

First Looks at Foreign Protocols

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¹\$Header: d:/1stLooks/Combined/RCS/FProtos.tex,v 1.3 2007-12-31 12:55:17-08 Hamilton Exp Hamilton \$

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1 Foreign Protocol Discovery

Several attempts have been made to determine the protocols of competitors and to discover how others are using Pelco protocols. This is a listing of the results of this effort. Two different DVRs were used:

- Dedicated Micros Sprite 2
- Integral DS Xpress

1.1 Notes on protocol discovery with a DMS Sprite 2

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 ObserVer for the Sprite 2 is shown in Figure 1, page 7.

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 sent during the protocol discovery exercise.

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 in front of each change in testing. This is to break the test captures down into logical steps that match the test sheet (Figure 2, page 8). Each time that I changed from one key to the next an appreciable amount of time occurred. 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.

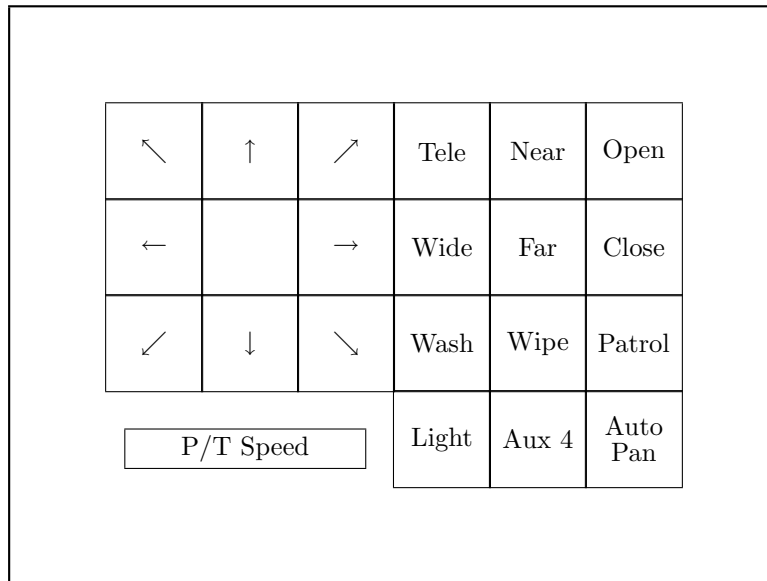
The protocols that are built in to the Sprite 2, as listed on the Sprite 2 internal menu system are:

1. AD-Matrix, Section 3.1, page 15.
2. AD-168Matrix, Section 3.2, page 16.
3. BBV-Matrix, Section 3.3, page 16.
4. BBV-RS485, Section 3.5, page 19.
5. Dennard, Section 3.8, page 35.

6. DM-Serial, Section 3.9, page 39.
7. Ernitec, Section 3.11, page 49.
8. JCL, Section 3.15, page 79.
9. Kalatel, Section 3.17, page 89.
10. MarkMercer, Section 3.19, page 99.
11. Pelco-P, Section 3.23, page 131.
12. Panasonic-WV-CS600, Section 3.20, page 103.
13. Panasonic-WV-CS850, Section 3.21, page 115.
14. Philips, Section 3.28, page 163.
15. Philips-232, Section 3.29, page 169.
16. Samsung, Section 3.31, page 177.
17. Sensormatic, Section 3.32, page 183.
18. Ultrack, Section 3.34, page 193.
19. Vantage, Section 3.35, page 197.
20. VCL, Section 3.36, page 199.
21. VCL-Matrix, Section 3.37, page 207.
22. Vista, Section 3.39, page 215.

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 8. The “improved” data acquisition sheet is shown in Figure 3, page 9.



\$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

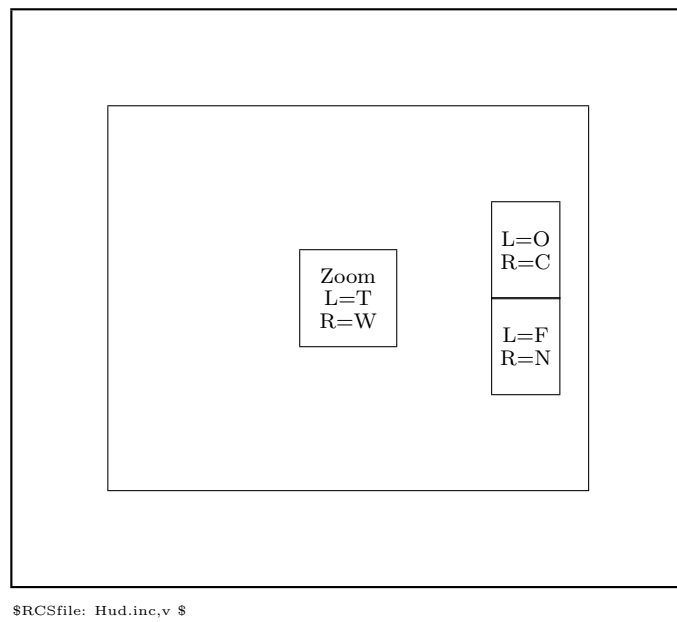
1.2 Notes on protocol discovery with a DS XPress DVR

Using the built in menu system of the Integral Technologies, DS XPress DVR, all of the various types of PTZ units that utilize a serial protocol were tested for a “first look”.

1.3 Test Order

Testing was done in the following order:

- 1 Find the maximum camera address.
- 2 Find the minimum camera address.
- 3 Up
- 4 Up-Right
- 5 Right
- 6 Down-Right
- 7 Down
- 8 Down-Left
- 9 Left
- 10 Up-Left
- 11 Up
- 12 Left mouse in Center
- 13 Right mouse in Center
- 14 Left mouse in Upper Right Panel
- 15 Right mouse in Upper Right Panel
- 16 Left mouse in Lower Right Panel
- 17 Right mouse in Lower Right Panel
- 18 Call Preset 1
- 19 Set Preset 1
- 20 Call Preset Max
- 21 Set Preset Max



\$RCSfile: Hud.inc,v \$

Figure 4: HUD Screen Overlay

2 “Offical” protocol documents on hand

All of these documents are in D:\1stLooks\Specifications.

1. BBV
 - 1.1 BBV RS422 Telemetry Control Protocol 24June04.pdf
 - 1.2 BBV tp and coax protocol 1.4 Oct05.pdf
 - 1.3 Tx1000 RS232 control protocol V1.9 6Sep02.pdf
 - 1.4 Tx1500 control protocol Draft 24Jan03 PSC.pdf
2. Burle/Philips/Bosch
 - 2.1 Burle Protocol.pdf
 - 2.2 CCL_Manual.pdf
3. Kalatel
 - 3.1 ASCII_protocol_man.pdf
 - 3.2 micro5pxn_mop_man.pdf
4. Panasonic
 - 4.1 AnsToPelco20070615.pdf
 - 4.2 cs850.pdf
 - 4.3 CSRprot1.pdf
 - 4.4 CSRproto.pdf
 - 4.5 excerpt.pdf
 - 4.6 Panasonic Camera Protocol_4.0.pdf
 - 4.7 Panasonic Protocol_CS850_860.pdf
 - 4.8 Panasonic UTC.PDF
 - 4.9 panasoniccoaxitron.pdf
 - 4.10 proto40.pdf
5. Sensormatic
 - 5.1 8000-2694-01_A_E.pdf
 - 5.2 8000-2694-01_B_E.pdf
6. VCL
 - 6.1 Video Telemetry Protocol DRAFT2.pdf
7. Vicon
 - 7.1 RS-422Receiverprotocolwithabspas.pdf
 - 7.2 RS232DataStandardProtocol-.pdf

²\$Header: d:/1stLooks/Combined/RCS/OffDocs.inc,v 1.1 2007-12-31 09:45:54-08 Hamilton Exp Hamilton \$

- 7.3 RS422%20Data%20Protocol%20-%20Tip.pdf
- 7.4 RS422%20Data%20Standard%20-%20Tip.pdf
- 7.5 RS422DataQuickTester-Tip.pdf
- 7.6 RS485%20Data%20Standard%20-%20Tip.pdf
- 7.7 v1300.pdf
- 7.8 v1400.pdf
- 7.9 V1422 RS-232_X678-02-00.pdf
- 7.10 v1422c.pdf
- 7.11 v1422r.pdf
- 7.12 v1466.pdf
- 7.13 v1500.pdf
- 7.14 VPS1466 RS-232_X912-01-01.pdf

3 Protocol Discovery Data Captures

3.1 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.

3.1.1 29may07k.out

```

1  $ Id: MakeSecs.l,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2  $Header: d:/1stLooks/Combined/RCS/29MAY07K.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:/1stLooks/Combined/RCS/ADMatrix.inc,v 1.2 2007-12-31 08:22:14-08 Hamilton Exp Hamilton \$

3.2 AD-168 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?: No
6. Name of the data capture file: 29MAY07L.txt File is non-existent.
7. Special: Nothing ever came out of the Sprite 2.

3.3 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.

3.4 CheckPoint

This data was collected from a an Integral Technologies, DS XPress DVR on 19DEC07.

1. Baud: **4800**
2. Hello Message: **Yes**
3. Minimum Camera Address: **1**
4. Maximum Camera Address: **99**
5. Minimum Preset Number: **1**
6. Maximum Preset Number: **7**
7. Do we have an “offical” protocol document? **No**

⁴\$Header: d:/1stLooks/Combined/RCS/AD168Mtx.inc,v 1.3 2007-12-31 08:34:52-08 Hamilton Exp Hamilton \$

⁵\$Header: d:/1stLooks/Combined/RCS/BBVMtrx.inc,v 1.2 2007-12-31 08:22:14-08 Hamilton Exp Hamilton \$

⁶\$Header: d:/1stLooks/Combined/RCS/DSXche.inc,v 1.2 2007-12-31 09:06:36-08 Hamilton Exp Hamilton \$

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: _____.

Echelon to Serial Translator

“.txt”

If there is no answer to the hello message, the system stops sending messages to the PTZ unit and totally locks up.

3.4.1 19DEC07R.out

```

1  Integral Technologies DS XPress DVR
2  DTE = From the DVR
3  DCE = nothing, no dome was attached
4  4800 baud
5  No parity
6  CheckPoint
7
8
9  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
10 $Header: d:/1stLooks/Combined/RCS/19DEC07R.out,v 1.2 2007-12-19 12:35:32-08 Hamilton Exp Hamilton $
11 FTS capture buffer (12/19/2007 8:25:14 AM)
12 Event 1 (12/19/2007 8:23:43.297369 AM) through
13 Event 15 (12/19/2007 8:23:58.465267 AM)
14
15
16      1,      1: DTE      1      0.000000  0.000000 01 00 1d 00 47 5b
17
18      1,      7: DTE      7      15.151054  15.140523 31 56 42 3d 30 46 38 37 0d
19
20 There were a total of      15 bytes transferred
21
22 There were a total of      0 DCE bytes transferred
23 The first DCE byte came in at 0.000000 seconds from the start of data collection
24 The last DCE byte was at 0.000000 seconds from the start of data collection
25
26 There were a total of      15 DTE bytes transferred
27 The first DTE byte came in at 0.000000 seconds from the start of data collection
28 The last DTE byte was at 15.167898 seconds from the start of data collection
29

```


3.5 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

3.5.1 29may07o.out

```

1 $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2 $Header: d:/1stLooks/Combined/RCS/29MAY070.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

```

⁷\$Header: d:/1stLooks/Combined/RCS/BBVRS485.inc,v 1.2 2007-12-31 08:22:14-08 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	22	00	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

```


3.6 BBV

This data was collected from a an Integral Technologies, DS XPress DVR on 19DEC07.

1. Baud: **4800**
2. Hello Message: **No**
3. Minimum Camera Address: **1**
4. Maximum Camera Address: **64**
5. Minimum Preset Number: **1**
6. Maximum Preset Number: **99**
7. Do we have an “official” protocol document? **Yes**
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: _____.

BBV TX1000 RS232 Control Protocol

3.6.1 19DEC07K.out

```

1  Integral Technologies DS XPress DVR
2  DTE = From the DVR
3  DCE = nothing, no dome was attached
4  4800 baud
5  No parity
6  BBV
7
8
9  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
10 $Header: d:/1stLooks/Combined/RCS/19DEC07K.out,v 1.2 2007-12-19 12:35:32-08 Hamilton Exp Hamilton $
11 FTS capture buffer (12/19/2007 7:49:21 AM)
12 Event 1 (12/19/2007 7:46:26.861334 AM) through
13 Event 2,072 (12/19/2007 7:49:00.757468 AM)
14
15
16      1,      1: DTE      1      0.000000  0.000000 4a 40 c0 ca 40 c0 68 31
17      1,      9: DTE      9      0.385040  0.214953 4a 40 c0 ca 40 c0 5b b0
18      1,     17: DTE     17      1.189140  0.632985 4a 40 c0 ca 40 c0 5b b1
19      1,     25: DTE     25      1.963256  0.603001 4a 40 c0 ca 40 c0 5b b2
20      1,     33: DTE     33      3.275416  1.141197 4a 40 c0 ca 40 c0 5b b3
21      1,     41: DTE     41      3.844492  0.397961 4a 40 c0 ca 40 c0 5b b4
22      1,     49: DTE     49      4.576588  0.560967 4a 40 c0 ca 40 c0 5b b5
23      1,     57: DTE     57      4.897642  0.149899 4a 40 c0 ca 40 c0 5b b6
24      1,     65: DTE     65      6.026783  0.958179 4a 40 c0 ca 40 c0 5b b7
25      1,     73: DTE     73      6.347825  0.149913 4a 40 c0 ca 40 c0 5b b8
26      1,     81: DTE     81      6.831900  0.312896 4a 40 c0 ca 40 c0 5b b9

```

^s\$Header: d:/1stLooks/Combined/RCS/DSXbbv.inc,v 1.2 2007-12-31 09:06:36-08 Hamilton Exp Hamilton \$

27	1,	89:	DTE	89	7.315975	0.312947	4a	40	c0	ca	40	c0	5b	ba
28	1,	97:	DTE	97	7.885037	0.398949	4a	40	c0	ca	40	c0	5b	bb
29	1,	105:	DTE	105	8.284099	0.228935	4a	40	c0	ca	40	c0	5b	bc
30	1,	113:	DTE	113	8.639153	0.185919	4a	40	c0	ca	40	c0	5b	bd
31	1,	121:	DTE	121	9.122198	0.312946	4a	40	c0	ca	40	c0	5b	bd
32	1,	129:	DTE	129	10.272383	0.979068	4a	40	c0	ca	40	c0	db	b0 f7 b0 e8 30 ea 30
33														
34	1,	143:	DTE	143	13.496808	3.040655	4a	40	c0	ca	40	c0	5b	b0
35	1,	151:	DTE	151	14.428931	0.762009	4a	40	c0	ca	40	c0	6a	30 5b b0
36	1,	161:	DTE	161	14.749982	0.146884	4a	40	c0	ca	40	c0	6a	30 5b b1
37	1,	171:	DTE	171	15.072067	0.146747	4a	40	c0	ca	40	c0	6a	30 5b b2
38	1,	181:	DTE	181	15.747120	0.500759	4a	40	c0	ca	40	c0	6a	31 5b b2
39	1,	191:	DTE	191	16.735219	0.812685	4a	40	c0	ca	40	c0	6a	31 5b b3
40	1,	201:	DTE	201	17.061273	0.150692	4a	40	c0	ca	40	c0	6a	31 5b b4
41	1,	211:	DTE	211	17.382314	0.146681	4a	40	c0	ca	40	c0	6a	32 5b b4
42	1,	221:	DTE	221	17.704387	0.146736	4a	40	c0	ca	40	c0	6a	32 5b b5
43	1,	231:	DTE	231	18.030426	0.148700	4a	40	c0	ca	40	c0	6a	33 5b b5
44	1,	241:	DTE	241	18.351456	0.146709	4a	40	c0	ca	40	c0	6a	33 5b b6
45	1,	251:	DTE	251	18.672498	0.145721	4a	40	c0	ca	40	c0	6a	33 5b b7
46	1,	261:	DTE	261	18.998474	0.150617	4a	40	c0	ca	40	c0	6a	34 5b b7
47	1,	271:	DTE	271	19.319554	0.145667	4a	40	c0	ca	40	c0	6a	34 5b b8
48	1,	281:	DTE	281	19.645623	0.150693	4a	40	c0	ca	40	c0	6a	35 5b b8
49	1,	291:	DTE	291	19.971664	0.146318	4a	40	c0	ca	40	c0	6a	35 5b b9
50	1,	301:	DTE	301	20.292718	0.146695	4a	40	c0	ca	40	c0	6a	36 5b b9
51	1,	311:	DTE	311	20.614597	0.147546	4a	40	c0	ca	40	c0	6a	37 5b b9
52	1,	321:	DTE	321	20.935843	0.146731	4a	40	c0	ca	40	c0	6a	37 5b ba
53	1,	331:	DTE	331	21.256830	0.146679	4a	40	c0	ca	40	c0	6a	37 5b bb
54	1,	341:	DTE	341	21.578889	0.146630	4a	40	c0	ca	40	c0	6a	37 5b bc
55	1,	351:	DTE	351	21.900323	0.147087	4a	40	c0	ca	40	c0	6a	38 5b bc
56	1,	361:	DTE	361	22.221962	0.146682	4a	40	c0	ca	40	c0	6a	38 5b bd
57	1,	371:	DTE	371	22.547029	0.150708	4a	40	c0	ca	40	c0	6a	39 5b bd
58	1,	381:	DTE	381	22.869084	0.146760	4a	40	c0	ca	40	c0	6a	3a 5b bd
59	1,	391:	DTE	391	23.190140	0.146735	4a	40	c0	ca	40	c0	6a	3a 5b bd
60	1,	401:	DTE	401	23.511156	0.145692	4a	40	c0	ca	40	c0	db	b0 f7 b0 e8 30 ea 30
61														
62	1,	415:	DTE	415	25.399438	1.704497	4a	40	c0	ca	40	c0	76	
63	1,	422:	DTE	422	27.249673	1.682228	4a	40	c0	ca	40	c0	6a	30
64	1,	430:	DTE	430	28.078799	0.658165	4a	40	c0	ca	40	c0	6a	31
65	1,	438:	DTE	438	28.401365	0.151462	4a	40	c0	ca	40	c0	6a	32
66	1,	446:	DTE	446	28.721846	0.149913	4a	40	c0	ca	40	c0	6a	33
67	1,	454:	DTE	454	30.022041	1.129057	4a	40	c0	ca	40	c0	6a	34
68	1,	462:	DTE	462	30.505022	0.312866	4a	40	c0	ca	40	c0	6a	35
69	1,	470:	DTE	470	30.827157	0.150927	4a	40	c0	ca	40	c0	6a	36
70	1,	478:	DTE	478	31.460245	0.463885	4a	40	c0	ca	40	c0	6a	37
71	1,	486:	DTE	486	32.049309	0.418116	4a	40	c0	ca	40	c0	6a	38
72	1,	494:	DTE	494	32.564385	0.342932	4a	40	c0	ca	40	c0	6a	39
73	1,	502:	DTE	502	32.889463	0.153950	4a	40	c0	ca	40	c0	6a	3a
74	1,	510:	DTE	510	33.211468	0.150928	4a	40	c0	ca	40	c0	6a	3b
75	1,	518:	DTE	518	33.532523	0.150914	4a	40	c0	ca	40	c0	6a	3c
76	1,	526:	DTE	526	33.922562	0.218910	4a	40	c0	ca	40	c0	6a	3d
77	1,	534:	DTE	534	34.354631	0.260886	4a	40	c0	ca	40	c0	6a	3d
78	1,	542:	DTE	542	34.970727	0.444967	4a	40	c0	ca	40	c0	db	b0 f7 b0 e8 30 ea 30
79														
80	1,	556:	DTE	556	38.512185	3.357710	4a	40	c0	ca	40	c0	76	
81	1,	563:	DTE	563	39.640183	0.959991	4a	40	c0	ca	40	c0	77	b0
82	1,	571:	DTE	571	39.962458	0.151020	4a	40	c0	ca	40	c0	6a	30 77 b0
83	1,	581:	DTE	581	40.552459	0.415708	4a	40	c0	ca	40	c0	6a	31 77 b0
84	1,	591:	DTE	591	40.874514	0.146383	4a	40	c0	ca	40	c0	6a	31 77 b1
85	1,	601:	DTE	601	41.349580	0.300747	4a	40	c0	ca	40	c0	6a	32 77 b1
86	1,	611:	DTE	611	41.674631	0.150668	4a	40	c0	ca	40	c0	6a	32 77 b2
87	1,	621:	DTE	621	41.996650	0.146319	4a	40	c0	ca	40	c0	6a	32 77 b3
88	1,	631:	DTE	631	42.317704	0.146696	4a	40	c0	ca	40	c0	6a	33 77 b3
89	1,	641:	DTE	641	42.639734	0.146622	4a	40	c0	ca	40	c0	6a	33 77 b4
90	1,	651:	DTE	651	43.447861	0.633755	4a	40	c0	ca	40	c0	6a	34 77 b4
91	1,	661:	DTE	661	43.768904	0.145708	4a	40	c0	ca	40	c0	6a	34 77 b5
92	1,	671:	DTE	671	44.436988	0.492742	4a	40	c0	ca	40	c0	6a	34 77 b6
93	1,	681:	DTE	681	44.762053	0.150732	4a	40	c0	ca	40	c0	6a	35 77 b6
94	1,	691:	DTE	691	45.084083	0.146709	4a	40	c0	ca	40	c0	6a	35 77 b7
95	1,	701:	DTE	701	45.405139	0.146449	4a	40	c0	ca	40	c0	6a	36 77 b7
96	1,	711:	DTE	711	45.731167	0.146696	4a	40	c0	ca	40	c0	6a	36 77 b8
97	1,	721:	DTE	721	46.052221	0.146709	4a	40	c0	ca	40	c0	6a	36 77 b9
98	1,	731:	DTE	731	46.373302	0.145748	4a	40	c0	ca	40	c0	6a	37 77 b9

99	1,	741:	DTE	741	46.695309	0.146891	4a	40	c0	ca	40	c0	6a	38	77	b9
100	1,	751:	DTE	751	47.016338	0.146699	4a	40	c0	ca	40	c0	6a	38	77	ba
101	1,	761:	DTE	761	47.338405	0.146734	4a	40	c0	ca	40	c0	6a	38	77	bb
102	1,	771:	DTE	771	47.660962	0.148235	4a	40	c0	ca	40	c0	6a	38	77	bc
103	1,	781:	DTE	781	47.989487	0.150719	4a	40	c0	ca	40	c0	6a	39	77	bc
104	1,	791:	DTE	791	48.315491	0.150667	4a	40	c0	ca	40	c0	6a	39	77	bd
105	1,	801:	DTE	801	48.636571	0.146709	4a	40	c0	ca	40	c0	6a	3a	77	bd
106	1,	811:	DTE	811	48.957587	0.145694	4a	40	c0	ca	40	c0	db	b0	f7	b0 e8 30 ea 30
107																
108	1,	825:	DTE	825	51.370972	2.229600	4a	40	c0	ca	40	c0	68	30		
109	1,	833:	DTE	833	52.547106	1.001020	4a	40	c0	ca	40	c0	77	b0		
110	1,	841:	DTE	841	52.868145	0.149925	4a	40	c0	ca	40	c0	77	b1		
111	1,	849:	DTE	849	53.198174	0.154927	4a	40	c0	ca	40	c0	77	b2		
112	1,	857:	DTE	857	53.524227	0.154912	4a	40	c0	ca	40	c0	77	b1		
113	1,	865:	DTE	865	53.845269	0.149912	4a	40	c0	ca	40	c0	77	b2		
114	1,	873:	DTE	873	54.167313	0.150915	4a	40	c0	ca	40	c0	77	b3		
115	1,	881:	DTE	881	54.488356	0.150916	4a	40	c0	ca	40	c0	77	b4		
116	1,	889:	DTE	889	54.810398	0.150914	4a	40	c0	ca	40	c0	77	b5		
117	1,	897:	DTE	897	55.656519	0.676083	4a	40	c0	ca	40	c0	77	b6		
118	1,	905:	DTE	905	55.978561	0.150939	4a	40	c0	ca	40	c0	77	b7		
119	1,	913:	DTE	913	56.827690	0.679014	4a	40	c0	ca	40	c0	77	b8		
120	1,	921:	DTE	921	57.154747	0.154964	4a	40	c0	ca	40	c0	77	b9		
121	1,	929:	DTE	929	57.723799	0.397962	4a	40	c0	ca	40	c0	77	ba		
122	1,	937:	DTE	937	58.045854	0.150941	4a	40	c0	ca	40	c0	77	bb		
123	1,	945:	DTE	945	58.366883	0.150916	4a	40	c0	ca	40	c0	77	bc		
124	1,	953:	DTE	953	58.828982	0.290943	4a	40	c0	ca	40	c0	77	bd		
125	1,	961:	DTE	961	59.150988	0.150894	4a	40	c0	ca	40	c0	77	bd		
126	1,	969:	DTE	969	59.697955	0.376844	4a	40	c0	ca	40	c0	db	b0	f7	b0 e8 30 ea 30
127																
128	1,	983:	DTE	983	62.410502	2.528672	4a	40	c0	ca	40	c0	68	34		
129	1,	991:	DTE	991	62.872483	0.290929	4a	40	c0	ca	40	c0	68	30		
130	1,	999:	DTE	999	63.745607	0.701982	4a	40	c0	ca	40	c0	68	30	77	b0
131	1,	1009:	DTE	1009	64.066662	0.146709	4a	40	c0	ca	40	c0	68	31	77	b0
132	1,	1019:	DTE	1019	64.392689	0.150693	4a	40	c0	ca	40	c0	68	32	77	b0
133	1,	1029:	DTE	1029	64.714748	0.146736	4a	40	c0	ca	40	c0	68	32	77	b1
134	1,	1039:	DTE	1039	65.039944	0.150800	4a	40	c0	ca	40	c0	68	33	77	b1
135	1,	1049:	DTE	1049	65.369837	0.145692	4a	40	c0	ca	40	c0	68	33	77	b2
136	1,	1059:	DTE	1059	65.691904	0.146744	4a	40	c0	ca	40	c0	68	33	77	b1
137	1,	1069:	DTE	1069	66.016921	0.150705	4a	40	c0	ca	40	c0	68	33	77	b2
138	1,	1079:	DTE	1079	66.342962	0.150705	4a	40	c0	ca	40	c0	68	33	77	b2
139	1,	1089:	DTE	1089	66.664031	0.146736	4a	40	c0	ca	40	c0	68	34	77	b2
140	1,	1099:	DTE	1099	66.990099	0.150733	4a	40	c0	ca	40	c0	68	34	77	b3
141	1,	1109:	DTE	1109	67.312102	0.146720	4a	40	c0	ca	40	c0	68	34	77	b4
142	1,	1119:	DTE	1119	67.637143	0.150720	4a	40	c0	ca	40	c0	68	35	77	b4
143	1,	1129:	DTE	1129	67.961167	0.148689	4a	40	c0	ca	40	c0	68	35	77	b5
144	1,	1139:	DTE	1139	68.284225	0.146694	4a	40	c0	ca	40	c0	68	36	77	b5
145	1,	1149:	DTE	1149	68.606141	0.146570	4a	40	c0	ca	40	c0	68	36	77	b6
146	1,	1159:	DTE	1159	68.927311	0.146682	4a	40	c0	ca	40	c0	68	36	77	b7
147	1,	1169:	DTE	1169	69.247364	0.144729	4a	40	c0	ca	40	c0	68	36	77	b7
148	1,	1179:	DTE	1179	69.574397	0.150708	4a	40	c0	ca	40	c0	68	37	77	b7
149	1,	1189:	DTE	1189	69.900489	0.150733	4a	40	c0	ca	40	c0	68	37	77	b8
150	1,	1199:	DTE	1199	70.221506	0.146737	4a	40	c0	ca	40	c0	68	38	77	b8
151	1,	1209:	DTE	1209	70.547523	0.150670	4a	40	c0	ca	40	c0	68	38	77	b9
152	1,	1219:	DTE	1219	70.868574	0.146618	4a	40	c0	ca	40	c0	68	39	77	b9
153	1,	1229:	DTE	1229	71.190633	0.146709	4a	40	c0	ca	40	c0	68	39	77	ba
154	1,	1239:	DTE	1239	71.511664	0.146712	4a	40	c0	ca	40	c0	68	39	77	bb
155	1,	1249:	DTE	1249	71.832729	0.146897	4a	40	c0	ca	40	c0	68	3a	77	bb
156	1,	1259:	DTE	1259	72.154758	0.146694	4a	40	c0	ca	40	c0	68	3a	77	bc
157	1,	1269:	DTE	1269	72.475635	0.146516	4a	40	c0	ca	40	c0	68	3b	77	bc
158	1,	1279:	DTE	1279	72.805851	0.150717	4a	40	c0	ca	40	c0	68	3b	77	bd
159	1,	1289:	DTE	1289	73.122897	0.143726	4a	40	c0	ca	40	c0	68	3c	77	bd
160	1,	1299:	DTE	1299	73.448953	0.150720	4a	40	c0	ca	40	c0	68	3c	77	bd
161	1,	1309:	DTE	1309	73.769954	0.145654	4a	40	c0	ca	40	c0	db	b0	f7	b0 e8 30 ea 30
162																
163	1,	1323:	DTE	1323	74.108027	0.154312	4a	40	c0	ca	40	c0	68	34		
164	1,	1331:	DTE	1331	74.429045	0.151070	4a	40	c0	ca	40	c0	68	30		
165	1,	1339:	DTE	1339	74.755099	0.152908	4a	40	c0	ca	40	c0	68	31		
166	1,	1347:	DTE	1347	75.077143	0.150590	4a	40	c0	ca	40	c0	68	32		
167	1,	1355:	DTE	1355	75.406191	0.154937	4a	40	c0	ca	40	c0	68	33		
168	1,	1363:	DTE	1363	75.732300	0.154977	4a	40	c0	ca	40	c0	68	34		
169	1,	1371:	DTE	1371	76.053289	0.150903	4a	40	c0	ca	40	c0	68	35		
170	1,	1379:	DTE	1379	76.375319	0.150901	4a	40	c0	ca	40	c0	68	36		

