: DCE	78.574040	AD01;GC7:0021004: Iris Stop
160	141: DCE	78.591848	AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
161	142: DCE	78.612575	AD01;GCF:202136A:2022440: ----- Tilt up(v), Pan 4, Tilt 4
162	143: DCE	78.640120	AD01;GCF:202136A:2022440: ----- Tilt up(v), Pan 4, Tilt 4
163	144: DCE	78.673607	AD01;GCF:2021369:2022440: ----- Pan left(v), Tilt up(v), Pan 4, Tilt 4
164	145: DCE	79.689750	AD01;GCF:2021369:2022440: ----- Pan left(v), Tilt up(v), Pan 4, Tilt 4
165	146: DCE	80.705264	AD01;GCF:2021369:2022440: ----- Pan left(v), Tilt up(v), Pan 4, Tilt 4
166	147: DCE	81.359326	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
167	148: DCE	81.381151	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
168	149: DCE	81.607307	AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
169	150: DCE	81.626467	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
170	151: DCE	81.646359	AD01;GC7:0021004: Iris Stop
171	152: DCE	81.674063	AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
172	153: DCE	81.692082	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
173	154: DCE	81.712601	AD01;GC7:0021004: Iris Stop
174			
175	Up		
176	155: DCE	84.678016	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
177	156: DCE	84.696602	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
178	157: DCE	84.942297	AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
179	158: DCE	84.974108	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
180	159: DCE	84.991918	AD01;GC7:0021004: Iris Stop
181	160: DCE	85.013685	AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
182	161: DCE	85.041078	AD01;GCF:202136A:2022440: ----- Tilt up(v), Tilt stop(v), Pan 4, Tilt 4
183	162: DCE	86.056909	AD01;GCF:202136A:2022440: ----- Tilt up(v), Tilt stop(v), Pan 4, Tilt 4
184	163: DCE	87.072371	AD01;GCF:202136A:2022440: ----- Tilt up(v), Tilt stop(v), Pan 4, Tilt 4
185	164: DCE	87.808088	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
186	165: DCE	87.827298	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
187	166: DCE	88.052527	AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
188	167: DCE	88.072258	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
189	168: DCE	88.092359	AD01;GC7:0021004: Iris Stop
190	169: DCE	88.113711	AD01;GCF:2021364:2022440: ----- Pan stop(v), Tilt stop(v), Pan 4, Tilt 4
191	170: DCE	88.140477	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
192	171: DCE	88.157663	AD01;GC7:0021004: Iris Stop
193			
194	Tele		
195	172: DCE	91.548354	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
196	173: DCE	91.568212	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
197	174: DCE	91.788491	AD01;GC7:2021228: Zoom tele(f)
198	175: DCE	92.799214	AD01;GC7:2021228: Zoom tele(f)
199	176: DCE	93.809512	AD01;GC7:2021228: Zoom tele(f)
200	177: DCE	94.736769	AD01;GC7:2021228: Zoom tele(f)
201	178: DCE	94.759364	AD01;GC7:2021228: Zoom tele(f)
202	179: DCE	94.978920	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
203			
204	Wide		
205	180: DCE	98.082638	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
206	181: DCE	98.104142	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
207	182: DCE	98.324475	AD01;GC7:202122C: Zoom wide(f)
208	183: DCE	99.335409	AD01;GC7:202122C: Zoom wide(f)
209	184: DCE	100.345923	AD01;GC7:202122C: Zoom wide(f)
210	185: DCE	101.121840	AD01;GC7:202122C: Zoom wide(f)
211	186: DCE	101.142043	AD01;GC7:202122C: Zoom wide(f)
212	187: DCE	101.360075	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)

213			
214	188: DCE	105.880872	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
215	189: DCE	105.907784	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
216	190: DCE	106.127654	AD01;GC7:2021160: AUX 1 On
217			
218	191: DCE	109.162065	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
219	192: DCE	109.182571	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
220	193: DCE	109.407806	AD01;GC7:2021161: AUX 1 Off
221			
222	194: DCE	114.643375	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
223	195: DCE	114.662066	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
224			
225	Near		
226	196: DCE	118.512498	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
227	197: DCE	118.540300	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
228	198: DCE	118.759282	AD01;GC7:202122E: Focus near(f)
229	199: DCE	119.770421	AD01;GC7:202122E: Focus near(f)
230	200: DCE	120.780936	AD01;GC7:202122E: Focus near(f)
231	201: DCE	121.791451	AD01;GC7:202122E: Focus near(f)
232	202: DCE	122.801913	AD01;GC7:202122E: Focus near(f)
233	203: DCE	123.385989	AD01;GC7:202122E: Focus near(f)
234	204: DCE	123.412490	AD01;GC7:202122E: Focus near(f)
235	205: DCE	123.637768	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
236			
237	Far		
238	206: DCE	127.719668	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
239	207: DCE	127.745887	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
240	208: DCE	127.964318	AD01;GC7:202122A: Focus far(f)
241	209: DCE	128.974992	AD01;GC7:202122A: Focus far(f)
242	210: DCE	129.986443	AD01;GC7:202122A: Focus far(f)
243	211: DCE	130.915876	AD01;GC7:202122A: Focus far(f)
244	212: DCE	130.945081	AD01;GC7:202122A: Focus far(f)
245	213: DCE	131.190416	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
246			
247	214: DCE	134.466976	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
248	215: DCE	134.490143	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
249	216: DCE	134.710529	AD01;GC7:2021162: AUX 2 On
250			
251	217: DCE	137.097647	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
252	218: DCE	137.119826	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
253	219: DCE	137.346774	AD01;GC7:2021163: AUX 2 Off
254			
255	220: DCE	143.593639	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
256	221: DCE	143.615925	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
257	222: DCE	143.841831	AD01;GC7:2021301: Auto Pan Off
258			
259	223: DCE	149.128379	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
260	224: DCE	149.149517	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
261	225: DCE	149.389378	AD01;GC7:0021002: Iris Open
262	226: DCE	150.400478	AD01;GC7:0021002: Iris Open
263	227: DCE	151.410982	AD01;GC7:0021002: Iris Open
264	228: DCE	152.421446	AD01;GC7:0021002: Iris Open
265	229: DCE	153.125500	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
266	230: DCE	153.149086	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
267	231: DCE	153.366761	AD01;GC7:0021004: Iris Stop
268			
269	232: DCE	156.088734	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
270	233: DCE	156.114707	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
271	234: DCE	156.348108	AD01;GC7:0021003: Iris Close
272	235: DCE	157.358888	AD01;GC7:0021003: Iris Close
273	236: DCE	158.369400	AD01;GC7:0021003: Iris Close
274	237: DCE	159.379866	AD01;GC7:0021003: Iris Close
275	238: DCE	159.760011	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
276	239: DCE	159.784025	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
277	240: DCE	160.010962	AD01;GC7:0021004: Iris Stop
278			
279	241: DCE	165.258662	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
280	242: DCE	165.284021	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
281	243: DCE	165.517475	AD01;GC7:2021491: Patrol Stop
282			
283	244: DCE	171.929366	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
284	245: DCE	171.950453	AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)

285 246: DCE 172.168649 AD01;GC7:2021301: Auto Pan Off

1.12 Panasonic-WV-CS850

This data was collected from a Dedicated Micro Systems Sprite 2 on 29MAY07.

1. Baud rate: 19200
2. Parity: None
3. Hello Message Length: 218
4. Hello Message last few bytes: 0x30 0x30 0x34 0x03
5. Is the protocol a Polling Protocol?: No
6. Name of the data capture file: 29MAY07V.txt
7. Protocol Characteristics:
 - 7.1 Message Length(s): _____, _____, _____, _____, _____.
 - 7.2 ISO Level 1: RS-485, 2 and 4 wire versions.
 - 7.3 Unique first byte: 0x02
 - 7.4 Unique last byte: 0x03
 - 7.5 Checksum: No
 - 7.6 Device address: Bytes 4, 5
8. When this data capture was done, the DCE/DTE lines were reversed from the “normal” connection.
9. A translation of the raw file is included after the main capture file.
10. A TXB-P485 is in development to support this protocol.

1.12.1 v.out

```

1 $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2 $Header: d:/Binder2/1stLooks/RCS/V.out,v 1.3 2007-05-31 08:02:24-07 Hamilton Exp Hamilton $
3 FTS capture buffer (5/29/2007 9:58:32 AM)
4 Event 1 (5/29/2007 9:54:22.981226 AM) through
5 Event 4,610 (5/29/2007 9:57:20.922921 AM)
6
7      1,      1: DTE      1      0.000000  0.000000 02 41 44 5a 5a 3a 52 4f 4e 3a 37 03
8      1,     13: DTE     13      0.019631  0.013123 02 41 44 30 31 3b 47 43 46 3a 32 30 32 31 33 36 34 3a 32 30 32 32
30 30 30 03
9      1,     39: DTE     39      0.038015  0.003288 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
10     1,     57: DTE     57      0.058171  0.009795 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 34 03
11     1,     75: DTE     75      0.122689  0.054107 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 31 30 30 03
12     1,     93: DTE     93      0.170078  0.037079 02 41 44 30 31 3b 47 43 37 3a 39 30 33 34 30 30 38 03
13     1,    111: DTE    111      0.190229  0.009427 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 34 03
14     1,    129: DTE    129      0.209602  0.009165 02 41 44 30 31 3b 47 43 37 3a 39 30 33 30 30 41 35 03
15     1,    147: DTE    147      0.240639  0.020872 02 41 44 30 31 3b 47 43 37 3a 39 30 33 30 30 34 31 03
16     1,    165: DTE    165      0.326612  0.075560 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 31 30 30 03
17     1,    183: DTE    183      0.357286  0.020467 02 41 44 30 31 3b 47 43 37 3a 39 30 33 34 30 30 38 03
18     1,    201: DTE    201      0.389728  0.022185 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 34 03
19
20     1,    219: DTE    219      36.307829  35.907836 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 31 30 30 03
21     1,    237: DTE    237      36.337417  0.019060 02 41 44 30 31 3b 47 43 37 3a 39 30 33 34 30 30 39 03
22     1,    255: DTE    255      36.561644  0.213868 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 31 30 30 03

```

¹⁴\$Header: d:/Binder2/1stLooks/RCS/Pana850.inc,v 1.3 2007-06-06 09:34:30-07 Hamilton Exp Hamilton \$

23	1,	273:	DTE	273	36.579199	0.007186	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
24	1,	291:	DTE	291	36.599406	0.009946	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
25	1,	309:	DTE	309	36.622839	0.013230	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	30	38	03
26	1,	327:	DTE	327	36.644607	0.011563	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	41	30	38	03
27	1,	345:	DTE	345	36.698038	0.043122	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	41	30	38	03
28	1,	363:	DTE	363	36.723188	0.014800	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
29	1,	381:	DTE	381	36.957109	0.223405	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	30	38	03
30	1,	399:	DTE	399	36.974970	0.007490	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
31	1,	417:	DTE	417	36.994804	0.009576	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
32	1,	435:	DTE	435	37.015174	0.009897	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	30	38	03
33	1,	453:	DTE	453	37.035274	0.009740	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
34	1,	471:	DTE	471	37.057978	0.012291	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
35																								
36	1,	489:	DTE	489	39.926480	2.857930	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	30	38	03
37	1,	507:	DTE	507	39.955432	0.018489	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
38	1,	525:	DTE	525	40.175660	0.209970	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	30	38	03
39	1,	543:	DTE	543	40.202409	0.016339	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
40	1,	561:	DTE	561	40.226219	0.012914	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
41	1,	579:	DTE	579	40.255645	0.019269	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	30	38	03
42	1,	597:	DTE	597	40.275587	0.009478	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	41	30	38	03
43	1,	615:	DTE	615	40.300585	0.014739	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	41	38	38	03
44	1,	633:	DTE	633	40.324641	0.013747	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	38	38	03
45																								
46	1,	651:	DTE	651	41.335527	1.000364	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	38	38	03
47																								
48	1,	669:	DTE	669	42.346041	1.000209	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	38	38	03
49																								
50	1,	687:	DTE	687	43.356567	1.000271	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	38	38	03
51	1,	705:	DTE	705	43.571260	0.204486	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	38	38	03
52	1,	723:	DTE	723	43.591502	0.009775	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
53	1,	741:	DTE	741	43.823150	0.221323	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
54	1,	759:	DTE	759	43.841319	0.007913	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
55	1,	777:	DTE	777	43.896205	0.044573	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
56	1,	795:	DTE	795	43.922037	0.015521	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
57	1,	813:	DTE	813	43.941511	0.009008	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
58	1,	831:	DTE	831	43.966664	0.014737	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
59																								
60	1,	849:	DTE	849	46.404717	2.427741	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
61	1,	867:	DTE	867	46.426008	0.010881	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
62	1,	885:	DTE	885	46.653580	0.217259	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
63	1,	903:	DTE	903	46.671500	0.007663	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
64	1,	921:	DTE	921	46.691126	0.009215	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
65	1,	939:	DTE	939	46.720391	0.018946	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
66	1,	957:	DTE	957	46.741595	0.010996	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	43	38	38	03
67																								
68	1,	975:	DTE	975	47.752681	1.000768	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	43	38	38	03
69																								
70	1,	993:	DTE	993	48.763193	1.000200	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	43	38	38	03
71	1,	1011:	DTE	1011	49.372105	0.598659	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	43	38	38	03
72	1,	1029:	DTE	1029	49.390899	0.008329	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
73	1,	1047:	DTE	1047	49.611288	0.210129	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
74	1,	1065:	DTE	1065	49.631433	0.009737	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
75	1,	1083:	DTE	1083	49.655335	0.013485	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
76	1,	1101:	DTE	1101	49.676531	0.010769	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
77	1,	1119:	DTE	1119	49.705435	0.018540	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	30	39	03
78	1,	1137:	DTE	1137	49.726149	0.010346	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
79																								
80	1,	1155:	DTE	1155	51.172911	1.436129	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
81	1,	1173:	DTE	1173	51.196707	0.013490	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
82	1,	1191:	DTE	1191	51.420998	0.214191	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
83	1,	1209:	DTE	1209	51.439323	0.007968	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
84	1,	1227:	DTE	1227	51.459944	0.010209	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
85	1,	1245:	DTE	1245	51.487182	0.016981	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
86	1,	1263:	DTE	1263	51.504314	0.006667	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	38	38	03
87	1,	1281:	DTE	1281	51.537484	0.022809	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	38	38	03
88	1,	1299:	DTE	1299	51.560190	0.012498	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	44	38	38	03
89																								
90	1,	1317:	DTE	1317	52.571071	1.000676	02</																	

95	1,	1371:	DTE	1371	54.647354	0.045046	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	44	38	38	03
96	1,	1389:	DTE	1389	54.669798	0.012291	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
97	1,	1407:	DTE	1407	54.897471	0.217312	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
98	1,	1425:	DTE	1425	54.921474	0.013904	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
99	1,	1443:	DTE	1443	54.940167	0.008591	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
100	1,	1461:	DTE	1461	54.961051	0.010570	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
101	1,	1479:	DTE	1479	54.986620	0.015309	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
102	1,	1497:	DTE	1497	55.005054	0.008121	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
103																								
104	1,	1515:	DTE	1515	57.732436	2.717235	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
105	1,	1533:	DTE	1533	57.756957	0.014215	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
106	1,	1551:	DTE	1551	57.975886	0.208451	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
107	1,	1569:	DTE	1569	58.000302	0.014318	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
108	1,	1587:	DTE	1587	58.022118	0.011554	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
109	1,	1605:	DTE	1605	58.040714	0.008289	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
110	1,	1623:	DTE	1623	58.071441	0.020467	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
111																								
112	1,	1641:	DTE	1641	59.082270	1.000417	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	38	38	03
113																								
114	1,	1659:	DTE	1659	60.092735	1.000260	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	38	38	03
115																								
116	1,	1677:	DTE	1677	61.103250	1.000367	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	38	38	03
117	1,	1695:	DTE	1695	61.559063	0.445558	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	38	38	03
118	1,	1713:	DTE	1713	61.585774	0.016455	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
119	1,	1731:	DTE	1731	61.807096	0.211205	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
120	1,	1749:	DTE	1749	61.826464	0.009012	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
121	1,	1767:	DTE	1767	61.855311	0.018485	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
122	1,	1785:	DTE	1785	61.881037	0.015309	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
123	1,	1803:	DTE	1803	61.901919	0.010570	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
124	1,	1821:	DTE	1821	61.924990	0.012966	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
125																								
126	1,	1839:	DTE	1839	64.136360	2.201318	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
127	1,	1857:	DTE	1857	64.159949	0.013191	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
128	1,	1875:	DTE	1875	64.382101	0.211637	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
129	1,	1893:	DTE	1893	64.401052	0.008801	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
130	1,	1911:	DTE	1911	64.422404	0.011146	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
131	1,	1929:	DTE	1929	64.441315	0.008602	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
132	1,	1947:	DTE	1947	64.461720	0.010156	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	38	38	03
133	1,	1965:	DTE	1965	64.488331	0.015781	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	38	38	03
134	1,	1983:	DTE	1983	64.506349	0.007760	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	46	38	38	03
135																								
136	1,	2001:	DTE	2001	65.517440	1.000678	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	46	38	38	03
137																								
138	1,	2019:	DTE	2019	66.527905	1.000264	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	46	38	38	03
139																								
140	1,	2037:	DTE	2037	67.538419	1.000261	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	46	38	38	03
141	1,	2055:	DTE	2055	68.333396	0.784726	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	46	38	38	03
142	1,	2073:	DTE	2073	68.357399	0.013750	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
143	1,	2091:	DTE	2091	68.590747	0.222570	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
144	1,	2109:	DTE	2109	68.607881	0.007042	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
145	1,	2127:	DTE	2127	68.627877	0.009687	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
146	1,	2145:	DTE	2145	68.656465	0.018278	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
147	1,	2163:	DTE	2163	68.694687	0.027910	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
148	1,	2181:	DTE	2181	68.713590	0.008538	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
149																								
150	1,	2199:	DTE	2199	70.962297	2.238666	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
151	1,	2217:	DTE	2217	70.981875	0.009425	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
152	1,	2235:	DTE	2235	71.202519	0.210334	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
153	1,	2253:	DTE	2253	71.225063	0.012496	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
154	1,	2271:	DTE	2271	71.242455	0.006663	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
155	1,	2289:	DTE	2289	71.267662	0.015049	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
156	1,	2307:	DTE	2307	71.289897	0.011976	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	38	38	38	03
157																								
158	1,	2325:	DTE	2325	72.300731	1.000677	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	38	38	38	03
159																								
160	1,	2343:	DTE	2343	73.311245	1.000208	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	38	38	38	03
161																								
162	1,	2361:	DTE	2361	74.321763	1.000262	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	38	38	38	03

167	1,	2451:	DTE	2451	74.790328	0.016718	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
168	1,	2469:	DTE	2469	74.808555	0.007917	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
169	1,	2487:	DTE	2487	74.828499	0.009583	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
170	1,	2505:	DTE	2505	74.856515	0.017671	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
171																								
172	1,	2523:	DTE	2523	77.290764	2.423939	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
173	1,	2541:	DTE	2541	77.323615	0.022593	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
174	1,	2559:	DTE	2559	77.543068	0.209033	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
175	1,	2577:	DTE	2577	77.563739	0.010208	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
176	1,	2595:	DTE	2595	77.583214	0.009061	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
177	1,	2613:	DTE	2613	77.603160	0.009531	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
178	1,	2631:	DTE	2631	77.627221	0.013804	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	41	38	38	03
179	1,	2649:	DTE	2649	77.657162	0.019582	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	41	38	38	03
180	1,	2667:	DTE	2667	77.689866	0.022393	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	39	38	38	03
181																								
182	1,	2685:	DTE	2685	78.700903	1.000676	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	39	38	38	03
183																								
184	1,	2703:	DTE	2703	79.711366	1.000260	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	39	38	38	03
185																								
186	1,	2721:	DTE	2721	80.721882	1.000364	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	39	38	38	03
187	1,	2739:	DTE	2739	80.754685	0.022601	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	39	38	38	03
188	1,	2757:	DTE	2757	80.773432	0.008436	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
189	1,	2775:	DTE	2775	80.993872	0.210179	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
190	1,	2793:	DTE	2793	81.024487	0.020362	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
191	1,	2811:	DTE	2811	81.043753	0.008903	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
192	1,	2829:	DTE	2829	81.064108	0.010001	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
193	1,	2847:	DTE	2847	81.083798	0.009370	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
194	1,	2865:	DTE	2865	81.103901	0.009738	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
195																								
196	1,	2883:	DTE	2883	83.067966	1.953753	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
197	1,	2901:	DTE	2901	83.087280	0.009009	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
198	1,	2919:	DTE	2919	83.307770	0.210333	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
199	1,	2937:	DTE	2937	83.327712	0.009477	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
200	1,	2955:	DTE	2955	83.357968	0.019996	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
201	1,	2973:	DTE	2973	83.378644	0.010366	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
202	1,	2991:	DTE	2991	83.397858	0.008855	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	41	38	38	03
203																								
204	1,	3009:	DTE	3009	84.408688	1.000416	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	41	38	38	03
205																								
206	1,	3027:	DTE	3027	85.419206	1.000262	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	41	38	38	03
207																								
208	1,	3045:	DTE	3045	86.429667	1.000355	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	41	38	38	03
209																								
210	1,	3063:	DTE	3063	87.441174	1.001094	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	41	38	38	03
211	1,	3081:	DTE	3081	88.266769	0.815342	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	41	38	38	03
212	1,	3099:	DTE	3099	88.286085	0.009112	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
213	1,	3117:	DTE	3117	88.506312	0.209863	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
214	1,	3135:	DTE	3135	88.526259	0.009429	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
215	1,	3153:	DTE	3153	88.557085	0.020519	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
216	1,	3171:	DTE	3171	88.576561	0.009116	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
217	1,	3189:	DTE	3189	88.596455	0.009637	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
218	1,	3207:	DTE	3207	88.616448	0.009582	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
219																								
220	1,	3225:	DTE	3225	90.869688	2.242823	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
221	1,	3243:	DTE	3243	90.892231	0.012239	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
222	1,	3261:	DTE	3261	91.119488	0.216685	02	41	44	30	31	3b	47	43	37	3a	39	30	32	31	31	38	38	03
223																								
224	1,	3279:	DTE	3279	92.130475	1.000677	02	41	44	30	31	3b	47	43	37	3a	39	30	32	31	31	38	38	03
225																								
226	1,	3297:	DTE	3297	93.140988	1.000259	02	41	44	30	31	3b	47	43	37	3a	39	30	32	31	31	38	38	03
227	1,	3315:	DTE	3315	94.009916	0.858722	02	41	44	30	31	3b	47	43	37	3a	39	30	32	31	31	38	38	03
228	1,	3333:	DTE	3333	94.030792	0.010573	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
229	1,	3351:	DTE	3351	94.256908	0.215807	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
230																								
231	1,	3369:	DTE	3369	97.905999	3.638787	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
232	1,	3387:	DTE	3387	97.927044	0.010624	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
233	1,	3405:	DTE	3405	98.157687	0.220229	02	41	44	30	31	3b	47	43	37	3a	39	30	32	35	31	38	38	03
234																								
235	1,	3423:	DTE	3423	99.168933	1.001094	02	41	44	30	31	3b	47	43	37	3a	39	30	32	3				