171	1,	1387:	DTE	1387	76.696196	0.150749	4a	40	c0	ca	40	c0	68	37
172	1,	1395:	DTE	1395	77.018419	0.150914	4a	40	c0	ca	40	c0	68	38
173	1,	1403:	DTE	1403	77.343497	0.154966	4a	40	c0	ca	40	c0	68	39
174	1,	1411:	DTE	1411	77.673498	0.154900	4a	40	c0	ca	40	c0	68	3a
175	1,	1419:	DTE	1419	78.003573	0.154937	4a	40	c0	ca	40	c0	68	3b
176	1,	1427:	DTE	1427	78.337651	0.162895	4a	40	c0	ca	40	c0	68	3c
177	1,	1435:	DTE	1435	78.680671	0.171930	4a	40	c0	ca	40	c0	68	3d
178	1,	1443:	DTE	1443	79.185711	0.333962	4a	40	c0	ca	40	c0	68	3d
179	1,	1451:	DTE	1451	80.150829	0.794016	4a	40	c0	ca	40	c0	db	b0 f7 b0 e8 30 ea 30
180														
181	1,	1465:	DTE	1465	84.337430	4.001828	4a	40	c0	ca	40	c0	68	35 5b b0
182	1,	1475:	DTE	1475	84.658432	0.145747	4a	40	c0	ca	40	c0	68	30 5b b0
183	1,	1485:	DTE	1485	84.980488	0.146695	4a	40	c0	ca	40	c0	68	30 5b b1
184	1,	1495:	DTE	1495	85.301542	0.146720	4a	40	c0	ca	40	c0	68	31 5b b1
185	1,	1505:	DTE	1505	85.627613	0.150748	4a	40	c0	ca	40	c0	68	31 5b b2
186	1,	1515:	DTE	1515	85.953626	0.150705	4a	40	c0	ca	40	c0	68	32 5b b2
187	1,	1525:	DTE	1525	86.278654	0.150656	4a	40	c0	ca	40	c0	68	32 5b b3
188	1,	1535:	DTE	1535	86.600711	0.146697	4a	40	c0	ca	40	c0	68	33 5b b3
189	1,	1545:	DTE	1545	86.921791	0.146748	4a	40	c0	ca	40	c0	68	33 5b b4
190	1,	1555:	DTE	1555	87.242808	0.145708	4a	40	c0	ca	40	c0	68	33 5b b5
191	1,	1565:	DTE	1565	87.564839	0.146671	4a	40	c0	ca	40	c0	68	34 5b b5
192	1,	1575:	DTE	1575	87.885880	0.146711	4a	40	c0	ca	40	c0	68	34 5b b6
193	1,	1585:	DTE	1585	88.211908	0.150654	4a	40	c0	ca	40	c0	68	35 5b b6
194	1,	1595:	DTE	1595	88.533978	0.146696	4a	40	c0	ca	40	c0	68	35 5b b7
195	1,	1605:	DTE	1605	88.858939	0.150615	4a	40	c0	ca	40	c0	68	36 5b b7
196	1,	1615:	DTE	1615	89.181073	0.146734	4a	40	c0	ca	40	c0	68	36 5b b8
197	1,	1625:	DTE	1625	89.502103	0.146721	4a	40	c0	ca	40	c0	68	36 5b b9
198	1,	1635:	DTE	1635	89.823158	0.145719	4a	40	c0	ca	40	c0	68	37 5b b9
199	1,	1645:	DTE	1645	90.145240	0.146760	4a	40	c0	ca	40	c0	68	37 5b ba
200	1,	1655:	DTE	1655	90.466244	0.146803	4a	40	c0	ca	40	c0	68	38 5b ba
201	1,	1665:	DTE	1665	90.792262	0.150765	4a	40	c0	ca	40	c0	68	38 5b bb
202	1,	1675:	DTE	1675	91.114342	0.146722	4a	40	c0	ca	40	c0	68	38 5b bc
203	1,	1685:	DTE	1685	91.435358	0.146708	4a	40	c0	ca	40	c0	68	39 5b bc
204	1,	1695:	DTE	1695	91.756414	0.145668	4a	40	c0	ca	40	c0	68	39 5b bd
205	1,	1705:	DTE	1705	92.078445	0.146684	4a	40	c0	ca	40	c0	68	39 5b bd
206	1,	1715:	DTE	1715	92.403495	0.148712	4a	40	c0	ca	40	c0	68	3a 5b bd
207	1,	1725:	DTE	1725	92.725414	0.146206	4a	40	c0	ca	40	c0	db	b0 f7 b0 e8 30 ea 30
208														
209	1,	1739:	DTE	1739	94.804799	1.896502	4a	40	c0	ca	40	c0	68	30 5b b0
210	1,	1749:	DTE	1749	95.126854	0.146695	4a	40	c0	ca	40	c0	5b	b0
211	1,	1757:	DTE	1757	95.481894	0.185862	4a	40	c0	ca	40	c0	5b	b1
212	1,	1765:	DTE	1765	95.893003	0.238925	4a	40	c0	ca	40	c0	5b	b2
213	1,	1773:	DTE	1773	96.305046	0.240928	4a	40	c0	ca	40	c0	5b	b3
214	1,	1781:	DTE	1781	96.630095	0.150963	4a	40	c0	ca	40	c0	5b	b4
215	1,	1789:	DTE	1789	96.956126	0.150940	4a	40	c0	ca	40	c0	5b	b5
216	1,	1797:	DTE	1797	97.858100	0.731833	4a	40	c0	ca	40	c0	5b	b6
217	1,	1805:	DTE	1805	98.179302	0.150953	4a	40	c0	ca	40	c0	5b	b7
218	1,	1813:	DTE	1813	98.612326	0.261918	4a	40	c0	ca	40	c0	5b	b8
219	1,	1821:	DTE	1821	99.232416	0.449966	4a	40	c0	ca	40	c0	5b	b9
220	1,	1829:	DTE	1829	99.703498	0.299966	4a	40	c0	ca	40	c0	5b	ba
221	1,	1837:	DTE	1837	100.029525	0.154902	4a	40	c0	ca	40	c0	5b	bb
222	1,	1845:	DTE	1845	100.350564	0.150900	4a	40	c0	ca	40	c0	5b	bc
223	1,	1853:	DTE	1853	100.672611	0.150928	4a	40	c0	ca	40	c0	5b	bd
224	1,	1861:	DTE	1861	100.993611	0.150873	4a	40	c0	ca	40	c0	5b	bd
225	1,	1869:	DTE	1869	101.315708	0.150705	4a	40	c0	ca	40	c0	db	b0 f7 b0 e8 30 ea 30
226														
227	1,	1883:	DTE	1883	104.295946	2.797491	4a	40	c0	ca	40	c0	76	
228	1,	1890:	DTE	1890	106.680424	2.215300	4a	40	c0	ca	40	c0	f6	
229	1,	1897:	DTE	1897	108.232638	1.379192	4a	40	c0	ca	40	c0	67	
230	1,	1904:	DTE	1904	110.223915	1.819247	4a	40	c0	ca	40	c0	e7	
231	1,	1911:	DTE	1911	113.004291	2.612345	4a	40	c0	ca	40	c0	6a 3d 5b b7	
232	1,	1921:	DTE	1921	115.004564	1.824938	4a	40	c0	ca	40	c0	db	b0 f7 b0 e8 30 ea 30
233														
234	1,	1935:	DTE	1935	117.353862	2.165538	4a	40	c0	ca	40	c0	74	
235	1,	1942:	DTE	1942	119.144122	1.621225	4a	40	c0	ca	40	c0	f4	
236														
237	1,	1949:	DTE	1949	120.174331	0.862201	4a	40	c0	ca	40	c0	65	
238	1,	1956:	DTE	1956	121.345423	1.002148	4a	40	c0	ca	40	c0	e5	
239														
240	1,	1963:	DTE	1963	122.624591	1.110184	4a	40	c0	ca	40	c0	74	
241	1,	1970:	DTE	1970	123.633719	0.841108	4a	40	c0	ca	40	c0	f4	
242														

```

243      1,      1977: DTE  1977  125.599006  1.797267 4a 40 c0 ca 40 c0 6a 3d 77 b4
244      1,      1987: DTE  1987  128.299368  2.521031 4a 40 c0 ca 40 c0 db b0 f7 b0 e8 30 ea 30
245
246      1,      2001: DTE  2001  129.870592  1.388467 4a 40 c0 ca 40 c0 75
247      1,      2008: DTE  2008  131.138733  1.099118 4a 40 c0 ca 40 c0 f5
248
249      1,      2015: DTE  2015  132.839969  1.531200 4a 40 c0 ca 40 c0 66
250      1,      2022: DTE  2022  134.636205  1.626200 4a 40 c0 ca 40 c0 e6
251
252      1,      2029: DTE  2029  138.741778  3.936522 4a 40 c0 ca 40 c0 6d 40 c0 ed
253      1,      2039: DTE  2039  143.043353  4.122424 4a 40 c0 ca 40 c0 49 c9 40 c0 40 c0
254
255      1,      2051: DTE  2051  149.215227  5.540460 4a 40 c0 ca 40 c0 6d a9 29 ed
256      1,      2061: DTE  2061  153.265762  3.875225 4a 40 c0 ca 40 c0 49 c9 40 c0 a9 29
257
258  There were a total of      2072 bytes transferred
259
260  There were a total of      0 DCE bytes transferred
261  The first DCE byte came in at 0.000000 seconds from the start of data collection
262  The last DCE byte was at 0.000000 seconds from the start of data collection
263
264  There were a total of      2072 DTE bytes transferred
265  The first DTE byte came in at 0.000000 seconds from the start of data collection
266  The last DTE byte was at 153.896134 seconds from the start of data collection
267

```


3.7 CoVi EVQ-1000

This data was collected from a an Integral Technologies, DS XPress DVR on 19DEC07.

1. Baud: **4800**
2. Hello Message: **No**
3. Minimum Camera Address: **1**
4. Maximum Camera Address: **255**
5. Minimum Preset Number: **1**
6. Maximum Preset Number: **20**
7. Do we have an “official” protocol document? **No**
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: _____.

Covi EVQ-1000, P Protocol

3.7.1 19DEC070.out

```

1  Integral Technologies DS XPress DVR
2  DTE = From the DVR
3  DCE = nothing, no dome was attached
4  4800 baud
5  No parity
6  CoVi EVQ-1000
7
8
9  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
10 $Header: d:/1stLooks/Combined/RCS/19DEC070.out,v 1.2 2007-12-19 12:35:32-08 Hamilton Exp Hamilton $
11 FTS capture buffer (12/19/2007 8:07:26 AM)
12 Event 1 (12/19/2007 8:04:17.342364 AM) through
13 Event 1,727 (12/19/2007 8:07:02.299480 AM)
14
15
16      1,      1: DTE      1      0.000000  0.000000 f1 00 00 01 46 01 48
17
18      1,      8: DTE      8      2.854401  2.841762 a0 00 00 04 03 00 af 08
19      1,     16: DTE     16      3.356496  0.487361 a0 00 00 08 00 03 af 04
20      1,     24: DTE     24      3.836560  0.465328 a0 00 00 08 00 07 af 00
21      1,     32: DTE     32      4.983685  1.132375 a0 00 00 08 00 0b af 0c
22      1,     40: DTE     40      5.356757  0.358337 a0 00 00 08 00 0f af 08
23      1,     48: DTE     48      6.063828  0.692336 a0 00 00 08 00 13 af 14
24      1,     56: DTE     56      7.339023  1.260461 a0 00 00 08 00 17 af 10
25      1,     64: DTE     64      8.314153  0.960396 a0 00 00 08 00 1b af 1c
26      1,     72: DTE     72      9.321288  0.992401 a0 00 00 08 00 1f af 18

```

⁹\$Header: d:/1stLooks/Combined/RCS/DSXcov.inc,v 1.2 2007-12-31 09:06:36-08 Hamilton Exp Hamilton \$

27	1,	80:	DTE	80	10.672474	1.336451	a0	00	00	08	00	23	af	24
28	1,	88:	DTE	88	11.001495	0.314275	a0	00	00	08	00	27	af	20
29	1,	96:	DTE	96	11.884633	0.868403	a0	00	00	08	00	2a	af	2d
30	1,	104:	DTE	104	12.066636	0.167267	a0	00	00	08	00	2f	af	28
31	1,	112:	DTE	112	12.234686	0.153297	a0	00	00	08	00	33	af	34
32	1,	120:	DTE	120	12.604737	0.355315	a0	00	00	08	00	36	af	31
33	1,	128:	DTE	128	12.948787	0.329478	a0	00	00	08	00	3a	af	3d
34	1,	136:	DTE	136	13.910910	0.947373	a0	00	00	00	00	af	0f	
35														
36	1,	144:	DTE	144	18.376572	4.450927	a0	00	00	08	00	03	af	04
37	1,	152:	DTE	152	19.158631	0.767324	a0	00	00	08	00	07	af	00
38	1,	160:	DTE	160	19.328655	0.155290	a0	00	00	0a	03	07	af	01
39	1,	168:	DTE	168	19.497574	0.154182	a0	00	00	0a	03	0b	af	0d
40	1,	176:	DTE	176	19.892704	0.380303	a0	00	00	0a	03	0f	af	09
41	1,	184:	DTE	184	20.095752	0.188298	a0	00	00	0a	03	13	af	15
42	1,	192:	DTE	192	20.297811	0.187487	a0	00	00	0a	03	17	af	11
43	1,	200:	DTE	200	20.735818	0.423273	a0	00	00	0a	07	17	af	15
44	1,	208:	DTE	208	21.087888	0.337335	a0	00	00	0a	0b	17	af	19
45	1,	216:	DTE	216	21.255922	0.153298	a0	00	00	0a	0b	1b	af	15
46	1,	224:	DTE	224	21.488942	0.218285	a0	00	00	0a	0b	1f	af	11
47	1,	232:	DTE	232	22.239033	0.735342	a0	00	00	0a	0f	1f	af	15
48	1,	240:	DTE	240	22.407053	0.153283	a0	00	00	0a	0f	23	af	29
49	1,	248:	DTE	248	22.704085	0.282308	a0	00	00	0a	13	23	af	35
50	1,	256:	DTE	256	22.992133	0.273300	a0	00	00	0a	13	27	af	31
51	1,	264:	DTE	264	23.336194	0.329326	a0	00	00	0a	17	27	af	35
52	1,	272:	DTE	272	23.829240	0.478310	a0	00	00	0a	17	2a	af	38
53	1,	280:	DTE	280	23.998265	0.154445	a0	00	00	0a	1b	2a	af	34
54	1,	288:	DTE	288	24.166286	0.153286	a0	00	00	0a	1f	2a	af	30
55	1,	296:	DTE	296	24.335321	0.154301	a0	00	00	0a	1f	2f	af	35
56	1,	304:	DTE	304	24.503355	0.153299	a0	00	00	0a	23	33	af	15
57	1,	312:	DTE	312	24.705373	0.187281	a0	00	00	0a	23	36	af	10
58	1,	320:	DTE	320	24.952404	0.232291	a0	00	00	0a	23	3a	af	1c
59	1,	328:	DTE	328	25.142419	0.175278	a0	00	00	0a	27	3a	af	18
60	1,	336:	DTE	336	25.332470	0.175317	a0	00	00	0a	2a	3a	af	15
61	1,	344:	DTE	344	25.500478	0.153272	a0	00	00	0a	2f	3a	af	10
62	1,	352:	DTE	352	26.058552	0.543339	a0	00	00	00	00	af	0f	
63														
64	1,	360:	DTE	360	31.429319	5.356033	a0	00	00	20	00	00	af	2f
65	1,	368:	DTE	368	32.499462	1.055407	a0	00	00	02	03	00	af	0e
66	1,	376:	DTE	376	33.034488	0.520278	a0	00	00	02	07	00	af	0a
67	1,	384:	DTE	384	33.613576	0.564352	a0	00	00	02	0b	00	af	06
68	1,	392:	DTE	392	33.995685	0.367541	a0	00	00	02	0f	00	af	02
69	1,	400:	DTE	400	34.369670	0.359249	a0	00	00	02	13	00	af	1e
70	1,	408:	DTE	408	34.772715	0.388309	a0	00	00	02	17	00	af	1a
71	1,	416:	DTE	416	34.941753	0.154300	a0	00	00	02	1b	00	af	16
72	1,	424:	DTE	424	35.110864	0.154375	a0	00	00	02	1f	00	af	12
73	1,	432:	DTE	432	35.278785	0.153181	a0	00	00	02	23	00	af	2e
74	1,	440:	DTE	440	35.972886	0.679354	a0	00	00	02	27	00	af	2a
75	1,	448:	DTE	448	36.269944	0.282322	a0	00	00	02	2a	00	af	27
76	1,	456:	DTE	456	36.600986	0.316308	a0	00	00	02	2f	00	af	22
77	1,	464:	DTE	464	36.897026	0.281305	a0	00	00	02	33	00	af	3e
78	1,	472:	DTE	472	37.066047	0.154284	a0	00	00	02	36	00	af	3b
79	1,	480:	DTE	480	37.278082	0.197298	a0	00	00	02	3a	00	af	37
80	1,	488:	DTE	488	37.843147	0.550330	a0	00	00	00	00	af	0f	
81														
82	1,	496:	DTE	496	41.547650	3.689769	a0	00	00	20	00	00	af	2f
83	1,	504:	DTE	504	42.425764	0.863365	a0	00	00	10	00	03	af	1c
84	1,	512:	DTE	512	42.593796	0.153229	a0	00	00	12	03	03	af	1d
85	1,	520:	DTE	520	42.763821	0.155288	a0	00	00	12	03	07	af	19
86	1,	528:	DTE	528	42.935866	0.157309	a0	00	00	12	03	0b	af	15
87	1,	536:	DTE	536	43.103862	0.153247	a0	00	00	12	07	0b	af	11
88	1,	544:	DTE	544	43.272885	0.154289	a0	00	00	12	07	0f	af	15
89	1,	552:	DTE	552	43.441918	0.154298	a0	00	00	12	07	0b	af	11
90	1,	560:	DTE	560	43.609956	0.153313	a0	00	00	12	07	0f	af	15
91	1,	568:	DTE	568	43.778940	0.154217	a0	00	00	12	07	13	af	09
92	1,	576:	DTE	576	43.947976	0.154288	a0	00	00	12	0b	13	af	05
93	1,	584:	DTE	584	44.119981	0.157260	a0	00	00	12	0b	17	af	01
94	1,	592:	DTE	592	44.451050	0.316320	a0	00	00	12	0b	1b	af	0d
95	1,	600:	DTE	600	44.620059	0.154274	a0	00	00	12	0b	17	af	01
96	1,	608:	DTE	608	44.810099	0.175304	a0	00	00	12	0b	1b	af	0d
97	1,	616:	DTE	616	44.979108	0.154275	a0	00	00	12	0f	1b	af	09
98	1,	624:	DTE	624	45.146964	0.153119	a0	00	00	12	0f	1f	af	0d

99	1,	632:	DTE	632	45.316177	0.154298	a0	00	00	12	13	1f	af	11
100	1,	640:	DTE	640	45.485190	0.154275	a0	00	00	12	13	23	af	2d
101	1,	648:	DTE	648	45.655191	0.155266	a0	00	00	12	17	23	af	29
102	1,	656:	DTE	656	45.822233	0.152283	a0	00	00	12	17	27	af	2d
103	1,	664:	DTE	664	45.990254	0.153284	a0	00	00	12	1b	2a	af	2c
104	1,	672:	DTE	672	46.159099	0.154108	a0	00	00	12	1f	2a	af	28
105	1,	680:	DTE	680	46.327310	0.153310	a0	00	00	12	1f	2f	af	2d
106	1,	688:	DTE	688	46.582337	0.240290	a0	00	00	12	1f	33	af	31
107	1,	696:	DTE	696	46.750357	0.153285	a0	00	00	12	23	33	af	0d
108	1,	704:	DTE	704	47.037422	0.272316	a0	00	00	12	27	33	af	09
109	1,	712:	DTE	712	47.207424	0.155286	a0	00	00	12	27	36	af	0c
110	1,	720:	DTE	720	47.481426	0.259262	a0	00	00	12	27	3a	af	00
111	1,	728:	DTE	728	47.792481	0.296307	a0	00	00	12	2a	3a	af	0d
112	1,	736:	DTE	736	48.456582	0.649365	a0	00	00	00	00	00	af	0f
113														
114	1,	744:	DTE	744	51.362989	2.891670	a0	00	00	04	03	00	af	08
115	1,	752:	DTE	752	52.100072	0.722348	a0	00	00	10	00	03	af	1c
116	1,	760:	DTE	760	53.118222	1.003414	a0	00	00	10	00	07	af	18
117	1,	768:	DTE	768	53.876321	0.743363	a0	00	00	10	00	0b	af	14
118	1,	776:	DTE	776	54.540409	0.649340	a0	00	00	10	00	0f	af	10
119	1,	784:	DTE	784	55.119552	0.564406	a0	00	00	10	00	13	af	0c
120	1,	792:	DTE	792	55.620566	0.486280	a0	00	00	10	00	17	af	08
121	1,	800:	DTE	800	55.845580	0.210277	a0	00	00	10	00	1b	af	04
122	1,	808:	DTE	808	56.218625	0.358233	a0	00	00	10	00	1f	af	00
123	1,	816:	DTE	816	56.698743	0.465463	a0	00	00	10	00	23	af	3c
124	1,	824:	DTE	824	56.867740	0.154262	a0	00	00	10	00	27	af	38
125	1,	832:	DTE	832	57.177773	0.295297	a0	00	00	10	00	2a	af	35
126	1,	840:	DTE	840	57.755839	0.563337	a0	00	00	10	00	2f	af	30
127	1,	848:	DTE	848	57.924875	0.154300	a0	00	00	10	00	33	af	2c
128	1,	856:	DTE	856	58.695971	0.756360	a0	00	00	10	00	36	af	29
129	1,	864:	DTE	864	58.864993	0.154288	a0	00	00	10	00	3a	af	25
130	1,	872:	DTE	872	59.465050	0.585321	a0	00	00	00	00	00	af	0f
131														
132	1,	880:	DTE	880	64.484771	5.004951	a0	00	00	04	0f	00	af	04
133	1,	888:	DTE	888	65.191855	0.692348	a0	00	00	04	03	00	af	08
134	1,	896:	DTE	896	65.629902	0.423311	a0	00	00	14	03	03	af	1b
135	1,	904:	DTE	904	65.798936	0.154286	a0	00	00	14	03	07	af	1f
136	1,	912:	DTE	912	66.590032	0.776359	a0	00	00	14	07	07	af	1b
137	1,	920:	DTE	920	66.759078	0.154311	a0	00	00	14	07	0b	af	17
138	1,	928:	DTE	928	66.927074	0.153258	a0	00	00	14	0b	0b	af	1b
139	1,	936:	DTE	936	67.246148	0.304337	a0	00	00	14	0f	0b	af	1f
140	1,	944:	DTE	944	67.568208	0.307334	a0	00	00	14	0f	0f	af	1b
141	1,	952:	DTE	952	67.737193	0.154250	a0	00	00	14	13	0f	af	07
142	1,	960:	DTE	960	68.068247	0.316305	a0	00	00	14	17	0f	af	03
143	1,	968:	DTE	968	68.237271	0.154288	a0	00	00	14	17	13	af	1f
144	1,	976:	DTE	976	69.063390	0.811384	a0	00	00	14	17	17	af	1b
145	1,	984:	DTE	984	69.232388	0.154249	a0	00	00	14	1b	17	af	17
146	1,	992:	DTE	992	69.400433	0.153297	a0	00	00	14	1f	17	af	13
147	1,	1000:	DTE	1000	69.569467	0.154297	a0	00	00	14	1f	1b	af	1f
148	1,	1008:	DTE	1008	69.737466	0.153272	a0	00	00	14	1f	1f	af	1b
149	1,	1016:	DTE	1016	69.906516	0.154314	a0	00	00	14	23	1f	af	27
150	1,	1024:	DTE	1024	70.280574	0.359324	a0	00	00	14	23	23	af	1b
151	1,	1032:	DTE	1032	70.449561	0.154262	a0	00	00	14	27	23	af	1f
152	1,	1040:	DTE	1040	70.638586	0.174288	a0	00	00	14	2a	23	af	12
153	1,	1048:	DTE	1048	70.884640	0.231307	a0	00	00	14	2a	27	af	16
154	1,	1056:	DTE	1056	71.377674	0.478297	a0	00	00	14	2f	27	af	13
155	1,	1064:	DTE	1064	71.545706	0.153464	a0	00	00	14	2f	2a	af	1e
156	1,	1072:	DTE	1072	71.714731	0.154287	a0	00	00	14	33	2a	af	02
157	1,	1080:	DTE	1080	71.883768	0.154301	a0	00	00	14	33	2f	af	07
158	1,	1088:	DTE	1088	72.052816	0.154312	a0	00	00	14	36	2f	af	02
159	1,	1096:	DTE	1096	72.438795	0.371243	a0	00	00	14	3a	2f	af	0e
160	1,	1104:	DTE	1104	73.080942	0.627414	a0	00	00	00	00	00	af	0f
161														
162	1,	1112:	DTE	1112	77.247504	4.151993	a0	00	00	04	1b	00	af	10
163	1,	1120:	DTE	1120	77.415525	0.153284	a0	00	00	04	07	00	af	0c
164	1,	1128:	DTE	1128	77.584560	0.154299	a0	00	00	04	0b	00	af	00
165	1,	1136:	DTE	1136	77.992632	0.393334	a0	00	00	04	0f	00	af	04
166	1,	1144:	DTE	1144	78.323636	0.316305	a0	00	00	04	13	00	af	18
167	1,	1152:	DTE	1152	79.030734	0.692362	a0	00	00	04	17	00	af	1c
168	1,	1160:	DTE	1160	79.416776	0.371307	a0	00	00	04	1b	00	af	10
169	1,	1168:	DTE	1168	80.499940	1.068425	a0	00	00	04	1f	00	af	14
170	1,	1176:	DTE	1176	80.817960	0.303277	a0	00	00	04	23	00	af	28

171	1,	1184:	DTE	1184	81.170017	0.337321	a0	00	00	04	27	00	af	2c
172	1,	1192:	DTE	1192	81.339054	0.154302	a0	00	00	04	2a	00	af	21
173	1,	1200:	DTE	1200	81.670121	0.316319	a0	00	00	04	2f	00	af	24
174	1,	1208:	DTE	1208	81.903117	0.218260	a0	00	00	04	33	00	af	38
175	1,	1216:	DTE	1216	82.267152	0.349298	a0	00	00	04	36	00	af	3d
176	1,	1224:	DTE	1224	83.081265	0.799377	a0	00	00	04	3a	00	af	31
177	1,	1232:	DTE	1232	83.809367	0.713365	a0	00	00	00	00	00	af	0f
178														
179	1,	1240:	DTE	1240	87.825836	4.001734	a0	00	00	0c	1f	03	af	1f
180	1,	1248:	DTE	1248	88.015949	0.175311	a0	00	00	0c	0b	03	af	0b
181	1,	1256:	DTE	1256	88.188973	0.158281	a0	00	00	0c	0b	07	af	0f
182	1,	1264:	DTE	1264	88.477022	0.273298	a0	00	00	0c	0b	0b	af	03
183	1,	1272:	DTE	1272	88.646045	0.154287	a0	00	00	0c	0f	0b	af	07
184	1,	1280:	DTE	1280	88.814050	0.153269	a0	00	00	0c	0f	0f	af	03
185	1,	1288:	DTE	1288	88.987072	0.158283	a0	00	00	0c	13	0f	af	1f
186	1,	1296:	DTE	1296	89.156096	0.154287	a0	00	00	0c	13	13	af	03
187	1,	1304:	DTE	1304	89.324131	0.153300	a0	00	00	0c	13	17	af	07
188	1,	1312:	DTE	1312	89.494143	0.155276	a0	00	00	0c	17	17	af	03
189	1,	1320:	DTE	1320	89.662178	0.153298	a0	00	00	0c	17	1b	af	0f
190	1,	1328:	DTE	1328	90.121267	0.444355	a0	00	00	0c	1b	1b	af	03
191	1,	1336:	DTE	1336	90.687309	0.551308	a0	00	00	0c	1b	1f	af	07
192	1,	1344:	DTE	1344	90.855329	0.153273	a0	00	00	0c	1f	1f	af	03
193	1,	1352:	DTE	1352	91.024367	0.154293	a0	00	00	0c	1f	23	af	3f
194	1,	1360:	DTE	1360	91.193452	0.154351	a0	00	00	0c	1f	27	af	3b
195	1,	1368:	DTE	1368	91.481408	0.273206	a0	00	00	0c	23	27	af	07
196	1,	1376:	DTE	1376	91.705472	0.209327	a0	00	00	0c	23	2a	af	0a
197	1,	1384:	DTE	1384	92.241514	0.521305	a0	00	00	0c	23	2f	af	0f
198	1,	1392:	DTE	1392	92.409533	0.153283	a0	00	00	0c	27	2f	af	0b
199	1,	1400:	DTE	1400	92.578556	0.154285	a0	00	00	0c	27	33	af	17
200	1,	1408:	DTE	1408	92.973623	0.380329	a0	00	00	0c	2a	33	af	1a
201	1,	1416:	DTE	1416	93.140705	0.152347	a0	00	00	0c	2a	36	af	1f
202	1,	1424:	DTE	1424	93.609553	0.454110	a0	00	00	0c	2a	3a	af	13
203	1,	1432:	DTE	1432	93.778741	0.154456	a0	00	00	0c	2f	3a	af	16
204	1,	1440:	DTE	1440	94.367802	0.574313	a0	00	00	00	00	00	af	0f
205														
206	1,	1448:	DTE	1448	98.863262	4.480725	a0	00	00	0c	07	03	af	07
207	1,	1456:	DTE	1456	99.033453	0.155289	a0	00	00	08	00	03	af	04
208	1,	1464:	DTE	1464	99.517490	0.469301	a0	00	00	08	00	07	af	00
209	1,	1472:	DTE	1472	100.032568	0.500329	a0	00	00	08	00	0b	af	0c
210	1,	1480:	DTE	1480	100.598649	0.551345	a0	00	00	08	00	0f	af	08
211	1,	1488:	DTE	1488	101.142698	0.529313	a0	00	00	08	00	13	af	14
212	1,	1496:	DTE	1496	102.212895	1.055448	a0	00	00	08	00	17	af	10
213	1,	1504:	DTE	1504	102.568935	0.341458	a0	00	00	08	00	1b	af	1c
214	1,	1512:	DTE	1512	102.758934	0.175263	a0	00	00	08	00	1f	af	18
215	1,	1520:	DTE	1520	103.154001	0.380317	a0	00	00	08	00	23	af	24
216	1,	1528:	DTE	1528	103.506058	0.337322	a0	00	00	08	00	27	af	20
217	1,	1536:	DTE	1536	104.200186	0.679393	a0	00	00	08	00	2a	af	2d
218	1,	1544:	DTE	1544	104.433167	0.218248	a0	00	00	08	00	2f	af	28
219	1,	1552:	DTE	1552	104.721213	0.273310	a0	00	00	08	00	33	af	34
220	1,	1560:	DTE	1560	105.385302	0.649339	a0	00	00	08	00	36	af	31
221	1,	1568:	DTE	1568	106.049404	0.649353	a0	00	00	08	00	3a	af	3d
222	1,	1576:	DTE	1576	107.166552	1.102413	a0	00	00	00	00	00	af	0f
223														
224	1,	1584:	DTE	1584	112.391161	5.209873	a0	00	00	20	00	00	af	2f
225	1,	1592:	DTE	1592	114.883569	2.477594	a0	00	00	00	00	00	af	0f
226														
227	1,	1600:	DTE	1600	117.482970	2.584666	a0	00	00	40	00	00	af	4f
228	1,	1608:	DTE	1608	119.897269	2.399550	a0	00	00	00	00	00	af	0f
229														
230	1,	1616:	DTE	1616	124.083881	4.171908	a0	00	04	00	00	00	af	0b
231	1,	1624:	DTE	1624	126.876214	2.777598	a0	00	00	00	00	00	af	0f
232														
233	1,	1632:	DTE	1632	128.907487	2.016540	a0	00	08	00	00	00	af	07
234	1,	1640:	DTE	1640	131.441824	2.519601	a0	00	00	00	00	00	af	0f
235														
236	1,	1648:	DTE	1648	134.912294	3.455735	a0	00	02	00	00	00	af	0d
237	1,	1656:	DTE	1656	138.023724	3.096697	a0	00	00	00	00	00	af	0f
238														
239	1,	1664:	DTE	1664	139.622943	1.584484	a0	00	01	00	00	00	af	0e
240	1,	1672:	DTE	1672	142.132293	2.494601	a0	00	00	00	00	00	af	0f
241														
242	1,	1680:	DTE	1680	148.596146	6.449119	a0	00	00	03	00	47	af	4b

```
243      1,    1688: DTE    1688    148.765000    0.154119 a0 00 00 07 00 01 af 09
244
245      1,    1696: DTE    1696    152.917747    4.137844 a0 00 00 03 00 01 af 0d
246      1,    1704: DTE    1704    160.501756    7.569273 a0 00 00 03 00 47 af 4b
247
248      1,    1712: DTE    1712    160.671783    0.155291 a0 00 00 07 00 14 af 1c
249      1,    1720: DTE    1720    164.942380    4.255862 a0 00 00 03 00 14 af 18
250
251 There were a total of      1727 bytes transferred
252
253 There were a total of      0 DCE bytes transferred
254 The first DCE byte came in at 0.000000 seconds from the start of data collection
255 The last DCE byte was at 0.000000 seconds from the start of data collection
256
257 There were a total of      1727 DTE bytes transferred
258 The first DTE byte came in at 0.000000 seconds from the start of data collection
259 The last DTE byte was at 164.957116 seconds from the start of data collection
260
261
```


3.8 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

3.8.1 29may07p.out

```

1  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2  $Header: d:/1stLooks/Combined/RCS/29MAY07P.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

```

¹⁰\$Header: d:/1stLooks/Combined/RCS/Dennard.inc,v 1.2 2007-12-31 08:22:14-08 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
```


3.9 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: _____.

3.9.1 29may07i.out

```

1  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2  $Header: d:/1stLooks/Combined/RCS/29MAY07I.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

```

¹¹\$Header: d:/1stLooks/Combined/RCS/DMSerial.inc,v 1.2 2007-12-31 08:22:14-08 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

3.10 Elmo PTC-200C

This data was collected from a an Integral Technologies, DS XPress DVR on 19DEC07.

1. Baud: **4800**
2. Hello Message: **Yes or No**
3. Minimum Camera Address: **1**
4. Maximum Camera Address: **233**
5. Minimum Preset Number: **1**
6. Maximum Preset Number: **6**
7. Do we have an “official” protocol document? **No**
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: _____.

Has a hello message which might be left over from the previous test.

3.10.1 19DEC07Q.out

```

1  Integral Technologies DS XPress DVR
2  DTE = From the DVR
3  DCE = nothing, no dome was attached
4  4800 baud
5  No parity
6  Elmo PTC-200C
7
8
9  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
10 $Header: d:/1stLooks/Combined/RCS/19DEC07Q.out,v 1.2 2007-12-19 12:35:32-08 Hamilton Exp Hamilton $
11 FTS capture buffer (12/19/2007 8:15:18 AM)
12 Event 1 (12/19/2007 8:11:53.408002 AM) through
13 Event 2,046 (12/19/2007 8:14:51.419830 AM)
14
15
16      1,      1: DTE      1      0.000000  0.000000 01 00 1d 00 47 5b
17
18      1,      7: DTE      7      17.034502  17.023806 01 00 18 01 01 19
19      1,     13: DTE     13      17.203512   0.158493 01 00 18 02 00 1b
20      1,     19: DTE     19      17.717575   0.503534 01 00 18 02 00 1b
21
22      1,     25: DTE     25      18.770726   1.042621 01 00 18 02 01 1a
23      1,     31: DTE     31      19.745784   0.964541 01 00 18 02 01 1a
24      1,     37: DTE     37      20.303941   0.547490 01 00 18 02 01 1a
25      1,     43: DTE     43      20.783993   0.469522 01 00 18 02 01 1a
26      1,     49: DTE     49      21.008017   0.213494 01 00 18 02 02 19

```

¹²\$Header: d:/1stLooks/Combined/RCS/DSXelm.inc,v 1.2 2007-12-31 09:06:36-08 Hamilton Exp Hamilton \$

27	1,	55:	DTE	55	21.219153	0.200619	01	00	18	02	02	19
28	1,	61:	DTE	61	21.657118	0.427439	01	00	18	02	03	18
29	1,	67:	DTE	67	22.599228	0.931581	01	00	18	02	03	18
30	1,	73:	DTE	73	22.951285	0.341527	01	00	18	02	03	18
31	1,	79:	DTE	79	23.175309	0.213494	01	00	18	02	04	1f
32	1,	85:	DTE	85	23.502352	0.316514	01	00	18	02	04	1f
33	1,	91:	DTE	91	23.670372	0.157490	01	00	18	02	05	1e
34	1,	97:	DTE	97	23.839385	0.158483	01	00	18	02	05	1e
35	1,	103:	DTE	103	24.050438	0.200524	01	00	18	02	06	1d
36	1,	109:	DTE	109	24.219460	0.158492	01	00	18	02	06	1d
37												
38	1,	115:	DTE	115	25.537467	1.307489	01	00	13	00	00	12
39	1,	121:	DTE	121	25.709643	0.161487	01	00	14	00	00	15
40												
41	1,	127:	DTE	127	30.260283	4.540276	01	00	18	02	00	1b
42	1,	133:	DTE	133	30.954260	0.683462	01	00	18	02	00	1b
43	1,	139:	DTE	139	31.285424	0.320484	01	00	18	00	00	19
44	1,	145:	DTE	145	31.453446	0.157504	01	00	18	02	00	1b
45	1,	151:	DTE	151	31.622443	0.158467	01	00	18	00	00	19
46	1,	157:	DTE	157	31.791506	0.158534	01	00	18	02	01	1a
47	1,	163:	DTE	163	31.959513	0.157491	01	00	18	00	00	19
48	1,	169:	DTE	169	32.128526	0.158483	01	00	18	02	01	1a
49	1,	175:	DTE	175	32.297545	0.158492	01	00	18	00	00	19
50	1,	181:	DTE	181	32.465567	0.157503	01	00	18	02	01	1a
51	1,	187:	DTE	187	32.634605	0.158520	01	00	18	00	00	19
52	1,	193:	DTE	193	32.807612	0.162477	01	00	18	02	02	19
53	1,	199:	DTE	199	32.975659	0.157515	01	00	18	00	01	18
54	1,	205:	DTE	205	33.144669	0.158492	01	00	18	02	02	19
55	1,	211:	DTE	211	33.313704	0.158504	01	00	18	00	01	18
56	1,	217:	DTE	217	33.485737	0.161515	01	00	18	02	02	19
57	1,	223:	DTE	223	33.654748	0.158481	01	00	18	00	01	18
58	1,	229:	DTE	229	33.823759	0.158482	01	00	18	02	02	19
59	1,	235:	DTE	235	33.992780	0.158492	01	00	18	00	01	18
60	1,	241:	DTE	241	34.160801	0.157490	01	00	18	02	03	18
61	1,	247:	DTE	247	34.329645	0.158313	01	00	18	00	01	18
62	1,	253:	DTE	253	34.498560	0.158217	01	00	18	02	03	18
63	1,	259:	DTE	259	34.666870	0.157776	01	00	18	00	02	1b
64	1,	265:	DTE	265	34.835907	0.158508	01	00	18	02	03	18
65	1,	271:	DTE	271	35.007923	0.161487	01	00	18	00	02	1b
66	1,	277:	DTE	277	35.177012	0.158571	01	00	18	02	03	18
67	1,	283:	DTE	283	35.349982	0.162452	01	00	18	00	02	1b
68	1,	289:	DTE	289	35.518001	0.157493	01	00	18	02	03	18
69	1,	295:	DTE	295	35.687026	0.158494	01	00	18	00	02	1b
70	1,	301:	DTE	301	35.858056	0.160512	01	00	18	02	04	1f
71	1,	307:	DTE	307	36.023893	0.155308	01	00	18	00	03	1a
72	1,	313:	DTE	313	36.193094	0.158505	01	00	18	02	04	1f
73	1,	319:	DTE	319	36.362036	0.158412	01	00	18	00	03	1a
74	1,	325:	DTE	325	36.530124	0.157503	01	00	18	02	04	1f
75	1,	331:	DTE	331	36.699161	0.158519	01	00	18	00	03	1a
76	1,	337:	DTE	337	36.868175	0.158485	01	00	18	02	05	1e
77	1,	343:	DTE	343	37.036204	0.157503	01	00	18	00	03	1a
78	1,	349:	DTE	349	37.205242	0.158521	01	00	18	02	05	1e
79	1,	355:	DTE	355	37.374239	0.158482	01	00	18	00	03	1a
80	1,	361:	DTE	361	37.542274	0.157518	01	00	18	02	05	1e
81	1,	367:	DTE	367	37.711296	0.158491	01	00	18	00	03	1a
82	1,	373:	DTE	373	37.879344	0.157517	01	00	18	02	05	1e
83	1,	379:	DTE	379	38.048328	0.158453	01	00	18	00	04	1d
84	1,	385:	DTE	385	38.217339	0.158649	01	00	18	02	05	1e
85	1,	391:	DTE	391	38.385359	0.157491	01	00	18	00	04	1d
86	1,	397:	DTE	397	38.554408	0.158532	01	00	18	02	06	1d
87	1,	403:	DTE	403	38.725432	0.160507	01	00	18	00	04	1d
88	1,	409:	DTE	409	38.896427	0.160639	01	00	18	02	06	1d
89	1,	415:	DTE	415	39.064474	0.157517	01	00	18	00	05	1c
90	1,	421:	DTE	421	39.233482	0.158478	01	00	18	02	06	1d
91	1,	427:	DTE	427	39.401530	0.157516	01	00	18	00	05	1c
92	1,	433:	DTE	433	39.570554	0.158493	01	00	18	02	06	1d
93	1,	439:	DTE	439	39.738409	0.157325	01	00	13	00	00	12
94	1,	445:	DTE	445	39.907611	0.158686	01	00	14	00	00	15
95												
96	1,	451:	DTE	451	41.558836	1.640696	01	00	24	03	00	26
97	1,	457:	DTE	457	41.739770	0.170407	01	00	24	01	00	24
98												

99	1,	463:	DTE	463	42.856987	1.106787	01	00	18	00	00	19
100	1,	469:	DTE	469	43.572077	0.704561	01	00	18	00	00	19
101	1,	475:	DTE	475	44.010123	0.427449	01	00	18	00	01	18
102	1,	481:	DTE	481	44.341177	0.320525	01	00	18	00	01	18
103	1,	487:	DTE	487	45.013302	0.661593	01	00	18	00	02	1b
104	1,	493:	DTE	493	45.246297	0.222465	01	00	18	00	02	1b
105	1,	499:	DTE	499	45.628353	0.371540	01	00	18	00	03	1a
106	1,	505:	DTE	505	45.959423	0.320539	01	00	18	00	03	1a
107	1,	511:	DTE	511	46.235437	0.265486	01	00	18	00	03	1a
108	1,	517:	DTE	517	46.608510	0.362543	01	00	18	00	04	1d
109	1,	523:	DTE	523	47.370606	0.751566	01	00	18	00	04	1d
110	1,	529:	DTE	529	47.936673	0.555538	01	00	18	00	05	1c
111	1,	535:	DTE	535	48.126698	0.179507	01	00	18	00	05	1c
112	1,	541:	DTE	541	48.470594	0.333378	01	00	18	00	06	1f
113	1,	547:	DTE	547	48.639692	0.158414	01	00	18	00	06	1f
114	1,	553:	DTE	553	49.303913	0.653624	01	00	13	00	00	12
115	1,	559:	DTE	559	49.471740	0.157297	01	00	14	00	00	15
116												
117	1,	565:	DTE	565	52.767326	3.284903	01	00	24	03	00	26
118	1,	571:	DTE	571	52.948350	0.170509	01	00	24	01	00	24
119												
120	1,	577:	DTE	577	54.073508	1.114626	01	00	18	00	00	19
121	1,	583:	DTE	583	54.242532	0.158493	01	00	18	00	00	19
122	1,	589:	DTE	589	54.411543	0.158483	01	00	18	03	00	1a
123	1,	595:	DTE	595	54.579563	0.157491	01	00	18	00	00	19
124	1,	601:	DTE	601	54.748477	0.158384	01	00	18	03	00	1a
125	1,	607:	DTE	607	54.917623	0.158672	01	00	18	00	00	19
126	1,	613:	DTE	613	55.085658	0.157505	01	00	18	03	00	1a
127	1,	619:	DTE	619	55.254641	0.158455	01	00	18	00	00	19
128	1,	625:	DTE	625	55.422701	0.157530	01	00	18	03	01	1b
129	1,	631:	DTE	631	55.591697	0.158478	01	00	18	00	01	18
130	1,	637:	DTE	637	55.759753	0.157525	01	00	18	03	01	1b
131	1,	643:	DTE	643	55.928756	0.158661	01	00	18	00	01	18
132	1,	649:	DTE	649	56.097803	0.158529	01	00	18	03	01	1b
133	1,	655:	DTE	655	56.265826	0.157491	01	00	18	00	01	18
134	1,	661:	DTE	661	56.434836	0.158494	01	00	18	03	01	1b
135	1,	667:	DTE	667	56.603847	0.158494	01	00	18	00	01	18
136	1,	673:	DTE	673	56.771688	0.157311	01	00	18	03	02	18
137	1,	679:	DTE	679	56.940891	0.158507	01	00	18	00	01	18
138	1,	685:	DTE	685	57.109939	0.158532	01	00	18	03	02	18
139	1,	691:	DTE	691	57.277921	0.157465	01	00	18	00	02	1b
140	1,	697:	DTE	697	57.446957	0.158505	01	00	18	03	02	18
141	1,	703:	DTE	703	57.615996	0.158507	01	00	18	00	02	1b
142	1,	709:	DTE	709	57.784004	0.157493	01	00	18	03	03	19
143	1,	715:	DTE	715	57.953024	0.158493	01	00	18	00	02	1b
144	1,	721:	DTE	721	58.122048	0.158672	01	00	18	03	03	19
145	1,	727:	DTE	727	58.290096	0.157515	01	00	18	00	02	1b
146	1,	733:	DTE	733	58.459107	0.158481	01	00	18	03	03	19
147	1,	739:	DTE	739	58.628169	0.158533	01	00	18	00	02	1b
148	1,	745:	DTE	745	58.796176	0.157490	01	00	18	03	03	19
149	1,	751:	DTE	751	58.965174	0.158618	01	00	18	00	03	1a
150	1,	757:	DTE	757	59.133194	0.157490	01	00	18	03	03	19
151	1,	763:	DTE	763	59.302206	0.158480	01	00	18	00	03	1a
152	1,	769:	DTE	769	59.471216	0.158480	01	00	18	03	04	1e
153	1,	775:	DTE	775	59.639250	0.157504	01	00	18	00	03	1a
154	1,	781:	DTE	781	59.808274	0.158494	01	00	18	03	04	1e
155	1,	787:	DTE	787	59.976319	0.157515	01	00	18	00	03	1a
156	1,	793:	DTE	793	60.145331	0.158494	01	00	18	03	04	1e
157	1,	799:	DTE	799	60.314341	0.158479	01	00	18	00	03	1a
158	1,	805:	DTE	805	60.482414	0.157542	01	00	18	03	04	1e
159	1,	811:	DTE	811	60.651412	0.158481	01	00	18	00	03	1a
160	1,	817:	DTE	817	60.819446	0.157504	01	00	18	03	05	1f
161	1,	823:	DTE	823	60.988468	0.158492	01	00	18	00	03	1a
162	1,	829:	DTE	829	61.157464	0.158466	01	00	18	03	05	1f
163	1,	835:	DTE	835	61.325488	0.157659	01	00	18	00	04	1d
164	1,	841:	DTE	841	61.494537	0.158520	01	00	18	03	05	1f
165	1,	847:	DTE	847	61.665525	0.160471	01	00	18	00	04	1d
166	1,	853:	DTE	853	61.831553	0.155499	01	00	18	03	06	1c
167	1,	859:	DTE	859	62.000605	0.158581	01	00	18	00	04	1d
168	1,	865:	DTE	865	62.169420	0.158298	01	00	18	03	06	1c
169	1,	871:	DTE	871	62.337608	0.157504	01	00	13	00	00	12
170	1,	877:	DTE	877	62.506658	0.158519	01	00	14	00	00	15

171	1,	883:	DTE	883	62.674665	0.157488	01	00	18	01	00	18
172	1,	889:	DTE	889	63.466789	0.781592	01	00	18	03	00	1a
173	1,	895:	DTE	895	64.024861	0.547543	01	00	18	03	00	1a
174	1,	901:	DTE	901	64.189876	0.154485	01	00	18	03	01	1b
175												
176	1,	907:	DTE	907	65.391033	1.190642	01	00	18	03	01	1b
177	1,	913:	DTE	913	65.564034	0.162471	01	00	18	03	02	18
178	1,	919:	DTE	919	66.143142	0.568723	01	00	18	03	02	18
179	1,	925:	DTE	925	66.311163	0.157491	01	00	18	03	03	19
180	1,	931:	DTE	931	66.480199	0.158506	01	00	18	03	03	19
181	1,	937:	DTE	937	66.755241	0.264617	01	00	18	03	03	19
182	1,	943:	DTE	943	67.073273	0.307518	01	00	18	03	04	1e
183	1,	949:	DTE	949	67.823378	0.739575	01	00	18	03	04	1e
184	1,	955:	DTE	955	68.226411	0.392505	01	00	18	03	05	1f
185	1,	961:	DTE	961	68.762478	0.525551	01	00	18	03	05	1f
186	1,	967:	DTE	967	69.576606	0.803598	01	00	18	03	06	1c
187	1,	973:	DTE	973	69.747580	0.160458	01	00	18	03	06	1c
188												
189	1,	979:	DTE	979	70.968847	1.210683	01	00	13	00	00	12
190	1,	985:	DTE	985	71.138104	0.158742	01	00	14	00	00	15
191												
192	1,	991:	DTE	991	74.659289	3.510727	01	00	18	01	01	19
193												
194	1,	997:	DTE	997	76.117504	1.447686	01	00	18	01	00	18
195	1,	1003:	DTE	1003	76.768572	0.640539	01	00	18	01	00	18
196	1,	1009:	DTE	1009	76.936606	0.157505	01	00	18	03	00	1a
197	1,	1015:	DTE	1015	77.203623	0.256488	01	00	18	01	00	18
198	1,	1021:	DTE	1021	77.372657	0.158504	01	00	18	03	00	1a
199	1,	1027:	DTE	1027	77.540668	0.157479	01	00	18	01	00	18
200	1,	1033:	DTE	1033	77.709718	0.158512	01	00	18	03	00	1a
201	1,	1039:	DTE	1039	77.997751	0.277504	01	00	18	01	01	19
202	1,	1045:	DTE	1045	78.166758	0.158477	01	00	18	03	00	1a
203	1,	1051:	DTE	1051	78.335797	0.158506	01	00	18	01	01	19
204	1,	1057:	DTE	1057	78.503736	0.157408	01	00	18	03	01	1b
205	1,	1063:	DTE	1063	78.672838	0.158450	01	00	18	01	01	19
206	1,	1069:	DTE	1069	78.841840	0.158427	01	00	18	03	01	1b
207	1,	1075:	DTE	1075	79.009872	0.157503	01	00	18	01	01	19
208	1,	1081:	DTE	1081	79.178920	0.158518	01	00	18	03	01	1b
209	1,	1087:	DTE	1087	79.347932	0.158491	01	00	18	01	02	1a
210	1,	1093:	DTE	1093	79.515940	0.157477	01	00	18	03	02	18
211	1,	1099:	DTE	1099	79.684977	0.158507	01	00	18	01	01	19
212	1,	1105:	DTE	1105	79.853988	0.158480	01	00	18	03	02	18
213	1,	1111:	DTE	1111	80.025979	0.161453	01	00	18	01	01	19
214	1,	1117:	DTE	1117	80.195065	0.158556	01	00	18	03	01	1b
215	1,	1123:	DTE	1123	80.368034	0.162462	01	00	18	01	01	19
216	1,	1129:	DTE	1129	80.532087	0.157491	01	00	18	03	02	18
217	1,	1135:	DTE	1135	80.701161	0.158545	01	00	18	01	02	1a
218	1,	1141:	DTE	1141	80.874157	0.162479	01	00	18	03	02	18
219	1,	1147:	DTE	1147	81.042165	0.157479	01	00	18	01	02	1a
220	1,	1153:	DTE	1153	81.211191	0.158497	01	00	18	03	02	18
221	1,	1159:	DTE	1159	81.382216	0.160499	01	00	18	01	02	1a
222	1,	1165:	DTE	1165	81.548232	0.155486	01	00	18	03	02	18
223	1,	1171:	DTE	1171	81.717237	0.158489	01	00	18	01	02	1a
224	1,	1177:	DTE	1177	81.886265	0.158506	01	00	18	03	03	19
225	1,	1183:	DTE	1183	82.054284	0.157503	01	00	18	01	03	1b
226	1,	1189:	DTE	1189	82.223388	0.158571	01	00	18	03	03	19
227	1,	1195:	DTE	1195	82.391356	0.157437	01	00	18	01	03	1b
228	1,	1201:	DTE	1201	82.560352	0.158478	01	00	18	03	03	19
229	1,	1207:	DTE	1207	82.728407	0.157523	01	00	18	01	03	1b
230	1,	1213:	DTE	1213	82.897453	0.158474	01	00	18	03	03	19
231	1,	1219:	DTE	1219	83.066433	0.158467	01	00	18	01	03	1b
232	1,	1225:	DTE	1225	83.234455	0.157492	01	00	18	03	03	19
233	1,	1231:	DTE	1231	83.403480	0.158495	01	00	18	01	03	1b
234	1,	1237:	DTE	1237	83.572514	0.158505	01	00	18	03	03	19
235	1,	1243:	DTE	1243	83.740524	0.157491	01	00	18	01	04	1c
236	1,	1249:	DTE	1249	83.909548	0.158495	01	00	18	03	03	19
237	1,	1255:	DTE	1255	84.078595	0.158520	01	00	18	01	04	1c
238	1,	1261:	DTE	1261	84.246616	0.157489	01	00	18	03	04	1e
239	1,	1267:	DTE	1267	84.415626	0.158479	01	00	18	01	04	1c
240	1,	1273:	DTE	1273	84.584623	0.158479	01	00	18	03	04	1e
241	1,	1279:	DTE	1279	84.756721	0.161566	01	00	18	01	04	1c
242	1,	1285:	DTE	1285	84.925679	0.158428	01	00	18	03	04	1e

243	1,	1291:	DTE	1291	85.094701	0.158491	01	00	18	01	05	1d
244	1,	1297:	DTE	1297	85.263739	0.158520	01	00	18	03	04	1e
245	1,	1303:	DTE	1303	85.431746	0.157490	01	00	18	01	05	1d
246	1,	1309:	DTE	1309	85.600754	0.158479	01	00	18	03	04	1e
247	1,	1315:	DTE	1315	85.768789	0.157503	01	00	18	01	06	1e
248	1,	1321:	DTE	1321	85.937827	0.158506	01	00	18	03	04	1e
249	1,	1327:	DTE	1327	86.106850	0.158492	01	00	18	01	06	1e
250	1,	1333:	DTE	1333	86.278856	0.161487	01	00	18	03	05	1f
251	1,	1339:	DTE	1339	86.447892	0.158505	01	00	18	01	06	1e
252	1,	1345:	DTE	1345	86.616916	0.158493	01	00	18	03	05	1f
253	1,	1351:	DTE	1351	86.784935	0.157489	01	00	13	00	00	12
254	1,	1357:	DTE	1357	86.954024	0.158558	01	00	14	00	00	15
255												
256	1,	1363:	DTE	1363	89.313337	2.348781	01	00	18	01	02	1a
257	1,	1369:	DTE	1369	89.687371	0.363507	01	00	18	01	00	18
258	1,	1375:	DTE	1375	90.039236	0.341334	01	00	18	01	00	18
259	1,	1381:	DTE	1381	90.276408	0.226475	01	00	18	01	01	19
260	1,	1387:	DTE	1387	90.756473	0.469548	01	00	18	01	01	19
261	1,	1393:	DTE	1393	91.139521	0.372519	01	00	18	01	02	1a
262	1,	1399:	DTE	1399	91.491399	0.341363	01	00	18	01	02	1a
263	1,	1405:	DTE	1405	91.780614	0.278533	01	00	18	01	03	1b
264	1,	1411:	DTE	1411	91.947658	0.156528	01	00	18	01	03	1b
265												
266	1,	1417:	DTE	1417	93.504859	1.546672	01	00	18	01	03	1b
267												
268	1,	1423:	DTE	1423	94.544989	1.029602	01	00	18	01	04	1c
269	1,	1429:	DTE	1429	94.854026	0.298508	01	00	18	01	04	1c
270	1,	1435:	DTE	1435	95.091042	0.226499	01	00	18	01	05	1d
271	1,	1441:	DTE	1441	95.465119	0.363547	01	00	18	01	05	1d
272	1,	1447:	DTE	1447	96.234220	0.758572	01	00	18	01	06	1e
273	1,	1453:	DTE	1453	96.844311	0.599563	01	00	18	01	06	1e
274												
275	1,	1459:	DTE	1459	97.927462	1.072621	01	00	13	00	00	12
276	1,	1465:	DTE	1465	98.095520	0.157542	01	00	14	00	00	15
277												
278	1,	1471:	DTE	1471	103.765233	5.659182	01	00	18	01	01	19
279	1,	1477:	DTE	1477	103.934259	0.158495	01	00	18	02	00	1b
280	1,	1483:	DTE	1483	104.167252	0.222465	01	00	18	02	00	1b
281	1,	1489:	DTE	1489	104.335299	0.157516	01	00	18	02	00	1b
282	1,	1495:	DTE	1495	105.106433	0.760604	01	00	18	02	01	1a
283	1,	1501:	DTE	1501	105.279427	0.162478	01	00	18	01	00	18
284	1,	1507:	DTE	1507	105.447434	0.157478	01	00	18	02	01	1a
285	1,	1513:	DTE	1513	105.616495	0.158531	01	00	18	01	00	18
286	1,	1519:	DTE	1519	105.785532	0.158534	01	00	18	02	01	1a
287	1,	1525:	DTE	1525	105.953399	0.157350	01	00	18	01	00	18
288	1,	1531:	DTE	1531	106.122383	0.158286	01	00	18	02	01	1a
289	1,	1537:	DTE	1537	106.291576	0.158497	01	00	18	01	00	18
290	1,	1543:	DTE	1543	106.459609	0.157505	01	00	18	02	02	19
291	1,	1549:	DTE	1549	106.628477	0.158353	01	00	18	01	01	19
292	1,	1555:	DTE	1555	106.797693	0.158532	01	00	18	02	02	19
293	1,	1561:	DTE	1561	106.965663	0.157451	01	00	18	01	01	19
294	1,	1567:	DTE	1567	107.134685	0.158492	01	00	18	02	02	19
295	1,	1573:	DTE	1573	107.303710	0.158507	01	00	18	01	01	19
296	1,	1579:	DTE	1579	107.475755	0.161683	01	00	18	02	02	19
297	1,	1585:	DTE	1585	107.644811	0.158541	01	00	18	01	01	19
298	1,	1591:	DTE	1591	107.813789	0.158496	01	00	18	02	03	18
299	1,	1597:	DTE	1597	107.981808	0.157490	01	00	18	01	02	1a
300	1,	1603:	DTE	1603	108.150831	0.158492	01	00	18	02	03	18
301	1,	1609:	DTE	1609	108.319855	0.158506	01	00	18	01	02	1a
302	1,	1615:	DTE	1615	108.487890	0.157518	01	00	18	02	03	18
303	1,	1621:	DTE	1621	108.656900	0.158481	01	00	18	01	02	1a
304	1,	1627:	DTE	1627	108.824932	0.157515	01	00	18	02	03	18
305	1,	1633:	DTE	1633	108.993944	0.158494	01	00	18	01	02	1a
306	1,	1639:	DTE	1639	109.162967	0.158493	01	00	18	02	03	18
307	1,	1645:	DTE	1645	109.331000	0.157503	01	00	18	01	03	1b
308	1,	1651:	DTE	1651	109.500049	0.158532	01	00	18	02	03	18
309	1,	1657:	DTE	1657	109.669034	0.158454	01	00	18	01	03	1b
310	1,	1663:	DTE	1663	109.837066	0.157502	01	00	18	02	04	1f
311	1,	1669:	DTE	1669	110.006091	0.158672	01	00	18	01	03	1b
312	1,	1675:	DTE	1675	110.174101	0.157492	01	00	18	02	04	1f
313	1,	1681:	DTE	1681	110.343123	0.158493	01	00	18	01	03	1b
314	1,	1687:	DTE	1687	110.512159	0.158506	01	00	18	02	04	1f

315	1,	1693:	DTE	1693	110.680181	0.157492	01	00	18	01	03	1b
316	1,	1699:	DTE	1699	110.849037	0.158340	01	00	18	02	05	1e
317	1,	1705:	DTE	1705	111.018226	0.158492	01	00	18	01	03	1b
318	1,	1711:	DTE	1711	111.190233	0.161476	01	00	18	02	05	1e
319	1,	1717:	DTE	1717	111.359267	0.158504	01	00	18	01	03	1b
320	1,	1723:	DTE	1723	111.528278	0.158471	01	00	18	02	05	1e
321	1,	1729:	DTE	1729	111.696287	0.157477	01	00	18	01	03	1b
322	1,	1735:	DTE	1735	111.865350	0.158533	01	00	18	02	06	1d
323	1,	1741:	DTE	1741	112.038355	0.162488	01	00	18	01	04	1c
324	1,	1747:	DTE	1747	112.206389	0.157502	01	00	18	02	06	1d
325	1,	1753:	DTE	1753	112.375402	0.158480	01	00	18	01	04	1c
326	1,	1759:	DTE	1759	112.544317	0.158385	01	00	18	02	06	1d
327	1,	1765:	DTE	1765	112.712447	0.157465	01	00	18	01	04	1c
328	1,	1771:	DTE	1771	112.881483	0.158520	01	00	18	02	06	1d
329	1,	1777:	DTE	1777	113.050518	0.158510	01	00	18	01	05	1d
330	1,	1783:	DTE	1783	113.218499	0.157450	01	00	18	02	06	1d
331	1,	1789:	DTE	1789	113.387537	0.158507	01	00	13	00	00	12
332	1,	1795:	DTE	1795	113.556547	0.158481	01	00	14	00	00	15
333												
334	1,	1801:	DTE	1801	116.218902	2.651825	01	00	18	01	00	18
335	1,	1807:	DTE	1807	116.387940	0.158508	01	00	18	02	00	1b
336	1,	1813:	DTE	1813	116.556964	0.158509	01	00	18	02	00	1b
337	1,	1819:	DTE	1819	117.058029	0.490657	01	00	18	02	00	1b
338	1,	1825:	DTE	1825	117.808148	0.739599	01	00	18	02	01	1a
339												
340	1,	1831:	DTE	1831	119.364359	1.545682	01	00	18	02	01	1a
341												
342	1,	1837:	DTE	1837	120.404490	1.029602	01	00	18	02	02	19
343	1,	1843:	DTE	1843	120.778552	0.363546	01	00	18	02	02	19
344	1,	1849:	DTE	1849	121.237600	0.448520	01	00	18	02	03	18
345	1,	1855:	DTE	1855	121.623668	0.375539	01	00	18	02	03	18
346	1,	1861:	DTE	1861	122.005711	0.371678	01	00	18	02	03	18
347	1,	1867:	DTE	1867	122.178732	0.162503	01	00	18	02	04	1f
348	1,	1873:	DTE	1873	122.347755	0.158492	01	00	18	02	04	1f
349	1,	1879:	DTE	1879	122.549775	0.191487	01	00	18	02	05	1e
350	1,	1885:	DTE	1885	122.881819	0.321514	01	00	18	02	05	1e
351	1,	1891:	DTE	1891	123.254879	0.362544	01	00	18	02	06	1d
352	1,	1897:	DTE	1897	123.593915	0.328506	01	00	18	02	06	1d
353	1,	1903:	DTE	1903	124.280022	0.675578	01	00	13	00	00	12
354	1,	1909:	DTE	1909	124.448865	0.158326	01	00	14	00	00	15
355												
356	1,	1915:	DTE	1915	128.238564	3.779000	01	00	24	03	00	26
357	1,	1921:	DTE	1921	128.420594	0.171502	01	00	24	01	00	24
358												
359	1,	1927:	DTE	1927	130.006637	1.575513	01	00	24	03	00	26
360	1,	1933:	DTE	1933	130.188825	0.171504	01	00	24	04	00	21
361												
362	1,	1939:	DTE	1939	132.014057	1.814704	01	00	24	03	00	26
363	1,	1945:	DTE	1945	132.196087	0.171514	01	00	24	00	00	25
364												
365	1,	1951:	DTE	1951	134.265358	2.058740	01	00	24	03	00	26
366	1,	1957:	DTE	1957	134.446385	0.170497	01	00	24	04	00	21
367												
368	1,	1963:	DTE	1963	137.378782	2.921866	01	00	23	02	00	20
369	1,	1969:	DTE	1969	139.277062	1.887750	01	00	23	05	00	27
370												
371	1,	1975:	DTE	1975	141.444328	2.156734	01	00	23	03	00	21
372	1,	1981:	DTE	1981	142.808534	1.353677	01	00	23	05	00	27
373												
374	1,	1987:	DTE	1987	146.659042	3.839979	01	00	25	00	00	24
375	1,	1993:	DTE	1993	148.655343	1.985774	01	00	25	04	00	20
376												
377	1,	1999:	DTE	1999	150.673610	2.007751	01	00	25	01	00	25
378	1,	2005:	DTE	2005	152.875889	2.191750	01	00	25	04	00	20
379												
380	1,	2011:	DTE	2011	157.464520	4.578103	01	00	1d	00	47	5b
381	1,	2017:	DTE	2017	157.632516	0.157466	01	00	11	00	01	11
382												
383	1,	2023:	DTE	2023	162.162163	4.519118	01	00	1d	00	01	1d
384	1,	2029:	DTE	2029	170.894336	8.721658	01	00	1d	00	47	5b
385												
386	1,	2035:	DTE	2035	171.062357	0.157491	01	00	11	00	06	16

```
387      1,      2041: DTE      2041      178.001300      6.928426 01 00 1d 00 06 1a
388
389 There were a total of      2046 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      2046 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 178.011828 seconds from the start of data collection
398
```


3.11 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

3.11.1 29may07q.out

```

1  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2  $Header: d:/1stLooks/Combined/RCS/29MAY07Q.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

```

¹³\$Header: d:/1stLooks/Combined/RCS/Ernitec.inc,v 1.2 2007-12-31 08:22:14-08 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

Confidential PELCO Information — 31 December 2007 — 12:55

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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

```

3.12 Erintec ICU

This data was collected from a an Integral Technologies, DS XPress DVR on 19DEC07.