239	1,	3459:	DTE	3459	101.189921	1.000233	02	41	44	30	31	3b	47	43	37	3a	39	30	32	35	31	38	38	03
240																								
241	1,	3477:	DTE	3477	102.200425	1.000428	02	41	44	30	31	3b	47	43	37	3a	39	30	32	35	31	38	38	03
242	1,	3495:	DTE	3495	102.370242	0.159561	02	41	44	30	31	3b	47	43	37	3a	39	30	32	35	31	38	38	03
243	1,	3513:	DTE	3513	102.390339	0.009738	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
244	1,	3531:	DTE	3531	102.610830	0.209660	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
245																								
246	1,	3549:	DTE	3549	105.463446	2.842413	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
247	1,	3567:	DTE	3567	105.484843	0.011143	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
248	1,	3585:	DTE	3585	105.705544	0.210387	02	41	44	30	31	3b	47	43	37	3a	32	30	32	31	31	36	30	03
249																								
250	1,	3603:	DTE	3603	108.874254	3.158456	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
251	1,	3621:	DTE	3621	108.897007	0.012497	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
252	1,	3639:	DTE	3639	109.116246	0.209135	02	41	44	30	31	3b	47	43	37	3a	32	30	32	31	31	36	31	03
253																								
254	1,	3657:	DTE	3657	115.427686	6.301185	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
255	1,	3675:	DTE	3675	115.458299	0.020305	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
256																								
257	1,	3693:	DTE	3693	119.026268	3.557551	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
258	1,	3711:	DTE	3711	119.061580	0.024789	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
259	1,	3729:	DTE	3729	119.290298	0.218357	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	31	03
260																								
261	1,	3747:	DTE	3747	120.301282	1.000679	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	31	03
262																								
263	1,	3765:	DTE	3765	121.312788	1.001147	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	31	03
264																								
265	1,	3783:	DTE	3783	122.323352	1.000311	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	31	03
266	1,	3801:	DTE	3801	122.728965	0.395407	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
267	1,	3819:	DTE	3819	122.760260	0.020830	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	31	03
268	1,	3837:	DTE	3837	122.979342	0.208720	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
269																								
270	1,	3855:	DTE	3855	126.793784	3.804032	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
271	1,	3873:	DTE	3873	126.825024	0.021142	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
272	1,	3891:	DTE	3891	127.046141	0.210804	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	35	03
273																								
274	1,	3909:	DTE	3909	128.057124	1.000625	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	35	03
275																								
276	1,	3927:	DTE	3927	129.067694	1.000314	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	35	03
277																								
278	1,	3945:	DTE	3945	130.078104	1.000262	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	35	03
279																								
280	1,	3963:	DTE	3963	131.088618	1.000262	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	35	03
281	1,	3981:	DTE	3981	131.205424	0.106550	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
282	1,	3999:	DTE	3999	131.226615	0.010886	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	35	03
283	1,	4017:	DTE	4017	131.460433	0.223509	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
284																								
285	1,	4035:	DTE	4035	134.802606	3.331708	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
286	1,	4053:	DTE	4053	134.825203	0.012392	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
287	1,	4071:	DTE	4071	135.044705	0.209138	02	41	44	30	31	3b	47	43	37	3a	32	30	32	31	31	36	32	03
288																								
289	1,	4089:	DTE	4089	139.029328	3.974526	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
290	1,	4107:	DTE	4107	139.052758	0.013124	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
291	1,	4125:	DTE	4125	139.271579	0.208670	02	41	44	30	31	3b	47	43	37	3a	32	30	32	31	31	36	33	03
292																								
293	1,	4143:	DTE	4143	147.365130	8.083241	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
294	1,	4161:	DTE	4161	147.387881	0.012497	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
295	1,	4179:	DTE	4179	147.605560	0.207574	02	41	44	30	31	3b	47	43	37	3a	39	30	33	30	30	34	30	03
296																								
297	1,	4197:	DTE	4197	150.576491	2.960677	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
298	1,	4215:	DTE	4215	150.596118	0.009266	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
299	1,	4233:	DTE	4233	150.831921	0.225385	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	32	03
300																								
301	1,	4251:	DTE	4251	151.842680	1.000299	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	32	03
302																								
303	1,	4269:	DTE	4269	152.853264	1.000200	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	32	03
304	1,	4287:	DTE	4287	153.766138	0.902569	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
305	1,	4305:	DTE	4305	153.796284	0.019684	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
306	1,	4323:	DTE	4323	154.016407	0.209811	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	34	03
307																								
308	1,	4341:	DTE	4341	157.177052	3.150388	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	38	38	03
309	1,	4359:	DTE	4359	157.197043	0.009532	02	41	44	30	31	3b	47	43	37	3a	39	30	33	34	30	30	39	03
310	1,	4377:	DTE	4377	157.																			

```

311
312      1,      4395: DTE      4395      158.427996      1.000626 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 33 03
313
314      1,      4413: DTE      4413      159.438512      1.000417 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 33 03
315
316      1,      4431: DTE      4431      160.449027      1.000262 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 33 03
317      1,      4449: DTE      4449      161.201041      0.741759 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 31 38 38 03
318      1,      4467: DTE      4467      161.229940      0.018435 02 41 44 30 31 3b 47 43 37 3a 39 30 33 34 30 30 39 03
319      1,      4485: DTE      4485      161.449022      0.208825 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 34 03
320
321      1,      4503: DTE      4503      168.969645      7.510314 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 31 38 38 03
322      1,      4521: DTE      4521      168.997707      0.017009 02 41 44 30 31 3b 47 43 37 3a 39 30 33 34 30 30 39 03
323      1,      4539: DTE      4539      169.232050      0.224030 02 41 44 30 31 3b 47 43 37 3a 39 30 33 30 30 41 34 03
324
325      1,      4557: DTE      4557      177.683978      8.441571 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 31 38 38 03
326      1,      4575: DTE      4575      177.701419      0.007246 02 41 44 30 31 3b 47 43 37 3a 39 30 33 34 30 30 39 03
327      1,      4593: DTE      4593      177.931280      0.219365 02 41 44 30 31 3b 47 43 37 3a 39 30 33 30 30 34 30 03
328
329 There were a total of      4610 bytes transferred
330
331 There were a total of      0 DCE bytes transferred
332 The first DCE byte came in at 0.000000 seconds from the start of data collection
333 The last DCE byte was at 0.000000 seconds from the start of data collection
334
335 There were a total of      4610 DTE bytes transferred
336 The first DTE byte came in at 0.000000 seconds from the start of data collection
337 The last DTE byte was at 177.941695 seconds from the start of data collection
338

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1.12.2 v.bl

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1  $Header: d:/Binder2/1stLooks/RCS/v.bl,v 1.3 2007-06-08 09:32:14-07 Hamilton Exp Hamilton $
2
3      1: DCE      0.000000 02 41 44 5a 5a 3a 52 4f 4e 3a 37 03: ADZZ:RON:7: All call, disable ACKs, Alarms and
Responses
4      2: DCE      0.019631 AD01;GCF:2021364:2022000: ----- Pan stop(v), Tilt stop(v)
5      3: DCE      0.038015 AD01;GC7:2021224: Zoom stop(f) + Focus stop(f)
6      4: DCE      0.058171 AD01;GC7:0021004: Iris Stop
7      5: DCE      0.122689 AD01;GC7:9028100: Zoom Stop,           Motion Stop,           P=0,   T=0
8      6: DCE      0.170078 AD01;GC7:9034008: Focus Speed Med, Near, Stop
9      7: DCE      0.190229 AD01;GC7:0021004: Iris Stop
10     8: DCE      0.209602 AD01;GC7:90300A5: Patrol - Stop
11     9: DCE      0.240639 AD01;GC7:9030041: Auto - Pan Off
12    10: DCE      0.326612 AD01;GC7:9028100: Zoom Stop,           Motion Stop,           P=0,   T=0
13    11: DCE      0.357286 AD01;GC7:9034008: Focus Speed Med, Near, Stop
14    12: DCE      0.389728 AD01;GC7:0021004: Iris Stop
15
16    13: DCE      36.307829 AD01;GC7:9028100: Zoom Stop,           Motion Stop,           P=0,   T=0
17    14: DCE      36.337417 AD01;GC7:9034009: Focus Speed Med, Near, Start
18    15: DCE      36.561644 AD01;GC7:9028100: Zoom Stop,           Motion Stop,           P=0,   T=0
19    16: DCE      36.579199 AD01;GC7:9034009: Focus Speed Med, Near, Start
20    17: DCE      36.599406 AD01;GC7:0021004: Iris Stop
21    18: DCE      36.622839 AD01;GC7:9028108: Zoom Stop,           Motion Stop,           P=0,   T=8
22    19: DCE      36.644607 AD01;GC7:9028A08: Zoom Stop,           Motion Up,             P=0,   T=8
23    20: DCE      36.698038 AD01;GC7:9028A08: Zoom Stop,           Motion Up,             P=0,   T=8
24    21: DCE      36.723188 AD01;GC7:9034009: Focus Speed Med, Near, Start
25    22: DCE      36.957109 AD01;GC7:9028108: Zoom Stop,           Motion Stop,           P=0,   T=8
26    23: DCE      36.974970 AD01;GC7:9034009: Focus Speed Med, Near, Start
27    24: DCE      36.994804 AD01;GC7:0021004: Iris Stop
28    25: DCE      37.015174 AD01;GC7:9028108: Zoom Stop,           Motion Stop,           P=0,   T=8
29    26: DCE      37.035274 AD01;GC7:9034009: Focus Speed Med, Near, Start
30    27: DCE      37.057978 AD01;GC7:0021004: Iris Stop
31
32    28: DCE      39.926480 AD01;GC7:9028108: Zoom Stop,           Motion Stop,           P=0,   T=8
33    29: DCE      39.955432 AD01;GC7:9034009: Focus Speed Med, Near, Start
34    30: DCE      40.175660 AD01;GC7:9028108: Zoom Stop,           Motion Stop,           P=0,   T=8
35    31: DCE      40.202409 AD01;GC7:9034009: Focus Speed Med, Near, Start
36    32: DCE      40.226219 AD01;GC7:0021004: Iris Stop
37    33: DCE      40.255645 AD01;GC7:9028108: Zoom Stop,           Motion Stop,           P=0,   T=8
38    34: DCE      40.275587 AD01;GC7:9028A08: Zoom Stop,           Motion Up,             P=0,   T=8
39    35: DCE      40.300585 AD01;GC7:9028A88: Zoom Stop,           Motion Up,             P=8,   T=8
40    36: DCE      40.324641 AD01;GC7:9028B88: Zoom Stop,           Motion Right + Up,     P=8,   T=8
41    37: DCE      41.335527 AD01;GC7:9028B88: Zoom Stop,           Motion Right + Up,     P=8,   T=8
42    38: DCE      42.346041 AD01;GC7:9028B88: Zoom Stop,           Motion Right + Up,     P=8,   T=8
43    39: DCE      43.355567 AD01;GC7:9028B88: Zoom Stop,           Motion Right + Up,     P=8,   T=8
44    40: DCE      43.571260 AD01;GC7:9028B88: Zoom Stop,           Motion Right + Up,     P=8,   T=8
45    41: DCE      43.591502 AD01;GC7:9034009: Focus Speed Med, Near, Start
46    42: DCE      43.823150 AD01;GC7:9028188: Zoom Stop,           Motion Stop,           P=8,   T=8
47    43: DCE      43.841319 AD01;GC7:9034009: Focus Speed Med, Near, Start
48    44: DCE      43.896205 AD01;GC7:0021004: Iris Stop
49    45: DCE      43.922037 AD01;GC7:9028188: Zoom Stop,           Motion Stop,           P=8,   T=8
50    46: DCE      43.941511 AD01;GC7:9034009: Focus Speed Med, Near, Start
51    47: DCE      43.966664 AD01;GC7:0021004: Iris Stop
52
53    48: DCE      46.404717 AD01;GC7:9028188: Zoom Stop,           Motion Stop,           P=8,   T=8
54    49: DCE      46.426008 AD01;GC7:9034009: Focus Speed Med, Near, Start
55    50: DCE      46.653580 AD01;GC7:9028188: Zoom Stop,           Motion Stop,           P=8,   T=8
56    51: DCE      46.671500 AD01;GC7:9034009: Focus Speed Med, Near, Start
57    52: DCE      46.691126 AD01;GC7:0021004: Iris Stop
58    53: DCE      46.720391 AD01;GC7:9028188: Zoom Stop,           Motion Stop,           P=8,   T=8
59    54: DCE      46.741595 AD01;GC7:9028C88: Zoom Stop,           Motion Right,          P=8,   T=8
60    55: DCE      47.752681 AD01;GC7:9028C88: Zoom Stop,           Motion Right,          P=8,   T=8
61    56: DCE      48.763193 AD01;GC7:9028C88: Zoom Stop,           Motion Right,          P=8,   T=8
62    57: DCE      49.372105 AD01;GC7:9028C88: Zoom Stop,           Motion Right,          P=8,   T=8
63    58: DCE      49.390899 AD01;GC7:9034009: Focus Speed Med, Near, Start
64    59: DCE      49.611288 AD01;GC7:9028188: Zoom Stop,           Motion Stop,           P=8,   T=8
65    60: DCE      49.631433 AD01;GC7:9034009: Focus Speed Med, Near, Start
66    61: DCE      49.655335 AD01;GC7:0021004: Iris Stop
67    62: DCE      49.676531 AD01;GC7:9028188: Zoom Stop,           Motion Stop,           P=8,   T=8

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68	63: DCE	49.705435	AD01;GC7:9034009: Focus Speed Med, Near, Start		
69	64: DCE	49.726149	AD01;GC7:0021004: Iris Stop		
70					
71	65: DCE	51.172911	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
72	66: DCE	51.196707	AD01;GC7:9034009: Focus Speed Med, Near, Start		
73	67: DCE	51.420998	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
74	68: DCE	51.439323	AD01;GC7:9034009: Focus Speed Med, Near, Start		
75	69: DCE	51.459944	AD01;GC7:0021004: Iris Stop		
76	70: DCE	51.487182	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
77	71: DCE	51.504314	AD01;GC7:9028E88: Zoom Stop,	Motion Down,	P=8, T=8
78	72: DCE	51.537484	AD01;GC7:9028E88: Zoom Stop,	Motion Down,	P=8, T=8
79	73: DCE	51.560190	AD01;GC7:9028D88: Zoom Stop,	Motion Right + Down,	P=8, T=8
80	74: DCE	52.571071	AD01;GC7:9028D88: Zoom Stop,	Motion Right + Down,	P=8, T=8
81	75: DCE	53.581459	AD01;GC7:9028D88: Zoom Stop,	Motion Right + Down,	P=8, T=8
82	76: DCE	54.592050	AD01;GC7:9028D88: Zoom Stop,	Motion Right + Down,	P=8, T=8
83	77: DCE	54.647354	AD01;GC7:9028D88: Zoom Stop,	Motion Right + Down,	P=8, T=8
84	78: DCE	54.669798	AD01;GC7:9034009: Focus Speed Med, Near, Start		
85	79: DCE	54.897471	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
86	80: DCE	54.921474	AD01;GC7:9034009: Focus Speed Med, Near, Start		
87	81: DCE	54.940167	AD01;GC7:0021004: Iris Stop		
88	82: DCE	54.961051	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
89	83: DCE	54.986620	AD01;GC7:9034009: Focus Speed Med, Near, Start		
90	84: DCE	55.005054	AD01;GC7:0021004: Iris Stop		
91					
92	85: DCE	57.732436	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
93	86: DCE	57.756957	AD01;GC7:9034009: Focus Speed Med, Near, Start		
94	87: DCE	57.975886	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
95	88: DCE	58.000302	AD01;GC7:9034009: Focus Speed Med, Near, Start		
96	89: DCE	58.022118	AD01;GC7:0021004: Iris Stop		
97	90: DCE	58.040714	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
98	91: DCE	58.071441	AD01;GC7:9028E88: Zoom Stop,	Motion Down,	P=8, T=8
99	92: DCE	59.082270	AD01;GC7:9028E88: Zoom Stop,	Motion Down,	P=8, T=8
100	93: DCE	60.092735	AD01;GC7:9028E88: Zoom Stop,	Motion Down,	P=8, T=8
101	94: DCE	61.103250	AD01;GC7:9028E88: Zoom Stop,	Motion Down,	P=8, T=8
102	95: DCE	61.559063	AD01;GC7:9028E88: Zoom Stop,	Motion Down,	P=8, T=8
103	96: DCE	61.585774	AD01;GC7:9034009: Focus Speed Med, Near, Start		
104	97: DCE	61.807096	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
105	98: DCE	61.826464	AD01;GC7:9034009: Focus Speed Med, Near, Start		
106	99: DCE	61.855311	AD01;GC7:0021004: Iris Stop		
107	100: DCE	61.881037	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
108	101: DCE	61.901919	AD01;GC7:9034009: Focus Speed Med, Near, Start		
109	102: DCE	61.924990	AD01;GC7:0021004: Iris Stop		
110					
111	103: DCE	64.136360	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
112	104: DCE	64.159949	AD01;GC7:9034009: Focus Speed Med, Near, Start		
113	105: DCE	64.382101	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
114	106: DCE	64.401052	AD01;GC7:9034009: Focus Speed Med, Near, Start		
115	107: DCE	64.422404	AD01;GC7:0021004: Iris Stop		
116	108: DCE	64.441315	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
117	109: DCE	64.461720	AD01;GC7:9028E88: Zoom Stop,	Motion Down,	P=8, T=8
118	110: DCE	64.488331	AD01;GC7:9028E88: Zoom Stop,	Motion Down,	P=8, T=8
119	111: DCE	64.506349	AD01;GC7:9028F88: Zoom Stop,	Motion Left + Down,	P=8, T=8
120	112: DCE	65.517440	AD01;GC7:9028F88: Zoom Stop,	Motion Left + Down,	P=8, T=8
121	113: DCE	66.527905	AD01;GC7:9028F88: Zoom Stop,	Motion Left + Down,	P=8, T=8
122	114: DCE	67.538419	AD01;GC7:9028F88: Zoom Stop,	Motion Left + Down,	P=8, T=8
123	115: DCE	68.333396	AD01;GC7:9028F88: Zoom Stop,	Motion Left + Down,	P=8, T=8
124	116: DCE	68.357399	AD01;GC7:9034009: Focus Speed Med, Near, Start		
125	117: DCE	68.590747	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
126	118: DCE	68.607881	AD01;GC7:9034009: Focus Speed Med, Near, Start		
127	119: DCE	68.627877	AD01;GC7:0021004: Iris Stop		
128	120: DCE	68.656465	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
129	121: DCE	68.694687	AD01;GC7:9034009: Focus Speed Med, Near, Start		
130	122: DCE	68.713590	AD01;GC7:0021004: Iris Stop		
131					
132	123: DCE	70.962297	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
133	124: DCE	70.981875	AD01;GC7:9034009: Focus Speed Med, Near, Start		
134	125: DCE	71.202519	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
135	126: DCE	71.225063	AD01;GC7:9034009: Focus Speed Med, Near, Start		
136	127: DCE	71.242455	AD01;GC7:0021004: Iris Stop		
137	128: DCE	71.267662	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
138	129: DCE	71.289897	AD01;GC7:9028888: Zoom Stop,	Motion Left,	P=8, T=8
139	130: DCE	72.300731	AD01;GC7:9028888: Zoom Stop,	Motion Left,	P=8, T=8

140	131: DCE	73.311245	AD01;GC7:9028888: Zoom Stop,	Motion Left,	P=8, T=8
141	132: DCE	74.321763	AD01;GC7:9028888: Zoom Stop,	Motion Left,	P=8, T=8
142	133: DCE	74.493763	AD01;GC7:9028888: Zoom Stop,	Motion Left,	P=8, T=8
143	134: DCE	74.523664	AD01;GC7:9034009: Focus Speed Med,	Near, Start	
144	135: DCE	74.743568	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
145	136: DCE	74.763238	AD01;GC7:9034009: Focus Speed Med,	Near, Start	
146	137: DCE	74.790328	AD01;GC7:0021004: Iris Stop		
147	138: DCE	74.808555	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
148	139: DCE	74.828499	AD01;GC7:9034009: Focus Speed Med,	Near, Start	
149	140: DCE	74.856515	AD01;GC7:0021004: Iris Stop		
150					
151	141: DCE	77.290764	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
152	142: DCE	77.323615	AD01;GC7:9034009: Focus Speed Med,	Near, Start	
153	143: DCE	77.543068	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
154	144: DCE	77.563739	AD01;GC7:9034009: Focus Speed Med,	Near, Start	
155	145: DCE	77.583214	AD01;GC7:0021004: Iris Stop		
156	146: DCE	77.603160	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
157	147: DCE	77.627221	AD01;GC7:9028A88: Zoom Stop,	Motion Up,	P=8, T=8
158	148: DCE	77.657162	AD01;GC7:9028A88: Zoom Stop,	Motion Up,	P=8, T=8
159	149: DCE	77.689866	AD01;GC7:9028988: Zoom Stop,	Motion Left + Up,	P=8, T=8
160	150: DCE	78.700903	AD01;GC7:9028988: Zoom Stop,	Motion Left + Up,	P=8, T=8
161	151: DCE	79.711366	AD01;GC7:9028988: Zoom Stop,	Motion Left + Up,	P=8, T=8
162	152: DCE	80.721882	AD01;GC7:9028988: Zoom Stop,	Motion Left + Up,	P=8, T=8
163	153: DCE	80.754685	AD01;GC7:9028988: Zoom Stop,	Motion Left + Up,	P=8, T=8
164	154: DCE	80.773432	AD01;GC7:9034009: Focus Speed Med,	Near, Start	
165	155: DCE	80.993872	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
166	156: DCE	81.024487	AD01;GC7:9034009: Focus Speed Med,	Near, Start	
167	157: DCE	81.043753	AD01;GC7:0021004: Iris Stop		
168	158: DCE	81.064108	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
169	159: DCE	81.083798	AD01;GC7:9034009: Focus Speed Med,	Near, Start	
170	160: DCE	81.103901	AD01;GC7:0021004: Iris Stop		
171					
172	161: DCE	83.067966	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
173	162: DCE	83.087280	AD01;GC7:9034009: Focus Speed Med,	Near, Start	
174	163: DCE	83.307770	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
175	164: DCE	83.327712	AD01;GC7:9034009: Focus Speed Med,	Near, Start	
176	165: DCE	83.357968	AD01;GC7:0021004: Iris Stop		
177	166: DCE	83.378644	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
178	167: DCE	83.397858	AD01;GC7:9028A88: Zoom Stop,	Motion Up,	P=8, T=8
179	168: DCE	84.408688	AD01;GC7:9028A88: Zoom Stop,	Motion Up,	P=8, T=8
180	169: DCE	85.419206	AD01;GC7:9028A88: Zoom Stop,	Motion Up,	P=8, T=8
181	170: DCE	86.429667	AD01;GC7:9028A88: Zoom Stop,	Motion Up,	P=8, T=8
182	171: DCE	87.441174	AD01;GC7:9028A88: Zoom Stop,	Motion Up,	P=8, T=8
183	172: DCE	88.266769	AD01;GC7:9028A88: Zoom Stop,	Motion Up,	P=8, T=8
184	173: DCE	88.286085	AD01;GC7:9034009: Focus Speed Med,	Near, Start	
185	174: DCE	88.506312	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
186	175: DCE	88.526259	AD01;GC7:9034009: Focus Speed Med,	Near, Start	
187	176: DCE	88.557085	AD01;GC7:0021004: Iris Stop		
188	177: DCE	88.576561	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
189	178: DCE	88.596455	AD01;GC7:9034009: Focus Speed Med,	Near, Start	
190	179: DCE	88.616448	AD01;GC7:0021004: Iris Stop		
191					
192	180: DCE	90.869688	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
193	181: DCE	90.892231	AD01;GC7:9034009: Focus Speed Med,	Near, Start	
194	182: DCE	91.119488	AD01;GC7:9021188: Zoom Tele, Medium,	Motion Stop,	P=8, T=8
195	183: DCE	92.130475	AD01;GC7:9021188: Zoom Tele, Medium,	Motion Stop,	P=8, T=8
196	184: DCE	93.140988	AD01;GC7:9021188: Zoom Tele, Medium,	Motion Stop,	P=8, T=8
197	185: DCE	94.009916	AD01;GC7:9021188: Zoom Tele, Medium,	Motion Stop,	P=8, T=8
198	186: DCE	94.030792	AD01;GC7:9034009: Focus Speed Med,	Near, Start	
199	187: DCE	94.256908	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
200					
201	188: DCE	97.905999	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
202	189: DCE	97.927044	AD01;GC7:9034009: Focus Speed Med,	Near, Start	
203	190: DCE	98.157687	AD01;GC7:9025188: Zoom Wide, Medium,	Motion Stop,	P=8, T=8
204	191: DCE	99.168933	AD01;GC7:9025188: Zoom Wide, Medium,	Motion Stop,	P=8, T=8
205	192: DCE	100.179447	AD01;GC7:9025188: Zoom Wide, Medium,	Motion Stop,	P=8, T=8
206	193: DCE	101.189921	AD01;GC7:9025188: Zoom Wide, Medium,	Motion Stop,	P=8, T=8
207	194: DCE	102.200425	AD01;GC7:9025188: Zoom Wide, Medium,	Motion Stop,	P=8, T=8
208	195: DCE	102.370242	AD01;GC7:9025188: Zoom Wide, Medium,	Motion Stop,	P=8, T=8
209	196: DCE	102.390339	AD01;GC7:9034009: Focus Speed Med,	Near, Start	
210	197: DCE	102.610830	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
211					

212	198: DCE	105.463446	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
213	199: DCE	105.484843	AD01;GC7:9034009: Focus Speed Med, Near, Start		
214	200: DCE	105.705544	AD01;GC7:2021160: AUX 1 On		
215					
216	201: DCE	108.874254	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
217	202: DCE	108.897007	AD01;GC7:9034009: Focus Speed Med, Near, Start		
218	203: DCE	109.116246	AD01;GC7:2021161: AUX 1 Off		
219	204: DCE	115.427686	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
220	205: DCE	115.458299	AD01;GC7:9034009: Focus Speed Med, Near, Start		
221					
222	206: DCE	119.026268	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
223	207: DCE	119.061580	AD01;GC7:9034009: Focus Speed Med, Near, Start		
224	208: DCE	119.290298	AD01;GC7:9034001: Focus Speed Min, Near, Start		
225	209: DCE	120.301282	AD01;GC7:9034001: Focus Speed Min, Near, Start		
226	210: DCE	121.312788	AD01;GC7:9034001: Focus Speed Min, Near, Start		
227	211: DCE	122.323352	AD01;GC7:9034001: Focus Speed Min, Near, Start		
228	212: DCE	122.728965	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
229	213: DCE	122.760260	AD01;GC7:9034001: Focus Speed Min, Near, Start		
230	214: DCE	122.979342	AD01;GC7:9034009: Focus Speed Med, Near, Start		
231					
232	215: DCE	126.793784	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
233	216: DCE	126.825024	AD01;GC7:9034009: Focus Speed Med, Near, Start		
234	217: DCE	127.046141	AD01;GC7:9034005: Focus Speed Low, Near, Start		
235	218: DCE	128.057124	AD01;GC7:9034005: Focus Speed Low, Near, Start		
236	219: DCE	129.067694	AD01;GC7:9034005: Focus Speed Low, Near, Start		
237	220: DCE	130.078104	AD01;GC7:9034005: Focus Speed Low, Near, Start		
238	221: DCE	131.088618	AD01;GC7:9034005: Focus Speed Low, Near, Start		
239	222: DCE	131.205424	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
240	223: DCE	131.226615	AD01;GC7:9034005: Focus Speed Low, Near, Start		
241	224: DCE	131.460433	AD01;GC7:9034009: Focus Speed Med, Near, Start		
242					
243	225: DCE	134.802606	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
244	226: DCE	134.825203	AD01;GC7:9034009: Focus Speed Med, Near, Start		
245	227: DCE	135.044705	AD01;GC7:2021162: AUX 2 On		
246	228: DCE	139.029328	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
247	229: DCE	139.052758	AD01;GC7:9034009: Focus Speed Med, Near, Start		
248	230: DCE	139.271579	AD01;GC7:2021163: AUX 2 Off		
249					
250	231: DCE	147.365130	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
251	232: DCE	147.387881	AD01;GC7:9034009: Focus Speed Med, Near, Start		
252	233: DCE	147.605560	AD01;GC7:9030040: Auto - Pan On		
253	234: DCE	150.576491	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
254	235: DCE	150.596118	AD01;GC7:9034009: Focus Speed Med, Near, Start		
255	236: DCE	150.831921	AD01;GC7:0021002: Iris Open		
256	237: DCE	151.842680	AD01;GC7:0021002: Iris Open		
257	238: DCE	152.853264	AD01;GC7:0021002: Iris Open		
258	239: DCE	153.766138	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
259	240: DCE	153.796284	AD01;GC7:9034009: Focus Speed Med, Near, Start		
260	241: DCE	154.016407	AD01;GC7:0021004: Iris Stop		
261					
262	242: DCE	157.177052	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
263	243: DCE	157.197043	AD01;GC7:9034009: Focus Speed Med, Near, Start		
264	244: DCE	157.417116	AD01;GC7:0021003: Iris Close		
265	245: DCE	158.427996	AD01;GC7:0021003: Iris Close		
266	246: DCE	159.438512	AD01;GC7:0021003: Iris Close		
267	247: DCE	160.449027	AD01;GC7:0021003: Iris Close		
268	248: DCE	161.201041	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
269	249: DCE	161.229940	AD01;GC7:9034009: Focus Speed Med, Near, Start		
270	250: DCE	161.449022	AD01;GC7:0021004: Iris Stop		
271					
272	251: DCE	168.969645	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
273	252: DCE	168.997707	AD01;GC7:9034009: Focus Speed Med, Near, Start		
274	253: DCE	169.232050	AD01;GC7:9030044: Patrol - Play		
275					
276	254: DCE	177.683978	AD01;GC7:9028188: Zoom Stop,	Motion Stop,	P=8, T=8
277	255: DCE	177.701419	AD01;GC7:9034009: Focus Speed Med, Near, Start		
278	256: DCE	177.931280	AD01;GC7:9030040: Auto - Pan On		

1.13 Pelco-P

This data was collected from a Dedicated Micro Systems Sprite 2 on 29MAY07.

1. Baud rate: 4800
2. Parity: None
3. Hello Message Length: 32
4. Hello Message last few bytes: 0x00 0xAF 0x0F
5. Is the protocol a Polling Protocol?: No
6. Name of the data capture file: 29MAY07A.txt and 29MAY07AA.txt
7. Protocol Characteristics:
 - 7.1 Message Length: 8 bytes.
 - 7.2 ISO Level 1: RS-422.
 - 7.3 Unique first byte: 0xA0
 - 7.4 Unique last byte: 0xAF
 - 7.5 Checksum: XOR of full message.
 - 7.6 Device address: Byte 2
8. Other: This data capture was the reason that the serial protocol outputs of the Sprite 2 were caputred. In the P Protocol commands being sent note the following:
 - 8.1 In the Hello message the following commands are sent:
 - 8.1.1. Stop motion
 - 8.1.2. Pattern Stop
 - 8.1.3. Scan Stop (Preset 96)
 - 8.2 Then before each motion command the following commands are sent:
 - 8.2.1. Set Zoom Speed to 1
 - 8.2.2. Set Focus Speed to 1
 - 8.2.3. Stop motion, twice
 - 8.2.4. The actual motion command always has both pan and tilt speeds set, even when motion is only happening on one axis.

1.13.1 a.out