1. Baud: **4800**
2. Hello Message: **No**
3. Minimum Camera Address: **0**
4. Maximum Camera Address: **31** (254 — 255 = Broadcast)
5. Minimum Preset Number: **1**
6. Maximum Preset Number: **128**
7. Do we have an “official” protocol document? **No**
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: _____.

Ernitec ERNA Protocol

3.12.1 19DEC07J.out

```

1  Integral Technologies DS XPress DVR
2  DTE = From the DVR
3  DCE = nothing, no dome was attached
4  4800 baud
5  No parity
6  Erintec ICU
7
8
9  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
10 $Header: d:/1stLooks/Combined/RCS/19DEC07J.out,v 1.2 2007-12-19 12:35:31-08 Hamilton Exp Hamilton $
11 FTS capture buffer (12/19/2007 7:44:42 AM)
12 Event 1 (12/19/2007 7:41:45.442175 AM) through
13 Event 2,600 (12/19/2007 7:44:16.479056 AM)
14
15
16      1,      1: DTE      1      0.000000  0.000000 02 01 0e 0f 0f 2f
17      1,      7: DTE      7      0.168997  0.158480 02 01 01 02 00 06
18      1,     13: DTE     13      0.337020  0.157493 02 01 0e 0f 0f 2f
19      1,     19: DTE     19      0.506194  0.158810 02 01 01 04 00 08
20      1,     25: DTE     25      0.781092  0.264391 02 01 0e 0f 1e 3e
21      1,     31: DTE     31      0.950106  0.158484 02 01 01 04 00 08
22      1,     37: DTE     37      1.806224  0.845591 02 01 0e 0f 2d 4d
23      1,     43: DTE     43      1.975299  0.158546 02 01 01 04 00 08
24      1,     49: DTE     49      2.575327  0.589512 02 01 0e 0f 3f 5f
25      1,     55: DTE     55      2.744402  0.158546 02 01 01 04 00 08
26      1,     61: DTE     61      2.916404  0.161473 02 01 0e 0f 4f 6f

```

¹⁴\$Header: d:/1stLooks/Combined/RCS/DSXeri.inc,v 1.2 2007-12-31 09:06:36-08 Hamilton Exp Hamilton \$

27	1,	67:	DTE	67	3.084361	0.157425	02	01	01	04	00	08
28	1,	73:	DTE	73	3.381497	0.286606	02	01	0e	0f	5e	7e
29	1,	79:	DTE	79	3.550457	0.158442	02	01	01	04	00	08
30	1,	85:	DTE	85	3.719505	0.158687	02	01	0e	0f	6d	8d
31	1,	91:	DTE	91	3.887525	0.157501	02	01	01	04	00	08
32	1,	97:	DTE	97	4.056535	0.158479	02	01	0e	0f	7f	9f
33	1,	103:	DTE	103	4.225546	0.158482	02	01	01	04	00	08
34	1,	109:	DTE	109	5.077668	0.841592	02	01	0e	0f	7f	9f
35	1,	115:	DTE	115	5.245688	0.157501	02	01	01	04	00	08
36	1,	121:	DTE	121	5.456734	0.200514	02	01	0e	0f	8e	ae
37	1,	127:	DTE	127	5.625741	0.158479	02	01	01	04	00	08
38	1,	133:	DTE	133	5.794778	0.158506	02	01	0e	0f	9e	be
39	1,	139:	DTE	139	5.962812	0.157684	02	01	01	04	00	08
40	1,	145:	DTE	145	6.131714	0.158371	02	01	0e	0f	ad	cd
41	1,	151:	DTE	151	6.300692	0.158339	02	01	01	04	00	08
42	1,	157:	DTE	157	6.532877	0.221488	02	01	0e	0f	bf	df
43	1,	163:	DTE	163	6.701914	0.158519	02	01	01	04	00	08
44	1,	169:	DTE	169	6.870910	0.158479	02	01	0e	0f	ce	ee
45	1,	175:	DTE	175	7.038944	0.157503	02	01	01	04	00	08
46	1,	181:	DTE	181	7.211940	0.162465	02	01	0e	0f	dd	fd
47	1,	187:	DTE	187	7.380989	0.158519	02	01	01	04	00	08
48	1,	193:	DTE	193	7.549010	0.157490	02	01	0e	0f	ed	od
49	1,	199:	DTE	199	7.718072	0.158544	02	01	01	04	00	08
50	1,	205:	DTE	205	8.017092	0.288503	02	01	0e	00	00	11
51												
52	1,	211:	DTE	211	8.183086	0.155473	02	01	01	00	00	04
53												
54	1,	217:	DTE	217	12.349674	4.156059	02	01	0e	0f	0f	2f
55	1,	223:	DTE	223	12.518697	0.158505	02	01	01	04	00	08
56	1,	229:	DTE	229	13.190768	0.661555	02	01	0e	0f	0f	2f
57	1,	235:	DTE	235	13.359830	0.158533	02	01	01	05	00	09
58	1,	241:	DTE	241	13.528841	0.158648	02	01	0e	0f	1e	3e
59	1,	247:	DTE	247	13.696848	0.157489	02	01	01	05	00	09
60	1,	253:	DTE	253	13.865704	0.158326	02	01	0e	0f	2d	4d
61	1,	259:	DTE	259	14.034894	0.158491	02	01	01	05	00	09
62	1,	265:	DTE	265	14.203892	0.158481	02	01	0e	1e	2d	5c
63	1,	271:	DTE	271	14.375937	0.161514	02	01	01	05	00	09
64	1,	277:	DTE	277	14.544961	0.158660	02	01	0e	1e	3f	6e
65	1,	283:	DTE	283	14.712994	0.157504	02	01	01	05	00	09
66	1,	289:	DTE	289	14.882003	0.158479	02	01	0e	1e	4f	7e
67	1,	295:	DTE	295	15.051014	0.158480	02	01	01	05	00	09
68	1,	301:	DTE	301	15.219109	0.157564	02	01	0e	2d	4f	8d
69	1,	307:	DTE	307	15.388074	0.158495	02	01	01	05	00	09
70	1,	313:	DTE	313	15.791119	0.392529	02	01	0e	3f	4f	9f
71	1,	319:	DTE	319	15.960143	0.158494	02	01	01	05	00	09
72	1,	325:	DTE	325	16.129204	0.158530	02	01	0e	3f	5e	ae
73	1,	331:	DTE	331	16.297225	0.157503	02	01	01	05	00	09
74	1,	337:	DTE	337	16.466241	0.158664	02	01	0e	3f	6d	bd
75	1,	343:	DTE	343	16.635246	0.158479	02	01	01	05	00	09
76	1,	349:	DTE	349	16.803279	0.157516	02	01	0e	3f	7f	cf
77	1,	355:	DTE	355	16.972278	0.158467	02	01	01	05	00	09
78	1,	361:	DTE	361	17.139322	0.156513	02	01	0e	4f	7f	df
79	1,	367:	DTE	367	17.309183	0.159331	02	01	01	05	00	09
80	1,	373:	DTE	373	17.478372	0.158492	02	01	0e	4f	8e	ee
81	1,	379:	DTE	379	17.646378	0.157476	02	01	01	05	00	09
82	1,	385:	DTE	385	17.815415	0.158505	02	01	0e	5e	8e	fd
83	1,	391:	DTE	391	17.983424	0.157477	02	01	01	05	00	09
84	1,	397:	DTE	397	18.152434	0.158480	02	01	0e	5e	9e	0d
85	1,	403:	DTE	403	18.321531	0.158568	02	01	01	05	00	09
86	1,	409:	DTE	409	18.489504	0.157529	02	01	0e	6d	9e	1c
87	1,	415:	DTE	415	18.658487	0.158466	02	01	01	05	00	09
88	1,	421:	DTE	421	18.827551	0.158532	02	01	0e	6d	ad	2b
89	1,	427:	DTE	427	18.995558	0.157477	02	01	01	05	00	09
90	1,	433:	DTE	433	19.164570	0.158480	02	01	0e	7f	ad	3d
91	1,	439:	DTE	439	19.333439	0.158340	02	01	01	05	00	09
92	1,	445:	DTE	445	19.501640	0.157517	02	01	0e	8e	ad	4c
93	1,	451:	DTE	451	19.670662	0.158491	02	01	01	05	00	09
94	1,	457:	DTE	457	19.843670	0.162476	02	01	0e	8e	bf	5e
95	1,	463:	DTE	463	20.011729	0.157565	02	01	01	05	00	09
96	1,	469:	DTE	469	20.180729	0.158468	02	01	0e	9e	bf	6e
97	1,	475:	DTE	475	20.349751	0.158493	02	01	01	05	00	09
98	1,	481:	DTE	481	20.517785	0.157515	02	01	0e	9e	ce	7d

99	1,	487:	DTE	487	20.686796	0.158493	02	01	01	05	00	09
100	1,	493:	DTE	493	20.856038	0.158725	02	01	0e	9e	dd	8c
101	1,	499:	DTE	499	21.023827	0.157269	02	01	01	05	00	09
102	1,	505:	DTE	505	21.196861	0.162503	02	01	0e	9e	ed	9c
103	1,	511:	DTE	511	21.365873	0.158482	02	01	01	05	00	09
104	1,	517:	DTE	517	21.533919	0.157567	02	01	0e	ad	ed	ab
105	1,	523:	DTE	523	21.702929	0.158494	02	01	01	05	00	09
106	1,	529:	DTE	529	21.871964	0.158505	02	01	0e	bf	ed	bd
107	1,	535:	DTE	535	22.043970	0.161487	02	01	01	05	00	09
108	1,	541:	DTE	541	22.212994	0.158493	02	01	0e	ce	ed	cc
109	1,	547:	DTE	547	22.386016	0.162506	02	01	01	05	00	09
110	1,	553:	DTE	553	22.553045	0.156512	02	01	0e	00	00	11
111												
112	1,	559:	DTE	559	22.723059	0.159495	02	01	01	00	00	04
113												
114	1,	565:	DTE	565	25.394441	2.660864	02	01	01	20	00	24
115	1,	571:	DTE	571	26.780625	1.375669	02	01	0e	0f	0f	2f
116	1,	577:	DTE	577	26.949634	0.158479	02	01	01	01	00	05
117	1,	583:	DTE	583	27.583763	0.623598	02	01	0e	1e	0f	3e
118	1,	589:	DTE	589	27.751745	0.157452	02	01	01	01	00	05
119	1,	595:	DTE	595	27.920781	0.158682	02	01	0e	2d	0f	4d
120	1,	601:	DTE	601	28.089792	0.158494	02	01	01	01	00	05
121	1,	607:	DTE	607	28.257824	0.157516	02	01	0e	3f	0f	5f
122	1,	613:	DTE	613	28.426847	0.158492	02	01	01	01	00	05
123	1,	619:	DTE	619	28.949908	0.512710	02	01	0e	4f	0f	6f
124	1,	625:	DTE	625	29.118932	0.158507	02	01	01	01	00	05
125	1,	631:	DTE	631	29.599011	0.469548	02	01	0e	5e	0f	7e
126	1,	637:	DTE	637	29.767029	0.157490	02	01	01	01	00	05
127	1,	643:	DTE	643	29.936055	0.158494	02	01	0e	6d	0f	8d
128	1,	649:	DTE	649	30.105078	0.158508	02	01	01	01	00	05
129	1,	655:	DTE	655	30.273071	0.157464	02	01	0e	7f	0f	9f
130	1,	661:	DTE	661	30.442123	0.158519	02	01	01	01	00	05
131	1,	667:	DTE	667	30.718151	0.265499	02	01	0e	8e	0f	ae
132	1,	673:	DTE	673	30.890036	0.161368	02	01	01	01	00	05
133	1,	679:	DTE	679	31.059204	0.158505	02	01	0e	9e	0f	be
134	1,	685:	DTE	685	31.228230	0.158508	02	01	01	01	00	05
135	1,	691:	DTE	691	31.396250	0.157504	02	01	0e	ad	0f	cd
136	1,	697:	DTE	697	31.565300	0.158535	02	01	01	01	00	05
137	1,	703:	DTE	703	31.734295	0.158465	02	01	0e	bf	0f	df
138	1,	709:	DTE	709	31.906365	0.161540	02	01	01	01	00	05
139	1,	715:	DTE	715	32.075350	0.158452	02	01	0e	ce	0f	ee
140	1,	721:	DTE	721	32.244413	0.158532	02	01	01	01	00	05
141	1,	727:	DTE	727	32.412228	0.157284	02	01	0e	dd	0f	fd
142	1,	733:	DTE	733	32.585402	0.162475	02	01	01	01	00	05
143	1,	739:	DTE	739	32.754428	0.158508	02	01	0e	ed	0f	od
144	1,	745:	DTE	745	32.922446	0.157489	02	01	01	01	00	05
145	1,	751:	DTE	751	33.266508	0.333537	02	01	0e	00	00	11
146												
147	1,	757:	DTE	757	33.434536	0.157495	02	01	01	00	00	04
148												
149	1,	763:	DTE	763	37.409036	3.964155	02	01	01	20	00	24
150	1,	769:	DTE	769	38.889270	1.469845	02	01	0e	0f	0f	2f
151	1,	775:	DTE	775	39.057277	0.157476	02	01	01	01	00	05
152	1,	781:	DTE	781	39.226301	0.158506	02	01	0e	1e	0f	3e
153	1,	787:	DTE	787	39.395339	0.158507	02	01	01	01	00	05
154	1,	793:	DTE	793	39.565337	0.159467	02	01	0e	1e	0f	3e
155	1,	799:	DTE	799	39.732690	0.156822	02	01	01	09	00	0d
156	1,	805:	DTE	805	39.899386	0.156174	02	01	0e	2d	0f	4d
157	1,	811:	DTE	811	40.069400	0.159482	02	01	01	09	00	0d
158	1,	817:	DTE	817	40.237434	0.157505	02	01	0e	2d	1e	5c
159	1,	823:	DTE	823	40.406292	0.158329	02	01	01	09	00	0d
160	1,	829:	DTE	829	40.575494	0.158505	02	01	0e	2d	2d	6b
161	1,	835:	DTE	835	40.743501	0.157476	02	01	01	09	00	0d
162	1,	841:	DTE	841	40.912564	0.158523	02	01	0e	3f	2d	7d
163	1,	847:	DTE	847	41.081562	0.158430	02	01	01	09	00	0d
164	1,	853:	DTE	853	41.249582	0.157502	02	01	0e	3f	3f	8f
165	1,	859:	DTE	859	41.422657	0.162553	02	01	01	09	00	0d
166	1,	865:	DTE	865	41.591640	0.158454	02	01	0e	4f	3f	9f
167	1,	871:	DTE	871	41.759648	0.157477	02	01	01	09	00	0d
168	1,	877:	DTE	877	41.928710	0.158531	02	01	0e	4f	4f	af
169	1,	883:	DTE	883	42.101677	0.162437	02	01	01	09	00	0d
170	1,	889:	DTE	889	42.269711	0.157515	02	01	0e	5e	4f	be

171	1,	895:	DTE	895	42.442748	0.162505	02	01	01	09	00	0d
172	1,	901:	DTE	901	42.611782	0.158518	02	01	0e	5e	5e	cd
173	1,	907:	DTE	907	42.779790	0.157477	02	01	01	09	00	0d
174	1,	913:	DTE	913	42.948800	0.158479	02	01	0e	5e	4f	be
175	1,	919:	DTE	919	43.117657	0.158325	02	01	01	09	00	0d
176	1,	925:	DTE	925	43.285882	0.157526	02	01	0e	5e	5e	cd
177	1,	931:	DTE	931	43.455286	0.158872	02	01	01	09	00	0d
178	1,	937:	DTE	937	43.623918	0.158101	02	01	0e	6d	6d	eb
179	1,	943:	DTE	943	43.791926	0.157491	02	01	01	09	00	0d
180	1,	949:	DTE	949	43.964961	0.162505	02	01	0e	6d	7f	fd
181	1,	955:	DTE	955	44.133971	0.158493	02	01	01	09	00	0d
182	1,	961:	DTE	961	44.302004	0.157503	02	01	0e	6d	8e	0c
183	1,	967:	DTE	967	44.471016	0.158494	02	01	01	09	00	0d
184	1,	973:	DTE	973	44.640056	0.158511	02	01	0e	6d	9e	1c
185	1,	979:	DTE	979	44.808059	0.157503	02	01	01	09	00	0d
186	1,	985:	DTE	985	44.977485	0.158896	02	01	0e	7f	9e	2e
187	1,	991:	DTE	991	45.146118	0.158102	02	01	01	09	00	0d
188	1,	997:	DTE	997	45.314114	0.157478	02	01	0e	7f	ad	3d
189	1,	1003:	DTE	1003	45.483151	0.158507	02	01	01	09	00	0d
190	1,	1009:	DTE	1009	45.650194	0.156514	02	01	0e	8e	ad	4c
191	1,	1015:	DTE	1015	45.820195	0.159469	02	01	01	09	00	0d
192	1,	1021:	DTE	1021	45.989218	0.158493	02	01	0e	8e	bf	5e
193	1,	1027:	DTE	1027	46.156240	0.156506	02	01	01	09	00	0d
194	1,	1033:	DTE	1033	46.328267	0.161501	02	01	0e	9e	bf	6e
195	1,	1039:	DTE	1039	46.494284	0.155486	02	01	01	09	00	0d
196	1,	1045:	DTE	1045	46.663151	0.158352	02	01	0e	9e	ce	7d
197	1,	1051:	DTE	1051	46.832327	0.158476	02	01	01	09	00	0d
198	1,	1057:	DTE	1057	47.000363	0.157506	02	01	0e	9e	dd	8c
199	1,	1063:	DTE	1063	47.169374	0.158492	02	01	01	09	00	0d
200	1,	1069:	DTE	1069	47.342408	0.162503	02	01	0e	ad	dd	9b
201	1,	1075:	DTE	1075	47.510431	0.157672	02	01	01	09	00	0d
202	1,	1081:	DTE	1081	47.679465	0.158505	02	01	0e	ad	ed	ab
203	1,	1087:	DTE	1087	47.848463	0.158480	02	01	01	09	00	0d
204	1,	1093:	DTE	1093	48.016511	0.157519	02	01	0e	00	00	11
205												
206	1,	1099:	DTE	1099	48.185597	0.158557	02	01	01	00	00	04
207												
208	1,	1105:	DTE	1105	48.354391	0.158263	02	01	0e	0f	0f	2f
209	1,	1111:	DTE	1111	48.522554	0.157456	02	01	01	02	00	06
210	1,	1117:	DTE	1117	48.691625	0.158557	02	01	0e	0f	0f	2f
211	1,	1123:	DTE	1123	48.860624	0.158466	02	01	01	08	00	0c
212	1,	1129:	DTE	1129	49.135637	0.264484	02	01	0e	0f	1e	3e
213	1,	1135:	DTE	1135	49.308708	0.162527	02	01	01	08	00	0c
214	1,	1141:	DTE	1141	49.476704	0.157463	02	01	0e	0f	0f	2f
215	1,	1147:	DTE	1147	49.645623	0.158400	02	01	01	08	00	0c
216	1,	1153:	DTE	1153	49.814856	0.158611	02	01	0e	0f	1e	3e
217	1,	1159:	DTE	1159	49.982773	0.157401	02	01	01	08	00	0c
218	1,	1165:	DTE	1165	50.151782	0.158647	02	01	0e	0f	2d	4d
219	1,	1171:	DTE	1171	50.320793	0.158494	02	01	01	08	00	0c
220	1,	1177:	DTE	1177	50.488840	0.157517	02	01	0e	0f	3f	5f
221	1,	1183:	DTE	1183	50.661861	0.162503	02	01	01	08	00	0c
222	1,	1189:	DTE	1189	50.830936	0.158544	02	01	0e	0f	4f	6f
223	1,	1195:	DTE	1195	50.998901	0.157433	02	01	01	08	00	0c
224	1,	1201:	DTE	1201	51.167970	0.158548	02	01	0e	0f	5e	7e
225	1,	1207:	DTE	1207	51.336964	0.158465	02	01	01	08	00	0c
226	1,	1213:	DTE	1213	51.633009	0.285525	02	01	0e	0f	6d	8d
227	1,	1219:	DTE	1219	51.802002	0.158465	02	01	01	08	00	0c
228	1,	1225:	DTE	1225	51.971015	0.158481	02	01	0e	0f	7f	9f
229	1,	1231:	DTE	1231	52.139047	0.157502	02	01	01	08	00	0c
230	1,	1237:	DTE	1237	52.308070	0.158491	02	01	0e	0f	8e	ae
231	1,	1243:	DTE	1243	52.477111	0.158509	02	01	01	08	00	0c
232	1,	1249:	DTE	1249	52.645142	0.157502	02	01	0e	0f	9e	be
233	1,	1255:	DTE	1255	52.814516	0.158856	02	01	01	08	00	0c
234	1,	1261:	DTE	1261	52.982172	0.157098	02	01	0e	0f	ad	cd
235	1,	1267:	DTE	1267	53.151197	0.158493	02	01	01	08	00	0c
236	1,	1273:	DTE	1273	53.318227	0.156498	02	01	0e	0f	bf	df
237	1,	1279:	DTE	1279	53.488319	0.159560	02	01	01	08	00	0c
238	1,	1285:	DTE	1285	53.657251	0.158415	02	01	0e	0f	ce	ee
239	1,	1291:	DTE	1291	53.825286	0.157504	02	01	01	08	00	0c
240	1,	1297:	DTE	1297	53.994309	0.158507	02	01	0e	0f	dd	fd
241	1,	1303:	DTE	1303	54.167329	0.162490	02	01	01	08	00	0c
242	1,	1309:	DTE	1309	54.336340	0.158480	02	01	0e	0f	ed	0d

243	1,	1315:	DTE	1315	54.504388	0.157517	02	01	01	08	00	0c
244	1,	1321:	DTE	1321	54.673397	0.158479	02	01	0e	00	00	11
245												
246	1,	1327:	DTE	1327	54.841756	0.157829	02	01	01	00	00	04
247												
248	1,	1333:	DTE	1333	56.646679	1.794391	02	01	0e	4f	0f	6f
249	1,	1339:	DTE	1339	56.818684	0.161595	02	01	01	02	00	06
250	1,	1345:	DTE	1345	56.987568	0.158353	02	01	0e	0f	0f	2f
251	1,	1351:	DTE	1351	57.156744	0.158507	02	01	01	02	00	06
252	1,	1357:	DTE	1357	57.747827	0.580565	02	01	0e	1e	0f	3e
253	1,	1363:	DTE	1363	57.915830	0.157488	02	01	01	02	00	06
254	1,	1369:	DTE	1369	58.084855	0.158560	02	01	0e	1e	0f	3e
255	1,	1375:	DTE	1375	58.253879	0.158492	02	01	01	0a	00	0e
256	1,	1381:	DTE	1381	58.614922	0.350513	02	01	0e	1e	0f	3e
257	1,	1387:	DTE	1387	58.782967	0.157515	02	01	01	02	00	06
258	1,	1393:	DTE	1393	59.015976	0.222490	02	01	0e	1e	0f	3e
259	1,	1399:	DTE	1399	59.185001	0.158496	02	01	01	0a	00	0e
260	1,	1405:	DTE	1405	59.353046	0.157516	02	01	0e	1e	1e	4d
261	1,	1411:	DTE	1411	59.522059	0.158659	02	01	01	0a	00	0e
262	1,	1417:	DTE	1417	59.691105	0.158526	02	01	0e	1e	2d	5c
263	1,	1423:	DTE	1423	59.863085	0.161620	02	01	01	0a	00	0e
264	1,	1429:	DTE	1429	60.032209	0.158593	02	01	0e	2d	2d	6b
265	1,	1435:	DTE	1435	60.201157	0.158440	02	01	01	0a	00	0e
266	1,	1441:	DTE	1441	60.373010	0.161322	02	01	0e	3f	2d	7d
267	1,	1447:	DTE	1447	60.542187	0.158493	02	01	01	0a	00	0e
268	1,	1453:	DTE	1453	60.711222	0.158530	02	01	0e	3f	3f	8f
269	1,	1459:	DTE	1459	60.879231	0.157491	02	01	01	0a	00	0e
270	1,	1465:	DTE	1465	61.048306	0.158545	02	01	0e	4f	3f	9f
271	1,	1471:	DTE	1471	61.217303	0.158480	02	01	01	0a	00	0e
272	1,	1477:	DTE	1477	61.385325	0.157490	02	01	0e	4f	4f	af
273	1,	1483:	DTE	1483	61.554328	0.158473	02	01	01	0a	00	0e
274	1,	1489:	DTE	1489	61.723343	0.158516	02	01	0e	5e	4f	be
275	1,	1495:	DTE	1495	61.895468	0.161591	02	01	01	0a	00	0e
276	1,	1501:	DTE	1501	62.064412	0.158412	02	01	0e	5e	5e	cd
277	1,	1507:	DTE	1507	62.233424	0.158543	02	01	01	0a	00	0e
278	1,	1513:	DTE	1513	62.403449	0.159509	02	01	0e	6d	5e	dc
279	1,	1519:	DTE	1519	62.572473	0.158494	02	01	01	0a	00	0e
280	1,	1525:	DTE	1525	62.739489	0.156485	02	01	0e	6d	6d	eb
281	1,	1531:	DTE	1531	62.907524	0.157503	02	01	01	0a	00	0e
282	1,	1537:	DTE	1537	63.076566	0.158511	02	01	0e	6d	7f	fd
283	1,	1543:	DTE	1543	63.244582	0.157657	02	01	01	0a	00	0e
284	1,	1549:	DTE	1549	63.413594	0.158481	02	01	0e	7f	7f	0f
285	1,	1555:	DTE	1555	63.581614	0.157491	02	01	01	0a	00	0e
286	1,	1561:	DTE	1561	63.750637	0.158490	02	01	0e	7f	8e	1e
287	1,	1567:	DTE	1567	63.919659	0.158491	02	01	01	0a	00	0e
288	1,	1573:	DTE	1573	64.087691	0.157477	02	01	0e	7f	9e	2e
289	1,	1579:	DTE	1579	64.256756	0.158557	02	01	01	0a	00	0e
290	1,	1585:	DTE	1585	64.425703	0.158428	02	01	0e	7f	ad	3d
291	1,	1591:	DTE	1591	64.593748	0.157516	02	01	01	0a	00	0e
292	1,	1597:	DTE	1597	64.762759	0.158492	02	01	0e	8e	ad	4c
293	1,	1603:	DTE	1603	64.931819	0.158529	02	01	01	0a	00	0e
294	1,	1609:	DTE	1609	65.099816	0.157464	02	01	0e	8e	bf	5e
295	1,	1615:	DTE	1615	65.272850	0.162516	02	01	01	0a	00	0e
296	1,	1621:	DTE	1621	65.441684	0.158316	02	01	0e	9e	bf	6e
297	1,	1627:	DTE	1627	65.609903	0.157524	02	01	01	0a	00	0e
298	1,	1633:	DTE	1633	65.778904	0.158492	02	01	0e	9e	ce	7d
299	1,	1639:	DTE	1639	65.947929	0.158505	02	01	01	0a	00	0e
300	1,	1645:	DTE	1645	66.115935	0.157476	02	01	0e	ad	ce	8c
301	1,	1651:	DTE	1651	66.284999	0.158533	02	01	01	0a	00	0e
302	1,	1657:	DTE	1657	66.458021	0.162491	02	01	0e	ad	dd	9b
303	1,	1663:	DTE	1663	66.626028	0.157477	02	01	01	0a	00	0e
304	1,	1669:	DTE	1669	66.795049	0.158491	02	01	0e	bf	dd	ad
305	1,	1675:	DTE	1675	66.964062	0.158481	02	01	01	0a	00	0e
306	1,	1681:	DTE	1681	67.132103	0.157641	02	01	0e	bf	ed	bd
307	1,	1687:	DTE	1687	67.301106	0.158646	02	01	01	0a	00	0e
308	1,	1693:	DTE	1693	67.470131	0.158494	02	01	0e	ce	ed	cc
309	1,	1699:	DTE	1699	67.638165	0.157520	02	01	01	0a	00	0e
310	1,	1705:	DTE	1705	67.807160	0.158466	02	01	0e	ed	ed	eb
311	1,	1711:	DTE	1711	67.976208	0.158517	02	01	01	0a	00	0e
312	1,	1717:	DTE	1717	68.148268	0.161540	02	01	0e	00	00	11
313												
314	1,	1723:	DTE	1723	68.321261	0.162625	02	01	01	00	00	04