```

1 $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2 $Header: d:/Binder2/1stLooks/RCS/A.out,v 1.2 2007-05-31 08:02:22-07 Hamilton Exp Hamilton $
3 FTS capture buffer (5/29/2007 7:21:07 AM)
4 Event 1 (5/29/2007 7:19:24.793614 AM) through
5 Event 1,192 (5/29/2007 7:20:27.593772 AM)
6
7
8      1,      1: DTE      1      0.000000      0.000000 a0 00 00 25 00 01 af 2b

```

¹⁵\$Header: d:/Binder2/1stLooks/RCS/Pelco-P.inc,v 1.1 2007-06-05 08:30:19-07 Hamilton Exp Hamilton \$

9	1,	9:	DTE	9	0.031246	0.016459	a0	00	00	27	00	01	af	29
10	1,	17:	DTE	17	0.250585	0.204768	a0	00	00	00	31	31	af	0f
11	1,	25:	DTE	25	0.276623	0.011251	a0	00	00	00	31	31	af	0f
12	1,	33:	DTE	33	0.295568	0.004167	a0	00	00	08	31	31	af	07
13	1,	41:	DTE	41	0.316195	0.006044	a0	00	00	25	00	01	af	2b
14	1,	49:	DTE	49	0.335569	0.004574	a0	00	00	27	00	01	af	29
15	1,	57:	DTE	57	0.563865	0.213712	a0	00	00	00	31	31	af	0f
16	1,	65:	DTE	65	0.598031	0.019377	a0	00	00	00	31	31	af	0f
17														
18	1,	73:	DTE	73	2.276094	1.663453	a0	00	00	25	00	01	af	2b
19	1,	81:	DTE	81	2.293798	0.002918	a0	00	00	27	00	01	af	29
20	1,	89:	DTE	89	2.534188	0.225600	a0	00	00	00	31	31	af	0f
21	1,	97:	DTE	97	2.563965	0.014999	a0	00	00	00	31	31	af	0f
22	1,	105:	DTE	105	2.584161	0.005417	a0	00	00	08	31	31	af	07
23	1,	113:	DTE	113	2.609786	0.010833	a0	00	00	08	31	31	af	07
24	1,	121:	DTE	121	2.629787	0.005314	a0	00	00	0a	31	31	af	05
25	1,	129:	DTE	129	2.649983	0.005482	a0	00	00	25	00	01	af	2b
26	1,	137:	DTE	137	2.674148	0.009363	a0	00	00	27	00	01	af	29
27	1,	145:	DTE	145	2.897030	0.208156	a0	00	00	00	31	31	af	0f
28	1,	153:	DTE	153	2.915985	0.004168	a0	00	00	00	31	31	af	0f
29	1,	161:	DTE	161	3.791470	0.860695	a0	00	00	25	00	01	af	2b
30	1,	169:	DTE	169	3.814174	0.008003	a0	00	00	27	00	01	af	29
31	1,	177:	DTE	177	4.036507	0.207750	a0	00	00	00	31	31	af	0f
32	1,	185:	DTE	185	4.063510	0.012084	a0	00	00	00	31	31	af	0f
33	1,	193:	DTE	193	4.082468	0.004166	a0	00	00	02	31	31	af	0d
34	1,	201:	DTE	201	4.102885	0.005624	a0	00	00	25	00	01	af	2b
35	1,	209:	DTE	209	4.121621	0.003955	a0	00	00	27	00	01	af	29
36	1,	217:	DTE	217	4.342225	0.205810	a0	00	00	00	31	31	af	0f
37	1,	225:	DTE	225	4.363873	0.006847	a0	00	00	00	31	31	af	0f
38	1,	233:	DTE	233	5.248132	0.869465	a0	00	00	25	00	01	af	2b
39	1,	241:	DTE	241	5.269566	0.006669	a0	00	00	27	00	01	af	29
40	1,	249:	DTE	249	5.489750	0.205395	a0	00	00	00	31	31	af	0f
41	1,	257:	DTE	257	5.509150	0.004792	a0	00	00	00	31	31	af	0f
42	1,	265:	DTE	265	5.529734	0.005625	a0	00	00	10	31	31	af	1f
43	1,	273:	DTE	273	5.550150	0.005626	a0	00	00	10	31	31	af	1f
44	1,	281:	DTE	281	5.572650	0.007708	a0	00	00	12	31	31	af	1d
45	1,	289:	DTE	289	5.598261	0.010833	a0	00	00	25	00	01	af	2b
46	1,	297:	DTE	297	5.629723	0.016668	a0	00	00	27	00	01	af	29
47	1,	305:	DTE	305	5.862808	0.218294	a0	00	00	00	31	31	af	0f
48	1,	313:	DTE	313	5.896348	0.018750	a0	00	00	00	31	31	af	0f
49	1,	321:	DTE	321	6.747876	0.836958	a0	00	00	25	00	01	af	2b
50	1,	329:	DTE	329	6.765997	0.003334	a0	00	00	27	00	01	af	29
51	1,	337:	DTE	337	6.991796	0.211005	a0	00	00	00	31	31	af	0f
52	1,	345:	DTE	345	7.014081	0.007708	a0	00	00	00	31	31	af	0f
53	1,	353:	DTE	353	7.033040	0.004166	a0	00	00	10	31	31	af	1f
54	1,	361:	DTE	361	7.066986	0.019155	a0	00	00	25	00	01	af	2b
55	1,	369:	DTE	369	7.096986	0.015209	a0	00	00	27	00	01	af	29
56	1,	377:	DTE	377	7.321232	0.209454	a0	00	00	00	31	31	af	0f
57	1,	385:	DTE	385	7.342146	0.006033	a0	00	00	00	31	31	af	0f
58														
59	1,	393:	DTE	393	9.301429	1.944483	a0	00	00	25	00	01	af	2b
60	1,	401:	DTE	401	9.322884	0.006667	a0	00	00	27	00	01	af	29
61	1,	409:	DTE	409	9.540764	0.203311	a0	00	00	00	31	31	af	0f
62	1,	417:	DTE	417	9.564093	0.008541	a0	00	00	00	31	31	af	0f
63	1,	425:	DTE	425	9.586998	0.008331	a0	00	00	10	31	31	af	1f
64	1,	433:	DTE	433	9.606165	0.004584	a0	00	00	10	31	31	af	1f
65	1,	441:	DTE	441	9.630123	0.009168	a0	00	00	14	31	31	af	1b
66	1,	449:	DTE	449	9.655748	0.011180	a0	00	00	25	00	01	af	2b
67	1,	457:	DTE	457	9.676361	0.005834	a0	00	00	27	00	01	af	29
68	1,	465:	DTE	465	9.897586	0.206435	a0	00	00	00	31	31	af	0f
69	1,	473:	DTE	473	9.916528	0.004167	a0	00	00	00	31	31	af	0f
70														
71	1,	481:	DTE	481	11.315270	1.383949	a0	00	00	25	00	01	af	2b
72	1,	489:	DTE	489	11.333600	0.003542	a0	00	00	27	00	01	af	29
73	1,	497:	DTE	497	11.563563	0.215172	a0	00	00	00	31	31	af	0f
74	1,	505:	DTE	505	11.584393	0.006041	a0	00	00	00	31	31	af	0f
75	1,	513:	DTE	513	11.604394	0.005000	a0	00	00	04	31	31	af	0b
76	1,	521:	DTE	521	11.632093	0.012922	a0	00	00	25	00	01	af	2b
77	1,	529:	DTE	529	11.650006	0.003335	a0	00	00	27	00	01	af	29
78	1,	537:	DTE	537	11.877470	0.212881	a0	00	00	00	31	31	af	0f
79	1,	545:	DTE	545	11.897684	0.005427	a0	00	00	00	31	31	af	0f
80														

81	1,	553:	DTE	553	13.568669	1.656204	a0	00	00	25	00	01	af	2b
82	1,	561:	DTE	561	13.587609	0.004167	a0	00	00	27	00	01	af	29
83	1,	569:	DTE	569	13.809252	0.206228	a0	00	00	00	31	31	af	0f
84	1,	577:	DTE	577	13.828194	0.004167	a0	00	00	00	31	31	af	0f
85	1,	585:	DTE	585	13.847986	0.005209	a0	00	00	08	31	31	af	07
86	1,	593:	DTE	593	13.868611	0.006042	a0	00	00	08	31	31	af	07
87	1,	601:	DTE	601	13.897361	0.013958	a0	00	00	0c	31	31	af	03
88	1,	609:	DTE	609	13.930690	0.018551	a0	00	00	25	00	01	af	2b
89	1,	617:	DTE	617	13.948388	0.002915	a0	00	00	27	00	01	af	29
90	1,	625:	DTE	625	14.168980	0.205800	a0	00	00	00	31	31	af	0f
91	1,	633:	DTE	633	14.197726	0.013960	a0	00	00	00	31	31	af	0f
92														
93	1,	641:	DTE	641	15.236316	1.023799	a0	00	00	25	00	01	af	2b
94	1,	649:	DTE	649	15.263180	0.012082	a0	00	00	27	00	01	af	29
95	1,	657:	DTE	657	15.486062	0.208090	a0	00	00	00	31	31	af	0f
96	1,	665:	DTE	665	15.544799	0.043950	a0	00	00	00	31	31	af	0f
97	1,	673:	DTE	673	15.566045	0.006666	a0	00	00	08	31	31	af	07
98	1,	681:	DTE	681	15.597296	0.016668	a0	00	00	25	00	01	af	2b
99	1,	689:	DTE	689	15.617074	0.004988	a0	00	00	27	00	01	af	29
100	1,	697:	DTE	697	15.846427	0.214770	a0	00	00	00	31	31	af	0f
101	1,	705:	DTE	705	15.866410	0.005208	a0	00	00	00	31	31	af	0f
102														
103	1,	713:	DTE	713	25.944809	10.063606	a0	00	00	25	00	01	af	2b
104	1,	721:	DTE	721	25.963555	0.003959	a0	00	00	27	00	01	af	29
105	1,	729:	DTE	729	26.183935	0.205602	a0	00	00	20	31	31	af	2f
106	1,	737:	DTE	737	26.215377	0.016653	a0	00	00	25	00	01	af	2b
107	1,	745:	DTE	745	26.233711	0.003542	a0	00	00	27	00	01	af	29
108	1,	753:	DTE	753	26.464092	0.215646	a0	00	00	00	31	31	af	0f
109														
110	1,	761:	DTE	761	28.072804	1.593506	a0	00	00	25	00	01	af	2b
111	1,	769:	DTE	769	28.098412	0.010821	a0	00	00	27	00	01	af	29
112	1,	777:	DTE	777	28.317347	0.204144	a0	00	00	40	31	31	af	4f
113	1,	785:	DTE	785	28.348579	0.016652	a0	00	00	25	00	01	af	2b
114	1,	793:	DTE	793	28.367331	0.003959	a0	00	00	27	00	01	af	29
115	1,	801:	DTE	801	28.607712	0.225173	a0	00	00	00	31	31	af	0f
116														
117	1,	809:	DTE	809	30.636970	2.014471	a0	00	00	25	00	01	af	2b
118	1,	817:	DTE	817	30.665090	0.013333	a0	00	00	27	00	01	af	29
119	1,	825:	DTE	825	30.895470	0.215588	a0	00	00	09	00	02	af	04
120	1,	833:	DTE	833	30.916925	0.006874	a0	00	00	25	00	01	af	2b
121	1,	841:	DTE	841	30.936718	0.005000	a0	00	00	27	00	01	af	29
122	1,	849:	DTE	849	31.165016	0.213517	a0	00	00	0b	00	02	af	06
123														
124	1,	857:	DTE	857	34.210562	3.030758	a0	00	00	25	00	01	af	2b
125	1,	865:	DTE	865	34.233266	0.007917	a0	00	00	27	00	01	af	29
126	1,	873:	DTE	873	34.452619	0.204562	a0	00	00	0b	00	03	af	07
127														
128	1,	881:	DTE	881	42.378216	7.910823	a0	00	00	25	00	01	af	2b
129	1,	889:	DTE	889	42.396753	0.003958	a0	00	00	27	00	01	af	29
130	1,	897:	DTE	897	42.617343	0.205656	a0	00	02	00	31	31	af	0d
131	1,	905:	DTE	905	42.637547	0.005616	a0	00	00	25	00	01	af	2b
132	1,	913:	DTE	913	42.665464	0.013292	a0	00	00	27	00	01	af	29
133	1,	921:	DTE	921	42.893554	0.213298	a0	00	00	00	31	31	af	0f
134														
135	1,	929:	DTE	929	44.669308	1.760968	a0	00	00	25	00	01	af	2b
136	1,	937:	DTE	937	44.699722	0.015834	a0	00	00	27	00	01	af	29
137	1,	945:	DTE	945	44.932811	0.218298	a0	00	01	00	31	31	af	0e
138	1,	953:	DTE	953	44.965361	0.017555	a0	00	00	25	00	01	af	2b
139	1,	961:	DTE	961	44.985085	0.005000	a0	00	00	27	00	01	af	29
140	1,	969:	DTE	969	45.232758	0.232882	a0	00	00	00	31	31	af	0f
141														
142	1,	977:	DTE	977	47.098916	1.851371	a0	00	00	25	00	01	af	2b
143	1,	985:	DTE	985	47.118721	0.005016	a0	00	00	27	00	01	af	29
144	1,	993:	DTE	993	47.339710	0.206214	a0	00	00	09	00	01	af	07
145	1,	1001:	DTE	1001	47.360124	0.005625	a0	00	00	25	00	01	af	2b
146	1,	1009:	DTE	1009	47.379916	0.005001	a0	00	00	27	00	01	af	29
147	1,	1017:	DTE	1017	47.599882	0.205176	a0	00	00	0b	00	01	af	05
148														
149	1,	1025:	DTE	1025	49.065063	1.450396	a0	00	00	25	00	01	af	2b
150	1,	1033:	DTE	1033	49.100685	0.020836	a0	00	00	27	00	01	af	29
151	1,	1041:	DTE	1041	49.331939	0.216463	a0	00	00	07	00	60	af	68
152														

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153      1,      1049: DTE      1049      55.873563      6.526669 a0 00 00 25 00 01 af 2b
154      1,      1057: DTE      1057      55.893350      0.005209 a0 00 00 27 00 01 af 29
155      1,      1065: DTE      1065      56.114566      0.205814 a0 00 04 00 31 31 af 0b
156      1,      1073: DTE      1073      56.134145      0.004793 a0 00 00 25 00 01 af 2b
157      1,      1081: DTE      1081      56.153923      0.005000 a0 00 00 27 00 01 af 29
158      1,      1089: DTE      1089      56.374318      0.205812 a0 00 00 00 31 31 af 0f
159
160      1,      1097: DTE      1097      57.970932      1.581840 a0 00 00 25 00 01 af 2b
161      1,      1105: DTE      1105      58.001970      0.016252 a0 00 00 27 00 01 af 29
162      1,      1113: DTE      1113      58.235269      0.218509 a0 00 08 00 31 31 af 07
163      1,      1121: DTE      1121      58.252764      0.002709 a0 00 00 25 00 01 af 2b
164      1,      1129: DTE      1129      58.273168      0.005834 a0 00 00 27 00 01 af 29
165      1,      1137: DTE      1137      58.500231      0.212272 a0 00 00 00 31 31 af 0f
166
167      1,      1145: DTE      1145      60.468652      1.953807 a0 00 00 25 00 01 af 2b
168      1,      1153: DTE      1153      60.486356      0.002913 a0 00 00 27 00 01 af 29
169      1,      1161: DTE      1161      60.707794      0.206645 a0 00 00 21 00 00 af 2e
170
171      1,      1169: DTE      1169      62.547284      1.824716 a0 00 00 25 00 01 af 2b
172      1,      1177: DTE      1177      62.564620      0.002547 a0 00 00 27 00 01 af 29
173      1,      1185: DTE      1185      62.785370      0.206006 a0 00 00 07 00 60 af 68
174
175 There were a total of      1192 bytes transferred
176
177 There were a total of      0 DCE bytes transferred
178 The first DCE byte came in at 0.000000 seconds from the start of data collection
179 The last DCE byte was at 0.000000 seconds from the start of data collection
180
181 There were a total of      1192 DTE bytes transferred
182 The first DTE byte came in at 0.000000 seconds from the start of data collection
183 The last DTE byte was at 62.800158 seconds from the start of data collection
184