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387	1,	2143:	DTE	2143	81.267004	0.158505	02	01	01	06	00	0a
388	1,	2149:	DTE	2149	81.436028	0.158506	02	01	0e	9e	8e	3d
389	1,	2155:	DTE	2155	81.604049	0.157491	02	01	01	06	00	0a
390	1,	2161:	DTE	2161	81.773068	0.158490	02	01	0e	9e	9e	4d
391	1,	2167:	DTE	2167	81.942187	0.158599	02	01	01	06	00	0a
392	1,	2173:	DTE	2173	82.110140	0.157422	02	01	0e	ad	9e	5c
393	1,	2179:	DTE	2179	82.279140	0.158480	02	01	01	06	00	0a
394	1,	2185:	DTE	2185	82.447148	0.157478	02	01	0e	ad	ad	6b
395	1,	2191:	DTE	2191	82.616170	0.158492	02	01	01	06	00	0a
396	1,	2197:	DTE	2197	82.785195	0.158494	02	01	0e	ad	bf	7d
397	1,	2203:	DTE	2203	82.953239	0.157514	02	01	01	06	00	0a
398	1,	2209:	DTE	2209	83.122265	0.158506	02	01	0e	bf	bf	8f
399	1,	2215:	DTE	2215	83.290274	0.157479	02	01	01	06	00	0a
400	1,	2221:	DTE	2221	83.459309	0.158507	02	01	0e	ce	bf	9e
401	1,	2227:	DTE	2227	83.628358	0.158518	02	01	01	06	00	0a
402	1,	2233:	DTE	2233	83.796365	0.157477	02	01	0e	ce	ce	ad
403	1,	2239:	DTE	2239	83.965362	0.158478	02	01	01	06	00	0a
404	1,	2245:	DTE	2245	84.134400	0.158506	02	01	0e	ce	dd	bc
405	1,	2251:	DTE	2251	84.302408	0.157478	02	01	01	06	00	0a
406	1,	2257:	DTE	2257	84.471457	0.158518	02	01	0e	dd	dd	cb
407	1,	2263:	DTE	2263	84.640494	0.158506	02	01	01	06	00	0a
408	1,	2269:	DTE	2269	84.808488	0.157463	02	01	0e	dd	ed	db
409	1,	2275:	DTE	2275	84.977523	0.158517	02	01	01	06	00	0a
410	1,	2281:	DTE	2281	85.146521	0.158415	02	01	0e	ed	ed	eb
411	1,	2287:	DTE	2287	85.318346	0.161305	02	01	01	06	00	0a
412	1,	2293:	DTE	2293	85.491613	0.162567	02	01	0e	00	00	11
413												
414	1,	2299:	DTE	2299	85.660599	0.158468	02	01	01	00	00	04
415												
416	1,	2305:	DTE	2305	87.891924	2.220961	02	01	0e	1e	0f	3e
417	1,	2311:	DTE	2311	88.060923	0.158479	02	01	01	02	00	06
418	1,	2317:	DTE	2317	88.228932	0.157478	02	01	0e	0f	0f	2f
419	1,	2323:	DTE	2323	88.397967	0.158564	02	01	01	04	00	08
420	1,	2329:	DTE	2329	89.015039	0.606708	02	01	0e	0f	1e	3e
421	1,	2335:	DTE	2335	89.183907	0.158339	02	01	01	04	00	08
422	1,	2341:	DTE	2341	89.967200	0.772594	02	01	0e	0f	2d	4d
423	1,	2347:	DTE	2347	90.136198	0.158468	02	01	01	04	00	08
424	1,	2353:	DTE	2353	90.347225	0.200498	02	01	0e	0f	3f	5f
425	1,	2359:	DTE	2359	90.516276	0.158688	02	01	01	04	00	08
426	1,	2365:	DTE	2365	90.684310	0.157671	02	01	0e	0f	4f	6f
427	1,	2371:	DTE	2371	90.853321	0.158494	02	01	01	04	00	08
428	1,	2377:	DTE	2377	91.030325	0.166488	02	01	0e	0f	5e	7e
429	1,	2383:	DTE	2383	91.199361	0.158506	02	01	01	04	00	08
430	1,	2389:	DTE	2389	91.368370	0.158479	02	01	0e	0f	6d	8d
431	1,	2395:	DTE	2395	91.536406	0.157502	02	01	01	04	00	08
432	1,	2401:	DTE	2401	91.709414	0.162492	02	01	0e	0f	7f	9f
433	1,	2407:	DTE	2407	91.879048	0.159118	02	01	01	04	00	08
434	1,	2413:	DTE	2413	92.174478	0.284899	02	01	0e	0f	8e	ae
435	1,	2419:	DTE	2419	92.343552	0.158543	02	01	01	04	00	08
436	1,	2425:	DTE	2425	92.511550	0.157480	02	01	0e	0f	9e	be
437	1,	2431:	DTE	2431	92.680597	0.158520	02	01	01	04	00	08
438	1,	2437:	DTE	2437	92.849568	0.158440	02	01	0e	0f	ad	cd
439	1,	2443:	DTE	2443	93.017590	0.157489	02	01	01	04	00	08
440	1,	2449:	DTE	2449	93.186600	0.158480	02	01	0e	0f	bf	df
441	1,	2455:	DTE	2455	93.355610	0.158479	02	01	01	04	00	08
442	1,	2461:	DTE	2461	93.523672	0.157543	02	01	0e	0f	ce	ee
443	1,	2467:	DTE	2467	93.692681	0.158479	02	01	01	04	00	08
444	1,	2473:	DTE	2473	93.865714	0.162502	02	01	0e	0f	dd	fd
445	1,	2479:	DTE	2479	94.033736	0.157504	02	01	01	04	00	08
446	1,	2485:	DTE	2485	94.202772	0.158518	02	01	0e	0f	ed	0d
447	1,	2491:	DTE	2491	94.371833	0.158531	02	01	01	04	00	08
448	1,	2497:	DTE	2497	94.842837	0.460472	02	01	0e	00	00	11
449												
450	1,	2503:	DTE	2503	95.011860	0.158493	02	01	01	00	00	04
451												
452	1,	2509:	DTE	2509	98.810404	3.788145	02	01	01	20	00	24
453	1,	2515:	DTE	2515	100.855259	2.034327	02	01	01	00	00	04
454												
455	1,	2521:	DTE	2521	103.644283	2.778492	02	01	01	10	00	14
456	1,	2527:	DTE	2527	105.911353	2.256679	02	01	01	00	00	04
457												
458	1,	2533:	DTE	2533	109.622837	3.700954	02	01	01	00	01	05

```

459      1,      2539: DTE      2539      111.899205      2.265934 02 01 01 00 00 04
460
461      1,      2545: DTE      2545      114.011432      2.101711 02 01 01 00 02 06
462      1,      2551: DTE      2551      116.263735      2.241775 02 01 01 00 00 04
463
464      1,      2557: DTE      2557      120.054256      3.779990 02 01 01 80 00 84
465      1,      2563: DTE      2563      122.729672      2.664899 02 01 01 00 00 04
466
467      1,      2569: DTE      2569      125.221979      2.481776 02 01 01 40 00 44
468      1,      2575: DTE      2575      127.078210      1.845715 02 01 01 00 00 04
469
470      1,      2581: DTE      2581      133.157394      6.068663 02 01 02 01 06
471      1,      2586: DTE      2586      137.848670      4.682856 02 01 05 01 09
472
473      1,      2591: DTE      2591      145.777757      7.920667 02 01 02 80 85
474      1,      2596: DTE      2596      151.028459      5.242282 02 01 05 80 88
475
476      There were a total of      2600 bytes transferred
477
478      There were a total of      0 DCE bytes transferred
479      The first DCE byte came in at 0.000000 seconds from the start of data collection
480      The last DCE byte was at 0.000000 seconds from the start of data collection
481
482      There were a total of      2600 DTE bytes transferred
483      The first DTE byte came in at 0.000000 seconds from the start of data collection
484      The last DTE byte was at 151.036881 seconds from the start of data collection
485
486

```

3.13 Ganz

This data was collected from a an Integral Technologies, DS XPress DVR on 19DEC07.

1. Baud: **4800**
2. Hello Message: **No**
3. Minimum Camera Address: **1**
4. Maximum Camera Address: **999**
5. Minimum Preset Number: **1**
6. Maximum Preset Number: **255**
7. Do we have an “official” protocol document? **No**
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: _____.

3.13.1 19DEC07N.out

```

1  Integral Technologies DS XPress DVR
2  DTE = From the DVR
3  DCE = nothing, no dome was attached
4  4800 baud
5  No parity
6  Ganz
7
8
9  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
10 $Header: d:/1stLooks/Combined/RCS/19DEC07N.out,v 1.2 2007-12-19 12:35:32-08 Hamilton Exp Hamilton $
11 FTS capture buffer (12/19/2007 8:02:47 AM)
12 Event 1 (12/19/2007 7:59:44.905458 AM) through
13 Event 1,638 (12/19/2007 8:02:22.267418 AM)
14
15
16      1,      1: DTE      1      0.000000  0.000000 f1 00 00 02 08 00 04
17      1,      8: DTE      8      0.417097  0.404471 f1 00 00 02 01 00 0d
18      1,     15: DTE     15      1.230157  0.800434 f1 00 00 02 01 00 0d
19
20      1,     22: DTE     22      3.624506  2.381711 f1 00 00 02 01 00 0d
21
22      1,     29: DTE     29      5.330730  1.693586 f1 00 00 02 01 00 0d
23      1,     36: DTE     36      5.994818  0.651462 f1 00 00 02 01 00 0d
24
25      1,     43: DTE     43      7.021952  1.014510 f1 00 00 02 01 01 0c
26
27      1,     50: DTE     50      8.083086  1.048507 f1 00 00 02 01 01 0c
28      1,     57: DTE     57      9.046236  0.950512 f1 00 00 02 01 01 0c

```

¹⁵\$Header: d:/1stLooks/Combined/RCS/DSXgan.inc,v 1.2 2007-12-31 09:06:36-08 Hamilton Exp Hamilton \$

29	1,	64:	DTE	64	9.667330	0.608468	f1	00	00	02	01	01	0c
30	1,	71:	DTE	71	10.105391	0.425433	f1	00	00	02	01	01	0c
31	1,	78:	DTE	78	10.393410	0.275394	f1	00	00	02	01	01	0c
32	1,	85:	DTE	85	10.886304	0.480267	f1	00	00	02	01	01	0c
33	1,	92:	DTE	92	11.336535	0.437437	f1	00	00	02	01	01	0c
34	1,	99:	DTE	99	11.689568	0.340406	f1	00	00	02	01	01	0c
35	1,	106:	DTE	106	11.857603	0.155406	f1	00	00	02	01	02	0f
36	1,	113:	DTE	113	12.124648	0.254419	f1	00	00	02	01	02	0f
37	1,	120:	DTE	120	12.532687	0.395412	f1	00	00	02	01	02	0f
38	1,	127:	DTE	127	12.841743	0.296409	f1	00	00	02	01	02	0f
39	1,	134:	DTE	134	13.138840	0.284469	f1	00	00	02	01	02	0f
40	1,	141:	DTE	141	13.973906	0.822428	f1	00	00	02	00	00	0c
41	1,	148:	DTE	148	14.244933	0.258401	f1	00	00	02	c0	80	4c
42													
43	1,	155:	DTE	155	18.765560	4.508000	f1	00	00	02	01	00	0d
44	1,	162:	DTE	162	19.741680	0.963496	f1	00	00	02	05	00	09
45	1,	169:	DTE	169	20.123603	0.369297	f1	00	00	02	05	00	09
46	1,	176:	DTE	176	20.531773	0.395424	f1	00	00	02	05	00	09
47	1,	183:	DTE	183	21.152876	0.608635	f1	00	00	02	05	00	09
48	1,	190:	DTE	190	21.492929	0.327593	f1	00	00	02	05	00	09
49	1,	197:	DTE	197	21.681937	0.176361	f1	00	00	02	05	00	09
50	1,	204:	DTE	204	22.069062	0.374485	f1	00	00	02	05	00	09
51	1,	211:	DTE	211	22.272029	0.190329	f1	00	00	02	05	01	08
52	1,	218:	DTE	218	22.752082	0.467413	f1	00	00	02	05	01	08
53	1,	225:	DTE	225	23.147212	0.382490	f1	00	00	02	05	01	08
54	1,	232:	DTE	232	23.315206	0.155367	f1	00	00	02	05	01	08
55	1,	239:	DTE	239	23.689231	0.361397	f1	00	00	02	05	01	08
56	1,	246:	DTE	246	23.943242	0.241372	f1	00	00	02	05	01	08
57	1,	253:	DTE	253	24.799359	0.843478	f1	00	00	02	05	05	0c
58	1,	260:	DTE	260	25.024451	0.212451	f1	00	00	02	05	05	0c
59	1,	267:	DTE	267	25.341457	0.304367	f1	00	00	02	05	05	0c
60	1,	274:	DTE	274	26.155547	0.801464	f1	00	00	02	05	05	0c
61	1,	281:	DTE	281	26.328567	0.160383	f1	00	00	02	05	06	0f
62	1,	288:	DTE	288	26.561600	0.220502	f1	00	00	02	05	06	0f
63	1,	295:	DTE	295	26.964673	0.390447	f1	00	00	02	05	06	0f
64	1,	302:	DTE	302	27.389711	0.412411	f1	00	00	02	05	06	0f
65	1,	309:	DTE	309	27.707759	0.305420	f1	00	00	02	05	06	0f
66	1,	316:	DTE	316	27.875817	0.155433	f1	00	00	02	05	0a	03
67	1,	323:	DTE	323	28.044826	0.156395	f1	00	00	02	05	0a	03
68	1,	330:	DTE	330	28.213838	0.156397	f1	00	00	02	05	0a	03
69	1,	337:	DTE	337	28.403865	0.177400	f1	00	00	02	05	0a	03
70	1,	344:	DTE	344	29.024961	0.608623	f1	00	00	02	00	00	0c
71	1,	351:	DTE	351	29.295964	0.258379	f1	00	00	02	c0	80	4c
72													
73	1,	358:	DTE	358	32.505390	3.196801	f1	00	00	02	10	00	1c
74													
75	1,	365:	DTE	365	33.665557	1.147542	f1	00	00	02	04	00	08
76	1,	372:	DTE	372	34.500704	0.822506	f1	00	00	02	04	00	08
77	1,	379:	DTE	379	34.831729	0.318402	f1	00	00	02	04	00	08
78	1,	386:	DTE	386	35.635842	0.791486	f1	00	00	02	04	00	08
79	1,	393:	DTE	393	35.817863	0.169404	f1	00	00	02	04	00	08
80	1,	400:	DTE	400	36.084894	0.254392	f1	00	00	02	04	04	0c
81													
82	1,	407:	DTE	407	37.103033	1.005500	f1	00	00	02	04	04	0c
83	1,	414:	DTE	414	37.306063	0.190391	f1	00	00	02	04	04	0c
84	1,	421:	DTE	421	37.582106	0.263581	f1	00	00	02	04	04	0c
85	1,	428:	DTE	428	38.074164	0.479417	f1	00	00	02	04	04	0c
86	1,	435:	DTE	435	38.362199	0.275395	f1	00	00	02	04	08	00
87	1,	442:	DTE	442	38.779255	0.404431	f1	00	00	02	04	08	00
88	1,	449:	DTE	449	39.165323	0.373439	f1	00	00	02	04	08	00
89	1,	456:	DTE	456	39.462355	0.284406	f1	00	00	02	04	08	00
90	1,	463:	DTE	463	40.019426	0.544445	f1	00	00	02	04	08	00
91	1,	470:	DTE	470	40.683526	0.651452	f1	00	00	02	00	00	0c
92	1,	477:	DTE	477	40.950532	0.254367	f1	00	00	02	c0	80	4c
93													
94	1,	484:	DTE	484	43.406871	2.443714	f1	00	00	02	10	00	1c
95	1,	491:	DTE	491	43.952966	0.533466	f1	00	00	02	04	00	08
96	1,	498:	DTE	498	44.638072	0.672467	f1	00	00	02	06	00	0a
97	1,	505:	DTE	505	45.076118	0.425422	f1	00	00	02	06	00	0a
98	1,	512:	DTE	512	45.245140	0.156384	f1	00	00	02	06	00	0a
99	1,	519:	DTE	519	45.661209	0.403441	f1	00	00	02	06	00	0a
100	1,	526:	DTE	526	46.048240	0.374406	f1	00	00	02	06	00	0a

101	1,	533:	DTE	533	46.212250	0.151362	f1	00	00	02	06	00	0a
102	1,	540:	DTE	540	46.381309	0.156420	f1	00	00	02	06	00	0a
103	1,	547:	DTE	547	46.549331	0.155405	f1	00	00	02	06	00	0a
104	1,	554:	DTE	554	46.718356	0.156397	f1	00	00	02	06	01	0b
105	1,	561:	DTE	561	46.887366	0.156370	f1	00	00	02	06	01	0b
106	1,	568:	DTE	568	47.055388	0.155394	f1	00	00	02	06	05	0f
107	1,	575:	DTE	575	47.591444	0.523430	f1	00	00	02	06	05	0f
108	1,	582:	DTE	582	47.760466	0.156396	f1	00	00	02	06	05	0f
109	1,	589:	DTE	589	47.929503	0.156377	f1	00	00	02	06	05	0f
110	1,	596:	DTE	596	48.097522	0.155560	f1	00	00	02	06	05	0f
111	1,	603:	DTE	603	48.415569	0.305418	f1	00	00	02	06	05	0f
112	1,	610:	DTE	610	48.584526	0.156330	f1	00	00	02	06	05	0f
113	1,	617:	DTE	617	48.751637	0.154430	f1	00	00	02	06	05	0f
114	1,	624:	DTE	624	48.921639	0.157375	f1	00	00	02	06	05	0f
115	1,	631:	DTE	631	49.094646	0.160369	f1	00	00	02	06	06	0c
116	1,	638:	DTE	638	49.263680	0.156563	f1	00	00	02	06	06	0c
117	1,	645:	DTE	645	49.487704	0.211397	f1	00	00	02	06	06	0c
118	1,	652:	DTE	652	49.980791	0.480446	f1	00	00	02	06	06	0c
119	1,	659:	DTE	659	50.148799	0.155382	f1	00	00	02	06	06	0c
120	1,	666:	DTE	666	50.317900	0.156462	f1	00	00	02	06	0a	00
121	1,	673:	DTE	673	50.486844	0.156317	f1	00	00	02	06	0a	00
122	1,	680:	DTE	680	50.688863	0.189377	f1	00	00	02	06	0a	00
123	1,	687:	DTE	687	50.857798	0.156295	f1	00	00	02	06	0a	00
124	1,	694:	DTE	694	51.069919	0.199326	f1	00	00	02	00	00	0c
125	1,	701:	DTE	701	51.338994	0.256450	f1	00	00	02	c0	80	4c
126													
127	1,	708:	DTE	708	53.209204	1.857584	f1	00	00	02	08	00	04
128	1,	715:	DTE	715	54.193396	0.971554	f1	00	00	02	02	00	0e
129	1,	722:	DTE	722	54.361363	0.155341	f1	00	00	02	02	00	0e
130	1,	729:	DTE	729	55.196482	0.822479	f1	00	00	02	02	00	0e
131	1,	736:	DTE	736	55.668902	0.459781	f1	00	00	02	02	00	0e
132	1,	743:	DTE	743	55.956418	0.274875	f1	00	00	02	02	00	0e
133	1,	750:	DTE	750	56.189632	0.220407	f1	00	00	02	02	01	0f
134	1,	757:	DTE	757	56.464659	0.262400	f1	00	00	02	02	01	0f
135	1,	764:	DTE	764	56.633681	0.156382	f1	00	00	02	02	01	0f
136	1,	771:	DTE	771	57.084736	0.438582	f1	00	00	02	02	01	0f
137	1,	778:	DTE	778	57.338161	0.240785	f1	00	00	02	02	01	0f
138	1,	785:	DTE	785	57.639816	0.289029	f1	00	00	02	02	02	0c
139	1,	792:	DTE	792	57.808836	0.156395	f1	00	00	02	02	02	0c
140	1,	799:	DTE	799	58.215884	0.394408	f1	00	00	02	02	02	0c
141	1,	806:	DTE	806	58.383902	0.155507	f1	00	00	02	02	02	0c
142	1,	813:	DTE	813	58.552952	0.156409	f1	00	00	02	02	02	0c
143	1,	820:	DTE	820	59.239060	0.673482	f1	00	00	02	00	00	0c
144	1,	827:	DTE	827	59.510082	0.258397	f1	00	00	02	c0	80	4c
145													
146	1,	834:	DTE	834	61.250296	1.727596	f1	00	00	02	08	00	04
147	1,	841:	DTE	841	61.999490	0.736722	f1	00	00	02	08	00	04
148	1,	848:	DTE	848	62.612498	0.600369	f1	00	00	02	0a	00	06
149	1,	855:	DTE	855	62.781506	0.156550	f1	00	00	02	0a	00	06
150	1,	862:	DTE	862	63.261573	0.467440	f1	00	00	02	0a	00	06
151	1,	869:	DTE	869	63.432600	0.158401	f1	00	00	02	0a	00	06
152	1,	876:	DTE	876	63.624617	0.179377	f1	00	00	02	0a	00	06
153	1,	883:	DTE	883	63.793656	0.156411	f1	00	00	02	0a	00	06
154	1,	890:	DTE	890	63.962500	0.156209	f1	00	00	02	0a	00	06
155	1,	897:	DTE	897	64.134695	0.159404	f1	00	00	02	0a	01	07
156	1,	904:	DTE	904	64.303720	0.156383	f1	00	00	02	0a	01	07
157	1,	911:	DTE	911	64.472715	0.156370	f1	00	00	02	0a	01	07
158	1,	918:	DTE	918	64.640777	0.155420	f1	00	00	02	0a	01	07
159	1,	925:	DTE	925	65.313863	0.660460	f1	00	00	02	0a	01	07
160	1,	932:	DTE	932	65.494879	0.168390	f1	00	00	02	0a	05	03
161	1,	939:	DTE	939	65.663902	0.156396	f1	00	00	02	0a	05	03
162	1,	946:	DTE	946	65.831936	0.155408	f1	00	00	02	0a	05	03
163	1,	953:	DTE	953	66.000960	0.156397	f1	00	00	02	0a	05	03
164	1,	960:	DTE	960	66.168980	0.155393	f1	00	00	02	0a	05	03
165	1,	967:	DTE	967	66.338002	0.156384	f1	00	00	02	0a	05	03
166	1,	974:	DTE	974	66.507028	0.156398	f1	00	00	02	0a	06	00
167	1,	981:	DTE	981	66.675035	0.155369	f1	00	00	02	0a	06	00
168	1,	988:	DTE	988	66.985088	0.297426	f1	00	00	02	0a	06	00
169	1,	995:	DTE	995	67.273146	0.275432	f1	00	00	02	0a	06	00
170	1,	1002:	DTE	1002	67.442156	0.156369	f1	00	00	02	0a	06	00
171	1,	1009:	DTE	1009	67.611142	0.156345	f1	00	00	02	0a	0a	0c
172	1,	1016:	DTE	1016	67.783185	0.159416	f1	00	00	02	0a	0a	0c

173	1,	1023:	DTE	1023	67.956205	0.160394	f1	00	00	02	0a	0a	0c
174	1,	1030:	DTE	1030	68.168253	0.199587	f1	00	00	02	0a	0a	0c
175	1,	1037:	DTE	1037	68.908358	0.727482	f1	00	00	02	00	00	0c
176	1,	1044:	DTE	1044	69.180387	0.259405	f1	00	00	02	c0	80	4c
177													
178	1,	1051:	DTE	1051	71.142639	1.949627	f1	00	00	02	08	04	00
179	1,	1058:	DTE	1058	71.310673	0.155396	f1	00	00	02	08	00	04
180	1,	1065:	DTE	1065	71.897744	0.574430	f1	00	00	02	08	00	04
181	1,	1072:	DTE	1072	72.214774	0.304392	f1	00	00	02	08	00	04
182	1,	1079:	DTE	1079	72.688850	0.461450	f1	00	00	02	08	00	04
183	1,	1086:	DTE	1086	73.061936	0.360447	f1	00	00	02	08	04	00
184	1,	1093:	DTE	1093	73.337953	0.263377	f1	00	00	02	08	04	00
185	1,	1100:	DTE	1100	73.595985	0.245406	f1	00	00	02	08	04	00
186	1,	1107:	DTE	1107	74.055048	0.446423	f1	00	00	02	08	04	00
187	1,	1114:	DTE	1114	74.953432	0.885758	f1	00	00	02	08	04	00
188	1,	1121:	DTE	1121	75.340217	0.374158	f1	00	00	02	08	08	0c
189	1,	1128:	DTE	1128	76.080335	0.727483	f1	00	00	02	08	08	0c
190	1,	1135:	DTE	1135	76.646428	0.553631	f1	00	00	02	08	08	0c
191	1,	1142:	DTE	1142	77.195500	0.536446	f1	00	00	02	08	08	0c
192	1,	1149:	DTE	1149	77.633523	0.425393	f1	00	00	02	08	08	0c
193	1,	1156:	DTE	1156	78.190595	0.544436	f1	00	00	02	00	00	0c
194	1,	1163:	DTE	1163	78.461661	0.258442	f1	00	00	02	c0	80	4c
195													
196	1,	1170:	DTE	1170	81.125007	2.650719	f1	00	00	02	08	04	00
197	1,	1177:	DTE	1177	81.383015	0.245366	f1	00	00	02	08	00	04
198	1,	1184:	DTE	1184	81.551938	0.156284	f1	00	00	02	09	00	05
199	1,	1191:	DTE	1191	81.720074	0.155396	f1	00	00	02	09	00	05
200	1,	1198:	DTE	1198	81.889107	0.156408	f1	00	00	02	09	00	05
201	1,	1205:	DTE	1205	82.250152	0.348403	f1	00	00	02	09	00	05
202	1,	1212:	DTE	1212	82.418170	0.155382	f1	00	00	02	09	00	05
203	1,	1219:	DTE	1219	82.587260	0.156450	f1	00	00	02	09	00	05
204	1,	1226:	DTE	1226	82.755216	0.155330	f1	00	00	02	09	04	01
205	1,	1233:	DTE	1233	82.924239	0.156383	f1	00	00	02	09	04	01
206	1,	1240:	DTE	1240	83.276284	0.339406	f1	00	00	02	09	05	00
207	1,	1247:	DTE	1247	83.445306	0.156382	f1	00	00	02	09	05	00
208	1,	1254:	DTE	1254	83.614330	0.156384	f1	00	00	02	09	05	00
209	1,	1261:	DTE	1261	83.782351	0.155381	f1	00	00	02	09	05	00
210	1,	1268:	DTE	1268	83.952767	0.157768	f1	00	00	02	09	05	00
211	1,	1275:	DTE	1275	84.120450	0.155046	f1	00	00	02	09	05	00
212	1,	1282:	DTE	1282	84.288418	0.155342	f1	00	00	02	09	05	00
213	1,	1289:	DTE	1289	84.457454	0.156410	f1	00	00	02	09	05	00
214	1,	1296:	DTE	1296	84.625486	0.155404	f1	00	00	02	09	05	00
215	1,	1303:	DTE	1303	84.794513	0.156398	f1	00	00	02	09	06	03
216	1,	1310:	DTE	1310	84.967507	0.160367	f1	00	00	02	09	06	03
217	1,	1317:	DTE	1317	85.136570	0.156423	f1	00	00	02	09	0a	0f
218	1,	1324:	DTE	1324	85.304565	0.155480	f1	00	00	02	09	0a	0f
219	1,	1331:	DTE	1331	85.473588	0.156388	f1	00	00	02	09	0a	0f
220	1,	1338:	DTE	1338	85.642610	0.156397	f1	00	00	02	09	0a	0f
221	1,	1345:	DTE	1345	85.810631	0.155394	f1	00	00	02	09	0a	0f
222	1,	1352:	DTE	1352	85.979681	0.156422	f1	00	00	02	09	0a	0f
223													
224	1,	1359:	DTE	1359	89.360126	3.367972	f1	00	00	02	00	00	0c
225	1,	1366:	DTE	1366	89.631140	0.258391	f1	00	00	02	c0	80	4c
226													
227	1,	1373:	DTE	1373	95.052872	5.409260	f1	00	00	02	09	00	05
228	1,	1380:	DTE	1380	95.220969	0.155459	f1	00	00	02	01	00	0d
229	1,	1387:	DTE	1387	95.637976	0.404380	f1	00	00	02	01	00	0d
230	1,	1394:	DTE	1394	96.237038	0.586436	f1	00	00	02	01	00	0d
231	1,	1401:	DTE	1401	96.739120	0.489442	f1	00	00	02	01	00	0d
232													
233	1,	1408:	DTE	1408	97.950280	1.198519	f1	00	00	02	01	00	0d
234	1,	1415:	DTE	1415	98.336320	0.373401	f1	00	00	02	01	01	0c
235	1,	1422:	DTE	1422	98.590356	0.241421	f1	00	00	02	01	01	0c
236	1,	1429:	DTE	1429	98.955423	0.352440	f1	00	00	02	01	01	0c
237	1,	1436:	DTE	1436	99.180437	0.212375	f1	00	00	02	01	01	0c
238	1,	1443:	DTE	1443	99.348456	0.155382	f1	00	00	02	01	01	0c
239	1,	1450:	DTE	1450	99.538535	0.177439	f1	00	00	02	01	02	0f
240	1,	1457:	DTE	1457	99.976542	0.425382	f1	00	00	02	01	02	0f
241	1,	1464:	DTE	1464	100.683640	0.694472	f1	00	00	02	01	02	0f
242	1,	1471:	DTE	1471	101.163730	0.467453	f1	00	00	02	01	02	0f
243	1,	1478:	DTE	1478	101.409745	0.233389	f1	00	00	02	01	02	0f
244													

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245      1,      1485: DTE      1485      102.824941      1.402569 f1 00 00 02 00 00 0c
246      1,      1492: DTE      1492      103.095983      0.258418 f1 00 00 02 c0 80 4c
247
248      1,      1499: DTE      1499      107.356581      4.247973 f1 00 00 02 10 00 1c
249
250      1,      1506: DTE      1506      108.494718      1.125658 f1 00 00 02 00 00 0c
251      1,      1513: DTE      1513      108.765684      0.258340 f1 00 00 02 c0 80 4c
252
253      1,      1520: DTE      1520      111.480122      2.701645 f1 00 00 02 20 00 2c
254
255      1,      1527: DTE      1527      112.960317      1.467557 f1 00 00 02 00 00 0c
256      1,      1534: DTE      1534      113.231346      0.258402 f1 00 00 02 c0 80 4c
257
258      1,      1541: DTE      1541      116.355773      3.111801 f1 00 00 02 05 09 00
259
260      1,      1548: DTE      1548      119.975278      3.606866 f1 00 00 02 00 00 0c
261      1,      1555: DTE      1555      120.246292      0.258389 f1 00 00 02 c0 80 4c
262
263      1,      1562: DTE      1562      129.362541      9.103621 f1 00 00 02 06 09 03
264      1,      1569: DTE      1569      130.367672      0.992491 f1 00 00 02 00 00 0c
265      1,      1576: DTE      1576      130.634704      0.254394 f1 00 00 02 c0 80 4c
266      1,      1583: DTE      1583      131.222762      0.575421 f1 00 00 02 40 80 cc
267
268      1,      1590: DTE      1590      132.826016      1.590628 f1 00 00 02 00 80 8c
269      1,      1597: DTE      1597      134.596253      1.757609 f1 00 00 02 80 80 0c
270      1,      1604: DTE      1604      136.870574      2.261696 f1 00 00 02 00 80 8c
271
272      1,      1611: DTE      1611      142.292292      5.409092 f1 00 00 01 00 00 0f
273      1,      1618: DTE      1618      146.261821      3.956890 f1 00 00 01 40 00 4f
274
275      1,      1625: DTE      1625      153.079751      6.805302 f1 00 00 01 3e 03 32
276      1,      1632: DTE      1632      157.349321      4.257109 f1 00 00 01 7e 03 72
277
278 There were a total of      1638 bytes transferred
279
280 There were a total of      0 DCE bytes transferred
281 The first DCE byte came in at 0.000000 seconds from the start of data collection
282 The last DCE byte was at 0.000000 seconds from the start of data collection
283
284 There were a total of      1638 DTE bytes transferred
285 The first DTE byte came in at 0.000000 seconds from the start of data collection
286 The last DTE byte was at 157.361960 seconds from the start of data collection
287

```


3.14 Hernis

This data was collected from a an Integral Technologies, DS XPress DVR on 19DEC07.

1. Baud: **4800**
2. Hello Message: **No**
3. Minimum Camera Address: **1**
4. Maximum Camera Address: **1**
5. Minimum Preset Number: **0**
6. Maximum Preset Number: **0**
7. Do we have an “offical” protocol document? **No**

3.14.1 19DEC07M.out