```

1.13.2 aa.out

```

1 $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2 $Header: d:/Binder2/1stLooks/RCS/AA.out,v 1.3 2007-05-31 08:02:22-07 Hamilton Exp Hamilton $
3 FTS capture buffer (5/29/2007 8:37:08 AM)
4 Event 1 (5/29/2007 8:29:41.716618 AM) through
5 Event 1,548 (5/29/2007 8:36:44.528155 AM)
6
7 Hello
8 1, 1: DTE 5 248.296950 0.000000 a0 00 00 00 00 00 af 0f
9 1, 9: DTE 13 248.318962 0.007017 a0 00 00 21 00 00 af 2e
10 1, 17: DTE 21 248.343185 0.009378 a0 00 00 07 00 60 af 68
11 1, 25: DTE 29 248.415674 0.057492 a0 00 00 00 00 00 af 0f
12 Up
13 1, 33: DTE 37 290.508328 42.078075 a0 00 00 25 00 01 af 2b
14 1, 41: DTE 45 290.543938 0.021045 a0 00 00 27 00 01 af 29
15 1, 49: DTE 53 290.775776 0.217049 a0 00 00 00 00 00 af 0f
16 1, 57: DTE 61 290.808688 0.018292 a0 00 00 00 00 31 af 3e
17 1, 65: DTE 69 290.830096 0.006617 a0 00 00 08 00 31 af 36
18 1, 73: DTE 77 291.646895 0.801972 a0 00 00 08 00 31 af 36
19 1, 81: DTE 85 292.463223 0.801929 a0 00 00 08 00 31 af 36
20 1, 89: DTE 93 293.157272 0.679484 a0 00 00 25 00 01 af 2b
21 1, 97: DTE 101 293.180185 0.008126 a0 00 00 27 00 01 af 29
22 1, 105: DTE 109 293.407649 0.212673 a0 00 00 00 00 31 af 3e
23 1, 113: DTE 117 293.429777 0.007549 a0 00 00 00 00 31 af 3e
24 Up-Right
25 1, 121: DTE 125 295.849966 2.405445 a0 00 00 25 00 01 af 2b
26 1, 129: DTE 133 295.875795 0.011249 a0 00 00 27 00 01 af 29
27 1, 137: DTE 141 296.098886 0.208508 a0 00 00 00 00 31 af 3e
28 1, 145: DTE 149 296.119133 0.005461 a0 00 00 00 00 31 af 3e
29 1, 153: DTE 157 296.142840 0.008542 a0 00 00 08 00 31 af 36
30 1, 161: DTE 165 296.170743 0.013114 a0 00 00 08 31 31 af 07
31 1, 169: DTE 173 296.189911 0.004376 a0 00 00 0a 31 31 af 05
32 1, 177: DTE 181 297.006450 0.801748 a0 00 00 0a 31 31 af 05
33 1, 185: DTE 189 297.822780 0.801728 a0 00 00 0a 31 31 af 05
34 1, 193: DTE 197 298.639316 0.801958 a0 00 00 0a 31 31 af 05
35 1, 201: DTE 205 299.155070 0.501176 a0 00 00 25 00 01 af 2b
36 1, 209: DTE 213 299.175885 0.006041 a0 00 00 27 00 01 af 29
37 1, 217: DTE 221 299.414184 0.223298 a0 00 00 00 31 31 af 0f
38 1, 225: DTE 229 299.441888 0.012917 a0 00 00 00 31 31 af 0f
39 Right
40 1, 233: DTE 237 301.910874 2.454404 a0 00 00 25 00 01 af 2b
41 1, 241: DTE 245 301.935249 0.009795 a0 00 00 27 00 01 af 29
42 1, 249: DTE 253 302.154378 0.204351 a0 00 00 00 31 31 af 0f
43 1, 257: DTE 261 302.175624 0.006458 a0 00 00 00 31 31 af 0f
44 1, 265: DTE 269 302.207279 0.016876 a0 00 00 02 31 31 af 0d
45 1, 273: DTE 277 303.024443 0.802375 a0 00 00 02 31 31 af 0d
46 1, 281: DTE 285 303.840771 0.801749 a0 00 00 02 31 31 af 0d
47 1, 289: DTE 293 304.657099 0.801750 a0 00 00 02 31 31 af 0d
48 1, 297: DTE 301 305.473634 0.801748 a0 00 00 02 31 31 af 0d
49 1, 305: DTE 309 305.640274 0.152060 a0 00 00 25 00 01 af 2b
50 1, 313: DTE 317 305.660161 0.005264 a0 00 00 27 00 01 af 29
51 1, 321: DTE 325 305.881069 0.206172 a0 00 00 00 31 31 af 0f
52 1, 329: DTE 333 305.908357 0.012500 a0 00 00 00 31 31 af 0f
53 Right-Down
54 1, 337: DTE 341 307.670782 1.747425 a0 00 00 25 00 01 af 2b
55 1, 345: DTE 349 307.693487 0.008125 a0 00 00 27 00 01 af 29
56 1, 353: DTE 357 307.914284 0.206005 a0 00 00 00 31 31 af 0f
57 1, 361: DTE 365 307.942409 0.013336 a0 00 00 00 31 31 af 0f
58 1, 369: DTE 373 307.966573 0.009376 a0 00 00 10 31 31 af 1f
59 1, 377: DTE 381 307.984694 0.003343 a0 00 00 10 31 31 af 1f
60 1, 385: DTE 389 308.009475 0.009999 a0 00 00 12 31 31 af 1d
61 1, 393: DTE 397 308.826225 0.801958 a0 00 00 12 31 31 af 1d
62 1, 401: DTE 405 309.642554 0.801751 a0 00 00 12 31 31 af 1d
63 1, 409: DTE 413 310.459089 0.801948 a0 00 00 12 31 31 af 1d
64 1, 417: DTE 421 311.276458 0.802581 a0 00 00 12 31 31 af 1d
65 1, 425: DTE 429 311.377277 0.086240 a0 00 00 25 00 01 af 2b
66 1, 433: DTE 437 311.408303 0.016238 a0 00 00 27 00 01 af 29
67 1, 441: DTE 445 311.635996 0.212902 a0 00 00 00 31 31 af 0f
68 1, 449: DTE 453 311.660972 0.010195 a0 00 00 00 31 31 af 0f

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69 Down
70 1, 457: DTE 461 313.628997 1.953234 a0 00 00 25 00 01 af 2b
71 1, 465: DTE 469 313.648991 0.004792 a0 00 00 27 00 01 af 29
72 1, 473: DTE 477 313.874165 0.210382 a0 00 00 00 31 31 af 0f
73 1, 481: DTE 485 313.895619 0.006666 a0 00 00 00 31 31 af 0f
74 1, 489: DTE 493 313.919162 0.008751 a0 00 00 10 31 31 af 1f
75 1, 497: DTE 501 314.736118 0.802165 a0 00 00 10 31 31 af 1f
76 1, 505: DTE 509 315.552654 0.801956 a0 00 00 10 31 31 af 1f
77 1, 513: DTE 517 316.368983 0.801860 a0 00 00 10 31 31 af 1f
78 1, 521: DTE 525 317.185309 0.801762 a0 00 00 10 31 31 af 1f
79 1, 529: DTE 533 317.523383 0.323507 a0 00 00 25 00 01 af 2b
80 1, 537: DTE 541 317.546283 0.008126 a0 00 00 27 00 01 af 29
81 1, 545: DTE 549 317.773123 0.212049 a0 00 00 00 31 31 af 0f
82 1, 553: DTE 557 317.792078 0.004318 a0 00 00 00 31 31 af 0f
83 Down-Left
84 1, 561: DTE 565 319.926324 2.119457 a0 00 00 25 00 01 af 2b
85 1, 569: DTE 573 319.945070 0.003959 a0 00 00 27 00 01 af 29
86 1, 577: DTE 581 320.174202 0.214341 a0 00 00 00 31 31 af 0f
87 1, 585: DTE 589 320.194407 0.005417 a0 00 00 00 31 31 af 0f
88 1, 593: DTE 597 320.219616 0.010418 a0 00 00 10 31 31 af 1f
89 1, 601: DTE 605 320.239602 0.005209 a0 00 00 10 31 31 af 1f
90 1, 609: DTE 613 320.259601 0.005208 a0 00 00 14 31 31 af 1b
91 1, 617: DTE 621 321.076349 0.801955 a0 00 00 14 31 31 af 1b
92 1, 625: DTE 629 321.892678 0.801748 a0 00 00 14 31 31 af 1b
93 1, 633: DTE 637 322.709006 0.801748 a0 00 00 14 31 31 af 1b
94 1, 641: DTE 645 323.204969 0.480759 a0 00 00 25 00 01 af 2b
95 1, 649: DTE 653 323.225173 0.005416 a0 00 00 27 00 01 af 29
96 1, 657: DTE 661 323.444723 0.204563 a0 00 00 00 31 31 af 0f
97 1, 665: DTE 669 323.475146 0.015428 a0 00 00 00 31 31 af 0f
98 Left
99 1, 673: DTE 677 325.780185 2.290272 a0 00 00 25 00 01 af 2b
100 1, 681: DTE 685 325.808922 0.013958 a0 00 00 27 00 01 af 29
101 1, 689: DTE 693 326.037845 0.214131 a0 00 00 00 31 31 af 0f
102 1, 697: DTE 701 326.061592 0.009168 a0 00 00 00 31 31 af 0f
103 1, 705: DTE 709 326.082008 0.005625 a0 00 00 04 31 31 af 0b
104 1, 713: DTE 717 326.899173 0.802373 a0 00 00 04 31 31 af 0b
105 1, 721: DTE 725 327.715501 0.801762 a0 00 00 04 31 31 af 0b
106 1, 729: DTE 733 328.531830 0.801762 a0 00 00 04 31 31 af 0b
107 1, 737: DTE 741 329.348365 0.801969 a0 00 00 04 31 31 af 0b
108 1, 745: DTE 749 329.422728 0.059380 a0 00 00 25 00 01 af 2b
109 1, 753: DTE 757 329.444795 0.007281 a0 00 00 27 00 01 af 29
110 1, 761: DTE 765 329.665188 0.205395 a0 00 00 00 31 31 af 0f
111 1, 769: DTE 773 329.695171 0.015196 a0 00 00 00 31 31 af 0f
112 Up-Left
113 1, 777: DTE 781 332.384120 2.674158 a0 00 00 25 00 01 af 2b
114 1, 785: DTE 789 332.408697 0.009791 a0 00 00 27 00 01 af 29
115 1, 793: DTE 797 332.635330 0.211841 a0 00 00 00 31 31 af 0f
116 1, 801: DTE 805 332.655164 0.005036 a0 00 00 00 31 31 af 0f
117 1, 809: DTE 813 332.690542 0.020413 a0 00 00 08 31 31 af 07
118 1, 817: DTE 821 332.711770 0.006444 a0 00 00 08 31 31 af 07
119 1, 825: DTE 829 332.742396 0.015835 a0 00 00 0c 31 31 af 03
120 1, 833: DTE 837 333.559353 0.802166 a0 00 00 0c 31 31 af 03
121 1, 841: DTE 845 334.375888 0.802120 a0 00 00 0c 31 31 af 03
122 1, 849: DTE 853 335.192216 0.801748 a0 00 00 0c 31 31 af 03
123 1, 857: DTE 861 336.008545 0.801748 a0 00 00 0c 31 31 af 03
124 1, 865: DTE 869 336.375365 0.352242 a0 00 00 25 00 01 af 2b
125 1, 873: DTE 877 336.407643 0.017501 a0 00 00 27 00 01 af 29
126 1, 881: DTE 885 336.627397 0.204963 a0 00 00 00 31 31 af 0f
127 1, 889: DTE 893 336.652393 0.010207 a0 00 00 00 31 31 af 0f
128 Up
129 1, 897: DTE 901 339.417997 2.750977 a0 00 00 25 00 01 af 2b
130 1, 905: DTE 909 339.437159 0.004374 a0 00 00 27 00 01 af 29
131 1, 913: DTE 917 339.657750 0.205799 a0 00 00 00 31 31 af 0f
132 1, 921: DTE 925 339.677963 0.005594 a0 00 00 00 31 31 af 0f
133 1, 929: DTE 933 339.701911 0.009166 a0 00 00 08 31 31 af 07
134 1, 937: DTE 941 340.518867 0.801956 a0 00 00 08 31 31 af 07
135 1, 945: DTE 949 341.335196 0.801749 a0 00 00 08 31 31 af 07
136 1, 953: DTE 957 342.151524 0.801750 a0 00 00 08 31 31 af 07
137 1, 961: DTE 965 342.968059 0.801748 a0 00 00 08 31 31 af 07
138 1, 969: DTE 973 343.039088 0.056450 a0 00 00 25 00 01 af 2b
139 1, 977: DTE 981 343.058667 0.005000 a0 00 00 27 00 01 af 29
140 1, 985: DTE 989 343.283424 0.209965 a0 00 00 00 31 31 af 0f

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141	1,	993:	DTE	997	343.309878	0.011666	a0	00	00	00	31	31	af	0f
142														
143	Tele													
144	1,	1001:	DTE	1005	348.223045	4.898387	a0	00	00	25	00	01	af	2b
145	1,	1009:	DTE	1013	348.242207	0.004374	a0	00	00	27	00	01	af	29
146	1,	1017:	DTE	1021	348.474046	0.217211	a0	00	00	20	31	31	af	2f
147	1,	1025:	DTE	1029	352.409047	3.920213	a0	00	00	25	00	01	af	2b
148	1,	1033:	DTE	1037	352.442376	0.018335	a0	00	00	27	00	01	af	29
149	1,	1041:	DTE	1045	352.664006	0.206841	a0	00	00	00	31	31	af	0f
150	Wide													
151	1,	1049:	DTE	1053	355.205310	2.526724	a0	00	00	25	00	01	af	2b
152	1,	1057:	DTE	1061	355.254417	0.034153	a0	00	00	27	00	01	af	29
153	1,	1065:	DTE	1069	355.479604	0.209979	a0	00	00	40	31	31	af	4f
154	1,	1073:	DTE	1077	357.985867	2.491488	a0	00	00	25	00	01	af	2b
155	1,	1081:	DTE	1085	358.010657	0.010003	a0	00	00	27	00	01	af	29
156	1,	1089:	DTE	1093	358.233119	0.207478	a0	00	00	00	31	31	af	0f
157	Wash													
158	1,	1097:	DTE	1101	361.143066	2.895159	a0	00	00	25	00	01	af	2b
159	1,	1105:	DTE	1109	361.173686	0.016041	a0	00	00	27	00	01	af	29
160	1,	1113:	DTE	1117	361.403234	0.214757	a0	00	00	09	00	02	af	04
161	1,	1121:	DTE	1125	363.610383	2.192570	a0	00	00	25	00	01	af	2b
162	1,	1129:	DTE	1133	363.641420	0.016041	a0	00	00	27	00	01	af	29
163	1,	1137:	DTE	1141	363.872843	0.216645	a0	00	00	0b	00	02	af	06
164	Lights													
165	1,	1145:	DTE	1149	369.359262	5.471631	a0	00	00	25	00	01	af	2b
166	1,	1153:	DTE	1157	369.378617	0.004581	a0	00	00	27	00	01	af	29
167	1,	1161:	DTE	1165	369.607750	0.214341	a0	00	00	09	00	03	af	05
168														
169	Near													
170	1,	1169:	DTE	1173	373.789791	4.166629	a0	00	00	25	00	01	af	2b
171	1,	1177:	DTE	1181	373.809788	0.005209	a0	00	00	27	00	01	af	29
172	1,	1185:	DTE	1189	374.041003	0.215962	a0	00	02	00	31	31	af	0d
173	1,	1193:	DTE	1197	374.857747	0.801957	a0	00	02	00	31	31	af	0d
174	1,	1201:	DTE	1205	375.674076	0.801750	a0	00	02	00	31	31	af	0d
175	1,	1209:	DTE	1213	376.490403	0.801748	a0	00	02	00	31	31	af	0d
176	1,	1217:	DTE	1221	377.306940	0.801958	a0	00	02	00	31	31	af	0d
177	1,	1225:	DTE	1229	378.123266	0.801748	a0	00	02	00	31	31	af	0d
178	1,	1233:	DTE	1237	378.342809	0.204964	a0	00	00	25	00	01	af	2b
179	1,	1241:	DTE	1245	378.374890	0.017291	a0	00	00	27	00	01	af	29
180	1,	1249:	DTE	1253	378.592981	0.203300	a0	00	00	00	31	31	af	0f
181	Far													
182	1,	1257:	DTE	1261	381.189243	2.581475	a0	00	00	25	00	01	af	2b
183	1,	1265:	DTE	1269	381.208181	0.004164	a0	00	00	27	00	01	af	29
184	1,	1273:	DTE	1277	381.433367	0.210185	a0	00	01	00	31	31	af	0e
185	1,	1281:	DTE	1285	382.250323	0.802179	a0	00	01	00	31	31	af	0e
186	1,	1289:	DTE	1293	383.066650	0.801761	a0	00	01	00	31	31	af	0e
187	1,	1297:	DTE	1301	383.883186	0.801969	a0	00	01	00	31	31	af	0e
188	1,	1305:	DTE	1309	384.615569	0.717816	a0	00	00	25	00	01	af	2b
189	1,	1313:	DTE	1317	384.637218	0.007084	a0	00	00	27	00	01	af	29
190	1,	1321:	DTE	1325	384.858029	0.206019	a0	00	00	00	31	31	af	0f
191	Wipe													
192	1,	1329:	DTE	1333	387.561349	2.688547	a0	00	00	25	00	01	af	2b
193	1,	1337:	DTE	1341	387.587373	0.011251	a0	00	00	27	00	01	af	29
194	1,	1345:	DTE	1349	387.808809	0.206644	a0	00	00	09	00	01	af	07
195	1,	1353:	DTE	1357	390.672714	2.849131	a0	00	00	25	00	01	af	2b
196	1,	1361:	DTE	1365	390.693126	0.005623	a0	00	00	27	00	01	af	29
197	1,	1369:	DTE	1373	390.913092	0.205173	a0	00	00	0b	00	01	af	05
198	Aux 4													
199	1,	1377:	DTE	1381	395.941257	5.013169	a0	00	00	25	00	01	af	2b
200	1,	1385:	DTE	1389	395.963332	0.007499	a0	00	00	27	00	01	af	29
201	1,	1393:	DTE	1397	396.187464	0.209353	a0	00	00	07	00	63	af	6b
202														
203	Open													
204	1,	1401:	DTE	1405	399.639208	3.436956	a0	00	00	25	00	01	af	2b
205	1,	1409:	DTE	1413	399.658149	0.004166	a0	00	00	27	00	01	af	29
206	1,	1417:	DTE	1421	399.879585	0.206437	a0	00	04	00	31	31	af	0b
207	1,	1425:	DTE	1429	403.214467	3.320107	a0	00	00	25	00	01	af	2b
208	1,	1433:	DTE	1437	403.234255	0.005001	a0	00	00	27	00	01	af	29
209	1,	1441:	DTE	1445	403.454011	0.204769	a0	00	00	00	31	31	af	0f
210	Close													
211	1,	1449:	DTE	1453	405.753646	2.284848	a0	00	00	25	00	01	af	2b
212	1,	1457:	DTE	1461	405.780505	0.012250	a0	00	00	27	00	01	af	29

```

213      1,      1465: DTE      1469      406.008398      0.213095 a0 00 08 00 31 31 af 07
214      1,      1473: DTE      1477      409.031874      3.008702 a0 00 00 25 00 01 af 2b
215      1,      1481: DTE      1485      409.053314      0.006667 a0 00 00 27 00 01 af 29
216      1,      1489: DTE      1493      409.282070      0.213464 a0 00 00 00 31 31 af 0f
217 Patrol
218      1,      1497: DTE      1501      414.492249      5.195224 a0 00 00 25 00 01 af 2b
219      1,      1505: DTE      1509      414.512440      0.005625 a0 00 00 27 00 01 af 29
220      1,      1513: DTE      1517      414.744084      0.216853 a0 00 00 23 00 01 af 2d
221 Auto Scan
222      1,      1521: DTE      1525      422.547623      7.788348 a0 00 00 25 00 01 af 2b
223      1,      1529: DTE      1533      422.578245      0.015834 a0 00 00 27 00 01 af 29
224      1,      1537: DTE      1541      422.796758      0.203945 a0 00 00 07 00 63 af 6b
225
226 There were a total of      1544 bytes transferred
227
228 There were a total of      0 DCE bytes transferred
229 The first DCE byte came in at 0.000000 seconds from the start of data collection
230 The last DCE byte was at 0.000000 seconds from the start of data collection
231
232 There were a total of      1544 DTE bytes transferred
233 The first DTE byte came in at 248.296950 seconds from the start of data collection
234 The last DTE byte was at 422.811537 seconds from the start of data collection
235

```

1.14 Philips

This data was collected from a Dedicated Micro Systems Sprite 2 on 29MAY07.

1. Baud rate: 9600
2. Parity: None
3. Hello Message Length: 47
4. Hello Message last few bytes: 0x00 0xD0 0x0C
5. Is the protocol a Polling Protocol?: No
6. Name of the data capture file: 29MAY07B.txt and 29MAY07BB.txt
7. Protocol Characteristics:
 - 7.1 Message Length(s): 7 or 8 bytes.
 - 7.2 ISO Level 1: RS-422.
 - 7.3 Unique first byte: Either 0x87 or 0x86. The first byte is indicated by having its most significant bit set. The other seven bits indicate the length of the message.
 - 7.4 Unique last byte: No
 - 7.5 Checksum: This is the last byte and is the arithmetic sum of all bytes considered as 7-bit values. I.e. the most significant bit on the first byte is not considered.
 - 7.6 Device address: Bytes 2 and 3, as 7-bit values giving a upper range of 16K units.
8. A correct Philips protocol document is available, which is on file here at Pelco, that describes this protocol in detail.
9. A TXB (TXB-B) that implements this protocol is available, **however** it does not run on RS-422 lines. Instead it is based on Philips' (Burle's, Bosch's) implementation over a 32 Kbps Manchester coded communications link.

1.14.1 b.out

```

1 $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2 $Header: d:/Binder2/1stLooks/RCS/B.out,v 1.2 2007-05-31 08:02:22-07 Hamilton Exp Hamilton $
3 FTS capture buffer (5/29/2007 7:36:05 AM)
4 Event 1 (5/29/2007 7:34:45.009956 AM) through
5 Event 845 (5/29/2007 7:35:28.505284 AM)
6
7 1, 1: DTE 1 0.000000 0.000000 87 00 00 05 00 00 00 0c
8 1, 9: DTE 9 0.215173 0.207156 87 00 00 05 00 00 00 0c
9 1, 17: DTE 17 0.235164 0.011869 87 00 00 05 08 00 00 14
10 1, 25: DTE 25 0.279637 0.036244 87 00 00 05 08 00 08 1c
11 1, 33: DTE 33 0.293283 0.005522 87 00 00 05 08 00 08 1c
12 1, 41: DTE 41 0.519289 0.217834 87 00 00 05 00 00 00 0c
13 1, 49: DTE 49 0.536368 0.009062 87 00 00 05 00 00 00 0c
14 1, 57: DTE 57 1.238240 0.693746 87 00 00 05 00 00 00 0c
15 1, 65: DTE 65 1.457888 0.211527 87 00 00 05 00 00 00 0c
16 1, 73: DTE 73 1.483823 0.017917 87 00 00 05 08 00 00 14
17 1, 81: DTE 81 1.497356 0.005408 87 00 00 05 08 00 08 1c
18 1, 89: DTE 89 1.519545 0.014063 87 00 00 05 08 40 08 5c

```

¹⁶\$Header: d:/Binder2/1stLooks/RCS/Philips.inc,v 1.1 2007-06-05 08:30:35-07 Hamilton Exp Hamilton \$

19	1,	97:	DTE	97	1.537455	0.009785	87	00	00	05	08	40	09	5d
20	1,	105:	DTE	105	1.557768	0.012189	87	00	00	05	08	40	09	5d
21	1,	113:	DTE	113	1.783669	0.217882	87	00	00	05	00	00	00	0c
22	1,	121:	DTE	121	1.797938	0.006148	87	00	00	05	00	00	00	0c
23	1,	129:	DTE	129	2.596872	0.790810	87	00	00	05	00	00	00	0c
24	1,	137:	DTE	137	2.818506	0.213616	87	00	00	05	00	00	00	0c
25	1,	145:	DTE	145	2.836267	0.009639	87	00	00	05	00	40	00	4c
26	1,	153:	DTE	153	2.854539	0.010105	87	00	00	05	00	40	01	4d
27	1,	161:	DTE	161	2.883491	0.020825	87	00	00	05	00	40	01	4d
28	1,	169:	DTE	169	3.101377	0.209762	87	00	00	05	00	00	00	0c
29	1,	177:	DTE	177	3.120541	0.011042	87	00	00	05	00	00	00	0c
30														
31	1,	185:	DTE	185	4.137778	1.009224	87	00	00	05	00	00	00	0c
32	1,	193:	DTE	193	4.357217	0.211326	87	00	00	05	00	00	00	0c
33	1,	201:	DTE	201	4.382837	0.017498	87	00	00	05	08	00	00	14
34	1,	209:	DTE	209	4.397209	0.006253	87	00	00	05	08	00	04	18
35	1,	217:	DTE	217	4.418769	0.013333	87	00	00	05	08	40	04	58
36	1,	225:	DTE	225	4.437305	0.010515	87	00	00	05	08	40	05	59
37	1,	233:	DTE	233	4.460846	0.015415	87	00	00	05	08	40	05	59
38	1,	241:	DTE	241	4.683207	0.214236	87	00	00	05	00	00	00	0c
39	1,	249:	DTE	249	4.697890	0.006667	87	00	00	05	00	00	00	0c
40	1,	257:	DTE	257	5.486416	0.780505	87	00	00	05	00	00	00	0c
41	1,	265:	DTE	265	5.704396	0.209971	87	00	00	05	00	00	00	0c
42	1,	273:	DTE	273	5.724810	0.012396	87	00	00	05	08	00	00	14
43	1,	281:	DTE	281	5.753658	0.020721	87	00	00	05	08	00	04	18
44	1,	289:	DTE	289	5.764805	0.003023	87	00	00	05	08	00	04	18
45	1,	297:	DTE	297	5.990080	0.217150	87	00	00	05	00	00	00	0c
46	1,	305:	DTE	305	6.010077	0.011876	87	00	00	05	00	00	00	0c
47														
48	1,	313:	DTE	313	7.191142	1.172941	87	00	00	05	00	00	00	0c
49	1,	321:	DTE	321	7.417248	0.217985	87	00	00	05	00	00	00	0c
50	1,	329:	DTE	329	7.427349	0.001980	87	00	00	05	08	00	00	14
51	1,	337:	DTE	337	7.447245	0.011773	87	00	00	05	08	00	04	18
52	1,	345:	DTE	345	7.467447	0.012188	87	00	00	05	08	40	04	58
53	1,	353:	DTE	353	7.487342	0.011770	87	00	00	05	08	40	06	5a
54	1,	361:	DTE	361	7.515357	0.019896	87	00	00	05	08	40	06	5a
55	1,	369:	DTE	369	7.727827	0.204347	87	00	00	05	00	00	00	0c
56	1,	377:	DTE	377	7.754901	0.019062	87	00	00	05	00	00	00	0c
57	1,	385:	DTE	385	8.460772	0.697746	87	00	00	05	00	00	00	0c
58	1,	393:	DTE	393	8.680798	0.211737	87	00	00	05	00	00	00	0c
59	1,	401:	DTE	401	8.700073	0.011157	87	00	00	05	00	40	00	4c
60	1,	409:	DTE	409	8.719327	0.011138	87	00	00	05	00	40	02	4e
61	1,	417:	DTE	417	8.749327	0.021771	87	00	00	05	00	40	02	4e
62	1,	425:	DTE	425	8.959716	0.202318	87	00	00	05	00	00	00	0c
63	1,	433:	DTE	433	8.981475	0.013646	87	00	00	05	00	00	00	0c
64														
65	1,	441:	DTE	441	10.034643	1.045043	87	00	00	05	00	00	00	0c
66	1,	449:	DTE	449	10.252690	0.209977	87	00	00	05	00	00	00	0c
67	1,	457:	DTE	457	10.272460	0.011811	87	00	00	05	08	00	00	14
68	1,	465:	DTE	465	10.301787	0.021042	87	00	00	05	08	00	08	1c
69	1,	473:	DTE	473	10.315115	0.005313	87	00	00	05	08	40	08	5c
70	1,	481:	DTE	481	10.332539	0.009299	87	00	00	05	08	40	0a	5e
71	1,	489:	DTE	489	10.352652	0.011912	87	00	00	05	08	40	0a	5e
72	1,	497:	DTE	497	10.582932	0.222095	87	00	00	05	00	00	00	0c
73	1,	505:	DTE	505	10.598194	0.006875	87	00	00	05	00	00	00	0c
74	1,	513:	DTE	513	11.355102	0.748783	87	00	00	05	00	00	00	0c
75	1,	521:	DTE	521	11.583249	0.219860	87	00	00	05	00	00	00	0c
76	1,	529:	DTE	529	11.594298	0.003032	87	00	00	05	08	00	00	14
77	1,	537:	DTE	537	11.614290	0.011983	87	00	00	05	08	00	08	1c
78	1,	545:	DTE	545	11.634410	0.012108	87	00	00	05	08	00	08	1c
79	1,	553:	DTE	553	11.860702	0.218246	87	00	00	05	00	00	00	0c
80	1,	561:	DTE	561	11.883929	0.015209	87	00	00	05	00	00	00	0c
81														
82	1,	569:	DTE	569	17.212495	5.320441	87	00	00	05	00	00	00	0c
83	1,	577:	DTE	577	17.429504	0.208512	87	00	00	05	38	40	20	24
84	1,	585:	DTE	585	17.449181	0.011557	87	00	00	05	30	40	20	1c
85	1,	593:	DTE	593	17.687588	0.230135	87	00	00	05	08	40	00	54
86														
87	1,	601:	DTE	601	19.084974	1.389270	87	00	00	05	00	40	00	4c
88	1,	609:	DTE	609	19.304309	0.211326	87	00	00	05	38	40	10	14
89	1,	617:	DTE	617	19.322325	0.009896	87	00	00	05	30	40	10	0c
90	1,	625:	DTE	625	19.548644	0.218201	87	00	00	05	08	40	00	54

```

91
92      1,      633: DTE      633      21.552699      1.996039 87 00 00 05 00 40 00 4c
93      1,      641: DTE      641      21.762249      0.201429 87 00 00 05 00 40 00 4c
94
95      1,      649: DTE      649      23.468225      1.697861 87 00 00 05 00 40 00 4c
96
97      1,      657: DTE      657      26.528986      3.052640 87 00 00 05 00 40 00 4c
98      1,      665: DTE      665      26.747911      0.210804 87 00 00 05 00 40 40 0c
99      1,      673: DTE      673      26.803114      0.047079 87 00 00 05 00 40 40 0c
100     1,      681: DTE      681      27.019989      0.208761 87 00 00 05 00 40 00 4c
101
102     1,      689: DTE      689      28.646147      1.617973 87 00 00 05 00 40 00 4c
103     1,      697: DTE      697      28.883398      0.229132 87 00 00 05 00 41 00 4d
104     1,      705: DTE      705      28.893083      0.001521 87 00 00 05 00 41 00 4d
105     1,      713: DTE      713      29.116483      0.215276 87 00 00 05 00 40 00 4c
106
107     1,      721: DTE      721      31.068887      1.944073 87 00 00 05 00 40 00 4c
108     1,      729: DTE      729      31.289159      0.212158 87 00 00 05 00 40 00 4c
109
110     1,      737: DTE      737      34.095584      2.798305 87 00 00 05 00 40 00 4c
111     1,      745: DTE      745      34.312738      0.209138 86 00 00 07 01 02 10
112
113     1,      752: DTE      752      36.782972      2.463258 87 00 00 05 00 40 00 4c
114     1,      760: DTE      760      36.997205      0.206117 87 00 00 05 00 44 00 50
115     1,      768: DTE      768      37.017202      0.011772 87 00 00 05 00 44 00 50
116     1,      776: DTE      776      37.247476      0.222255 87 00 00 05 00 40 00 4c
117
118     1,      784: DTE      784      38.886384      1.630577 87 00 00 05 00 40 00 4c
119     1,      792: DTE      792      39.100203      0.205594 87 00 00 05 00 42 00 4e
120     1,      800: DTE      800      39.121026      0.012700 87 00 00 05 00 42 00 4e
121     1,      808: DTE      808      39.347561      0.218409 87 00 00 05 00 40 00 4c
122
123     1,      816: DTE      816      41.014274      1.658495 87 00 00 05 00 40 00 4c
124     1,      824: DTE      824      41.234233      0.211839 86 00 00 07 01 32 40
125
126     1,      831: DTE      831      43.281825      2.040720 87 00 00 05 00 40 00 4c
127     1,      839: DTE      839      43.488249      0.198398 86 00 00 07 01 02 10
128
129 There were a total of      845 bytes transferred
130
131 There were a total of      0 DCE bytes transferred
132 The first DCE byte came in at 0.000000 seconds from the start of data collection
133 The last DCE byte was at 0.000000 seconds from the start of data collection
134
135 There were a total of      845 DTE bytes transferred
136 The first DTE byte came in at 0.000000 seconds from the start of data collection
137 The last DTE byte was at 43.495328 seconds from the start of data collection
138

```

1.14.2 bb.out

```

1 $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2 $Header: d:/Binder2/1stLooks/RCS/BB.out,v 1.3 2007-05-31 08:02:22-07 Hamilton Exp Hamilton $
3 FTS capture buffer (5/29/2007 10:03:37 AM)
4 Event 1 (5/29/2007 9:59:16.329522 AM) through
5 Event 919 (5/29/2007 10:03:18.966405 AM)
6
7 1, 1: DTE 3 59.747109 0.000000 87 00 00 05 00 00 00 0c
8 1, 9: DTE 11 59.791996 0.036872 87 00 00 05 00 00 02 0e
9 1, 17: DTE 19 59.801160 0.001145 87 00 00 05 00 00 00 0c
10 1, 25: DTE 27 59.810327 0.001146 86 00 00 07 02 02 11
11 1, 32: DTE 34 59.818349 0.001146 87 00 00 05 00 00 00 0c
12 1, 40: DTE 42 59.912079 0.085509 87 00 00 05 00 00 00 0c
13
14 1, 48: DTE 50 112.478362 52.558263 87 00 00 05 00 00 00 0c
15 1, 56: DTE 58 112.699474 0.212992 87 00 00 05 00 00 00 0c
16 1, 64: DTE 66 112.717493 0.009898 87 00 00 05 08 00 00 14
17 1, 72: DTE 74 112.736443 0.010833 87 00 00 05 08 00 08 1c
18
19 1, 80: DTE 82 115.537566 2.792999 87 00 00 05 08 00 08 1c
20 1, 88: DTE 90 115.766069 0.220390 87 00 00 05 00 00 00 0c
21 1, 96: DTE 98 115.778773 0.004630 87 00 00 05 00 00 00 0c
22
23 1, 104: DTE 106 119.944778 4.157991 87 00 00 05 00 00 00 0c
24 1, 112: DTE 114 120.163800 0.210907 87 00 00 05 00 00 00 0c
25 1, 120: DTE 122 120.183797 0.011771 87 00 00 05 08 00 00 14
26 1, 128: DTE 130 120.205041 0.013229 87 00 00 05 08 00 08 1c
27 1, 136: DTE 138 120.223999 0.010833 87 00 00 05 08 40 08 5c
28 1, 144: DTE 146 120.249618 0.017501 87 00 00 05 08 40 09 5d
29
30 1, 152: DTE 154 123.135512 2.877770 87 00 00 05 08 40 09 5d
31 1, 160: DTE 162 123.365521 0.221889 87 00 00 05 00 00 00 0c
32 1, 168: DTE 170 123.381197 0.007387 87 00 00 05 00 00 00 0c
33
34 1, 176: DTE 178 125.349222 1.959900 87 00 00 05 00 00 00 0c
35 1, 184: DTE 186 125.567731 0.210388 87 00 00 05 00 00 00 0c
36 1, 192: DTE 194 125.596158 0.020410 87 00 00 05 00 40 00 4c
37 1, 200: DTE 202 125.613346 0.009167 87 00 00 05 00 40 01 4d
38
39 1, 208: DTE 210 128.636201 3.014633 87 00 00 05 00 40 01 4d
40 1, 216: DTE 218 128.870848 0.226533 87 00 00 05 00 00 00 0c
41 1, 224: DTE 226 128.880116 0.001149 87 00 00 05 00 00 00 0c
42
43 1, 232: DTE 234 131.043106 2.154872 87 00 00 05 00 00 00 0c
44 1, 240: DTE 242 131.262441 0.211221 87 00 00 05 00 00 00 0c
45 1, 248: DTE 250 131.284416 0.013853 87 00 00 05 08 00 00 14
46 1, 256: DTE 258 131.303681 0.011035 87 00 00 05 08 00 04 18
47 1, 264: DTE 266 131.333163 0.021461 87 00 00 05 08 40 04 58
48 1, 272: DTE 274 131.342425 0.001146 87 00 00 05 08 40 05 59
49
50 1, 280: DTE 282 134.040720 2.690275 87 00 00 05 08 40 05 59
51 1, 288: DTE 290 134.257592 0.208724 87 00 00 05 00 00 00 0c
52 1, 296: DTE 298 134.283725 0.017910 87 00 00 05 00 00 00 0c
53
54 1, 304: DTE 306 137.084015 2.792435 87 00 00 05 00 00 00 0c
55 1, 312: DTE 314 137.307934 0.215803 87 00 00 05 00 00 00 0c
56 1, 320: DTE 322 137.333973 0.017814 87 00 00 05 08 00 00 14
57 1, 328: DTE 330 137.348027 0.005937 87 00 00 05 08 00 04 18
58
59 1, 336: DTE 338 140.141441 2.785289 87 00 00 05 08 00 04 18
60 1, 344: DTE 346 140.366715 0.217247 87 00 00 05 00 00 00 0c
61 1, 352: DTE 354 140.377962 0.003231 87 00 00 05 00 00 00 0c
62
63 1, 360: DTE 362 143.173454 2.787535 87 00 00 05 00 00 00 0c
64 1, 368: DTE 370 143.402282 0.220708 87 00 00 05 00 00 00 0c
65 1, 376: DTE 378 143.413311 0.002915 87 00 00 05 08 00 00 14
66 1, 384: DTE 386 143.434150 0.012823 87 00 00 05 08 00 04 18
67 1, 392: DTE 394 143.453307 0.011044 87 00 00 05 08 40 04 58
68 1, 400: DTE 402 143.473613 0.012263 87 00 00 05 08 40 06 5a

```

Confidential PELCO Information — 7 July 2008 — 8:19

```

141      1,      807: DTE      809      222.073545      3.040867 87 00 00 05 00 00 00 0c
142      1,      815: DTE      817      222.293305      0.211638 87 00 00 05 00 04 00 10
143
144      1,      823: DTE      825      225.401449      3.100031 87 00 00 05 00 04 00 10
145      1,      831: DTE      833      225.620792      0.211327 87 00 00 05 00 00 00 0c
146
147      1,      839: DTE      841      228.584794      2.955882 87 00 00 05 00 00 00 0c
148      1,      847: DTE      849      228.810072      0.217159 87 00 00 05 00 02 00 0e
149
150      1,      855: DTE      857      231.596819      2.778621 87 00 00 05 00 02 00 0e
151      1,      863: DTE      865      231.812819      0.207887 87 00 00 05 00 00 00 0c
152
153      1,      871: DTE      873      236.756927      4.935987 87 00 00 05 00 00 00 0c
154      1,      879: DTE      881      236.965436      0.200391 87 00 00 05 00 40 02 4e
155      1,      887: DTE      889      236.984392      0.010836 87 00 00 05 00 00 00 0c
156
157      1,      895: DTE      897      242.397630      5.405121 87 00 00 05 00 00 00 0c
158      1,      903: DTE      905      242.609118      0.203201 86 00 00 07 02 02 11
159      1,      910: DTE      912      242.629004      0.012911 87 00 00 05 00 00 00 0c
160
161 There were a total of          917 bytes transferred
162
163 There were a total of          0 DCE bytes transferred
164 The first DCE byte came in at 0.000000 seconds from the start of data collection
165 The last DCE byte was at 0.000000 seconds from the start of data collection
166
167 There were a total of          917 DTE bytes transferred
168 The first DTE byte came in at 59.747109 seconds from the start of data collection
169 The last DTE byte was at 242.636883 seconds from the start of data collection
170

```

1.15 Philips-232

This data was collected from a Dedicated Micro Systems Sprite 2 on 29MAY07.

1. Baud rate: 9600
2. Parity: None
3. Hello Message Length: Unknown
4. Hello Message last few bytes: —
5. Is the protocol a Polling Protocol?: No
6. Name of the data capture file: 29MAY07J.txt (none existent)
7. Special: No data was ever seen on the output of the Sprite 2. This might because testing was done on the RS-422 IO pins, not on the RS-232 pins.

1.16 Samsung

This data was collected from a Dedicated Micro Systems Sprite 2 on 29MAY07.

1. Baud rate: 9600
2. Parity: None
3. Hello Message Length: 36
4. Hello Message last few bytes: 0x00 0x00 0x00 0xFF
5. Is the protocol a Polling Protocol?: No
6. Name of the data capture file: 29MAY07C.txt and 29MAY07CC.txt
7. Protocol Characteristics:
 - 7.1 Message Length(s): 9
 - 7.2 ISO Level 1: _____.
 - 7.3 Unique first byte: 0xA0
 - 7.4 Unique last byte: No.
 - 7.5 Checksum: _____.
 - 7.6 Device address: Byte 3?

¹⁷\$Header: d:/Binder2/1stLooks/RCS/Phili232.inc,v 1.1 2007-06-05 08:30:27-07 Hamilton Exp Hamilton \$

¹⁸\$Header: d:/Binder2/1stLooks/RCS/Samsung.inc,v 1.1 2007-06-05 08:30:51-07 Hamilton Exp Hamilton \$

1.16.1 c.out

```

1 $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2 $Header: d:/Binder2/1stLooks/RCS/C.out,v 1.3 2007-05-31 08:02:22-07 Hamilton Exp Hamilton $
3 FTS capture buffer (5/29/2007 7:41:45 AM)
4 Event 1 (5/29/2007 7:38:18.063162 AM) through
5 Event 648 (5/29/2007 7:41:18.348276 AM)
6
7 1, 1: DTE 1 0.000000 0.000000 a0 fe 01 01 00 00 00 00 ff
8 1, 10: DTE 10 0.024580 0.015312 a0 fe 01 03 1b 00 00 ff e3
9 1, 19: DTE 19 0.046968 0.012915 a0 fe 01 03 1a 00 ff ff e5
10 1, 28: DTE 28 0.113528 0.057392 a0 fe 01 01 00 00 00 00 ff
11
12 1, 37: DTE 37 112.892671 112.769778 a0 fe 01 01 00 00 00 00 ff
13 1, 46: DTE 46 112.917980 0.016044 a0 fe 01 01 00 00 00 11 ee
14 1, 55: DTE 55 112.937868 0.010514 a0 fe 01 01 00 04 00 11 ea
15 1, 64: DTE 64 113.158152 0.210909 a0 fe 01 01 00 00 00 00 ff
16 1, 73: DTE 73 113.178454 0.010931 a0 fe 01 01 00 00 00 00 ff
17
18 1, 82: DTE 82 115.298119 2.110394 a0 fe 01 01 00 00 00 00 ff
19 1, 91: DTE 91 115.319677 0.012260 a0 fe 01 01 00 00 00 11 ee
20 1, 100: DTE 100 115.336716 0.007814 a0 fe 01 01 00 04 00 11 ea
21 1, 109: DTE 109 115.368733 0.022603 a0 fe 01 01 00 04 11 11 d9
22 1, 118: DTE 118 115.386790 0.008792 a0 fe 01 01 00 06 11 11 d7
23 1, 127: DTE 127 115.621088 0.225070 a0 fe 01 01 00 00 00 00 ff
24 1, 136: DTE 136 115.649106 0.018753 a0 fe 01 01 00 00 00 00 ff
25
26 1, 145: DTE 145 116.751328 1.093058 a0 fe 01 01 00 00 00 00 ff
27 1, 154: DTE 154 116.769443 0.008848 a0 fe 01 01 00 00 11 00 ee
28 1, 163: DTE 163 116.789755 0.011032 a0 fe 01 01 00 02 11 00 ec
29 1, 172: DTE 172 117.009615 0.210486 a0 fe 01 01 00 00 00 00 ff
30 1, 181: DTE 181 117.062940 0.044163 a0 fe 01 01 00 00 00 00 ff
31
32 1, 190: DTE 190 118.518229 1.445916 a0 fe 01 01 00 00 00 00 ff
33 1, 199: DTE 199 118.537599 0.010104 a0 fe 01 01 00 00 00 11 ee
34 1, 208: DTE 208 118.559363 0.012285 a0 fe 01 01 00 08 00 11 e6
35 1, 217: DTE 217 118.586239 0.017605 a0 fe 01 01 00 08 11 11 d5
36 1, 226: DTE 226 118.615607 0.020098 a0 fe 01 01 00 0a 11 11 d3
37 1, 235: DTE 235 118.837765 0.212680 a0 fe 01 01 00 00 00 00 ff
38 1, 244: DTE 244 118.858485 0.011355 a0 fe 01 01 00 00 00 00 ff
39
40 1, 253: DTE 253 120.355226 1.487471 a0 fe 01 01 00 00 00 00 ff
41 1, 262: DTE 262 120.381055 0.016561 a0 fe 01 01 00 00 00 11 ee
42 1, 271: DTE 271 120.400320 0.009994 a0 fe 01 01 00 08 00 11 e6
43 1, 280: DTE 280 120.620811 0.211324 a0 fe 01 01 00 00 00 00 ff
44 1, 289: DTE 289 120.649008 0.018825 a0 fe 01 01 00 00 00 00 ff
45
46 1, 298: DTE 298 122.654548 1.996247 a0 fe 01 01 00 00 00 00 ff
47 1, 307: DTE 307 122.683771 0.020060 a0 fe 01 01 00 00 00 11 ee
48 1, 316: DTE 316 122.704329 0.011146 a0 fe 01 01 00 08 00 11 e6
49 1, 325: DTE 325 122.725364 0.011660 a0 fe 01 01 00 08 11 11 d5
50 1, 334: DTE 334 122.749053 0.014418 a0 fe 01 01 00 09 11 11 d4
51 1, 343: DTE 343 122.969600 0.211117 a0 fe 01 01 00 00 00 00 ff
52 1, 352: DTE 352 122.989700 0.010729 a0 fe 01 01 00 00 00 00 ff
53
54 1, 361: DTE 361 125.084365 2.085497 a0 fe 01 01 00 00 00 00 ff
55 1, 370: DTE 370 125.103423 0.009791 a0 fe 01 01 00 00 11 00 ee
56 1, 379: DTE 379 125.123319 0.010625 a0 fe 01 01 00 01 11 00 ed
57 1, 388: DTE 388 125.352493 0.220013 a0 fe 01 01 00 00 00 00 ff
58 1, 397: DTE 397 125.379420 0.017494 a0 fe 01 01 00 00 00 00 ff
59
60 1, 406: DTE 406 127.852887 2.464196 a0 fe 01 01 00 00 00 00 ff
61 1, 415: DTE 415 127.879335 0.017189 a0 fe 01 01 00 00 00 11 ee
62 1, 424: DTE 424 127.899326 0.010514 a0 fe 01 01 00 04 00 11 ea
63 1, 433: DTE 433 127.921827 0.013124 a0 fe 01 01 00 04 11 11 d9
64 1, 442: DTE 442 127.951822 0.020724 a0 fe 01 01 00 05 11 11 d8
65 1, 451: DTE 451 128.173458 0.212367 a0 fe 01 01 00 00 00 00 ff
66 1, 460: DTE 460 128.193449 0.010626 a0 fe 01 01 00 00 00 00 ff
67
68 1, 469: DTE 469 131.028316 2.825596 a0 fe 01 01 00 00 00 00 ff