```

1  Integral Technologies DS XPress DVR
2  DTE = From the DVR
3  DCE = nothing, no dome was attached
4  4800 baud
5  No parity
6  Hernis
7
8
9  $ Id: MakeSecs.l,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
10 $Header: d:/1stLooks/Combined/RCS/19DEC07M.out,v 1.2 2007-12-19 12:35:32-08 Hamilton Exp Hamilton $
11 FTS capture buffer (12/19/2007 7:58:10 AM)
12 Event 1 (12/19/2007 7:55:17.506241 AM) through
13 Event 1,750 (12/19/2007 7:57:18.109014 AM)
14
15
16      1,      1: DTE      1      0.000000  0.000000 02 46
17      1,      3: DTE      3      0.004201  0.002110 02 48 03
18      1,      6: DTE      6      0.010515  0.002095 02 46
19      1,      8: DTE      8      0.014735  0.002110 02 48 03
20      1,     11: DTE     11      0.173060  0.154120 02 48 03
21      1,     14: DTE     14      0.179370  0.002097 02 48 03
22      1,     17: DTE     17      0.738099  0.554509 02 48 03
23      1,     20: DTE     20      0.744410  0.002111 02 48 03
24      1,     23: DTE     23      1.432174  0.683545 02 48 03
25      1,     26: DTE     26      1.438485  0.002096 02 48 03
26      1,     29: DTE     29      1.601197  0.158494 02 48 03
27      1,     32: DTE     32      1.607508  0.002110 02 48 03
28      1,     35: DTE     35      1.769205  0.157547 02 48 03
29      1,     38: DTE     38      1.775530  0.002109 02 48 03
30      1,     41: DTE     41      2.058279  0.278544 02 48 03
31      1,     44: DTE     44      2.064591  0.002263 02 48 03
32      1,     47: DTE     47      2.282277  0.213565 02 48 03
33      1,     50: DTE     50      2.288589  0.002097 02 48 03
34      1,     53: DTE     53      2.450325  0.157685 02 48 03
35      1,     56: DTE     56      2.456636  0.002109 02 48 03
36      1,     59: DTE     59      2.619407  0.158565 02 48 03
37      1,     62: DTE     62      2.625673  0.002264 02 48 03
38      1,     65: DTE     65      2.800376  0.170486 02 48 03
39      1,     68: DTE     68      2.806687  0.002108 02 48 03
40      1,     71: DTE     71      3.272436  0.461530 02 48 03
41      1,     74: DTE     74      3.278745  0.002110 02 48 03
42      1,     77: DTE     77      3.774531  0.491580 02 48 03
43      1,     80: DTE     80      3.780854  0.002107 02 48 03

```

¹⁶\$Header: d:/1stLooks/Combined/RCS/DSXher.inc,v 1.2 2007-12-31 09:06:36-08 Hamilton Exp Hamilton \$

44	1,	83:	DTE	83	4.310559	0.525453	02	48	03
45	1,	86:	DTE	86	4.316870	0.002096	02	48	03
46	1,	89:	DTE	89	4.576639	0.255550	02	48	03
47	1,	92:	DTE	92	4.582951	0.002109	02	48	03
48									
49	1,	95:	DTE	95	5.612746	1.025598	02	48	03
50	1,	98:	DTE	98	5.619057	0.002096	02	48	03
51	1,	101:	DTE	101	5.819791	0.196515	02	32	03
52	1,	104:	DTE	104	5.826101	0.002096	02	32	03
53	1,	107:	DTE	107	5.832429	0.002110	02	33	03
54	1,	110:	DTE	110	5.838745	0.002109	02	33	03
55	1,	113:	DTE	113	10.506419	4.663470	02	48	03
56	1,	116:	DTE	116	10.512727	0.002095	02	48	03
57	1,	119:	DTE	119	10.835286	0.318338	02	48	03
58	1,	122:	DTE	122	10.841597	0.001929	02	48	03
59	1,	125:	DTE	125	11.210545	0.364561	02	45	
60	1,	127:	DTE	127	11.214745	0.002095	02	48	03
61	1,	130:	DTE	130	11.221074	0.002110	02	45	
62	1,	132:	DTE	132	11.225144	0.001972	02	48	03
63	1,	135:	DTE	135	11.592549	0.363050	02	45	
64	1,	137:	DTE	137	11.596753	0.002098	02	48	03
65	1,	140:	DTE	140	11.603079	0.002106	02	45	
66	1,	142:	DTE	142	11.607285	0.002109	02	48	03
67	1,	145:	DTE	145	11.859594	0.248090	02	45	
68	1,	147:	DTE	147	11.863796	0.002109	02	48	03
69	1,	150:	DTE	150	11.870111	0.002096	02	45	
70	1,	152:	DTE	152	11.874329	0.002109	02	48	03
71	1,	155:	DTE	155	12.198632	0.320097	02	45	
72	1,	157:	DTE	157	12.202833	0.002110	02	48	03
73	1,	160:	DTE	160	12.209148	0.002254	02	45	
74	1,	162:	DTE	162	12.213366	0.002110	02	48	03
75	1,	165:	DTE	165	12.367682	0.150108	02	45	
76	1,	167:	DTE	167	12.371881	0.002107	02	48	03
77	1,	170:	DTE	170	12.378198	0.002244	02	45	
78	1,	172:	DTE	172	12.382415	0.002109	02	48	03
79	1,	175:	DTE	175	13.095754	0.709132	02	45	
80	1,	177:	DTE	177	13.099967	0.002108	02	48	03
81	1,	180:	DTE	180	13.106282	0.002110	02	45	
82	1,	182:	DTE	182	13.110501	0.002056	02	48	03
83	1,	185:	DTE	185	13.383814	0.269107	02	45	
84	1,	187:	DTE	187	13.388015	0.002098	02	48	03
85	1,	190:	DTE	190	13.394343	0.002110	02	45	
86	1,	192:	DTE	192	13.398558	0.002117	02	48	03
87	1,	195:	DTE	195	13.552807	0.150040	02	45	
88	1,	197:	DTE	197	13.557025	0.002110	02	48	03
89	1,	200:	DTE	200	13.563339	0.002109	02	45	
90	1,	202:	DTE	202	13.567560	0.002110	02	48	03
91	1,	205:	DTE	205	13.807211	0.235446	02	45	
92	1,	207:	DTE	207	13.811427	0.002228	02	48	03
93	1,	210:	DTE	210	13.817741	0.002110	02	45	
94	1,	212:	DTE	212	13.821946	0.002096	02	48	03
95	1,	215:	DTE	215	13.975895	0.149729	02	45	
96	1,	217:	DTE	217	13.980097	0.002108	02	48	03
97	1,	220:	DTE	220	13.986413	0.002097	02	45	
98	1,	222:	DTE	222	13.990631	0.002109	02	48	03
99	1,	225:	DTE	225	14.257928	0.263090	02	45	
100	1,	227:	DTE	227	14.262143	0.002278	02	48	03
101	1,	230:	DTE	230	14.268456	0.002107	02	45	
102	1,	232:	DTE	232	14.272662	0.002095	02	48	03
103	1,	235:	DTE	235	14.470794	0.193912	02	45	
104	1,	237:	DTE	237	14.475011	0.002108	02	48	03
105	1,	240:	DTE	240	14.481491	0.002109	02	45	
106	1,	242:	DTE	242	14.485710	0.002109	02	48	03
107	1,	245:	DTE	245	14.639958	0.150043	02	45	
108	1,	247:	DTE	247	14.644174	0.002110	02	48	03
109	1,	250:	DTE	250	14.650409	0.002031	02	45	
110	1,	252:	DTE	252	14.654708	0.002110	02	48	03
111	1,	255:	DTE	255	14.979021	0.320110	02	45	
112	1,	257:	DTE	257	14.983222	0.002073	02	48	03
113	1,	260:	DTE	260	14.989537	0.002096	02	45	
114	1,	262:	DTE	262	14.993756	0.002109	02	48	03
115	1,	265:	DTE	265	15.148032	0.150071	02	45	

116	1,	267:	DTE	267	15.152233	0.002109	02	48	03
117	1,	270:	DTE	270	15.158547	0.002096	02	45	
118	1,	272:	DTE	272	15.162766	0.002109	02	48	03
119	1,	275:	DTE	275	15.316053	0.149081	02	45	
120	1,	277:	DTE	277	15.320254	0.002097	02	48	03
121	1,	280:	DTE	280	15.326568	0.002097	02	45	
122	1,	282:	DTE	282	15.330788	0.002109	02	48	03
123	1,	285:	DTE	285	15.865127	0.530132	02	45	
124	1,	287:	DTE	287	15.869342	0.002109	02	48	03
125	1,	290:	DTE	290	15.875657	0.002109	02	45	
126	1,	292:	DTE	292	15.879862	0.002095	02	48	03
127	1,	295:	DTE	295	16.153175	0.269092	02	45	
128	1,	297:	DTE	297	16.157375	0.002107	02	48	03
129	1,	300:	DTE	300	16.163691	0.002096	02	45	
130	1,	302:	DTE	302	16.167909	0.002107	02	48	03
131	1,	305:	DTE	305	16.326220	0.154104	02	45	
132	1,	307:	DTE	307	16.330438	0.002112	02	48	03
133	1,	310:	DTE	310	16.336751	0.002109	02	45	
134	1,	312:	DTE	312	16.340970	0.002109	02	48	03
135	1,	315:	DTE	315	16.495232	0.150056	02	45	
136	1,	317:	DTE	317	16.499447	0.002110	02	48	03
137	1,	320:	DTE	320	16.505760	0.002107	02	45	
138	1,	322:	DTE	322	16.509967	0.002095	02	48	03
139	1,	325:	DTE	325	16.770258	0.256071	02	45	
140	1,	327:	DTE	327	16.774472	0.002108	02	48	03
141	1,	330:	DTE	330	16.780788	0.002109	02	45	
142	1,	332:	DTE	332	16.784994	0.002097	02	48	03
143	1,	335:	DTE	335	17.148318	0.359106	02	45	
144	1,	337:	DTE	337	17.152519	0.002110	02	48	03
145	1,	340:	DTE	340	17.158834	0.002110	02	45	
146	1,	342:	DTE	342	17.163053	0.002110	02	48	03
147	1,	345:	DTE	345	17.338329	0.171071	02	45	
148	1,	347:	DTE	347	17.342544	0.002107	02	48	03
149	1,	350:	DTE	350	17.348860	0.002109	02	45	
150	1,	352:	DTE	352	17.353080	0.002110	02	48	03
151	1,	355:	DTE	355	17.507354	0.150069	02	45	
152	1,	357:	DTE	357	17.511569	0.002109	02	48	03
153	1,	360:	DTE	360	17.517883	0.002110	02	45	
154	1,	362:	DTE	362	17.522089	0.002096	02	48	03
155	1,	365:	DTE	365	18.171443	0.645134	02	32	03
156	1,	368:	DTE	368	18.177754	0.002276	02	32	03
157	1,	371:	DTE	371	18.184069	0.002096	02	33	03
158	1,	374:	DTE	374	18.190384	0.002096	02	33	03
159									
160	1,	377:	DTE	377	22.772075	4.577473	02	41	03
161	1,	380:	DTE	380	22.778392	0.002110	02	41	03
162	1,	383:	DTE	383	23.628187	0.845757	02	45	03
163	1,	386:	DTE	386	23.634510	0.002109	02	45	03
164									
165	1,	389:	DTE	389	24.693330	1.054613	02	45	03
166	1,	392:	DTE	392	24.699641	0.002109	02	45	03
167	1,	395:	DTE	395	24.862339	0.158480	02	45	03
168	1,	398:	DTE	398	24.868664	0.002108	02	45	03
169	1,	401:	DTE	401	25.227393	0.354523	02	45	03
170	1,	404:	DTE	404	25.233703	0.002109	02	45	03
171	1,	407:	DTE	407	25.793487	0.555565	02	45	03
172	1,	410:	DTE	410	25.799810	0.002110	02	45	03
173	1,	413:	DTE	413	26.337433	0.533417	02	45	03
174	1,	416:	DTE	416	26.343911	0.002109	02	45	03
175	1,	419:	DTE	419	26.570595	0.222466	02	45	03
176	1,	422:	DTE	422	26.576906	0.002109	02	45	03
177	1,	425:	DTE	425	27.008642	0.427530	02	45	03
178	1,	428:	DTE	428	27.014955	0.002111	02	45	03
179	1,	431:	DTE	431	27.671741	0.652569	02	45	03
180	1,	434:	DTE	434	27.678053	0.002111	02	45	03
181	1,	437:	DTE	437	28.131806	0.449535	02	45	03
182	1,	440:	DTE	440	28.138117	0.002097	02	45	03
183	1,	443:	DTE	443	28.624867	0.482696	02	45	03
184	1,	446:	DTE	446	28.631177	0.002098	02	45	03
185	1,	449:	DTE	449	28.997928	0.362533	02	45	03
186	1,	452:	DTE	452	29.004236	0.002096	02	45	03
187	1,	455:	DTE	455	29.166949	0.158493	02	45	03

188	1,	458:	DTE	458	29.173259	0.002172	02	45	03
189	1,	461:	DTE	461	29.398967	0.221502	02	45	03
190	1,	464:	DTE	464	29.405278	0.002109	02	45	03
191	1,	467:	DTE	467	29.709019	0.299536	02	45	03
192	1,	470:	DTE	470	29.715329	0.002107	02	45	03
193	1,	473:	DTE	473	30.017052	0.297503	02	45	03
194	1,	476:	DTE	476	30.023364	0.002096	02	45	03
195	1,	479:	DTE	479	30.747144	0.719561	02	32	03
196	1,	482:	DTE	482	30.753478	0.002120	02	32	03
197	1,	485:	DTE	485	30.759783	0.002109	02	33	03
198	1,	488:	DTE	488	30.766098	0.002277	02	33	03
199									
200	1,	491:	DTE	491	34.602683	3.832366	02	41	03
201	1,	494:	DTE	494	34.609013	0.002120	02	41	03
202	1,	497:	DTE	497	35.408811	0.795605	02	45	03
203	1,	500:	DTE	500	35.415173	0.002109	02	45	03
204	1,	503:	DTE	503	35.802925	0.383547	02	45	
205	1,	505:	DTE	505	35.807139	0.002109	02	47	03
206	1,	508:	DTE	508	35.813455	0.002109	02	45	
207	1,	510:	DTE	510	35.817660	0.002097	02	47	03
208	1,	513:	DTE	513	35.972937	0.151059	02	45	
209	1,	515:	DTE	515	35.977139	0.002096	02	47	03
210	1,	518:	DTE	518	35.983467	0.002091	02	45	
211	1,	520:	DTE	520	35.987673	0.002110	02	47	03
212	1,	523:	DTE	523	36.139917	0.148037	02	45	
213	1,	525:	DTE	525	36.144118	0.002095	02	47	03
214	1,	528:	DTE	528	36.150445	0.002108	02	45	
215	1,	530:	DTE	530	36.154486	0.002107	02	47	03
216	1,	533:	DTE	533	36.309890	0.151186	02	45	
217	1,	535:	DTE	535	36.314105	0.002110	02	47	03
218	1,	538:	DTE	538	36.320419	0.002109	02	45	
219	1,	540:	DTE	540	36.324641	0.002112	02	47	03
220	1,	543:	DTE	543	36.627950	0.299105	02	45	
221	1,	545:	DTE	545	36.632019	0.001963	02	47	03
222	1,	548:	DTE	548	36.638481	0.002110	02	45	
223	1,	550:	DTE	550	36.642685	0.002095	02	47	03
224	1,	553:	DTE	553	37.357013	0.710109	02	45	
225	1,	555:	DTE	555	37.361227	0.002110	02	47	03
226	1,	558:	DTE	558	37.367543	0.002111	02	45	
227	1,	560:	DTE	560	37.371761	0.002110	02	47	03
228	1,	563:	DTE	563	37.525059	0.149093	02	45	
229	1,	565:	DTE	565	37.529262	0.002264	02	47	03
230	1,	568:	DTE	568	37.535589	0.002274	02	45	
231	1,	570:	DTE	570	37.539861	0.002175	02	47	03
232	1,	573:	DTE	573	37.694107	0.150092	02	45	
233	1,	575:	DTE	575	37.698298	0.002097	02	47	03
234	1,	578:	DTE	578	37.704626	0.002110	02	45	
235	1,	580:	DTE	580	37.708831	0.002110	02	47	03
236	1,	583:	DTE	583	37.927104	0.214054	02	45	
237	1,	585:	DTE	585	37.931306	0.002096	02	47	03
238	1,	588:	DTE	588	37.937632	0.002107	02	45	
239	1,	590:	DTE	590	37.941838	0.002109	02	47	03
240	1,	593:	DTE	593	38.099160	0.153116	02	45	
241	1,	595:	DTE	595	38.103363	0.002097	02	47	03
242	1,	598:	DTE	598	38.109690	0.002109	02	45	
243	1,	600:	DTE	600	38.113896	0.002109	02	47	03
244	1,	603:	DTE	603	38.268171	0.150055	02	45	
245	1,	605:	DTE	605	38.272373	0.002109	02	47	03
246	1,	608:	DTE	608	38.278687	0.002095	02	45	
247	1,	610:	DTE	610	38.282906	0.002109	02	47	03
248	1,	613:	DTE	613	38.437193	0.150082	02	45	
249	1,	615:	DTE	615	38.441408	0.002107	02	47	03
250	1,	618:	DTE	618	38.447724	0.002109	02	45	
251	1,	620:	DTE	620	38.451931	0.002097	02	47	03
252	1,	623:	DTE	623	38.605035	0.148887	02	45	
253	1,	625:	DTE	625	38.609417	0.002104	02	47	03
254	1,	628:	DTE	628	38.615732	0.002110	02	45	
255	1,	630:	DTE	630	38.619937	0.002095	02	47	03
256	1,	633:	DTE	633	38.778249	0.154092	02	45	
257	1,	635:	DTE	635	38.782465	0.002110	02	47	03
258	1,	638:	DTE	638	38.788779	0.002109	02	45	
259	1,	640:	DTE	640	38.792985	0.002097	02	47	03

260	1,	643:	DTE	643	39.173311	0.376105	02	45
261	1,	645:	DTE	645	39.177502	0.002096	02	47 03
262	1,	648:	DTE	648	39.183831	0.002110	02	45
263	1,	650:	DTE	650	39.188036	0.002091	02	47 03
264	1,	653:	DTE	653	39.346321	0.154065	02	45
265	1,	655:	DTE	655	39.350536	0.002109	02	47 03
266	1,	658:	DTE	658	39.356852	0.002110	02	45
267	1,	660:	DTE	660	39.361058	0.002098	02	47 03
268	1,	663:	DTE	663	39.515354	0.150077	02	45
269	1,	665:	DTE	665	39.519547	0.002109	02	47 03
270	1,	668:	DTE	668	39.525862	0.002094	02	45
271	1,	670:	DTE	670	39.530082	0.002110	02	47 03
272	1,	673:	DTE	673	39.683355	0.149069	02	45
273	1,	675:	DTE	675	39.687556	0.002097	02	47 03
274	1,	678:	DTE	678	39.693883	0.002109	02	45
275	1,	680:	DTE	680	39.698089	0.002110	02	47 03
276	1,	683:	DTE	683	40.091415	0.389107	02	45
277	1,	685:	DTE	685	40.095447	0.001942	02	47 03
278	1,	688:	DTE	688	40.101931	0.002096	02	45
279	1,	690:	DTE	690	40.106149	0.002110	02	47 03
280	1,	693:	DTE	693	40.260450	0.150096	02	45
281	1,	695:	DTE	695	40.264652	0.002110	02	47 03
282	1,	698:	DTE	698	40.270966	0.002095	02	45
283	1,	700:	DTE	700	40.275185	0.002109	02	47 03
284	1,	703:	DTE	703	40.433469	0.154078	02	45
285	1,	705:	DTE	705	40.437518	0.001943	02	47 03
286	1,	708:	DTE	708	40.443999	0.002109	02	45
287	1,	710:	DTE	710	40.448206	0.002095	02	47 03
288	1,	713:	DTE	713	40.601490	0.149067	02	45
289	1,	715:	DTE	715	40.605692	0.002094	02	47 03
290	1,	718:	DTE	718	40.612020	0.002104	02	45
291	1,	720:	DTE	720	40.616227	0.002109	02	47 03
292	1,	723:	DTE	723	40.953523	0.333078	02	45
293	1,	725:	DTE	725	40.957737	0.002110	02	47 03
294	1,	728:	DTE	728	40.964053	0.002110	02	45
295	1,	730:	DTE	730	40.968255	0.002094	02	47 03
296	1,	733:	DTE	733	41.207559	0.235083	02	45
297	1,	735:	DTE	735	41.211773	0.002109	02	47 03
298	1,	738:	DTE	738	41.218088	0.002110	02	45
299	1,	740:	DTE	740	41.222307	0.002109	02	47 03
300	1,	743:	DTE	743	41.376594	0.150081	02	45
301	1,	745:	DTE	745	41.380811	0.002101	02	47 03
302	1,	748:	DTE	748	41.387124	0.002109	02	45
303	1,	750:	DTE	750	41.391344	0.002109	02	47 03
304	1,	753:	DTE	753	41.545618	0.150069	02	45
305	1,	755:	DTE	755	41.549820	0.002096	02	47 03
306	1,	758:	DTE	758	41.556148	0.002108	02	45
307	1,	760:	DTE	760	41.560354	0.002108	02	47 03
308	1,	763:	DTE	763	41.803652	0.239080	02	32 03
309	1,	766:	DTE	766	41.809798	0.001943	02	32 03
310	1,	769:	DTE	769	41.816279	0.002110	02	33 03
311	1,	772:	DTE	772	41.822594	0.002097	02	33 03
312								
313	1,	775:	DTE	775	45.123159	3.296345	02	46 03
314	1,	778:	DTE	778	45.129468	0.002095	02	46 03
315	1,	781:	DTE	781	46.056230	0.922543	02	47 03
316	1,	784:	DTE	784	46.062540	0.002109	02	47 03
317	1,	787:	DTE	787	46.528287	0.461527	02	47 03
318	1,	790:	DTE	790	46.534597	0.002109	02	47 03
319	1,	793:	DTE	793	46.987389	0.448584	02	47 03
320	1,	796:	DTE	796	46.993713	0.002110	02	47 03
321	1,	799:	DTE	799	47.566451	0.568533	02	47 03
322	1,	802:	DTE	802	47.572762	0.002110	02	47 03
323	1,	805:	DTE	805	47.735447	0.158478	02	47 03
324	1,	808:	DTE	808	47.741759	0.002095	02	47 03
325	1,	811:	DTE	811	47.907479	0.161500	02	47 03
326	1,	814:	DTE	814	47.913791	0.002109	02	47 03
327	1,	817:	DTE	817	48.132506	0.214496	02	47 03
328	1,	820:	DTE	820	48.138839	0.002131	02	47 03
329	1,	823:	DTE	823	48.539590	0.396554	02	47 03
330	1,	826:	DTE	826	48.545912	0.002108	02	47 03
331	1,	829:	DTE	829	49.289666	0.739547	02	47 03

332	1,	832:	DTE	832	49.295979	0.002098	02	47	03
333	1,	835:	DTE	835	49.564694	0.264488	02	47	03
334	1,	838:	DTE	838	49.570837	0.002086	02	47	03
335	1,	841:	DTE	841	49.788741	0.213518	02	47	03
336	1,	844:	DTE	844	49.795054	0.002110	02	47	03
337	1,	847:	DTE	847	50.076775	0.277503	02	47	03
338	1,	850:	DTE	850	50.083087	0.002095	02	47	03
339	1,	853:	DTE	853	50.463847	0.376540	02	47	03
340	1,	856:	DTE	856	50.470158	0.002110	02	47	03
341	1,	859:	DTE	859	50.837910	0.363547	02	47	03
342	1,	862:	DTE	862	50.844221	0.002111	02	47	03
343	1,	865:	DTE	865	51.005956	0.157517	02	47	03
344	1,	868:	DTE	868	51.012266	0.002109	02	47	03
345	1,	871:	DTE	871	51.926216	0.909730	02	32	03
346	1,	874:	DTE	874	51.932540	0.002109	02	32	03
347	1,	877:	DTE	877	51.938855	0.002109	02	33	03
348	1,	880:	DTE	880	51.945172	0.002111	02	33	03
349									
350	1,	883:	DTE	883	54.464366	2.514989	02	46	03
351	1,	886:	DTE	886	54.470678	0.002109	02	46	03
352	1,	889:	DTE	889	54.696477	0.221594	02	46	03
353	1,	892:	DTE	892	54.702799	0.002108	02	46	03
354	1,	895:	DTE	895	55.185296	0.478290	02	46	
355	1,	897:	DTE	897	55.189509	0.002109	02	47	03
356	1,	900:	DTE	900	55.195989	0.002099	02	46	
357	1,	902:	DTE	902	55.200195	0.002096	02	47	03
358	1,	905:	DTE	905	55.354485	0.150070	02	46	
359	1,	907:	DTE	907	55.358684	0.002095	02	47	03
360	1,	910:	DTE	910	55.365015	0.002111	02	46	
361	1,	912:	DTE	912	55.369218	0.002108	02	47	03
362	1,	915:	DTE	915	55.523532	0.150094	02	46	
363	1,	917:	DTE	917	55.527748	0.002109	02	47	03
364	1,	920:	DTE	920	55.534063	0.002110	02	46	
365	1,	922:	DTE	922	55.538282	0.002110	02	47	03
366	1,	925:	DTE	925	55.776593	0.234105	02	46	
367	1,	927:	DTE	927	55.780796	0.002108	02	47	03
368	1,	930:	DTE	930	55.787109	0.002094	02	46	
369	1,	932:	DTE	932	55.791329	0.002109	02	47	03
370	1,	935:	DTE	935	56.018612	0.223079	02	46	
371	1,	937:	DTE	937	56.022813	0.002096	02	47	03
372	1,	940:	DTE	940	56.029141	0.002108	02	46	
373	1,	942:	DTE	942	56.033346	0.002108	02	47	03
374	1,	945:	DTE	945	56.186467	0.148903	02	46	
375	1,	947:	DTE	947	56.190667	0.002109	02	47	03
376	1,	950:	DTE	950	56.197159	0.002273	02	46	
377	1,	952:	DTE	952	56.201367	0.002110	02	47	03
378	1,	955:	DTE	955	56.496658	0.291085	02	46	
379	1,	957:	DTE	957	56.500693	0.001942	02	47	03
380	1,	960:	DTE	960	56.507008	0.001931	02	46	
381	1,	962:	DTE	962	56.511393	0.002108	02	47	03
382	1,	965:	DTE	965	57.147726	0.632127	02	46	
383	1,	967:	DTE	967	57.151927	0.002095	02	47	03
384	1,	970:	DTE	970	57.158256	0.002109	02	46	
385	1,	972:	DTE	972	57.162461	0.002110	02	47	03
386	1,	975:	DTE	975	57.315761	0.149081	02	46	
387	1,	977:	DTE	977	57.319961	0.002096	02	47	03
388	1,	980:	DTE	980	57.326289	0.002110	02	46	
389	1,	982:	DTE	982	57.330495	0.002110	02	47	03
390	1,	985:	DTE	985	57.484769	0.150054	02	46	
391	1,	987:	DTE	987	57.488971	0.002096	02	47	03
392	1,	990:	DTE	990	57.495299	0.002108	02	46	
393	1,	992:	DTE	992	57.499506	0.002109	02	47	03
394	1,	995:	DTE	995	57.653779	0.150054	02	46	
395	1,	997:	DTE	997	57.657815	0.001929	02	47	03
396	1,	1000:	DTE	1000	57.664311	0.002101	02	46	
397	1,	1002:	DTE	1002	57.668515	0.002109	02	47	03
398	1,	1005:	DTE	1005	57.821813	0.149079	02	46	
399	1,	1007:	DTE	1007	57.826030	0.002110	02	47	03
400	1,	1010:	DTE	1010	57.832353	0.002120	02	46	
401	1,	1012:	DTE	1012	57.836561	0.002106	02	47	03
402	1,	1015:	DTE	1015	58.237870	0.397102	02	46	
403	1,	1017:	DTE	1017	58.242084	0.002110	02	47	03

404	1,	1020:	DTE	1020	58.248399	0.002109	02	46
405	1,	1022:	DTE	1022	58.252618	0.002109	02	47 03
406	1,	1025:	DTE	1025	58.667961	0.411304	02	46
407	1,	1027:	DTE	1027	58.672175	0.002110	02	47 03
408	1,	1030:	DTE	1030	58.678489	0.002110	02	46
409	1,	1032:	DTE	1032	58.682707	0.002109	02	47 03
410	1,	1035:	DTE	1035	58.835967	0.149053	02	46
411	1,	1037:	DTE	1037	58.840181	0.002109	02	47 03
412	1,	1040:	DTE	1040	58.846497	0.002111	02	46
413	1,	1042:	DTE	1042	58.850716	0.002109	02	47 03
414	1,	1045:	DTE	1045	59.005016	0.150093	02	46
415	1,	1047:	DTE	1047	59.009232	0.002109	02	47 03
416	1,	1050:	DTE	1050	59.015547	0.002110	02	46
417	1,	1052:	DTE	1052	59.019766	0.002110	02	47 03
418	1,	1055:	DTE	1055	59.174013	0.150041	02	46
419	1,	1057:	DTE	1057	59.178216	0.002109	02	47 03
420	1,	1060:	DTE	1060	59.184451	0.002029	02	46
421	1,	1062:	DTE	1062	59.188582	0.002104	02	47 03
422	1,	1065:	DTE	1065	59.342021	0.149231	02	46
423	1,	1067:	DTE	1067	59.346224	0.002110	02	47 03
424	1,	1070:	DTE	1070	59.352539	0.002097	02	46
425	1,	1072:	DTE	1072	59.356758	0.002101	02	47 03
426	1,	1075:	DTE	1075	59.554067	0.193104	02	46
427	1,	1077:	DTE	1077	59.558282	0.002109	02	47 03
428	1,	1080:	DTE	1080	59.564596	0.002109	02	46
429	1,	1082:	DTE	1082	59.568801	0.002095	02	47 03
430	1,	1085:	DTE	1085	59.722073	0.149053	02	46
431	1,	1087:	DTE	1087	59.726276	0.002096	02	47 03
432	1,	1090:	DTE	1090	59.732603	0.002109	02	46
433	1,	1092:	DTE	1092	59.736810	0.002109	02	47 03
434	1,	1095:	DTE	1095	59.890107	0.149078	02	46
435	1,	1097:	DTE	1097	59.894322	0.002107	02	47 03
436	1,	1100:	DTE	1100	59.900637	0.002110	02	46
437	1,	1102:	DTE	1102	59.904857	0.002110	02	47 03
438	1,	1105:	DTE	1105	60.059118	0.150056	02	46
439	1,	1107:	DTE	1107	60.063332	0.002110	02	47 03
440	1,	1110:	DTE	1110	60.069648	0.002109	02	46
441	1,	1112:	DTE	1112	60.073867	0.002110	02	47 03
442	1,	1115:	DTE	1115	60.228154	0.150082	02	46
443	1,	1117:	DTE	1117	60.232370	0.002110	02	47 03
444	1,	1120:	DTE	1120	60.238684	0.002084	02	46
445	1,	1122:	DTE	1122	60.242903	0.002110	02	47 03
446	1,	1125:	DTE	1125	60.396184	0.149075	02	46
447	1,	1127:	DTE	1127	60.400390	0.002109	02	47 03
448	1,	1130:	DTE	1130	60.406705	0.002107	02	46
449	1,	1132:	DTE	1132	60.410910	0.002095	02	47 03
450	1,	1135:	DTE	1135	60.565185	0.150055	02	46
451	1,	1137:	DTE	1137	60.569403	0.002112	02	47 03
452	1,	1140:	DTE	1140	60.575716	0.002108	02	46
453	1,	1142:	DTE	1142	60.579921	0.002095	02	47 03
454	1,	1145:	DTE	1145	60.734222	0.150081	02	46
455	1,	1147:	DTE	1147	60.738437	0.002109	02	47 03
456	1,	1150:	DTE	1150	60.744753	0.002110	02	46
457	1,	1152:	DTE	1152	60.748972	0.002274	02	47 03
458	1,	1155:	DTE	1155	60.902296	0.149120	02	46
459	1,	1157:	DTE	1157	60.906496	0.002095	02	47 03
460	1,	1160:	DTE	1160	60.912824	0.002108	02	46
461	1,	1162:	DTE	1162	60.916942	0.002020	02	47 03
462	1,	1165:	DTE	1165	61.071253	0.150003	02	46
463	1,	1167:	DTE	1167	61.075469	0.002110	02	47 03
464	1,	1170:	DTE	1170	61.081782	0.002107	02	46
465	1,	1172:	DTE	1172	61.086002	0.002110	02	47 03
466	1,	1175:	DTE	1175	61.244302	0.154094	02	46
467	1,	1177:	DTE	1177	61.248515	0.002109	02	47 03
468	1,	1180:	DTE	1180	61.254830	0.002109	02	46
469	1,	1182:	DTE	1182	61.259037	0.002098	02	47 03
470	1,	1185:	DTE	1185	61.412319	0.149065	02	32 03
471	1,	1188:	DTE	1188	61.418632	0.002109	02	32 03
472	1,	1191:	DTE	1191	61.424947	0.002095	02	33 03
473	1,	1194:	DTE	1194	61.431275	0.002108	02	33 03
474								
475	1,	1197:	DTE	1197	64.466802	3.031320	02	46 03

476	1,	1200:	DTE	1200	64.473111	0.002110	02	46	03
477	1,	1203:	DTE	1203	64.635745	0.158416	02	46	03
478	1,	1206:	DTE	1206	64.642057	0.002109	02	46	03
479	1,	1209:	DTE	1209	64.804740	0.158645	02	46	03
480	1,	1212:	DTE	1212	64.811054	0.002110	02	46	03
481	1,	1215:	DTE	1215	65.617867	0.802607	02	46	03
482	1,	1218:	DTE	1218	65.624178	0.002096	02	46	03
483	1,	1221:	DTE	1221	66.012919	0.384523	02	46	03
484	1,	1224:	DTE	1224	66.019231	0.002098	02	46	03
485	1,	1227:	DTE	1227	66.459990	0.436541	02	46	03
486	1,	1230:	DTE	1230	66.466315	0.002058	02	46	03
487	1,	1233:	DTE	1233	66.726030	0.255510	02	46	03
488	1,	1236:	DTE	1236	66.732341	0.002107	02	46	03
489	1,	1239:	DTE	1239	67.197922	0.461361	02	46	03
490	1,	1242:	DTE	1242	67.204247	0.002111	02	46	03
491	1,	1245:	DTE	1245	67.606162	0.397711	02	46	03
492	1,	1248:	DTE	1248	67.612473	0.002096	02	46	03
493	1,	1251:	DTE	1251	67.775172	0.158594	02	46	03
494	1,	1254:	DTE	1254	67.781495	0.002109	02	46	03
495	1,	1257:	DTE	1257	68.353274	0.567572	02	46	03
496	1,	1260:	DTE	1260	68.359581	0.002087	02	46	03
497	1,	1263:	DTE	1263	68.945353	0.581553	02	46	03
498	1,	1266:	DTE	1266	68.951663	0.002107	02	46	03
499	1,	1269:	DTE	1269	69.169363	0.213480	02	46	03
500	1,	1272:	DTE	1272	69.175688	0.002109	02	46	03
501	1,	1275:	DTE	1275	69.337373	0.157478	02	46	03
502	1,	1278:	DTE	1278	69.343695	0.002107	02	46	03
503	1,	1281:	DTE	1281	69.681461	0.333559	02	46	03
504	1,	1284:	DTE	1284	69.687773	0.002112	02	46	03
505	1,	1287:	DTE	1287	70.260384	0.568407	02	46	03
506	1,	1290:	DTE	1290	70.266653	0.001941	02	46	03
507	1,	1293:	DTE	1293	71.001449	0.730422	02	32	03
508	1,	1296:	DTE	1296	71.007929	0.002110	02	32	03
509	1,	1299:	DTE	1299	71.014243	0.002109	02	33	03
510	1,	1302:	DTE	1302	71.020558	0.002110	02	33	03
511									
512	1,	1305:	DTE	1305	73.827997	2.803233	02	46	
513	1,	1307:	DTE	1307	73.832198	0.002109	02	48	03
514	1,	1310:	DTE	1310	73.838516	0.002099	02	46	
515	1,	1312:	DTE	1312	73.842731	0.002109	02	48	03
516	1,	1315:	DTE	1315	73.998009	0.151071	02	46	
517	1,	1317:	DTE	1317	74.002211	0.002109	02	48	03
518	1,	1320:	DTE	1320	74.008526	0.002095	02	46	
519	1,	1322:	DTE	1322	74.012745	0.002110	02	48	03
520	1,	1325:	DTE	1325	74.316079	0.299129	02	46	
521	1,	1327:	DTE	1327	74.320283	0.002108	02	48	03
522	1,	1330:	DTE	1330	74.326432	0.001943	02	46	
523	1,	1332:	DTE	1332	74.330804	0.002095	02	48	03
524	1,	1335:	DTE	1335	74.485078	0.150053	02	46	
525	1,	1337:	DTE	1337	74.489294	0.002108	02	48	03
526	1,	1340:	DTE	1340	74.495609	0.002105	02	46	
527	1,	1342:	DTE	1342	74.499816	0.002097	02	48	03
528	1,	1345:	DTE	1345	74.653046	0.149013	02	46	
529	1,	1347:	DTE	1347	74.657150	0.001944	02	48	03
530	1,	1350:	DTE	1350	74.663631	0.002097	02	46	
531	1,	1352:	DTE	1352	74.667850	0.002111	02	48	03
532	1,	1355:	DTE	1355	74.822175	0.150121	02	46	
533	1,	1357:	DTE	1357	74.826379	0.002111	02	48	03
534	1,	1360:	DTE	1360	74.832693	0.002097	02	46	
535	1,	1362:	DTE	1362	74.836921	0.002119	02	48	03
536	1,	1365:	DTE	1365	74.991160	0.150042	02	46	
537	1,	1367:	DTE	1367	74.995363	0.002098	02	48	03
538	1,	1370:	DTE	1370	75.001690	0.002109	02	46	
539	1,	1372:	DTE	1372	75.005896	0.002110	02	48	03
540	1,	1375:	DTE	1375	75.364222	0.354108	02	46	
541	1,	1377:	DTE	1377	75.368422	0.002110	02	48	03
542	1,	1380:	DTE	1380	75.374737	0.002098	02	46	
543	1,	1382:	DTE	1382	75.378955	0.002109	02	48	03
544	1,	1385:	DTE	1385	75.533215	0.150053	02	46	
545	1,	1387:	DTE	1387	75.537417	0.002108	02	48	03
546	1,	1390:	DTE	1390	75.543734	0.002095	02	46	
547	1,	1392:	DTE	1392	75.547962	0.002118	02	48	03

548	1,	1395:	DTE	1395	75.700222	0.148063	02	46
549	1,	1397:	DTE	1397	75.704423	0.002096	02	48 03
550	1,	1400:	DTE	1400	75.710752	0.002276	02	46
551	1,	1402:	DTE	1402	75.714959	0.002110	02	48 03
552	1,	1405:	DTE	1405	75.870278	0.151101	02	46
553	1,	1407:	DTE	1407	75.874476	0.002096	02	48 03
554	1,	1410:	DTE	1410	75.880805	0.002070	02	46
555	1,	1412:	DTE	1412	75.885011	0.002111	02	48 03
556	1,	1415:	DTE	1415	76.039282	0.150053	02	46
557	1,	1417:	DTE	1417	76.043486	0.002109	02	48 03
558	1,	1420:	DTE	1420	76.049802	0.002109	02	46
559	1,	1422:	DTE	1422	76.054021	0.002110	02	48 03
560	1,	1425:	DTE	1425	76.206354	0.148218	02	46
561	1,	1427:	DTE	1427	76.210394	0.001933	02	48 03
562	1,	1430:	DTE	1430	76.216719	0.002110	02	46
563	1,	1432:	DTE	1432	76.220924	0.002110	02	48 03
564	1,	1435:	DTE	1435	76.376341	0.151034	02	46
565	1,	1437:	DTE	1437	76.380544	0.002109	02	48 03
566	1,	1440:	DTE	1440	76.386858	0.002094	02	46
567	1,	1442:	DTE	1442	76.391077	0.002107	02	48 03
568	1,	1445:	DTE	1445	76.545365	0.150082	02	46
569	1,	1447:	DTE	1447	76.549422	0.001963	02	48 03
570	1,	1450:	DTE	1450	76.555882	0.002097	02	46
571	1,	1452:	DTE	1452	76.560102	0.002110	02	48 03
572	1,	1455:	DTE	1455	76.713438	0.149130	02	46
573	1,	1457:	DTE	1457	76.717653	0.002109	02	48 03
574	1,	1460:	DTE	1460	76.723969	0.002109	02	46
575	1,	1462:	DTE	1462	76.728173	0.002096	02	48 03
576	1,	1465:	DTE	1465	76.882396	0.150003	02	46
577	1,	1467:	DTE	1467	76.886598	0.002109	02	48 03
578	1,	1470:	DTE	1470	76.892914	0.002097	02	46
579	1,	1472:	DTE	1472	76.897133	0.002111	02	48 03
580	1,	1475:	DTE	1475	77.050262	0.148925	02	46
581	1,	1477:	DTE	1477	77.054561	0.002024	02	48 03
582	1,	1480:	DTE	1480	77.060949	0.002072	02	46
583	1,	1482:	DTE	1482	77.065166	0.002110	02	48 03
584	1,	1485:	DTE	1485	77.219276	0.149904	02	46
585	1,	1487:	DTE	1487	77.223489	0.002105	02	48 03
586	1,	1490:	DTE	1490	77.229971	0.002101	02	46
587	1,	1492:	DTE	1492	77.234178	0.002098	02	48 03
588	1,	1495:	DTE	1495	77.388310	0.150082	02	46
589	1,	1497:	DTE	1497	77.392692	0.002101	02	48 03
590	1,	1500:	DTE	1500	77.399008	0.002110	02	46
591	1,	1502:	DTE	1502	77.403213	0.002097	02	48 03
592	1,	1505:	DTE	1505	77.556498	0.149066	02	46
593	1,	1507:	DTE	1507	77.560723	0.002120	02	48 03
594	1,	1510:	DTE	1510	77.567029	0.002108	02	46
595	1,	1512:	DTE	1512	77.571247	0.002109	02	48 03
596	1,	1515:	DTE	1515	77.726602	0.151150	02	46
597	1,	1517:	DTE	1517	77.730817	0.002109	02	48 03
598	1,	1520:	DTE	1520	77.737132	0.002109	02	46
599	1,	1522:	DTE	1522	77.741171	0.001927	02	48 03
600	1,	1525:	DTE	1525	77.894543	0.148987	02	46
601	1,	1527:	DTE	1527	77.898747	0.002109	02	48 03
602	1,	1530:	DTE	1530	77.905061	0.002095	02	46
603	1,	1532:	DTE	1532	77.909280	0.002108	02	48 03
604	1,	1535:	DTE	1535	78.062566	0.149080	02	46
605	1,	1537:	DTE	1537	78.066780	0.002108	02	48 03
606	1,	1540:	DTE	1540	78.073096	0.002110	02	46
607	1,	1542:	DTE	1542	78.077314	0.002109	02	48 03
608	1,	1545:	DTE	1545	78.235964	0.154435	02	46
609	1,	1547:	DTE	1547	78.240179	0.002110	02	48 03
610	1,	1550:	DTE	1550	78.246494	0.002109	02	46
611	1,	1552:	DTE	1552	78.250700	0.002097	02	48 03
612	1,	1555:	DTE	1555	78.489611	0.234693	02	32 03
613	1,	1558:	DTE	1558	78.495920	0.002095	02	32 03
614	1,	1561:	DTE	1561	78.502233	0.002093	02	33 03
615	1,	1564:	DTE	1564	78.508565	0.002110	02	33 03
616								
617	1,	1567:	DTE	1567	84.282397	5.769627	02	46
618	1,	1569:	DTE	1569	84.286610	0.002108	02	48 03
619	1,	1572:	DTE	1572	84.292925	0.002092	02	46

620	1,	1574:	DTE	1574	84.297144	0.002110	02	48	03
621	1,	1577:	DTE	1577	84.451419	0.150068	02	48	03
622	1,	1580:	DTE	1580	84.457730	0.002109	02	48	03
623	1,	1583:	DTE	1583	84.619452	0.157504	02	48	03
624	1,	1586:	DTE	1586	84.625764	0.002109	02	48	03
625	1,	1589:	DTE	1589	84.788463	0.158493	02	48	03
626	1,	1592:	DTE	1592	84.794773	0.002107	02	48	03
627	1,	1595:	DTE	1595	84.956484	0.157491	02	48	03
628	1,	1598:	DTE	1598	84.962809	0.002111	02	48	03
629	1,	1601:	DTE	1601	85.373580	0.406568	02	48	03
630	1,	1604:	DTE	1604	85.379892	0.002109	02	48	03
631	1,	1607:	DTE	1607	85.661587	0.277476	02	48	03
632	1,	1610:	DTE	1610	85.667899	0.002109	02	48	03
633	1,	1613:	DTE	1613	86.154674	0.482570	02	48	03
634	1,	1616:	DTE	1616	86.160985	0.002109	02	48	03
635	1,	1619:	DTE	1619	86.455690	0.290499	02	48	03
636	1,	1622:	DTE	1622	86.462000	0.002095	02	48	03
637	1,	1625:	DTE	1625	87.345653	0.879433	02	48	03
638	1,	1628:	DTE	1628	87.352131	0.002110	02	48	03
639	1,	1631:	DTE	1631	87.514841	0.158504	02	48	03
640	1,	1634:	DTE	1634	87.521167	0.002109	02	48	03
641	1,	1637:	DTE	1637	87.877890	0.352684	02	48	03
642	1,	1640:	DTE	1640	87.884201	0.002097	02	48	03
643	1,	1643:	DTE	1643	88.065933	0.177513	02	48	03
644	1,	1646:	DTE	1646	88.072235	0.002097	02	48	03
645	1,	1649:	DTE	1649	88.234807	0.158519	02	48	03
646	1,	1652:	DTE	1652	88.241118	0.002110	02	48	03
647	1,	1655:	DTE	1655	88.975038	0.729535	02	48	03
648	1,	1658:	DTE	1658	88.981362	0.002110	02	48	03
649	1,	1661:	DTE	1661	89.178071	0.192504	02	48	03
650	1,	1664:	DTE	1664	89.184382	0.002110	02	48	03
651	1,	1667:	DTE	1667	89.983176	0.794588	02	32	03
652	1,	1670:	DTE	1670	89.989487	0.002097	02	32	03
653	1,	1673:	DTE	1673	89.995815	0.002110	02	33	03
654	1,	1676:	DTE	1676	90.002130	0.002109	02	33	03
655									
656	1,	1679:	DTE	1679	94.879829	4.873492	02	41	03
657	1,	1682:	DTE	1682	94.885973	0.002050	02	41	03
658									
659	1,	1685:	DTE	1685	96.415051	1.524693	02	30	03
660	1,	1688:	DTE	1688	96.421361	0.002109	02	30	03
661									
662	1,	1691:	DTE	1691	98.860375	2.434795	02	42	03
663	1,	1694:	DTE	1694	98.866686	0.002097	02	42	03
664									
665	1,	1697:	DTE	1697	100.686627	1.815722	02	30	03
666	1,	1700:	DTE	1700	100.692949	0.002110	02	30	03
667									
668	1,	1703:	DTE	1703	105.271285	4.574131	02	4a	03
669	1,	1706:	DTE	1706	105.277597	0.002109	02	4a	03
670									
671	1,	1709:	DTE	1709	107.425595	2.143792	02	34	03
672	1,	1712:	DTE	1712	107.431919	0.002110	02	34	03
673									
674	1,	1715:	DTE	1715	109.323812	1.887688	02	49	03
675	1,	1718:	DTE	1718	109.330122	0.002109	02	49	03
676									
677	1,	1721:	DTE	1721	112.136167	2.801827	02	34	03
678	1,	1724:	DTE	1724	112.142478	0.002096	02	34	03
679									
680	1,	1727:	DTE	1727	114.154462	2.007765	02	43	03
681	1,	1730:	DTE	1730	114.160784	0.002106	02	43	03
682									
683	1,	1733:	DTE	1733	116.470789	2.305799	02	31	03
684	1,	1736:	DTE	1736	116.477115	0.002124	02	31	03
685									
686	1,	1739:	DTE	1739	118.587065	2.105746	02	44	03
687	1,	1742:	DTE	1742	118.593375	0.002276	02	44	03
688									
689	1,	1745:	DTE	1745	120.592326	1.994732	02	31	03
690	1,	1748:	DTE	1748	120.598636	0.002094	02	31	03
691									

692 There were a total of 1750 bytes transferred
693
694 There were a total of 0 DCE bytes transferred
695 The first DCE byte came in at 0.000000 seconds from the start of data collection
696 The last DCE byte was at 0.000000 seconds from the start of data collection
697
698 There were a total of 1750 DTE bytes transferred
699 The first DTE byte came in at 0.000000 seconds from the start of data collection
700 The last DTE byte was at 120.602773 seconds from the start of data collection
701

3.15 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: _____.

3.15.1 29may07r.out