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69      1,      478: DTE      478      131.048409      0.010828 a0 fe 01 01 00 00 00 11 ee
70      1,      487: DTE      487      131.068722      0.011147 a0 fe 01 01 00 04 00 11 ea
71      1,      496: DTE      496      131.289769      0.211784 a0 fe 01 01 00 00 00 00 ff
72      1,      505: DTE      505      131.316390      0.017291 a0 fe 01 01 00 00 00 00 ff
73
74      1,      514: DTE      514      136.402037      5.076486 a0 fe 01 01 20 00 00 00 df
75      1,      523: DTE      523      136.623046      0.211847 a0 fe 01 01 00 00 00 00 ff
76
77      1,      532: DTE      532      139.827844      3.195538 a0 fe 01 01 40 00 00 00 bf
78      1,      541: DTE      541      140.152383      0.315377 a0 fe 01 01 00 00 00 00 ff
79
80      1,      550: DTE      550      156.781274      16.619529 a0 fe 01 01 02 00 00 00 fd
81      1,      559: DTE      559      157.021657      0.231116 a0 fe 01 01 00 00 00 00 ff
82
83      1,      568: DTE      568      159.654358      2.623336 a0 fe 01 01 01 00 00 00 fe
84      1,      577: DTE      577      159.896610      0.232985 a0 fe 01 01 00 00 00 00 ff
85
86      1,      586: DTE      586      165.396357      5.490479 a0 fe 01 03 1a 00 ff ff e5
87
88      1,      595: DTE      595      173.103976      7.698354 a0 fe 01 01 08 00 00 00 f7
89      1,      604: DTE      604      173.324152      0.210909 a0 fe 01 01 00 00 00 00 ff
90
91      1,      613: DTE      613      175.362471      2.029157 a0 fe 01 01 10 00 00 00 ef
92      1,      622: DTE      622      175.637113      0.265376 a0 fe 01 01 00 00 00 00 ff
93
94      1,      631: DTE      631      177.656340      2.010064 a0 fe 01 03 1b 00 00 ff e3
95
96      1,      640: DTE      640      180.275959      2.610213 a0 fe 01 03 1a 00 ff ff e5
97
98      There were a total of          648 bytes transferred
99
100     There were a total of          0 DCE bytes transferred
101     The first DCE byte came in at 0.000000 seconds from the start of data collection
102     The last DCE byte was at 0.000000 seconds from the start of data collection
103
104     There were a total of          648 DTE bytes transferred
105     The first DTE byte came in at 0.000000 seconds from the start of data collection
106     The last DTE byte was at 180.285114 seconds from the start of data collection
107

```

1.16.2 cc.out

```

1 $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2 $Header: d:/Binder2/1stLooks/RCS/CC.out,v 1.3 2007-05-31 08:02:23-07 Hamilton Exp Hamilton $
3 FTS capture buffer (5/29/2007 10:08:59 AM)
4 Event 1 (5/29/2007 10:04:16.391563 AM) through
5 Event 650 (5/29/2007 10:08:36.389954 AM)
6
7 1, 1: DTE 3 118.563720 0.000000 a0 fe 01 01 00 00 00 00 ff
8 1, 10: DTE 12 118.581634 0.008545 a0 fe 01 03 1b 00 00 ff e3
9 1, 19: DTE 21 118.601730 0.010730 a0 fe 01 03 1a 00 ff ff e5
10 1, 28: DTE 30 118.686718 0.075614 a0 fe 01 01 00 00 00 00 ff
11
12 1, 37: DTE 39 144.786194 26.090311 a0 fe 01 01 00 00 00 00 ff
13 1, 46: DTE 48 144.813165 0.017700 a0 fe 01 01 00 00 00 11 ee
14 1, 55: DTE 57 144.830971 0.008537 a0 fe 01 01 00 04 00 11 ea
15
16 1, 64: DTE 66 147.555544 2.715407 a0 fe 01 01 00 00 00 00 ff
17 1, 73: DTE 75 147.578969 0.014167 a0 fe 01 01 00 00 00 00 ff
18
19 1, 82: DTE 84 149.713947 2.125603 a0 fe 01 01 00 00 00 00 ff
20 1, 91: DTE 93 149.734458 0.011244 a0 fe 01 01 00 00 00 11 ee
21 1, 100: DTE 102 149.759354 0.015626 a0 fe 01 01 00 04 00 11 ea
22 1, 109: DTE 111 149.780493 0.011876 a0 fe 01 01 00 04 11 11 d9
23 1, 118: DTE 120 149.799034 0.009271 a0 fe 01 01 00 06 11 11 d7
24
25 1, 127: DTE 129 152.614942 2.806636 a0 fe 01 01 00 00 00 00 ff
26 1, 136: DTE 138 152.642017 0.017913 a0 fe 01 01 00 00 00 00 ff
27
28 1, 145: DTE 147 155.079022 2.427738 a0 fe 01 01 00 00 00 00 ff
29 1, 154: DTE 156 155.098186 0.009896 a0 fe 01 01 00 00 11 00 ee
30 1, 163: DTE 165 155.118179 0.010619 a0 fe 01 01 00 02 11 00 ec
31
32 1, 172: DTE 174 157.827648 2.700303 a0 fe 01 01 00 00 00 00 ff
33 1, 181: DTE 183 157.863054 0.026243 a0 fe 01 01 00 00 00 00 ff
34
35 1, 190: DTE 192 160.037513 2.165084 a0 fe 01 01 00 00 00 00 ff
36 1, 199: DTE 201 160.056452 0.009681 a0 fe 01 01 00 00 00 11 ee
37 1, 208: DTE 210 160.077624 0.012006 a0 fe 01 01 00 08 00 11 e6
38 1, 217: DTE 219 160.096969 0.009997 a0 fe 01 01 00 08 11 11 d5
39 1, 226: DTE 228 160.117497 0.011156 a0 fe 01 01 00 0a 11 11 d3
40
41 1, 235: DTE 237 163.276676 3.150023 a0 fe 01 01 00 00 00 00 ff
42 1, 244: DTE 246 163.308123 0.022083 a0 fe 01 01 00 00 00 00 ff
43
44 1, 253: DTE 255 165.516316 2.198922 a0 fe 01 01 00 00 00 00 ff
45 1, 262: DTE 264 165.536306 0.010849 a0 fe 01 01 00 00 00 11 ee
46 1, 271: DTE 273 165.556098 0.010585 a0 fe 01 01 00 08 00 11 e6
47
48 1, 280: DTE 282 168.472716 2.907339 a0 fe 01 01 00 00 00 00 ff
49 1, 289: DTE 291 168.495836 0.013855 a0 fe 01 01 00 00 00 00 ff
50
51 1, 298: DTE 300 170.613939 2.108839 a0 fe 01 01 00 00 00 00 ff
52 1, 307: DTE 309 170.640909 0.017780 a0 fe 01 01 00 00 00 11 ee
53 1, 316: DTE 318 170.659035 0.008858 a0 fe 01 01 00 08 00 11 e6
54 1, 325: DTE 327 170.679130 0.010835 a0 fe 01 01 00 08 11 11 d5
55 1, 334: DTE 336 170.701942 0.013542 a0 fe 01 01 00 09 11 11 d4
56
57 1, 343: DTE 345 174.144100 3.432997 a0 fe 01 01 00 00 00 00 ff
58 1, 352: DTE 354 174.165033 0.011564 a0 fe 01 01 00 00 00 00 ff
59
60 1, 361: DTE 363 177.140810 2.966403 a0 fe 01 01 00 00 00 00 ff
61 1, 370: DTE 372 177.160175 0.010099 a0 fe 01 01 00 00 11 00 ee
62 1, 379: DTE 381 177.181841 0.012395 a0 fe 01 01 00 01 11 00 ed
63
64 1, 388: DTE 390 180.680868 3.489860 a0 fe 01 01 00 00 00 00 ff
65 1, 397: DTE 399 180.701072 0.011043 a0 fe 01 01 00 00 00 00 ff
66
67 1, 406: DTE 408 183.210046 2.499606 a0 fe 01 01 00 00 00 00 ff
68 1, 415: DTE 417 183.233167 0.013855 a0 fe 01 01 00 00 00 11 ee

```

```

69      1,      424: DTE      426      183.250141      0.007711 a0 fe 01 01 00 04 00 11 ea
70      1,      433: DTE      435      183.273579      0.014064 a0 fe 01 01 00 04 11 11 d9
71      1,      442: DTE      444      183.290445      0.007604 a0 fe 01 01 00 05 11 11 d8
72
73      1,      451: DTE      453      186.811660      3.511944 a0 fe 01 01 00 00 00 00 ff
74      1,      460: DTE      462      186.837586      0.016660 a0 fe 01 01 00 00 00 00 ff
75
76      1,      469: DTE      471      189.075259      2.228506 a0 fe 01 01 00 00 00 00 ff
77      1,      478: DTE      480      189.095040      0.010416 a0 fe 01 01 00 00 00 11 ee
78      1,      487: DTE      489      189.120034      0.015724 a0 fe 01 01 00 04 00 11 ea
79
80      1,      496: DTE      498      192.674504      3.545191 a0 fe 01 01 00 00 00 00 ff
81      1,      505: DTE      507      192.691028      0.007293 a0 fe 01 01 00 00 00 00 ff
82
83      1,      514: DTE      516      196.877860      4.177665 a0 fe 01 01 20 00 00 00 df
84
85      1,      523: DTE      525      199.413079      2.525954 a0 fe 01 01 00 00 00 00 ff
86
87      1,      532: DTE      534      202.073177      2.650831 a0 fe 01 01 40 00 00 00 bf
88
89      1,      541: DTE      543      205.522950      3.440507 a0 fe 01 01 00 00 00 00 ff
90
91      1,      550: DTE      552      220.021971      14.489666 a0 fe 01 01 02 00 00 00 fd
92
93      1,      559: DTE      561      222.821632      2.790394 a0 fe 01 01 00 00 00 00 ff
94
95      1,      568: DTE      570      225.490993      2.660095 a0 fe 01 01 01 00 00 00 fe
96
97      1,      577: DTE      579      228.005803      2.505649 a0 fe 01 01 00 00 00 00 ff
98
99      1,      586: DTE      588      238.571300      10.556336 a0 fe 01 03 1a 01 ff ff e4
100
101     1,      595: DTE      597      241.517913      2.937399 a0 fe 01 01 08 00 00 00 f7
102
103     1,      604: DTE      606      244.582944      3.055667 a0 fe 01 01 00 00 00 00 ff
104
105     1,      613: DTE      615      247.038381      2.446176 a0 fe 01 01 10 00 00 00 ef
106
107     1,      622: DTE      624      249.852514      2.805035 a0 fe 01 01 00 00 00 00 ff
108
109     1,      631: DTE      633      254.888898      5.027222 a0 fe 01 03 1b 01 01 ff e1
110
111     1,      640: DTE      642      259.989020      5.090855 a0 fe 01 03 1a 01 ff ff e4
112
113 There were a total of          648 bytes transferred
114
115 There were a total of          0 DCE bytes transferred
116 The first DCE byte came in at 0.000000 seconds from the start of data collection
117 The last DCE byte was at 0.000000 seconds from the start of data collection
118
119 There were a total of          648 DTE bytes transferred
120 The first DTE byte came in at 118.563720 seconds from the start of data collection
121 The last DTE byte was at 259.998391 seconds from the start of data collection
122

```

1.17 Sensormatic

This data was collected from a Dedicated Micro Systems Sprite 2 on 29MAY07.

1. Baud rate: 4800
2. Parity: None
3. Hello Message Length: 12
4. Hello Message last few bytes: 0x01 0x93 0x6C
5. Is the protocol a Polling Protocol?: No, in a real Sensormatic system, the headend continuously polls every $\frac{1}{2} \rightarrow 1$ second.
6. Name of the data capture file: 29MAY07D.txt
7. Protocol Characteristics:
 - 7.1 Message Length(s): 3, 5.
 - 7.2 ISO Level 1: RS-422.
 - 7.3 Unique first byte: No, the first byte is the device address.
 - 7.4 Unique last byte: No, it is the checksum
 - 7.5 Checksum: Yes, is the complement of the rest of the message. Such that the total 8-bit sum of the bytes of them message is 0x00.
 - 7.6 Device address: Yes, byte 1.
8. There is a Sensormatic protocol document, which is on file at Pelco, that is medium accurate in describing this protocol.
9. The TXB-S422 implements this protocol.

1.17.1 d.out

```

1  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2  $Header: d:/Binder2/1stLooks/RCS/D.out,v 1.3 2007-05-31 08:02:23-07 Hamilton Exp Hamilton $
3  FTS capture buffer (5/29/2007 7:47:55 AM)
4  Event 1 (5/29/2007 7:42:31.415550 AM) through
5  Event 226 (5/29/2007 7:47:00.853449 AM)
6
7      1,      1: DTE      3  101.475816  0.000000 01 93 6c
8      1,      4: DTE      6  101.497061  0.016666 01 93 6c
9      1,      7: DTE      9  101.544549  0.042904 01 93 6c
10     1,     10: DTE     12  101.622082  0.073117 01 93 6c
11
12     1,     13: DTE     15  186.389523  84.762861 01 93 6c
13     1,     16: DTE     18  186.414726  0.020624 01 c0 84 21 9a
14     1,     21: DTE     23  186.641565  0.217672 01 93 6c
15     1,     24: DTE     26  186.668230  0.022085 01 93 6c
16
17     1,     27: DTE     29  188.748726  2.076080 01 93 6c
18     1,     30: DTE     32  188.775183  0.021878 01 c0 84 21 9a
19     1,     35: DTE     37  188.805795  0.021511 01 c0 82 21 9c
20     1,     40: DTE     42  189.910420  1.095459 01 93 6c
21     1,     43: DTE     45  189.938958  0.023959 01 93 6c

```

¹⁹\$Header: d:/Binder2/1stLooks/RCS/Sensorma.inc,v 1.1 2007-06-05 08:30:58-07 Hamilton Exp Hamilton \$

22									
23	1,	46:	DTE	48	191.628280	1.684752	01 93 6c		
24	1,	49:	DTE	51	191.653462	0.020613	01 c0 82 21 9c		
25	1,	54:	DTE	56	192.720194	1.057566	01 93 6c		
26	1,	57:	DTE	59	192.745168	0.020417	01 93 6c		
27									
28	1,	60:	DTE	62	193.922698	1.172947	01 93 6c		
29	1,	63:	DTE	65	193.948305	0.021029	01 c0 85 21 99		
30	1,	68:	DTE	70	193.972681	0.015210	01 c0 82 21 9c		
31	1,	73:	DTE	75	195.219155	1.237396	01 93 6c		
32	1,	76:	DTE	78	195.244345	0.020779	01 93 6c		
33									
34	1,	79:	DTE	81	196.491864	1.242935	01 93 6c		
35	1,	82:	DTE	84	196.516651	0.020210	01 c0 85 21 99		
36	1,	87:	DTE	89	197.823529	1.297712	01 93 6c		
37	1,	90:	DTE	92	197.853304	0.025196	01 93 6c		
38									
39	1,	93:	DTE	95	199.110820	1.252932	01 93 6c		
40	1,	96:	DTE	98	199.139987	0.024587	01 c0 85 21 99		
41	1,	101:	DTE	103	199.169145	0.019986	01 c0 81 21 9d		
42	1,	106:	DTE	108	201.154868	1.976565	01 93 6c		
43	1,	109:	DTE	111	201.179449	0.020000	01 93 6c		
44									
45	1,	112:	DTE	114	202.210741	1.026710	01 93 6c		
46	1,	115:	DTE	117	202.241571	0.026250	01 c0 81 21 9d		
47	1,	120:	DTE	122	204.209386	1.958649	01 93 6c		
48	1,	123:	DTE	125	204.243328	0.029362	01 93 6c		
49									
50	1,	126:	DTE	128	205.944516	1.696606	01 93 6c		
51	1,	129:	DTE	131	205.975345	0.026376	01 c0 84 21 9a		
52	1,	134:	DTE	136	206.009055	0.024544	01 c0 81 21 9d		
53	1,	139:	DTE	141	207.850465	1.832378	01 93 6c		
54	1,	142:	DTE	144	207.875461	0.020416	01 93 6c		
55									
56	1,	145:	DTE	147	209.122756	1.242710	01 93 6c		
57	1,	148:	DTE	150	209.148173	0.020837	01 c0 84 21 9a		
58	1,	153:	DTE	155	210.942677	1.785339	01 93 6c		
59	1,	156:	DTE	158	210.970590	0.023332	01 93 6c		
60									
61	1,	159:	DTE	161	215.443210	4.468036	01 8a 75		
62									
63	1,	162:	DTE	164	217.286243	1.838454	01 8c 73		
64									
65	1,	165:	DTE	167	220.156203	2.865380	01 8b 74		
66									
67	1,	168:	DTE	170	222.176086	2.015304	01 8c 73		
68									
69	1,	171:	DTE	173	224.443441	2.262776	01 e2 1d		
70									
71	1,	174:	DTE	176	225.806970	1.358953	01 e0 1f		
72									
73	1,	177:	DTE	179	231.307749	5.496200	01 e8 17		
74									
75	1,	180:	DTE	182	234.770419	3.458090	01 87 78		
76									
77	1,	183:	DTE	185	236.077826	1.302713	01 89 76		
78									
79	1,	186:	DTE	188	238.988188	2.905887	01 88 77		
80									
81	1,	189:	DTE	191	241.091390	2.098621	01 89 76		
82									
83	1,	192:	DTE	194	244.637082	3.541113	01 ec 13		
84									
85	1,	195:	DTE	197	246.451584	1.809925	01 e8 17		
86									
87	1,	198:	DTE	200	251.368511	4.912347	01 c6 39		
88									
89	1,	201:	DTE	203	254.542376	3.169300	01 90 6f		
90									
91	1,	204:	DTE	206	256.056294	1.509339	01 92 6d		
92									
93	1,	207:	DTE	209	258.440291	2.379407	01 91 6e		

```
94
95      1,      210: DTE      212      260.040655      1.595785 01 92 6d
96
97      1,      213: DTE      215      264.315393      4.270159 01 9a 65
98      1,      216: DTE      218      264.340179      0.020207 01 b0 4f
99      1,      219: DTE      221      264.369960      0.025210 01 9b 64
100
101      1,      222: DTE      224      269.433322      5.058780 01 c6 39
102
103 There were a total of          224 bytes transferred
104
105 There were a total of          0 DCE bytes transferred
106 The first DCE byte came in at 0.000000 seconds from the start of data collection
107 The last DCE byte was at 0.000000 seconds from the start of data collection
108
109 There were a total of          224 DTE bytes transferred
110 The first DTE byte came in at 101.475816 seconds from the start of data collection
111 The last DTE byte was at 269.437899 seconds from the start of data collection
112
```

1.18 Ultrack

This data was collected from a Dedicated Micro Systems Sprite 2 on 29MAY07.

1. Baud rate: 9600
2. Parity: Even
3. Hello Message Length: Yes, didn't get it because parity was incorrectly set and I ran out of time.
4. Hello Message last few bytes: —
5. Is the protocol a Polling Protocol?: No
6. Name of the data capture file: 29MAY07E.txt
7. Protocol Characteristics:
 - 7.1 Message Length(s): 9.
 - 7.2 ISO Level 1: _____.
 - 7.3 Unique first byte: 0x00
 - 7.4 Unique last byte: No
 - 7.5 Checksum: _____.
 - 7.6 Device address: Byte 2?

1.18.1 e.out

```

1  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2  $Header: d:/Binder2/1stLooks/RCS/E.out,v 1.2 2007-05-31 08:02:23-07 Hamilton Exp Hamilton $
3  FTS capture buffer (5/29/2007 7:54:59 AM)
4  Event 1 (5/29/2007 7:52:48.721990 AM) through
5  Event 366 (5/29/2007 7:54:25.543691 AM)
6
7      1,      1: DTE      1      0.000000  0.000000 00 00 80 80 80 e0
8      1,      7: DTE      7      0.007704  0.001250 00 00 80 3c 80 c0
9      1,     13: DTE     13      1.792630  1.778666 00 00 80 80 80 e0
10     1,     19: DTE     19      1.800332  0.001249 00 00 80 80 80 e0
11
12     1,     25: DTE     25      4.848188  3.041595 00 00 80 80 80 e0
13     1,     31: DTE     31      4.855990  0.001250 00 00 80 3c 80 c0
14     1,     37: DTE     37      4.863594  0.001417 00 00 c4 3c 80 a0
15     1,     43: DTE     43      7.161565  2.291722 00 00 80 80 80 e0
16     1,     49: DTE     49      7.169166  0.001250 00 00 80 80 80 e0
17
18     1,     55: DTE     55      9.381728  2.206305 00 00 80 80 80 e0
19     1,     61: DTE     61      9.389329  0.001250 00 00 c4 80 80 80
20     1,     67: DTE     67     12.059846  2.664267 00 00 80 80 80 e0
21     1,     73: DTE     73     12.067341  0.001250 00 00 80 80 80 e0
22
23     1,     79: DTE     79     14.118683  2.045098 00 00 80 80 80 e0
24     1,     85: DTE     85     14.126279  0.001353 00 00 80 c4 80 40
25     1,     91: DTE     91     14.133780  0.001251 00 00 c4 c4 80 20
26     1,     97: DTE     97     16.448932  2.308799 00 00 80 80 80 e0
27     1,    103: DTE    103     16.456532  0.001249 00 00 80 80 80 e0
28
29     1,    109: DTE    109     18.956244  2.493462 00 00 80 80 80 e0
30     1,    115: DTE    115     18.963739  0.001250 00 00 80 c4 80 40
31     1,    121: DTE    121     20.594627  1.624644 00 00 80 80 80 e0

```

²⁰\$Header: d:/Binder2/1stLooks/RCS/Ultrack.inc,v 1.1 2007-06-05 08:31:04-07 Hamilton Exp Hamilton \$

```

32      1,      127: DTE      127      20.602222      0.001251 00 00 80 80 80 e0
33
34      1,      133: DTE      133      22.827914      2.219341 00 00 80 80 80 e0
35      1,      139: DTE      139      22.835409      0.001249 00 00 80 c4 80 40
36      1,      145: DTE      145      22.842910      0.001250 00 00 3c c4 80 00
37      1,      151: DTE      151      24.987046      2.137893 00 00 80 80 80 e0
38      1,      157: DTE      157      24.994647      0.001250 00 00 80 80 80 e0
39
40      1,      163: DTE      163      27.065882      2.064986 00 00 80 80 80 e0
41      1,      169: DTE      169      27.073481      0.001250 00 00 3c 80 80 a0
42      1,      175: DTE      175      29.156276      2.076545 00 00 80 80 80 e0
43      1,      181: DTE      181      29.163982      0.001250 00 00 80 80 80 e0
44
45      1,      187: DTE      187      31.121900      1.951675 00 00 80 80 80 e0
46      1,      193: DTE      193      31.129391      0.001251 00 00 80 3c 80 c0
47      1,      199: DTE      199      31.136994      0.001248 00 00 3c 3c 80 80
48      1,      205: DTE      205      32.913804      1.770559 00 00 80 80 80 e0
49      1,      211: DTE      211      32.921307      0.001258 00 00 80 80 80 e0
50
51      1,      217: DTE      217      35.298938      2.371397 00 00 80 80 80 e0
52      1,      223: DTE      223      35.306266      0.001250 00 00 80 3c 80 c0
53      1,      229: DTE      229      37.547537      2.234749 00 00 80 80 80 e0
54      1,      235: DTE      235      37.555135      0.001249 00 00 80 80 80 e0
55
56      1,      241: DTE      241      41.359013      3.797626 00 00 80 80 bb a0
57
58      1,      247: DTE      247      42.975001      1.609743 00 00 80 80 bb a0
59      1,      253: DTE      253      43.181155      0.200071 00 00 80 80 80 e0
60
61      1,      259: DTE      259      45.714252      2.526684 00 00 80 80 45 80
62
63      1,      265: DTE      265      47.717578      1.997143 00 00 80 80 45 80
64      1,      271: DTE      271      47.920045      0.196388 00 00 80 80 80 e0
65
66      1,      277: DTE      277      50.163749      2.237354 b0 00 f5 01 3e 20
67
68      1,      283: DTE      283      51.791509      1.621513 b0 00 f5 01 3e 20
69
70      1,      289: DTE      289      56.380256      4.582502 b0 00 f5 05 3a e0
71
72      1,      295: DTE      295      60.031648      3.645049 00 00 80 80 80 a8
73
74      1,      301: DTE      301      61.778970      1.741076 00 00 80 80 80 e0
75
76      1,      307: DTE      307      64.447609      2.662391 00 00 80 80 80 70
77
78      1,      313: DTE      313      66.944921      2.491066 00 00 80 80 80 e0
79
80      1,      319: DTE      319      69.446077      2.494974 b0 00 f5 07 38 80
81
82      1,      325: DTE      325      71.459613      2.007081 b0 00 f5 07 38 80
83
84      1,      331: DTE      331      87.020667      15.554704 00 00 80 80 80 62
85
86      1,      337: DTE      337      88.610100      1.583188 00 00 80 80 80 e0
87
88      1,      343: DTE      343      91.407775      2.791326 00 00 80 80 80 c4
89
90      1,      349: DTE      349      93.243315      1.829306 00 00 80 80 80 e0
91
92      1,      355: DTE      355      96.807747      3.558083 00 00 70 80 80 80
93      1,      361: DTE      361      96.815346      0.001250 00 00 80 80 80 e0
94
95      There were a total of          366 bytes transferred
96
97      There were a total of          0 DCE bytes transferred
98      The first DCE byte came in at 0.000000 seconds from the start of data collection
99      The last DCE byte was at 0.000000 seconds from the start of data collection
100
101      There were a total of          366 DTE bytes transferred
102      The first DTE byte came in at 0.000000 seconds from the start of data collection
103      The last DTE byte was at 96.821701 seconds from the start of data collection

```


1.19 Vantage

This data was collected from a Dedicated Micro Systems Sprite 2 on 29MAY07.

1. Baud rate: 9600
2. Parity: None
3. Hello Message Length: 65
4. Hello Message last few bytes: 0x53 0x1B 0x00
5. Is the protocol a Polling Protocol?: No
6. Name of the data capture file: 29MAY07F.txt
7. Protocol Characteristics:
 - 7.1 Message Length(s): 9, 10, 11, 14.
 - 7.2 ISO Level 1: _____.
 - 7.3 Unique first byte: 0x41
 - 7.4 Unique last byte: 0x1B, 0x00
 - 7.5 Checksum: _____.
 - 7.6 Device address: Byte 3

1.19.1 f.out

```

1  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2  $Header: d:/Binder2/1stLooks/RCS/F.out,v 1.3 2007-05-31 08:02:23-07 Hamilton Exp Hamilton $
3  FTS capture buffer (5/29/2007 8:00:37 AM)
4  Event 1 (5/29/2007 7:55:33.049366 AM) through
5  Event 679 (5/29/2007 7:59:20.669717 AM)
6
7      1,      1: DTE      3      75.826609      0.000000 41 20 01 40 0b 02 00 00 00 00 45 1b 00
8      1,     15: DTE     17      75.842743      0.001146 41 20 01 40 15 02 40 1b 00
9      1,     24: DTE     26      75.853056      0.001136 41 20 01 40 02 00 00 00 53 1b 00
10     1,     35: DTE     37      75.865972      0.001145 41 20 01 40 05 01 00 50 1b 00
11     1,     45: DTE     47      75.877534      0.001145 41 20 01 40 12 06 00 3e 1b 00
12     1,     55: DTE     57      75.889090      0.001146 41 20 01 40 02 00 00 00 53 1b 00
13
14     1,     66: DTE     68     128.684506     52.783853 41 20 01 40 02 00 00 00 53 1b 00
15     1,     77: DTE     79     128.697314      0.001222 41 20 01 40 02 00 44 00 0f 1b 00
16     1,     88: DTE     90     130.251861     1.542783 41 20 01 40 02 00 00 00 53 1b 00
17     1,     99: DTE    101     130.264428      0.001114 41 20 01 40 02 00 00 00 53 1b 00
18
19     1,    110: DTE    112     132.620019     2.344106 41 20 01 40 02 00 00 00 53 1b 00
20     1,    121: DTE    123     132.632617      0.001145 41 20 01 40 02 00 44 00 0f 1b 00
21     1,    132: DTE    134     132.645223      0.001147 41 20 01 40 02 44 44 00 cb 1b 00
22     1,    143: DTE    145     134.353287     1.696503 41 20 01 40 02 00 00 00 53 1b 00
23     1,    154: DTE    156     134.366103      0.001155 41 20 01 40 02 00 00 00 53 1b 00
24
25     1,    165: DTE    167     136.846014     2.468426 41 20 01 40 02 00 00 00 53 1b 00
26     1,    176: DTE    178     136.858718      0.001147 41 20 01 40 02 44 00 00 0f 1b 00
27     1,    187: DTE    189     138.920992     2.050719 41 20 01 40 02 00 00 00 53 1b 00
28     1,    198: DTE    200     138.933802      0.001354 41 20 01 40 02 00 00 00 53 1b 00
29
30     1,    209: DTE    211     141.014098     2.068845 41 20 01 40 02 00 00 00 53 1b 00
31     1,    220: DTE    222     141.026900      0.001137 41 20 01 40 02 00 bc 00 97 1b 00

```

²¹\$Header: d:/Binder2/1stLooks/RCS/Vantage.inc,v 1.1 2007-06-05 08:31:11-07 Hamilton Exp Hamilton \$

```

32      1,      231: DTE      233      141.039815      0.001248 41 20 01 40 02 44 bc 00 53 1b 00
33      1,      242: DTE      244      142.614671      1.563292 41 20 01 40 02 00 00 00 53 1b 00
34      1,      253: DTE      255      142.627270      0.001146 41 20 01 40 02 00 00 00 53 1b 00
35
36      1,      264: DTE      266      144.749018      2.110186 41 20 01 40 02 00 00 00 53 1b 00
37      1,      275: DTE      277      144.761932      0.001148 41 20 01 40 02 00 bc 00 97 1b 00
38      1,      286: DTE      288      146.824164      2.050568 41 20 01 40 02 00 00 00 53 1b 00
39      1,      297: DTE      299      146.837119      0.001146 41 20 01 40 02 00 00 00 53 1b 00
40
41      1,      308: DTE      310      148.962410      2.113625 41 20 01 40 02 00 00 00 53 1b 00
42      1,      319: DTE      321      148.975425      0.001145 41 20 01 40 02 00 bc 00 97 1b 00
43      1,      330: DTE      332      148.988233      0.001138 41 20 01 40 02 bc bc 00 db 1b 00
44      1,      341: DTE      343      150.880956      1.881161 41 20 01 40 02 00 00 00 53 1b 00
45      1,      352: DTE      354      150.894071      0.001147 41 20 01 40 02 00 00 00 53 1b 00
46
47      1,      363: DTE      365      153.455129      2.549393 41 20 01 40 02 00 00 00 53 1b 00
48      1,      374: DTE      376      153.467825      0.001249 41 20 01 40 02 bc 00 00 97 1b 00
49      1,      385: DTE      387      155.811417      2.332133 41 20 01 40 02 00 00 00 53 1b 00
50      1,      396: DTE      398      155.824225      0.001146 41 20 01 40 02 00 00 00 53 1b 00
51
52      1,      407: DTE      409      158.147816      2.312035 41 20 01 40 02 00 00 00 53 1b 00
53      1,      418: DTE      420      158.160464      0.000993 41 20 01 40 02 00 44 00 0f 1b 00
54      1,      429: DTE      431      158.173430      0.001147 41 20 01 40 02 bc 44 00 53 1b 00
55      1,      440: DTE      442      160.143320      1.958431 41 20 01 40 02 00 00 00 53 1b 00
56      1,      451: DTE      453      160.156131      0.001146 41 20 01 40 02 00 00 00 53 1b 00
57
58      1,      462: DTE      464      162.144469      1.976879 41 20 01 40 02 00 00 00 53 1b 00
59      1,      473: DTE      475      162.157269      0.001136 41 20 01 40 02 00 44 00 0f 1b 00
60      1,      484: DTE      486      164.018441      1.849504 41 20 01 40 02 00 00 00 53 1b 00
61      1,      495: DTE      497      164.031032      0.001146 41 20 01 40 02 00 00 00 53 1b 00
62
63      1,      506: DTE      508      166.748522      2.706032 41 20 01 40 02 00 00 3b 18 1b 00
64
65      1,      517: DTE      519      168.914531      2.154457 41 20 01 40 02 00 00 3b 18 1b 00
66      1,      528: DTE      530      169.116173      0.190228 41 20 01 40 02 00 00 00 53 1b 00
67
68      1,      539: DTE      541      170.975031      1.847211 41 20 01 40 02 00 00 c5 8e 1b 00
69
70      1,      550: DTE      552      172.913995      1.927406 41 20 01 40 02 00 00 c5 8e 1b 00
71      1,      561: DTE      563      173.113233      0.187686 41 20 01 40 02 00 00 00 53 1b 00
72
73      1,      572: DTE      574      197.213959      24.089174 41 20 01 40 03 01 c0 02 00 8e 1b 00
74
75      1,      584: DTE      586      198.445535      1.218892 41 20 01 40 03 01 00 02 00 4e 1b 00
76
77      1,      596: DTE      598      200.504576      2.046335 41 20 01 40 03 01 40 02 00 0e 1b 00
78
79      1,      608: DTE      610      202.304290      1.786904 41 20 01 40 03 01 00 02 00 4e 1b 00
80
81      1,      620: DTE      622      218.709691      16.392595 41 20 01 40 03 01 00 01 40 0f 1b 00
82
83      1,      632: DTE      634      220.347134      1.624639 41 20 01 40 03 01 00 01 00 4f 1b 00
84
85      1,      644: DTE      646      221.972636      1.612788 41 20 01 40 03 01 00 01 c0 8f 1b 00
86
87      1,      656: DTE      658      223.753157      1.767954 41 20 01 40 03 01 00 01 00 4f 1b 00
88
89      1,      668: DTE      670      227.609826      3.843869 41 20 01 40 12 03 01 40 1b 00
90
91      There were a total of          677 bytes transferred
92
93      There were a total of          0 DCE bytes transferred
94      The first DCE byte came in at 0.000000 seconds from the start of data collection
95      The last DCE byte was at 0.000000 seconds from the start of data collection
96
97      There were a total of          677 DTE bytes transferred
98      The first DTE byte came in at 75.826609 seconds from the start of data collection
99      The last DTE byte was at 227.620351 seconds from the start of data collection
100
101
102

```

1.20 VCL

This data was collected from a Dedicated Micro Systems Sprite 2 on 29MAY07.

1. Baud rate: 9600
2. Parity: None
3. Hello Message Length: 44
4. Hello Message last few bytes: 0x80 0x2F 0x80 0x2E
5. Is the protocol a Polling Protocol?: No
6. Name of the data capture file: 29MAY07G.txt
7. Protocol Characteristics:
 - 7.1 Message Length(s): 2, 3
 - 7.2 ISO Level 1: _____.
 - 7.3 Unique first byte: 0x80, might actually be a first byte indicator of the most significant bit, followed by seven bits of address, starting at 0 for address 1.
 - 7.4 Unique last byte: _____.
 - 7.5 Checksum: No
 - 7.6 Device address: No

1.20.1 g.out