```

1  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2  $Header: d:/1stLooks/Combined/RCS/29MAY07R.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

```

¹⁷\$Header: d:/1stLooks/Combined/RCS/JCL.inc,v 1.2 2007-12-31 08:34:53-08 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
```


3.16 JVC TK-C6775B

This data was collected from a an Integral Technologies, DS XPress DVR on 19DEC07.

1. Baud: **4800**
2. Hello Message: **No**
3. Minimum Camera Address: **1**
4. Maximum Camera Address: **128**
5. Minimum Preset Number: **1**
6. Maximum Preset Number: **63**
7. Do we have an “official” protocol document? **No**
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: _____.

3.16.1 19DEC07C.out

```

1  Integral Technologies DS XPress DVR
2  DTE = From the DVR
3  DCE = nothing, no dome was attached
4  4800 baud
5  No parity
6  JVC TK-C775B
7
8
9  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
10 $Header: d:/1stLooks/Combined/RCS/19DEC07C.out,v 1.2 2007-12-19 12:35:31-08 Hamilton Exp Hamilton $
11 FTS capture buffer (12/19/2007 7:10:52 AM)
12 Event 1 (12/19/2007 7:08:49.608392 AM) through
13 Event 1,728 (12/19/2007 7:10:25.970201 AM)
14
15
16      1,      1: DTE      1      0.000000      0.000000 a0 00 00 04 03 00 af 08
17      1,      9: DTE      9      0.805104      0.790368 a0 00 00 08 00 03 af 04
18      1,     17: DTE     17      1.178165      0.358492 a0 00 00 08 00 07 af 00
19      1,     25: DTE     25      1.813256      0.620356 a0 00 00 08 00 0b af 0c
20      1,     33: DTE     33      2.336301      0.508311 a0 00 00 08 00 0f af 08
21      1,     41: DTE     41      3.149453      0.798416 a0 00 00 08 00 13 af 14
22      1,     49: DTE     49      4.778672      1.614483 a0 00 00 08 00 17 af 10
23      1,     57: DTE     57      5.122721      0.329314 a0 00 00 08 00 1b af 1c
24      1,     65: DTE     65      5.529764      0.392307 a0 00 00 08 00 1f af 18
25      1,     73: DTE     73      6.804936      1.260436 a0 00 00 08 00 23 af 24
26      1,     81: DTE     81      7.199975      0.380305 a0 00 00 08 00 27 af 20
27      1,     89: DTE     89      7.616055      0.401346 a0 00 00 08 00 2a af 2d
28      1,     97: DTE     97      7.849060      0.218269 a0 00 00 08 00 2f af 28

```

¹⁸\$Header: d:/1stLooks/Combined/RCS/DSXjvc.inc,v 1.2 2007-12-31 09:06:36-08 Hamilton Exp Hamilton \$

29	1,	105:	DTE	105	8.052096	0.188299	a0	00	00	08	00	33	af	34
30	1,	113:	DTE	113	8.221119	0.154287	a0	00	00	08	00	36	af	31
31	1,	121:	DTE	121	8.424167	0.188313	a0	00	00	08	00	3a	af	3d
32	1,	129:	DTE	129	9.271286	0.832385	a0	00	00	00	00	00	af	0f
33														
34	1,	137:	DTE	137	11.161524	1.875500	a0	00	00	08	00	03	af	04
35	1,	145:	DTE	145	11.620598	0.444341	a0	00	00	08	00	07	af	00
36	1,	153:	DTE	153	11.878605	0.243439	a0	00	00	0a	03	07	af	01
37	1,	161:	DTE	161	12.047641	0.154300	a0	00	00	0a	03	0b	af	0d
38	1,	169:	DTE	169	12.313684	0.251307	a0	00	00	0a	03	0f	af	09
39	1,	177:	DTE	177	12.482694	0.154427	a0	00	00	0a	03	13	af	15
40	1,	185:	DTE	185	12.651716	0.154273	a0	00	00	0a	07	13	af	11
41	1,	193:	DTE	193	12.823761	0.157251	a0	00	00	0a	07	17	af	15
42	1,	201:	DTE	201	12.992769	0.154436	a0	00	00	0a	07	1b	af	19
43	1,	209:	DTE	209	13.161795	0.154275	a0	00	00	0a	0b	1b	af	15
44	1,	217:	DTE	217	13.329663	0.153118	a0	00	00	0a	0f	1b	af	11
45	1,	225:	DTE	225	13.498916	0.154350	a0	00	00	0a	0f	1f	af	15
46	1,	233:	DTE	233	13.667695	0.154041	a0	00	00	0a	13	1f	af	09
47	1,	241:	DTE	241	13.835935	0.153420	a0	00	00	0a	13	23	af	35
48	1,	249:	DTE	249	14.004894	0.154222	a0	00	00	0a	13	27	af	31
49	1,	257:	DTE	257	14.173930	0.154300	a0	00	00	0a	17	27	af	35
50	1,	265:	DTE	265	14.341966	0.153467	a0	00	00	0a	1b	27	af	39
51	1,	273:	DTE	273	14.531964	0.175259	a0	00	00	0a	1b	2a	af	34
52	1,	281:	DTE	281	14.701014	0.154300	a0	00	00	0a	1f	2a	af	30
53	1,	289:	DTE	289	14.869034	0.153283	a0	00	00	0a	1f	2f	af	35
54	1,	297:	DTE	297	15.038057	0.154286	a0	00	00	0a	23	2f	af	09
55	1,	305:	DTE	305	15.207082	0.154287	a0	00	00	0a	27	2f	af	0d
56	1,	313:	DTE	313	15.375103	0.153284	a0	00	00	0a	27	33	af	11
57	1,	321:	DTE	321	15.544125	0.154287	a0	00	00	0a	2a	33	af	1c
58	1,	329:	DTE	329	15.713526	0.154664	a0	00	00	0a	2a	36	af	19
59	1,	337:	DTE	337	15.881196	0.152932	a0	00	00	0a	2a	3a	af	15
60	1,	345:	DTE	345	16.050179	0.154247	a0	00	00	0a	2f	3a	af	10
61	1,	353:	DTE	353	16.219202	0.154286	a0	00	00	0a	33	3a	af	0c
62	1,	361:	DTE	361	16.387238	0.153299	a0	00	00	00	00	00	af	0f
63														
64	1,	369:	DTE	369	19.135556	2.733581	a0	00	00	20	00	00	af	2f
65	1,	377:	DTE	377	20.042733	0.892360	a0	00	00	02	03	00	af	0e
66	1,	385:	DTE	385	20.224764	0.167295	a0	00	00	02	07	00	af	0a
67	1,	393:	DTE	393	20.563814	0.324315	a0	00	00	02	0b	00	af	06
68	1,	401:	DTE	401	20.732823	0.154274	a0	00	00	02	0f	00	af	02
69	1,	409:	DTE	409	20.923071	0.175511	a0	00	00	02	13	00	af	1e
70	1,	417:	DTE	417	21.090844	0.153203	a0	00	00	02	17	00	af	1a
71	1,	425:	DTE	425	21.281886	0.176303	a0	00	00	02	1b	00	af	16
72	1,	433:	DTE	433	21.535950	0.239328	a0	00	00	02	1f	00	af	12
73	1,	441:	DTE	441	21.716938	0.166253	a0	00	00	02	23	00	af	2e
74	1,	449:	DTE	449	21.993045	0.261358	a0	00	00	02	27	00	af	2a
75	1,	457:	DTE	457	22.302017	0.294224	a0	00	00	02	2a	00	af	27
76	1,	465:	DTE	465	22.470913	0.154161	a0	00	00	02	2f	00	af	22
77	1,	473:	DTE	473	22.639111	0.153296	a0	00	00	02	33	00	af	3e
78	1,	481:	DTE	481	22.808135	0.154314	a0	00	00	02	36	00	af	3b
79	1,	489:	DTE	489	23.062134	0.239263	a0	00	00	02	3a	00	af	37
80	1,	497:	DTE	497	23.640206	0.563338	a0	00	00	00	00	00	af	0f
81														
82	1,	505:	DTE	505	25.560442	1.905496	a0	00	00	20	00	00	af	2f
83	1,	513:	DTE	513	26.450584	0.875407	a0	00	00	10	00	03	af	1c
84	1,	521:	DTE	521	26.909657	0.444338	a0	00	00	12	03	03	af	1d
85	1,	529:	DTE	529	27.573708	0.649313	a0	00	00	12	07	03	af	19
86	1,	537:	DTE	537	27.742785	0.154327	a0	00	00	12	07	07	af	1d
87	1,	545:	DTE	545	27.910804	0.153285	a0	00	00	12	07	0b	af	11
88	1,	553:	DTE	553	28.079828	0.154287	a0	00	00	12	0b	0b	af	1d
89	1,	561:	DTE	561	28.248663	0.154086	a0	00	00	12	0b	0f	af	19
90	1,	569:	DTE	569	28.416859	0.153297	a0	00	00	12	0b	13	af	05
91	1,	577:	DTE	577	28.585908	0.154312	a0	00	00	12	0f	13	af	01
92	1,	585:	DTE	585	28.754893	0.154249	a0	00	00	12	0f	17	af	05
93	1,	593:	DTE	593	28.922928	0.153253	a0	00	00	12	13	17	af	19
94	1,	601:	DTE	601	29.091937	0.154274	a0	00	00	12	13	1b	af	15
95	1,	609:	DTE	609	29.264958	0.158284	a0	00	00	12	17	1b	af	11
96	1,	617:	DTE	617	29.433007	0.153301	a0	00	00	12	1b	1b	af	1d
97	1,	625:	DTE	625	29.602015	0.154275	a0	00	00	12	1b	1f	af	19
98	1,	633:	DTE	633	29.771106	0.154356	a0	00	00	12	1b	23	af	25
99	1,	641:	DTE	641	29.939060	0.153272	a0	00	00	12	1b	27	af	21
100	1,	649:	DTE	649	30.108122	0.154326	a0	00	00	12	1f	2a	af	28

101	1,	657:	DTE	657	30.281364	0.158507	a0	00	00	12	1f	2f	af	2d
102	1,	665:	DTE	665	30.449139	0.153038	a0	00	00	12	1f	33	af	31
103	1,	673:	DTE	673	30.618161	0.154274	a0	00	00	12	23	33	af	0d
104	1,	681:	DTE	681	30.787184	0.154286	a0	00	00	12	27	33	af	09
105	1,	689:	DTE	689	30.955219	0.153298	a0	00	00	12	27	36	af	0c
106	1,	697:	DTE	697	31.124267	0.154299	a0	00	00	12	2a	36	af	01
107	1,	705:	DTE	705	31.293288	0.154285	a0	00	00	12	2a	3a	af	0d
108	1,	713:	DTE	713	31.461287	0.153286	a0	00	00	12	2f	3a	af	08
109	1,	721:	DTE	721	31.630294	0.154272	a0	00	00	00	00	00	af	0f
110														
111	1,	729:	DTE	729	33.045516	1.400483	a0	00	00	04	07	00	af	0c
112	1,	737:	DTE	737	33.312536	0.252460	a0	00	00	10	00	03	af	1c
113	1,	745:	DTE	745	34.181637	0.854365	a0	00	00	10	00	07	af	18
114	1,	753:	DTE	753	34.448681	0.252308	a0	00	00	10	00	0b	af	14
115	1,	761:	DTE	761	34.630570	0.167154	a0	00	00	10	00	0f	af	10
116	1,	769:	DTE	769	34.798734	0.153286	a0	00	00	10	00	13	af	0c
117	1,	777:	DTE	777	34.967731	0.154261	a0	00	00	10	00	17	af	08
118	1,	785:	DTE	785	35.136755	0.154275	a0	00	00	10	00	1b	af	04
119	1,	793:	DTE	793	35.304788	0.153284	a0	00	00	10	00	1f	af	00
120	1,	801:	DTE	801	35.473825	0.154300	a0	00	00	10	00	23	af	3c
121	1,	809:	DTE	809	35.740869	0.252308	a0	00	00	10	00	27	af	38
122	1,	817:	DTE	817	35.909940	0.154336	a0	00	00	10	00	2a	af	35
123	1,	825:	DTE	825	36.077952	0.153337	a0	00	00	10	00	2f	af	30
124	1,	833:	DTE	833	36.246924	0.154237	a0	00	00	10	00	33	af	2c
125	1,	841:	DTE	841	36.415934	0.154273	a0	00	00	10	00	36	af	29
126	1,	849:	DTE	849	36.583980	0.153302	a0	00	00	10	00	3a	af	25
127	1,	857:	DTE	857	37.009059	0.410444	a0	00	00	00	00	00	af	0f
128														
129	1,	865:	DTE	865	40.218485	3.194691	a0	00	00	04	13	00	af	18
130	1,	873:	DTE	873	41.053564	0.820342	a0	00	00	04	03	00	af	08
131	1,	881:	DTE	881	41.503681	0.435381	a0	00	00	04	07	00	af	0c
132	1,	889:	DTE	889	41.672691	0.154274	a0	00	00	14	07	03	af	1f
133	1,	897:	DTE	897	41.840672	0.153244	a0	00	00	14	07	07	af	1b
134	1,	905:	DTE	905	42.009696	0.154287	a0	00	00	14	07	0b	af	17
135	1,	913:	DTE	913	42.178695	0.154262	a0	00	00	14	0b	0b	af	1b
136	1,	921:	DTE	921	42.346754	0.153259	a0	00	00	14	0b	0f	af	1f
137	1,	929:	DTE	929	42.515766	0.154440	a0	00	00	14	0f	0f	af	1b
138	1,	937:	DTE	937	42.684801	0.154300	a0	00	00	14	0f	13	af	07
139	1,	945:	DTE	945	42.856792	0.157352	a0	00	00	14	13	13	af	1b
140	1,	953:	DTE	953	43.025831	0.154289	a0	00	00	14	13	17	af	1f
141	1,	961:	DTE	961	43.194879	0.154314	a0	00	00	14	13	1b	af	13
142	1,	969:	DTE	969	43.362721	0.153108	a0	00	00	14	13	1f	af	17
143	1,	977:	DTE	977	43.531948	0.154313	a0	00	00	14	17	1f	af	13
144	1,	985:	DTE	985	43.699942	0.153244	a0	00	00	14	17	23	af	2f
145	1,	993:	DTE	993	43.868952	0.154272	a0	00	00	14	1b	23	af	23
146	1,	1001:	DTE	1001	44.035971	0.152279	a0	00	00	14	1b	27	af	27
147	1,	1009:	DTE	1009	44.206003	0.155294	a0	00	00	14	1f	27	af	23
148	1,	1017:	DTE	1017	44.374869	0.154232	a0	00	00	14	1f	2a	af	2e
149	1,	1025:	DTE	1025	44.543054	0.153284	a0	00	00	14	23	2a	af	12
150	1,	1033:	DTE	1033	44.712064	0.154269	a0	00	00	14	23	2f	af	17
151	1,	1041:	DTE	1041	44.880098	0.153297	a0	00	00	14	27	2f	af	13
152	1,	1049:	DTE	1049	45.049110	0.154262	a0	00	00	14	27	33	af	0f
153	1,	1057:	DTE	1057	45.218120	0.154273	a0	00	00	14	2a	33	af	02
154	1,	1065:	DTE	1065	45.387144	0.154274	a0	00	00	14	2f	33	af	07
155	1,	1073:	DTE	1073	45.555214	0.153321	a0	00	00	14	2f	36	af	02
156	1,	1081:	DTE	1081	45.724202	0.154275	a0	00	00	14	2f	3a	af	0e
157	1,	1089:	DTE	1089	45.896246	0.157309	a0	00	00	14	33	3a	af	12
158	1,	1097:	DTE	1097	46.065215	0.154234	a0	00	00	14	36	3a	af	17
159	1,	1105:	DTE	1105	46.311312	0.231346	a0	00	00	00	00	00	af	0f
160														
161	1,	1113:	DTE	1113	48.273488	1.947441	a0	00	00	04	13	00	af	18
162	1,	1121:	DTE	1121	48.442574	0.154430	a0	00	00	04	03	00	af	08
163	1,	1129:	DTE	1129	48.837639	0.380316	a0	00	00	04	07	00	af	0c
164	1,	1137:	DTE	1137	49.176701	0.324327	a0	00	00	04	0b	00	af	00
165	1,	1145:	DTE	1145	49.400685	0.209249	a0	00	00	04	0f	00	af	04
166	1,	1153:	DTE	1153	49.569567	0.154145	a0	00	00	04	13	00	af	18
167	1,	1161:	DTE	1161	49.737757	0.153286	a0	00	00	04	17	00	af	1c
168	1,	1169:	DTE	1169	49.906764	0.154273	a0	00	00	04	1b	00	af	10
169	1,	1177:	DTE	1177	50.087806	0.166304	a0	00	00	04	1f	00	af	14
170	1,	1185:	DTE	1185	50.299813	0.197270	a0	00	00	04	23	00	af	28
171	1,	1193:	DTE	1193	50.468850	0.154287	a0	00	00	04	27	00	af	2c
172	1,	1201:	DTE	1201	50.640864	0.157267	a0	00	00	04	2a	00	af	21