```

1 $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2 $Header: d:/Binder2/1stLooks/RCS/G.out,v 1.3 2007-05-31 08:02:23-07 Hamilton Exp Hamilton $
3 FTS capture buffer (5/29/2007 8:05:11 AM)
4 Event 1 (5/29/2007 8:02:02.799816 AM) through
5 Event 747 (5/29/2007 8:04:51.369519 AM)
6
7 1, 1: DTE 1 0.000000 0.000000 80 75
8 1, 3: DTE 3 0.065513 0.064371 80 6e
9 1, 5: DTE 5 0.110609 0.043951 80 6c
10 1, 7: DTE 7 0.144457 0.032703 80 72
11 1, 9: DTE 9 0.185703 0.040100 80 2a
12 1, 11: DTE 11 0.236468 0.049623 80 2b
13 1, 13: DTE 13 0.276628 0.039018 80 2d
14 1, 15: DTE 15 0.305681 0.027911 80 2c
15 1, 17: DTE 17 0.332656 0.025829 80 2f
16 1, 19: DTE 19 0.351300 0.017501 80 2e
17 1, 21: DTE 21 0.421183 0.068634 80 7e
18 1, 23: DTE 23 0.446450 0.024123 80 7e
19 1, 25: DTE 25 0.541373 0.093739 80 75
20 1, 27: DTE 27 0.621780 0.079159 80 6e
21 1, 29: DTE 29 0.651872 0.028953 80 6c
22 1, 31: DTE 31 0.671872 0.018854 80 72
23 1, 33: DTE 33 0.709053 0.036036 80 2a
24 1, 35: DTE 35 0.783832 0.073633 80 2b
25 1, 37: DTE 37 0.811956 0.026977 80 2d
26 1, 39: DTE 39 0.835285 0.022213 80 2c
27 1, 41: DTE 41 0.852366 0.015936 80 2f
28 1, 43: DTE 43 0.885908 0.032396 80 2e
29

```

²²\$Header: d:/Binder2/1stLooks/RCS/VCL.inc,v 1.1 2007-06-05 08:30:44-07 Hamilton Exp Hamilton \$

30	1,	45:	DTE	45	57.011406	56.124358	80	75
31	1,	47:	DTE	47	57.031185	0.018638	80	6e
32	1,	49:	DTE	49	57.051394	0.018958	80	6c
33	1,	51:	DTE	51	57.076077	0.023536	80	72
34	1,	53:	DTE	53	57.096702	0.019480	80	2a
35	1,	55:	DTE	55	57.116175	0.018328	80	2b
36	1,	57:	DTE	57	57.136007	0.018584	80	2d
37	1,	59:	DTE	59	57.161166	0.023742	80	2c
38	1,	61:	DTE	61	57.181480	0.019062	80	2f
39	1,	63:	DTE	63	57.201577	0.018952	80	2e
40	1,	65:	DTE	65	57.221681	0.018963	80	55 28
41	1,	68:	DTE	68	58.024784	0.800810	80	55 28
42	1,	71:	DTE	71	58.597203	0.570132	80	75
43	1,	73:	DTE	73	58.614273	0.015940	80	6e
44	1,	75:	DTE	75	58.634265	0.018847	80	6c
45	1,	77:	DTE	77	58.660308	0.024896	80	72
46	1,	79:	DTE	79	58.678740	0.017294	80	2a
47	1,	81:	DTE	81	58.708836	0.028953	80	2b
48	1,	83:	DTE	83	58.728940	0.018958	80	2d
49	1,	85:	DTE	85	58.748934	0.018744	80	2c
50	1,	87:	DTE	87	58.768933	0.018750	80	2f
51	1,	89:	DTE	89	58.796949	0.026661	80	2e
52	1,	91:	DTE	91	58.814657	0.016460	80	75
53	1,	93:	DTE	93	58.834545	0.018743	80	6e
54	1,	95:	DTE	95	58.854547	0.018855	80	6c
55	1,	97:	DTE	97	58.879852	0.024160	80	72
56	1,	99:	DTE	99	58.899441	0.018444	80	2a
57	1,	101:	DTE	101	58.924117	0.023536	80	2b
58	1,	103:	DTE	103	58.944428	0.019166	80	2d
59	1,	105:	DTE	105	58.965776	0.020200	80	2c
60	1,	107:	DTE	107	58.984526	0.017605	80	2f
61	1,	109:	DTE	109	59.009519	0.023847	80	2e
62								
63	1,	111:	DTE	111	60.802466	1.791801	80	75
64	1,	113:	DTE	113	60.822462	0.018855	80	6e
65	1,	115:	DTE	115	60.842456	0.018848	80	6c
66	1,	117:	DTE	117	60.862560	0.018959	80	72
67	1,	119:	DTE	119	60.910902	0.047203	80	2a
68	1,	121:	DTE	121	60.929421	0.017396	80	2b
69	1,	123:	DTE	123	60.947746	0.017169	80	2d
70	1,	125:	DTE	125	60.967747	0.018854	80	2c
71	1,	127:	DTE	127	60.992535	0.023642	80	2f
72	1,	129:	DTE	129	61.012741	0.019063	80	2e
73	1,	131:	DTE	131	61.033047	0.019160	80	55 28
74	1,	134:	DTE	134	61.057735	0.022188	80	52 28
75	1,	137:	DTE	137	61.860629	0.800603	80	52 28
76	1,	140:	DTE	140	62.605512	0.742595	80	75
77	1,	142:	DTE	142	62.626649	0.020131	80	6e
78	1,	144:	DTE	144	62.645398	0.017605	80	6c
79	1,	146:	DTE	146	62.665494	0.018951	80	72
80	1,	148:	DTE	148	62.685599	0.018959	80	2a
81	1,	150:	DTE	150	62.713508	0.026762	80	2b
82	1,	152:	DTE	152	62.730698	0.016044	80	2d
83	1,	154:	DTE	154	62.750690	0.018847	80	2c
84	1,	156:	DTE	156	62.771211	0.019376	80	2f
85	1,	158:	DTE	158	62.794746	0.022389	80	2e
86	1,	160:	DTE	160	62.818705	0.022813	80	75
87	1,	162:	DTE	162	62.835884	0.016033	80	6e
88	1,	164:	DTE	164	62.855783	0.018752	80	6c
89	1,	166:	DTE	166	62.885360	0.028600	80	72
90	1,	168:	DTE	168	62.910978	0.024474	80	2a
91	1,	170:	DTE	170	62.930976	0.018750	80	2b
92	1,	172:	DTE	172	62.956765	0.024435	80	2d
93	1,	174:	DTE	174	62.981597	0.023648	80	2c
94	1,	176:	DTE	176	63.001068	0.018327	80	2f
95	1,	178:	DTE	178	63.022631	0.020314	80	2e
96								
97	1,	180:	DTE	180	64.904411	1.880608	80	75
98	1,	182:	DTE	182	64.927325	0.021774	80	6e
99	1,	184:	DTE	184	64.949505	0.021035	80	6c
100	1,	186:	DTE	186	64.969505	0.018856	80	72
101	1,	188:	DTE	188	64.995331	0.024681	80	2a

102	1,	190:	DTE	190	65.014498	0.018011	80	2b
103	1,	192:	DTE	192	65.034595	0.018952	80	2d
104	1,	194:	DTE	194	65.059491	0.023749	80	2c
105	1,	196:	DTE	196	65.079591	0.018954	80	2f
106	1,	198:	DTE	198	65.099694	0.018958	80	2e
107	1,	200:	DTE	200	65.124587	0.023748	80	52 28
108	1,	203:	DTE	203	65.927695	0.800985	80	52 28
109	1,	206:	DTE	206	66.730999	0.801026	80	52 28
110	1,	209:	DTE	209	67.263415	0.530129	80	75
111	1,	211:	DTE	211	67.283509	0.018850	80	6e
112	1,	213:	DTE	213	67.303612	0.018958	80	6c
113	1,	215:	DTE	215	67.331462	0.026705	80	72
114	1,	217:	DTE	217	67.348718	0.016113	80	2a
115	1,	219:	DTE	219	67.368496	0.018637	80	2b
116	1,	221:	DTE	221	67.393523	0.023884	80	2d
117	1,	223:	DTE	223	67.413695	0.019062	80	2c
118	1,	225:	DTE	225	67.434001	0.019161	80	2f
119	1,	227:	DTE	227	67.458586	0.023438	80	2e
120	1,	229:	DTE	229	67.478787	0.019056	80	75
121	1,	231:	DTE	231	67.498684	0.018741	80	6e
122	1,	233:	DTE	233	67.518885	0.019056	80	6c
123	1,	235:	DTE	235	67.546802	0.026761	80	72
124	1,	237:	DTE	237	67.565129	0.017181	80	2a
125	1,	239:	DTE	239	67.583773	0.017499	80	2b
126	1,	241:	DTE	241	67.603872	0.018952	80	2d
127	1,	243:	DTE	243	67.623872	0.018854	80	2c
128	1,	245:	DTE	245	67.644179	0.019161	80	2f
129	1,	247:	DTE	247	67.663866	0.018542	80	2e
130								
131	1,	249:	DTE	249	69.430562	1.765552	80	75
132	1,	251:	DTE	251	69.447224	0.015522	80	6e
133	1,	253:	DTE	253	69.467223	0.018749	80	6c
134	1,	255:	DTE	255	69.493886	0.025516	80	72
135	1,	257:	DTE	257	69.517002	0.021971	80	2a
136	1,	259:	DTE	259	69.542314	0.024166	80	2b
137	1,	261:	DTE	261	69.582830	0.039266	80	2d
138	1,	263:	DTE	263	69.602617	0.018642	80	2c
139	1,	265:	DTE	265	69.622198	0.018437	80	2f
140	1,	267:	DTE	267	69.642192	0.019016	80	2e
141	1,	269:	DTE	269	69.663757	0.020554	80	4e 28
142	1,	272:	DTE	272	69.682809	0.016764	80	52 28
143	1,	275:	DTE	275	70.485920	0.800818	80	52 28
144	1,	278:	DTE	278	71.289331	0.801125	80	52 28
145	1,	281:	DTE	281	71.390978	0.099360	80	75
146	1,	283:	DTE	283	71.415036	0.022917	80	6e
147	1,	285:	DTE	285	71.435134	0.018952	80	6c
148	1,	287:	DTE	287	71.460239	0.023960	80	72
149	1,	289:	DTE	289	71.480544	0.019056	80	2a
150	1,	291:	DTE	291	71.500546	0.018856	80	2b
151	1,	293:	DTE	293	71.520537	0.018847	80	2d
152	1,	295:	DTE	295	71.543767	0.022085	80	2c
153	1,	297:	DTE	297	71.565635	0.020723	80	2f
154	1,	299:	DTE	299	71.595629	0.028848	80	2e
155	1,	301:	DTE	301	71.616042	0.019269	80	75
156	1,	303:	DTE	303	71.635727	0.018537	80	6e
157	1,	305:	DTE	305	71.660310	0.023438	80	6c
158	1,	307:	DTE	307	71.680824	0.019264	80	72
159	1,	309:	DTE	309	71.700825	0.018856	80	2a
160	1,	311:	DTE	311	71.722276	0.020306	80	2b
161	1,	313:	DTE	313	71.740817	0.017396	80	2d
162	1,	315:	DTE	315	71.762957	0.020993	80	2c
163	1,	317:	DTE	317	71.780811	0.016311	80	2f
164	1,	319:	DTE	319	71.800908	0.018951	80	2e
165								
166	1,	321:	DTE	321	74.064928	2.262875	80	75
167	1,	323:	DTE	323	74.084814	0.018744	80	6e
168	1,	325:	DTE	325	74.104920	0.018960	80	6c
169	1,	327:	DTE	327	74.127620	0.021565	80	72
170	1,	329:	DTE	329	74.150539	0.021773	80	2a
171	1,	331:	DTE	331	74.170947	0.019161	80	2b
172	1,	333:	DTE	333	74.194384	0.022292	80	2d
173	1,	335:	DTE	335	74.215002	0.019473	80	2c

174	1,	337:	DTE	337	74.235002	0.018853	80	2f
175	1,	339:	DTE	339	74.265023	0.028874	80	2e
176	1,	341:	DTE	341	74.285198	0.019056	80	4e 28
177	1,	344:	DTE	344	75.088099	0.800610	80	4e 28
178	1,	347:	DTE	347	75.891510	0.801123	80	4e 28
179	1,	350:	DTE	350	76.694923	0.801125	80	4e 28
180	1,	353:	DTE	353	76.739285	0.042078	80	75
181	1,	355:	DTE	355	76.763443	0.023013	80	6e
182	1,	357:	DTE	357	76.784277	0.019678	80	6c
183	1,	359:	DTE	359	76.804800	0.019375	80	72
184	1,	361:	DTE	361	76.827606	0.021556	80	2a
185	1,	363:	DTE	363	76.849377	0.020626	80	2b
186	1,	365:	DTE	365	76.869373	0.018851	80	2d
187	1,	367:	DTE	367	76.889371	0.018856	80	2c
188	1,	369:	DTE	369	76.943421	0.052905	80	2f
189	1,	371:	DTE	371	76.964461	0.019895	80	2e
190	1,	373:	DTE	373	76.984663	0.019057	80	75
191	1,	375:	DTE	375	77.004560	0.018751	80	6e
192	1,	377:	DTE	377	77.024552	0.018848	80	6c
193	1,	379:	DTE	379	77.047365	0.021667	80	72
194	1,	381:	DTE	381	77.064483	0.015972	80	2a
195	1,	383:	DTE	383	77.084651	0.018854	80	2b
196	1,	385:	DTE	385	77.104749	0.018953	80	2d
197	1,	387:	DTE	387	77.133434	0.027541	80	2c
198	1,	389:	DTE	389	77.149741	0.014952	80	2f
199	1,	391:	DTE	391	77.170366	0.019479	80	2e
200								
201	1,	393:	DTE	393	78.742720	1.571209	80	75
202	1,	395:	DTE	395	78.764591	0.020730	80	6e
203	1,	397:	DTE	397	78.783127	0.017391	80	6c
204	1,	399:	DTE	399	78.802604	0.018334	80	72
205	1,	401:	DTE	401	78.827807	0.024057	80	2a
206	1,	403:	DTE	403	78.848119	0.019063	80	2b
207	1,	405:	DTE	405	78.868426	0.019161	80	2d
208	1,	407:	DTE	407	78.888218	0.018647	80	2c
209	1,	409:	DTE	409	78.912482	0.023118	80	2f
210	1,	411:	DTE	411	78.935393	0.021764	80	2e
211	1,	413:	DTE	413	78.961851	0.025304	80	4e 28
212	1,	416:	DTE	416	78.983511	0.019162	80	4c 28
213	1,	419:	DTE	419	79.786411	0.800610	80	4c 28
214	1,	422:	DTE	422	80.589823	0.801125	80	4c 28
215	1,	425:	DTE	425	81.393233	0.801123	80	4c 28
216	1,	428:	DTE	428	82.196645	0.801124	80	4c 28
217	1,	431:	DTE	431	83.000062	0.801130	80	4c 28
218	1,	434:	DTE	434	83.280434	0.278075	80	75
219	1,	436:	DTE	436	83.300423	0.018849	80	6e
220	1,	438:	DTE	438	83.325320	0.023752	80	6c
221	1,	440:	DTE	440	83.345625	0.019160	80	72
222	1,	442:	DTE	442	83.366503	0.019732	80	2a
223	1,	444:	DTE	444	83.385410	0.017589	80	2b
224	1,	446:	DTE	446	83.411660	0.025105	80	2d
225	1,	448:	DTE	448	83.435716	0.022912	80	2c
226	1,	450:	DTE	450	83.462585	0.025724	80	2f
227	1,	452:	DTE	452	83.485606	0.021877	80	2e
228	1,	454:	DTE	454	83.510599	0.023848	80	75
229	1,	456:	DTE	456	83.530599	0.018855	80	6e
230	1,	458:	DTE	458	83.550592	0.018849	80	6c
231	1,	460:	DTE	460	83.570905	0.019168	80	72
232	1,	462:	DTE	462	83.595480	0.023430	80	2a
233	1,	464:	DTE	464	83.615793	0.019165	80	2b
234	1,	466:	DTE	466	83.636724	0.019785	80	2d
235	1,	468:	DTE	468	83.660581	0.022710	80	2c
236	1,	470:	DTE	470	83.680988	0.019265	80	2f
237	1,	472:	DTE	472	83.701094	0.018961	80	2e
238	1,	474:	DTE	474	84.647400	0.945161	80	75
239	1,	476:	DTE	476	84.667395	0.018854	80	6e
240	1,	478:	DTE	478	84.694160	0.025657	80	6c
241	1,	480:	DTE	480	84.717702	0.022397	80	72
242	1,	482:	DTE	482	84.751445	0.032494	80	2a
243	1,	484:	DTE	484	84.777688	0.025098	80	2b
244	1,	486:	DTE	486	84.798209	0.019376	80	2d
245	1,	488:	DTE	488	84.817784	0.018430	80	2c

246	1,	490:	DTE	490	84.837682	0.018648	80	2f
247	1,	492:	DTE	492	84.861217	0.022400	80	2e
248	1,	494:	DTE	494	84.883196	0.020835	80	4c 28
249	1,	497:	DTE	497	85.686279	0.800738	80	4c 28
250	1,	500:	DTE	500	86.489710	0.801125	80	4c 28
251	1,	503:	DTE	503	87.293127	0.801130	80	4c 28
252	1,	506:	DTE	506	88.096540	0.801132	80	4c 28
253	1,	509:	DTE	509	88.208393	0.109567	80	75
254	1,	511:	DTE	511	88.229856	0.020216	80	6e
255	1,	513:	DTE	513	88.248383	0.017389	80	6c
256	1,	515:	DTE	515	88.268384	0.018855	80	72
257	1,	517:	DTE	517	88.292855	0.023325	80	2a
258	1,	519:	DTE	519	88.313482	0.019480	80	2b
259	1,	521:	DTE	521	88.333475	0.018750	80	2d
260	1,	523:	DTE	523	88.360281	0.025556	80	2c
261	1,	525:	DTE	525	88.383783	0.022355	80	2f
262	1,	527:	DTE	527	88.403774	0.018849	80	2e
263	1,	529:	DTE	529	88.423981	0.019061	80	75
264	1,	531:	DTE	531	88.443871	0.018744	80	6e
265	1,	533:	DTE	533	88.466058	0.021041	80	6c
266	1,	535:	DTE	535	88.483969	0.016765	80	72
267	1,	537:	DTE	537	88.504073	0.018958	80	2a
268	1,	539:	DTE	539	88.525944	0.020725	80	2b
269	1,	541:	DTE	541	88.549067	0.021978	80	2d
270	1,	543:	DTE	543	88.569164	0.018942	80	2c
271	1,	545:	DTE	545	88.589061	0.018741	80	2f
272	1,	547:	DTE	547	88.610096	0.019890	80	2e
273								
274	1,	549:	DTE	549	90.566557	1.955314	80	75
275	1,	551:	DTE	551	90.587283	0.019481	80	6e
276	1,	553:	DTE	553	90.609541	0.021113	80	6c
277	1,	555:	DTE	555	90.630296	0.019479	80	72
278	1,	557:	DTE	557	90.647374	0.015932	80	2a
279	1,	559:	DTE	559	90.670081	0.021562	80	2b
280	1,	561:	DTE	561	90.693240	0.022012	80	2d
281	1,	563:	DTE	563	90.712574	0.018229	80	2c
282	1,	565:	DTE	565	90.732569	0.019016	80	2f
283	1,	567:	DTE	567	90.755901	0.022355	80	2e
284	1,	569:	DTE	569	90.773082	0.016034	80	55 28
285	1,	572:	DTE	572	90.797249	0.021874	80	4c 28
286	1,	575:	DTE	575	91.600248	0.800706	80	4c 28
287	1,	578:	DTE	578	92.403660	0.801126	80	4c 28
288	1,	581:	DTE	581	93.207088	0.801150	80	4c 28
289	1,	584:	DTE	584	93.827703	0.618338	80	75
290	1,	586:	DTE	586	93.849259	0.020414	80	6e
291	1,	588:	DTE	588	93.868732	0.018222	80	6c
292	1,	590:	DTE	590	93.892693	0.022814	80	72
293	1,	592:	DTE	592	93.912894	0.019057	80	2a
294	1,	594:	DTE	594	93.932998	0.018959	80	2b
295	1,	596:	DTE	596	93.961898	0.027755	80	2d
296	1,	598:	DTE	598	93.982991	0.019898	80	2c
297	1,	600:	DTE	600	94.003088	0.018958	80	2f
298	1,	602:	DTE	602	94.029228	0.024994	80	2e
299	1,	604:	DTE	604	94.048707	0.018334	80	75
300	1,	606:	DTE	606	94.069012	0.019159	80	6e
301	1,	608:	DTE	608	94.088188	0.018029	80	6c
302	1,	610:	DTE	610	94.113381	0.024223	80	72
303	1,	612:	DTE	612	94.133382	0.018751	80	2a
304	1,	614:	DTE	614	94.158165	0.023638	80	2b
305	1,	616:	DTE	616	94.178742	0.019429	80	2d
306	1,	618:	DTE	618	94.198378	0.018337	80	2c
307	1,	620:	DTE	620	94.218377	0.018759	80	2f
308	1,	622:	DTE	622	94.238476	0.018858	80	2e
309								
310	1,	624:	DTE	624	96.833057	2.593445	80	75
311	1,	626:	DTE	626	96.857735	0.023535	80	6e
312	1,	628:	DTE	628	96.878047	0.019062	80	6c
313	1,	630:	DTE	630	96.898146	0.018952	80	72
314	1,	632:	DTE	632	96.918043	0.018751	80	2a
315	1,	634:	DTE	634	96.938244	0.019058	80	2b
316	1,	636:	DTE	636	96.958141	0.018752	80	2d
317	1,	638:	DTE	638	96.981673	0.022388	80	2c

318	1,	640:	DTE	640	96.998236	0.015416	80	2f
319	1,	642:	DTE	642	97.026362	0.026980	80	2e
320	1,	644:	DTE	644	97.048640	0.021138	80	55 28
321	1,	647:	DTE	647	97.852271	0.801234	80	55 28
322	1,	650:	DTE	650	98.655682	0.801124	80	55 28
323	1,	653:	DTE	653	99.459095	0.801126	80	55 28
324	1,	656:	DTE	656	99.567726	0.106346	80	75
325	1,	658:	DTE	658	99.588444	0.019577	80	6e
326	1,	660:	DTE	660	99.607507	0.017917	80	6c
327	1,	662:	DTE	662	99.629480	0.020828	80	72
328	1,	664:	DTE	664	99.647500	0.016874	80	2a
329	1,	666:	DTE	666	99.669474	0.020828	80	2b
330	1,	668:	DTE	668	99.693120	0.022501	80	2d
331	1,	670:	DTE	670	99.712594	0.018232	80	2c
332	1,	672:	DTE	672	99.732624	0.018887	80	2f
333	1,	674:	DTE	674	99.754459	0.020617	80	2e
334	1,	676:	DTE	676	99.773001	0.017396	80	75
335	1,	678:	DTE	678	99.796546	0.022399	80	6e
336	1,	680:	DTE	680	99.812787	0.015104	80	6c
337	1,	682:	DTE	682	99.832693	0.018761	80	72
338	1,	684:	DTE	684	99.857670	0.023744	80	2a
339	1,	686:	DTE	686	99.877878	0.019063	80	2b
340	1,	688:	DTE	688	99.897711	0.018687	80	2d
341	1,	690:	DTE	690	99.918080	0.019062	80	2c
342	1,	692:	DTE	692	99.942970	0.023745	80	2f
343	1,	694:	DTE	694	99.963177	0.019061	80	2e
344								
345	1,	696:	DTE	696	103.574475	3.610047	80	3a
346								
347	1,	698:	DTE	698	106.460893	2.885275	80	2a
348								
349	1,	700:	DTE	700	110.057188	3.595152	80	3b
350								
351	1,	702:	DTE	702	112.970058	2.911625	80	2b
352								
353	1,	704:	DTE	704	116.741334	3.770134	80	5b
354								
355	1,	706:	DTE	706	119.285714	2.543240	80	7b
356								
357	1,	708:	DTE	708	124.023395	4.736435	80	7d
358								
359	1,	710:	DTE	710	130.094818	6.070282	80	3c
360	1,	712:	DTE	712	130.897508	0.801549	80	3c
361	1,	714:	DTE	714	131.699875	0.801233	80	3c
362	1,	716:	DTE	716	132.502351	0.801334	80	3c
363	1,	718:	DTE	718	133.191026	0.687524	80	2c
364								
365	1,	720:	DTE	720	135.507597	2.315320	80	3d
366	1,	722:	DTE	722	136.310181	0.801234	80	3d
367	1,	724:	DTE	724	137.112549	0.801227	80	3d
368	1,	726:	DTE	726	137.914926	0.801235	80	3d
369	1,	728:	DTE	728	138.342979	0.426917	80	2d
370								
371	1,	730:	DTE	730	140.706143	2.362022	80	5c
372								
373	1,	732:	DTE	732	143.361031	2.653746	80	7c
374								
375	1,	734:	DTE	734	148.333257	4.971084	80	7e
376								
377	1,	736:	DTE	736	150.828691	2.494294	80	3e
378								
379	1,	738:	DTE	738	153.128220	2.298378	80	2e
380								
381	1,	740:	DTE	740	155.696882	2.567525	80	3f
382								
383	1,	742:	DTE	742	158.306247	2.608232	80	2f
384								
385	1,	744:	DTE	744	163.329188	5.021748	80	7e
386								
387	1,	746:	DTE	746	168.568562	5.238233	80	7e
388								
389	There were a total of			747 bytes transferred				

390
391 There were a total of 0 DCE bytes transferred
392 The first DCE byte came in at 0.000000 seconds from the start of data collection
393 The last DCE byte was at 0.000000 seconds from the start of data collection
394
395 There were a total of 747 DTE bytes transferred
396 The first DTE byte came in at 0.000000 seconds from the start of data collection
397 The last DTE byte was at 168.569703 seconds from the start of data collection
398

1.21 VCL-Matrix

This data was collected from a Dedicated Micro Systems Sprite 2 on 29MAY07.

1. Baud rate: 9600
2. Parity: None
3. Hello Message Length: Unknown
4. Hello Message last few bytes: —
5. Is the protocol a Polling Protocol?: No
6. Name of the data capture file: 29MAY07N.txt File is non-existent.
7. Special: Nothing ever came out of the Sprite 2.

1.22 Vista

This data was collected from a Dedicated Micro Systems Sprite 2 on 29MAY07.

1. Baud rate: 9600
2. Parity: None
3. Hello Message Length: 44
4. Hello Message last few bytes: 0x00 0x00 0x01 0x03
5. Is the protocol a Polling Protocol?: No
6. Name of the data capture file: 29MAY07H.txt
7. Protocol Characteristics:
 - 7.1 Message Length(s): 9
 - 7.2 ISO Level 1: _____.
 - 7.3 Unique first byte: 0xAA, 0x02
 - 7.4 Unique last byte: 0x03
 - 7.5 Checksum: Sum of all but the first two bytes and the last byte.
 - 7.6 Device address: Byte 3?

²³\$Header: d:/Binder2/1stLooks/RCS/VCLMatrx.inc,v 1.1 2007-06-05 08:31:18-07 Hamilton Exp Hamilton \$

²⁴\$Header: d:/Binder2/1stLooks/RCS/Vista.inc,v 1.1 2007-06-05 08:31:24-07 Hamilton Exp Hamilton \$

1.22.1 h.out

```

1 $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2 $Header: d:/Binder2/1stLooks/RCS/H.out,v 1.3 2007-05-31 08:02:23-07 Hamilton Exp Hamilton $
3 FTS capture buffer (5/29/2007 8:19:32 AM)
4 Event 1 (5/29/2007 8:16:32.543200 AM) through
5 Event 657 (5/29/2007 8:19:04.523055 AM)
6
7 1, 1: DTE 1 0.000000 0.000000 aa 02 01 00 00 00 01 03
8 1, 10: DTE 10 0.010425 0.001157 aa 02 01 01 00 33 00 35 03
9 1, 19: DTE 19 0.032178 0.012604 aa 02 01 00 00 00 00 01 03
10 1, 28: DTE 28 0.042595 0.001146 aa 02 01 91 00 00 00 92 03
11 1, 37: DTE 37 0.113989 0.062123 aa 02 01 00 00 00 00 01 03
12
13 1, 46: DTE 46 40.047238 39.923927 aa 02 01 00 00 00 00 01 03
14 1, 55: DTE 55 40.057754 0.001147 aa 02 01 00 00 00 88 89 03
15 1, 64: DTE 64 40.068030 0.001109 aa 02 01 04 00 00 88 8d 03
16 1, 73: DTE 73 42.216787 2.139553 aa 02 01 00 00 00 00 01 03
17 1, 82: DTE 82 42.227410 0.001147 aa 02 01 00 00 00 00 01 03
18
19 1, 91: DTE 91 44.655563 2.418780 aa 02 01 00 00 00 00 01 03
20 1, 100: DTE 100 44.666080 0.001314 aa 02 01 00 00 00 88 89 03
21 1, 109: DTE 109 44.676497 0.001146 aa 02 01 04 00 00 88 8d 03
22 1, 118: DTE 118 44.687121 0.001144 aa 02 01 04 00 88 88 15 03
23 1, 127: DTE 127 44.697532 0.001146 aa 02 01 06 00 88 88 17 03
24 1, 136: DTE 136 47.615509 2.908605 aa 02 01 00 00 00 00 01 03
25 1, 145: DTE 145 47.625922 0.001146 aa 02 01 00 00 00 00 01 03
26
27 1, 154: DTE 154 50.181245 2.546059 aa 02 01 00 00 00 00 01 03
28 1, 163: DTE 163 50.191865 0.001146 aa 02 01 00 00 88 00 89 03
29 1, 172: DTE 172 50.202171 0.001147 aa 02 01 02 00 88 00 8b 03
30 1, 181: DTE 181 52.579298 2.367856 aa 02 01 00 00 00 00 01 03
31 1, 190: DTE 190 52.589605 0.001146 aa 02 01 00 00 00 00 01 03
32
33 1, 199: DTE 199 55.449777 2.851005 aa 02 01 00 00 00 00 01 03
34 1, 208: DTE 208 55.460163 0.001119 aa 02 01 00 00 00 88 89 03
35 1, 217: DTE 217 55.470708 0.001150 aa 02 01 08 00 00 88 91 03
36 1, 226: DTE 226 55.481225 0.001137 aa 02 01 08 00 88 88 19 03
37 1, 235: DTE 235 55.491642 0.001146 aa 02 01 0a 00 88 88 1b 03
38 1, 244: DTE 244 58.149554 2.648808 aa 02 01 00 00 00 00 01 03
39 1, 253: DTE 253 58.160168 0.001146 aa 02 01 00 00 00 00 01 03
40
41 1, 262: DTE 262 62.340038 4.170494 aa 02 01 00 00 00 00 01 03
42 1, 271: DTE 271 62.350649 0.001147 aa 02 01 00 00 00 88 89 03
43 1, 280: DTE 280 62.361065 0.001137 aa 02 01 08 00 00 88 91 03
44 1, 289: DTE 289 64.915033 2.544598 aa 02 01 00 00 00 00 01 03
45 1, 298: DTE 298 64.925550 0.001146 aa 02 01 00 00 00 00 01 03
46
47 1, 307: DTE 307 68.180345 3.245426 aa 02 01 00 00 00 00 01 03
48 1, 316: DTE 316 68.190862 0.001146 aa 02 01 00 00 00 88 89 03
49 1, 325: DTE 325 68.201375 0.001354 aa 02 01 08 00 00 88 91 03
50 1, 334: DTE 334 68.211793 0.001146 aa 02 01 08 00 88 88 19 03
51 1, 343: DTE 343 68.222313 0.001250 aa 02 01 09 00 88 88 1a 03
52 1, 352: DTE 352 70.738684 2.507101 aa 02 01 00 00 00 00 01 03
53 1, 361: DTE 361 70.749200 0.001146 aa 02 01 00 00 00 00 01 03
54
55 1, 370: DTE 370 73.256410 2.497834 aa 02 01 00 00 00 00 01 03
56 1, 379: DTE 379 73.266817 0.001407 aa 02 01 00 00 88 00 89 03
57 1, 388: DTE 388 73.277232 0.001146 aa 02 01 01 00 88 00 8a 03
58 1, 397: DTE 397 76.118343 2.831840 aa 02 01 00 00 00 00 01 03
59 1, 406: DTE 406 76.128755 0.001146 aa 02 01 00 00 00 00 01 03
60
61 1, 415: DTE 415 78.590554 2.452633 aa 02 01 00 00 00 00 01 03
62 1, 424: DTE 424 78.601071 0.001145 aa 02 01 00 00 00 88 89 03
63 1, 433: DTE 433 78.611377 0.001145 aa 02 01 04 00 00 88 8d 03
64 1, 442: DTE 442 78.621690 0.001146 aa 02 01 04 00 88 88 15 03
65 1, 451: DTE 451 78.632106 0.001145 aa 02 01 05 00 88 88 16 03
66 1, 460: DTE 460 81.888467 3.247090 aa 02 01 00 00 00 00 01 03
67 1, 469: DTE 469 81.898772 0.001146 aa 02 01 00 00 00 00 01 03
68

```

```

69      1,      478: DTE      478      84.311661      2.403505 aa 02 01 00 00 00 00 01 03
70      1,      487: DTE      487      84.322443      0.001147 aa 02 01 00 00 00 88 89 03
71      1,      496: DTE      496      84.332859      0.001177 aa 02 01 04 00 00 88 8d 03
72      1,      505: DTE      505      86.841527      2.499294 aa 02 01 00 00 00 00 01 03
73      1,      514: DTE      514      86.851933      0.001145 aa 02 01 00 00 00 00 01 03
74
75      1,      523: DTE      523      90.211820      3.350615 aa 02 01 00 08 00 00 09 03
76
77      1,      532: DTE      532      92.205874      1.984892 aa 02 01 00 00 00 00 01 03
78
79      1,      541: DTE      541      95.040008      2.824762 aa 02 01 00 04 00 00 05 03
80
81      1,      550: DTE      550      97.434000      2.384831 aa 02 01 00 00 00 00 01 03
82
83      1,      559: DTE      559      117.303114      19.859851 aa 02 01 00 10 00 00 11 03
84
85      1,      568: DTE      568      119.606806      2.294326 aa 02 01 00 00 00 00 01 03
86
87      1,      577: DTE      577      122.280647      2.664678 aa 02 01 00 20 00 00 21 03
88
89      1,      586: DTE      586      124.760254      2.470237 aa 02 01 00 00 00 00 01 03
90
91      1,      595: DTE      595      134.646482      9.876967 aa 02 01 91 01 00 00 93 03
92
93      1,      604: DTE      604      137.556644      2.900689 aa 02 01 00 02 00 00 03 03
94
95      1,      613: DTE      613      139.539658      1.973748 aa 02 01 00 00 00 00 01 03
96
97      1,      622: DTE      622      141.412896      1.863973 aa 02 01 00 01 00 00 02 03
98
99      1,      631: DTE      631      143.536620      2.114352 aa 02 01 00 00 00 00 01 03
100
101      1,      640: DTE      640      147.974039      4.428151 aa 02 01 8f 01 00 00 91 03
102
103      1,      649: DTE      649      151.970693      3.987183 aa 02 01 91 01 00 00 93 03
104
105      There were a total of          657 bytes transferred
106
107      There were a total of          0 DCE bytes transferred
108      The first DCE byte came in at 0.000000 seconds from the start of data collection
109      The last DCE byte was at 0.000000 seconds from the start of data collection
110
111      There were a total of          657 DTE bytes transferred
112      The first DTE byte came in at 0.000000 seconds from the start of data collection
113      The last DTE byte was at 151.979855 seconds from the start of data collection
114

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