173	1,	1209:	DTE	1209	50.809891	0.154274	a0	00	00	04	2f	00	af	24
174	1,	1217:	DTE	1217	50.978927	0.154301	a0	00	00	04	33	00	af	38
175	1,	1225:	DTE	1225	51.150919	0.157242	a0	00	00	04	36	00	af	3d
176	1,	1233:	DTE	1233	51.320009	0.154353	a0	00	00	04	3a	00	af	31
177	1,	1241:	DTE	1241	51.488991	0.154248	a0	00	00	00	00	00	af	0f
178														
179	1,	1249:	DTE	1249	52.742158	1.238416	a0	00	00	04	17	00	af	1c
180	1,	1257:	DTE	1257	53.200230	0.443338	a0	00	00	04	03	00	af	08
181	1,	1265:	DTE	1265	53.369238	0.154273	a0	00	00	0c	03	03	af	03
182	1,	1273:	DTE	1273	53.537274	0.153465	a0	00	00	0c	03	07	af	07
183	1,	1281:	DTE	1281	53.706284	0.154274	a0	00	00	0c	07	07	af	03
184	1,	1289:	DTE	1289	53.875305	0.154285	a0	00	00	0c	07	0b	af	0f
185	1,	1297:	DTE	1297	54.044216	0.154173	a0	00	00	0c	0b	0b	af	03
186	1,	1305:	DTE	1305	54.212352	0.153233	a0	00	00	0c	0b	0f	af	07
187	1,	1313:	DTE	1313	54.381209	0.154108	a0	00	00	0c	0f	0f	af	03
188	1,	1321:	DTE	1321	54.550411	0.154277	a0	00	00	0c	0f	13	af	1f
189	1,	1329:	DTE	1329	54.718470	0.153321	a0	00	00	0c	0f	17	af	1b
190	1,	1337:	DTE	1337	54.887453	0.154246	a0	00	00	0c	13	17	af	07
191	1,	1345:	DTE	1345	55.056466	0.154274	a0	00	00	0c	13	1b	af	0b
192	1,	1353:	DTE	1353	55.224500	0.153299	a0	00	00	0c	17	1b	af	0f
193	1,	1361:	DTE	1361	55.393534	0.154287	a0	00	00	0c	17	1f	af	0b
194	1,	1369:	DTE	1369	55.561544	0.153285	a0	00	00	0c	17	23	af	37
195	1,	1377:	DTE	1377	55.730580	0.154288	a0	00	00	0c	1b	23	af	3b
196	1,	1385:	DTE	1385	55.898423	0.153106	a0	00	00	0c	1b	27	af	3f
197	1,	1393:	DTE	1393	56.067610	0.154273	a0	00	00	0c	1b	2a	af	32
198	1,	1401:	DTE	1401	56.236623	0.154263	a0	00	00	0c	1f	2a	af	36
199	1,	1409:	DTE	1409	56.404669	0.153311	a0	00	00	0c	1f	2f	af	33
200	1,	1417:	DTE	1417	56.573679	0.154442	a0	00	00	0c	1f	33	af	2f
201	1,	1425:	DTE	1425	56.746714	0.158299	a0	00	00	0c	23	33	af	13
202	1,	1433:	DTE	1433	56.914719	0.153271	a0	00	00	0c	23	36	af	16
203	1,	1441:	DTE	1441	57.083754	0.154297	a0	00	00	0c	23	3a	af	1a
204	1,	1449:	DTE	1449	57.252768	0.154275	a0	00	00	0c	27	3a	af	1e
205	1,	1457:	DTE	1457	57.420634	0.153129	a0	00	00	00	00	00	af	0f
206														
207	1,	1465:	DTE	1465	59.623107	2.187569	a0	00	00	0c	07	03	af	07
208	1,	1473:	DTE	1473	59.847156	0.209315	a0	00	00	08	00	03	af	04
209	1,	1481:	DTE	1481	60.221232	0.359341	a0	00	00	08	00	07	af	00
210	1,	1489:	DTE	1489	60.530219	0.294252	a0	00	00	08	00	0b	af	0c
211	1,	1497:	DTE	1497	60.784252	0.239279	a0	00	00	08	00	0f	af	08
212	1,	1505:	DTE	1505	60.953263	0.154311	a0	00	00	08	00	13	af	14
213	1,	1513:	DTE	1513	61.121294	0.153297	a0	00	00	08	00	17	af	10
214	1,	1521:	DTE	1521	61.388176	0.252222	a0	00	00	08	00	1b	af	1c
215	1,	1529:	DTE	1529	61.621346	0.218262	a0	00	00	08	00	1f	af	18
216	1,	1537:	DTE	1537	61.875436	0.239352	a0	00	00	08	00	23	af	24
217	1,	1545:	DTE	1545	62.065423	0.175250	a0	00	00	08	00	27	af	20
218	1,	1553:	DTE	1553	62.234485	0.154326	a0	00	00	08	00	2a	af	2d
219	1,	1561:	DTE	1561	62.402475	0.153254	a0	00	00	08	00	2f	af	28
220	1,	1569:	DTE	1569	62.571490	0.154287	a0	00	00	08	00	33	af	34
221	1,	1577:	DTE	1577	62.738509	0.152282	a0	00	00	08	00	36	af	31
222	1,	1585:	DTE	1585	62.908503	0.155244	a0	00	00	08	00	3a	af	3d
223	1,	1593:	DTE	1593	63.367434	0.444164	a0	00	00	00	00	00	af	0f
224														
225	1,	1601:	DTE	1601	65.739929	2.357596	a0	00	00	20	00	00	af	2f
226	1,	1609:	DTE	1609	67.596203	1.841539	a0	00	00	00	00	00	af	0f
227														
228	1,	1617:	DTE	1617	68.486296	0.875357	a0	00	00	40	00	00	af	4f
229	1,	1625:	DTE	1625	69.893469	1.392438	a0	00	00	00	00	00	af	0f
230														
231	1,	1633:	DTE	1633	71.855734	1.947516	a0	00	04	00	00	00	af	0b
232	1,	1641:	DTE	1641	73.292949	1.422478	a0	00	00	00	00	00	af	0f
233														
234	1,	1649:	DTE	1649	74.367076	1.059378	a0	00	08	00	00	00	af	07
235	1,	1657:	DTE	1657	76.017319	1.635496	a0	00	00	00	00	00	af	0f
236														
237	1,	1665:	DTE	1665	78.219602	2.187557	a0	00	00	12	3a	17	af	30
238	1,	1673:	DTE	1673	80.646945	2.412596	a0	00	00	00	00	00	af	0f
239														
240	1,	1681:	DTE	1681	81.470043	0.808364	a0	00	01	00	00	00	af	0e
241	1,	1689:	DTE	1689	83.154288	1.669496	a0	00	00	00	00	00	af	0f
242														
243	1,	1697:	DTE	1697	86.995785	3.826761	a0	00	00	07	00	01	af	09
244	1,	1705:	DTE	1705	89.603155	2.592634	a0	00	00	03	00	01	af	0d

```
245
246      1,      1713: DTE   1713      93.351670   3.733781 a0 00 00 07 00 3f af 37
247      1,      1721: DTE   1721      96.347073   2.980669 a0 00 00 03 00 3f af 33
248
249 There were a total of      1728 bytes transferred
250
251 There were a total of          0 DCE bytes transferred
252 The first DCE byte came in at 0.000000 seconds from the start of data collection
253 The last DCE byte was at 0.000000 seconds from the start of data collection
254
255 There were a total of      1728 DTE bytes transferred
256 The first DTE byte came in at 0.000000 seconds from the start of data collection
257 The last DTE byte was at 96.361809 seconds from the start of data collection
258
```


3.17 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: _____.

3.17.1 29may07s.out

```

1  $ Id: MakeSecs.l,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2  $Header: d:/1stLooks/Combined/RCS/29MAY07S.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

```

¹⁹\$Header: d:/1stLooks/Combined/RCS/Kalatel.inc,v 1.2 2007-12-31 08:22:15-08 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
```

3.18 Kalatel CyperDome

This data was collected from a an Integral Technologies, DS XPress DVR on 19DEC07.

1. Baud: **4800**
2. Hello Message: **No**
3. Minimum Camera Address: **0**
4. Maximum Camera Address: **511**
5. Minimum Preset Number: **1**
6. Maximum Preset Number: **63**
7. Do we have an “official” protocol document? **No**
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: _____.

3.18.1 19DEC07D.out

```

1  Integral Technologies DS XPress DVR
2  DTE = From the DVR
3  DCE = nothing, no dome was attached
4  4800 baud
5  No parity
6  Kalatel CyperDome
7
8
9  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
10 $Header: d:/1stLooks/Combined/RCS/19DEC07D.out,v 1.2 2007-12-19 12:35:31-08 Hamilton Exp Hamilton $
11 FTS capture buffer (12/19/2007 7:15:32 AM)
12 Event 1 (12/19/2007 7:12:42.444890 AM) through
13 Event 2,480 (12/19/2007 7:15:13.523157 AM)
14
15
16      1,      1: DTE      1      0.000000  0.000000 30 31 4c 30 30 31 7e
17      1,      8: DTE      8      0.168097  0.155406 30 31 55 30 30 31 7e
18
19      1,     15: DTE     15      0.918192  0.737469 30 33 55 30 30 31 7e
20
21      1,     22: DTE     22      1.270597  0.339783 30 35 55 30 30 31 7e
22
23      1,     29: DTE     29      2.267355  0.984133 30 37 55 30 30 31 7e
24
25      1,     36: DTE     36      2.995465  0.715472 30 39 55 30 30 31 7e
26
27      1,     43: DTE     43      3.177498  0.169406 31 31 55 30 30 31 7e
28      1,     50: DTE     50      3.367510  0.177388 31 33 55 30 30 31 7e

```

²⁰\$Header: d:/1stLooks/Combined/RCS/DSXkal.inc,v 1.2 2007-12-31 09:06:36-08 Hamilton Exp Hamilton \$

29	1,	57:	DTE	57	5.009698	1.629562	31	35	55	30	30	31	7e
30													
31	1,	64:	DTE	64	5.232758	0.210435	31	37	55	30	30	31	7e
32	1,	71:	DTE	71	5.500816	0.255419	31	39	55	30	30	31	7e
33	1,	78:	DTE	78	5.865871	0.352427	32	31	55	30	30	31	7e
34	1,	85:	DTE	85	6.096897	0.218402	32	33	55	30	30	31	7e
35	1,	92:	DTE	92	6.343941	0.234416	32	35	55	30	30	31	7e
36	1,	99:	DTE	99	6.512939	0.156357	32	36	55	30	30	31	7e
37	1,	106:	DTE	106	6.736989	0.211413	32	38	55	30	30	31	7e
38	1,	113:	DTE	113	7.456077	0.706461	30	30	75	30	30	31	7e
39													
40	1,	120:	DTE	120	7.625101	0.156384	30	30	64	30	30	31	7e
41	1,	127:	DTE	127	7.794111	0.156538	30	30	6c	30	30	31	7e
42	1,	134:	DTE	134	7.962144	0.155394	30	30	72	30	30	31	7e
43	1,	141:	DTE	141	9.914440	1.939656	30	31	55	30	30	31	7e
44													
45	1,	148:	DTE	148	10.204438	0.277361	30	33	55	30	30	31	7e
46	1,	155:	DTE	155	10.513498	0.296421	30	31	55	30	30	31	7e
47	1,	162:	DTE	162	10.844544	0.318581	30	33	55	30	30	31	7e
48	1,	169:	DTE	169	11.346586	0.489405	30	31	55	30	30	31	7e
49													
50	1,	176:	DTE	176	11.514630	0.155419	30	31	52	30	30	31	7e
51	1,	183:	DTE	183	11.683642	0.156384	30	31	55	30	30	31	7e
52	1,	190:	DTE	190	11.852678	0.156408	30	33	52	30	30	31	7e
53	1,	197:	DTE	197	12.020699	0.155393	30	31	55	30	30	31	7e
54	1,	204:	DTE	204	12.189723	0.156396	30	31	52	30	30	31	7e
55	1,	211:	DTE	211	12.358683	0.156334	30	31	55	30	30	31	7e
56	1,	218:	DTE	218	12.526765	0.155392	30	31	52	30	30	31	7e
57	1,	225:	DTE	225	12.695802	0.156408	30	33	55	30	30	31	7e
58	1,	232:	DTE	232	12.863785	0.155342	30	31	52	30	30	31	7e
59	1,	239:	DTE	239	13.032820	0.156407	30	35	55	30	30	31	7e
60	1,	246:	DTE	246	13.201833	0.156552	30	33	52	30	30	31	7e
61	1,	253:	DTE	253	13.369866	0.155393	30	35	55	30	30	31	7e
62	1,	260:	DTE	260	13.538916	0.156423	30	33	52	30	30	31	7e
63	1,	267:	DTE	267	13.705930	0.154388	30	37	55	30	30	31	7e
64	1,	274:	DTE	274	13.876936	0.158376	30	33	52	30	30	31	7e
65	1,	281:	DTE	281	14.044971	0.155395	30	39	55	30	30	31	7e
66	1,	288:	DTE	288	14.212991	0.155381	30	33	52	30	30	31	7e
67	1,	295:	DTE	295	14.382000	0.156381	31	31	55	30	30	31	7e
68	1,	302:	DTE	302	14.551024	0.156383	30	35	52	30	30	31	7e
69	1,	309:	DTE	309	14.719058	0.155394	31	31	55	30	30	31	7e
70	1,	316:	DTE	316	14.888081	0.156396	30	35	52	30	30	31	7e
71	1,	323:	DTE	323	15.057078	0.156369	31	33	55	30	30	31	7e
72	1,	330:	DTE	330	15.225128	0.155422	30	37	52	30	30	31	7e
73	1,	337:	DTE	337	15.394151	0.156397	31	33	55	30	30	31	7e
74	1,	344:	DTE	344	15.563173	0.156383	30	37	52	30	30	31	7e
75	1,	351:	DTE	351	15.735205	0.159391	31	35	55	30	30	31	7e
76	1,	358:	DTE	358	15.904228	0.156397	30	39	52	30	30	31	7e
77	1,	365:	DTE	365	16.073253	0.156398	31	35	55	30	30	31	7e
78	1,	372:	DTE	372	16.245257	0.159380	31	31	52	30	30	31	7e
79	1,	379:	DTE	379	16.414331	0.156434	31	35	55	30	30	31	7e
80	1,	386:	DTE	386	16.583318	0.156359	31	31	52	30	30	31	7e
81	1,	393:	DTE	393	16.751323	0.155380	31	37	55	30	30	31	7e
82	1,	400:	DTE	400	16.920359	0.156395	31	31	52	30	30	31	7e
83	1,	407:	DTE	407	17.089382	0.156394	31	39	55	30	30	31	7e
84	1,	414:	DTE	414	17.261459	0.159435	31	31	52	30	30	31	7e
85	1,	421:	DTE	421	17.430427	0.156372	32	31	55	30	30	31	7e
86	1,	428:	DTE	428	17.599436	0.156384	31	33	52	30	30	31	7e
87	1,	435:	DTE	435	17.767468	0.155406	32	31	55	30	30	31	7e
88	1,	442:	DTE	442	17.938485	0.158374	31	33	52	30	30	31	7e
89	1,	449:	DTE	449	18.105543	0.154430	32	33	55	30	30	31	7e
90	1,	456:	DTE	456	18.277534	0.159351	31	33	52	30	30	31	7e
91	1,	463:	DTE	463	18.446601	0.156426	32	35	55	30	30	31	7e
92	1,	470:	DTE	470	18.615581	0.156396	31	35	52	30	30	31	7e
93	1,	477:	DTE	477	18.787613	0.159404	32	35	55	30	30	31	7e
94	1,	484:	DTE	484	18.956638	0.156385	31	37	52	30	30	31	7e
95	1,	491:	DTE	491	19.125657	0.156395	32	35	55	30	30	31	7e
96	1,	498:	DTE	498	19.293681	0.155561	31	39	52	30	30	31	7e
97	1,	505:	DTE	505	19.462704	0.156398	32	35	55	30	30	31	7e
98	1,	512:	DTE	512	19.630762	0.155432	31	39	52	30	30	31	7e
99	1,	519:	DTE	519	19.799748	0.156383	32	36	55	30	30	31	7e
100	1,	526:	DTE	526	19.968777	0.156389	31	39	52	30	30	31	7e

101	1,	533:	DTE	533	20.136692	0.155279	32	38	55	30	30	31	7e
102	1,	540:	DTE	540	20.305818	0.156310	32	31	52	30	30	31	7e
103	1,	547:	DTE	547	20.473851	0.155408	32	38	55	30	30	31	7e
104	1,	554:	DTE	554	20.645879	0.159399	30	30	75	30	30	31	7e
105	1,	561:	DTE	561	20.815882	0.157386	30	30	64	30	30	31	7e
106	1,	568:	DTE	568	20.984892	0.156383	30	30	6c	30	30	31	7e
107	1,	575:	DTE	575	21.152936	0.155404	30	30	72	30	30	31	7e
108	1,	582:	DTE	582	21.322001	0.156435	30	30	49	30	30	31	7e
109	1,	589:	DTE	589	23.092184	1.757543	30	31	52	30	30	31	7e
110													
111	1,	596:	DTE	596	24.273382	1.168572	30	33	52	30	30	31	7e
112													
113	1,	603:	DTE	603	24.441399	0.155392	30	35	52	30	30	31	7e
114													
115	1,	610:	DTE	610	24.665438	0.211422	30	37	52	30	30	31	7e
116													
117	1,	617:	DTE	617	24.987444	0.309377	30	39	52	30	30	31	7e
118													
119	1,	624:	DTE	624	25.553345	0.553260	31	31	52	30	30	31	7e
120													
121	1,	631:	DTE	631	25.743393	0.177242	31	33	52	30	30	31	7e
122													
123	1,	638:	DTE	638	26.019605	0.263441	31	35	52	30	30	31	7e
124													
125	1,	645:	DTE	645	26.584605	0.552374	31	37	52	30	30	31	7e
126													
127	1,	652:	DTE	652	27.150572	0.553262	31	39	52	30	30	31	7e
128													
129	1,	659:	DTE	659	27.532872	0.369495	32	31	52	30	30	31	7e
130													
131	1,	666:	DTE	666	27.722834	0.177321	32	33	52	30	30	31	7e
132	1,	673:	DTE	673	28.087874	0.352413	32	35	52	30	30	31	7e
133													
134	1,	680:	DTE	680	28.440908	0.340409	32	36	52	30	30	31	7e
135													
136	1,	687:	DTE	687	28.942093	0.488726	32	38	52	30	30	31	7e
137													
138	1,	694:	DTE	694	29.683083	0.728364	30	30	75	30	30	31	7e
139													
140	1,	701:	DTE	701	29.852105	0.156384	30	30	64	30	30	31	7e
141	1,	708:	DTE	708	30.021094	0.156362	30	30	6c	30	30	31	7e
142	1,	715:	DTE	715	30.193160	0.159392	30	30	72	30	30	31	7e
143	1,	722:	DTE	722	32.326443	2.120657	30	30	49	30	30	31	7e
144													
145	1,	729:	DTE	729	33.302588	0.963521	30	31	52	30	30	31	7e
146													
147	1,	736:	DTE	736	33.791635	0.476421	30	31	52	30	30	31	7e
148													
149	1,	743:	DTE	743	33.959670	0.155393	30	31	44	30	30	31	7e
150	1,	750:	DTE	750	34.320700	0.348404	30	31	52	30	30	31	7e
151													
152	1,	757:	DTE	757	34.489735	0.156396	30	33	44	30	30	31	7e
153	1,	764:	DTE	764	34.700778	0.198401	30	33	52	30	30	31	7e
154	1,	771:	DTE	771	34.869800	0.156396	30	33	44	30	30	31	7e
155	1,	778:	DTE	778	35.037808	0.155369	30	33	52	30	30	31	7e
156	1,	785:	DTE	785	35.206842	0.156394	30	35	44	30	30	31	7e
157	1,	792:	DTE	792	35.374855	0.155384	30	35	52	30	30	31	7e
158	1,	799:	DTE	799	35.543875	0.156550	30	35	44	30	30	31	7e
159	1,	806:	DTE	806	35.712900	0.156398	30	35	52	30	30	31	7e
160	1,	813:	DTE	813	35.880945	0.155419	30	37	44	30	30	31	7e
161	1,	820:	DTE	820	36.049931	0.156357	30	37	52	30	30	31	7e
162	1,	827:	DTE	827	36.218953	0.156383	30	37	44	30	30	31	7e
163	1,	834:	DTE	834	36.386999	0.155405	30	37	52	30	30	31	7e
164	1,	841:	DTE	841	36.556023	0.156397	30	39	44	30	30	31	7e
165	1,	848:	DTE	848	36.725047	0.156396	30	39	52	30	30	31	7e
166	1,	855:	DTE	855	36.897052	0.159378	30	39	44	30	30	31	7e
167	1,	862:	DTE	862	37.066075	0.156382	30	39	52	30	30	31	7e
168	1,	869:	DTE	869	37.235140	0.156424	31	31	44	30	30	31	7e
169	1,	876:	DTE	876	37.403133	0.155368	31	31	52	30	30	31	7e
170	1,	883:	DTE	883	37.572156	0.156383	31	31	44	30	30	31	7e
171	1,	890:	DTE	890	37.740525	0.155728	31	31	52	30	30	31	7e
172	1,	897:	DTE	897	37.909200	0.156045	31	33	44	30	30	31	7e

173	1,	904:	DTE	904	38.078212	0.156384	31	31	52	30	30	31	7e
174	1,	911:	DTE	911	38.246246	0.155395	31	35	44	30	30	31	7e
175	1,	918:	DTE	918	38.415269	0.156397	31	33	52	30	30	31	7e
176	1,	925:	DTE	925	38.583277	0.155382	31	35	44	30	30	31	7e
177	1,	932:	DTE	932	38.752132	0.156217	31	33	52	30	30	31	7e
178	1,	939:	DTE	939	38.921324	0.156384	31	37	44	30	30	31	7e
179	1,	946:	DTE	946	39.089344	0.155394	31	35	52	30	30	31	7e
180	1,	953:	DTE	953	39.258394	0.156409	31	37	44	30	30	31	7e
181	1,	960:	DTE	960	39.427456	0.156434	31	35	52	30	30	31	7e
182	1,	967:	DTE	967	39.595437	0.155354	31	39	44	30	30	31	7e
183	1,	974:	DTE	974	39.764448	0.156370	31	37	52	30	30	31	7e
184	1,	981:	DTE	981	39.933458	0.156369	31	39	44	30	30	31	7e
185	1,	988:	DTE	988	40.105504	0.159405	31	37	52	30	30	31	7e
186	1,	995:	DTE	995	40.274347	0.156216	32	31	44	30	30	31	7e
187	1,	1002:	DTE	1002	40.443549	0.156408	31	39	52	30	30	31	7e
188	1,	1009:	DTE	1009	40.611559	0.155382	32	31	44	30	30	31	7e
189	1,	1016:	DTE	1016	40.780594	0.156409	31	39	52	30	30	31	7e
190	1,	1023:	DTE	1023	40.949605	0.156384	32	33	44	30	30	31	7e
191	1,	1030:	DTE	1030	41.117624	0.155511	31	39	52	30	30	31	7e
192	1,	1037:	DTE	1037	41.286495	0.156230	32	35	44	30	30	31	7e
193	1,	1044:	DTE	1044	41.455988	0.156686	32	31	52	30	30	31	7e
194	1,	1051:	DTE	1051	41.623705	0.154963	32	35	44	30	30	31	7e
195	1,	1058:	DTE	1058	41.792729	0.156483	32	31	52	30	30	31	7e
196	1,	1065:	DTE	1065	41.961755	0.156384	32	36	44	30	30	31	7e
197	1,	1072:	DTE	1072	42.133773	0.159380	32	31	52	30	30	31	7e
198	1,	1079:	DTE	1079	42.302783	0.156505	32	38	44	30	30	31	7e
199	1,	1086:	DTE	1086	42.471831	0.156410	32	33	52	30	30	31	7e
200	1,	1093:	DTE	1093	42.639826	0.155368	32	38	44	30	30	31	7e
201	1,	1100:	DTE	1100	42.808875	0.156410	30	30	75	30	30	31	7e
202	1,	1107:	DTE	1107	42.977937	0.156434	30	30	64	30	30	31	7e
203	1,	1114:	DTE	1114	43.149955	0.159391	30	30	6c	30	30	31	7e
204	1,	1121:	DTE	1121	43.322939	0.160356	30	30	72	30	30	31	7e
205													
206	1,	1128:	DTE	1128	47.156454	3.820889	30	33	4c	30	30	31	7e
207													
208	1,	1135:	DTE	1135	48.379592	1.210512	30	31	44	30	30	31	7e
209													
210	1,	1142:	DTE	1142	48.548642	0.156411	30	33	44	30	30	31	7e
211	1,	1149:	DTE	1149	49.417758	0.856491	30	35	44	30	30	31	7e
212													
213	1,	1156:	DTE	1156	50.153876	0.723481	30	37	44	30	30	31	7e
214													
215	1,	1163:	DTE	1163	50.484918	0.318416	30	39	44	30	30	31	7e
216													
217	1,	1170:	DTE	1170	51.030007	0.532449	31	31	44	30	30	31	7e
218													
219	1,	1177:	DTE	1177	51.694071	0.651476	31	33	44	30	30	31	7e
220													
221	1,	1184:	DTE	1184	51.866076	0.159379	31	35	44	30	30	31	7e
222	1,	1191:	DTE	1191	52.402144	0.523428	31	37	44	30	30	31	7e
223													
224	1,	1198:	DTE	1198	52.571166	0.156383	31	39	44	30	30	31	7e
225	1,	1205:	DTE	1205	52.740203	0.156397	32	31	44	30	30	31	7e
226	1,	1212:	DTE	1212	52.908225	0.155382	32	33	44	30	30	31	7e
227	1,	1219:	DTE	1219	53.077248	0.156385	32	35	44	30	30	31	7e
228	1,	1226:	DTE	1226	53.882366	0.792477	32	36	44	30	30	31	7e
229													
230	1,	1233:	DTE	1233	54.050361	0.155357	32	38	44	30	30	31	7e
231	1,	1240:	DTE	1240	55.035518	0.972518	30	30	75	30	30	31	7e
232													
233	1,	1247:	DTE	1247	55.208564	0.160422	30	30	64	30	30	31	7e
234	1,	1254:	DTE	1254	55.375567	0.154378	30	30	6c	30	30	31	7e
235	1,	1261:	DTE	1261	55.545580	0.157373	30	30	72	30	30	31	7e
236	1,	1268:	DTE	1268	58.905034	3.346827	30	37	4c	30	30	31	7e
237													
238	1,	1275:	DTE	1275	59.675152	0.757480	30	31	4c	30	30	31	7e
239													
240	1,	1282:	DTE	1282	60.361245	0.673467	30	33	4c	30	30	31	7e
241													
242	1,	1289:	DTE	1289	60.528251	0.154380	30	33	4c	30	30	31	7e
243	1,	1296:	DTE	1296	60.698264	0.157374	30	31	44	30	30	31	7e
244	1,	1303:	DTE	1303	60.867313	0.156424	30	33	4c	30	30	31	7e

245	1,	1310:	DTE	1310	61.035319	0.155368	30	33	44	30	30	31	7e
246	1,	1317:	DTE	1317	61.557418	0.509471	30	35	4c	30	30	31	7e
247													
248	1,	1324:	DTE	1324	61.727416	0.157374	30	33	44	30	30	31	7e
249	1,	1331:	DTE	1331	61.896453	0.156398	30	37	4c	30	30	31	7e
250	1,	1338:	DTE	1338	62.064491	0.155412	30	33	44	30	30	31	7e
251	1,	1345:	DTE	1345	62.233498	0.156538	30	37	4c	30	30	31	7e
252	1,	1352:	DTE	1352	62.401530	0.155573	30	35	44	30	30	31	7e
253	1,	1359:	DTE	1359	62.576361	0.162203	30	39	4c	30	30	31	7e
254	1,	1366:	DTE	1366	62.743614	0.154559	30	35	44	30	30	31	7e
255	1,	1373:	DTE	1373	62.912779	0.156537	30	39	4c	30	30	31	7e
256	1,	1380:	DTE	1380	63.080632	0.155223	30	37	44	30	30	31	7e
257	1,	1387:	DTE	1387	63.249670	0.156411	30	39	4c	30	30	31	7e
258	1,	1394:	DTE	1394	63.417569	0.155259	30	39	44	30	30	31	7e
259	1,	1401:	DTE	1401	63.586661	0.156382	31	31	4c	30	30	31	7e
260	1,	1408:	DTE	1408	63.755710	0.156408	30	39	44	30	30	31	7e
261	1,	1415:	DTE	1415	63.923718	0.155368	31	31	4c	30	30	31	7e
262	1,	1422:	DTE	1422	64.092795	0.156450	31	31	44	30	30	31	7e
263	1,	1429:	DTE	1429	64.261793	0.156372	31	31	4c	30	30	31	7e
264	1,	1436:	DTE	1436	64.433797	0.159379	31	33	44	30	30	31	7e
265	1,	1443:	DTE	1443	64.602805	0.156368	31	33	4c	30	30	31	7e
266	1,	1450:	DTE	1450	64.770840	0.155395	31	33	44	30	30	31	7e
267	1,	1457:	DTE	1457	64.939759	0.156279	31	33	4c	30	30	31	7e
268	1,	1464:	DTE	1464	65.108875	0.156358	31	35	44	30	30	31	7e
269	1,	1471:	DTE	1471	65.277913	0.156565	31	35	4c	30	30	31	7e
270	1,	1478:	DTE	1478	65.445932	0.155382	31	35	44	30	30	31	7e
271	1,	1485:	DTE	1485	65.614942	0.156382	31	33	4c	30	30	31	7e
272	1,	1492:	DTE	1492	65.783990	0.156420	31	35	44	30	30	31	7e
273	1,	1499:	DTE	1499	65.952000	0.155366	31	33	4c	30	30	31	7e
274	1,	1506:	DTE	1506	66.121010	0.156370	31	33	44	30	30	31	7e
275	1,	1513:	DTE	1513	66.294031	0.160382	31	33	4c	30	30	31	7e
276	1,	1520:	DTE	1520	66.461949	0.155278	31	35	44	30	30	31	7e
277	1,	1527:	DTE	1527	66.640138	0.165446	31	33	4c	30	30	31	7e
278	1,	1534:	DTE	1534	66.808094	0.155331	31	37	44	30	30	31	7e
279	1,	1541:	DTE	1541	66.977132	0.156399	31	33	4c	30	30	31	7e
280	1,	1548:	DTE	1548	67.146153	0.156396	31	39	44	30	30	31	7e
281	1,	1555:	DTE	1555	67.314021	0.155241	31	35	4c	30	30	31	7e
282	1,	1562:	DTE	1562	67.487198	0.160383	31	39	44	30	30	31	7e
283	1,	1569:	DTE	1569	67.656231	0.156409	31	35	4c	30	30	31	7e
284	1,	1576:	DTE	1576	67.825240	0.156368	32	31	44	30	30	31	7e
285	1,	1583:	DTE	1583	67.997277	0.159409	31	37	4c	30	30	31	7e
286	1,	1590:	DTE	1590	68.166297	0.156385	32	31	44	30	30	31	7e
287	1,	1597:	DTE	1597	68.335373	0.156449	31	39	4c	30	30	31	7e
288	1,	1604:	DTE	1604	68.503354	0.155342	32	31	44	30	30	31	7e
289	1,	1611:	DTE	1611	68.672378	0.156397	31	39	4c	30	30	31	7e
290	1,	1618:	DTE	1618	68.839382	0.154356	32	33	44	30	30	31	7e
291	1,	1625:	DTE	1625	69.013394	0.161385	31	39	4c	30	30	31	7e
292	1,	1632:	DTE	1632	69.182442	0.156422	32	35	44	30	30	31	7e
293	1,	1639:	DTE	1639	69.351468	0.156399	31	39	4c	30	30	31	7e
294	1,	1646:	DTE	1646	69.519447	0.155354	32	36	44	30	30	31	7e
295	1,	1653:	DTE	1653	69.688496	0.156408	32	31	4c	30	30	31	7e
296	1,	1660:	DTE	1660	69.857521	0.156397	32	36	44	30	30	31	7e
297	1,	1667:	DTE	1667	70.025554	0.155407	32	31	4c	30	30	31	7e
298	1,	1674:	DTE	1674	70.194563	0.156367	32	38	44	30	30	31	7e
299	1,	1681:	DTE	1681	70.363653	0.156438	32	33	4c	30	30	31	7e
300	1,	1688:	DTE	1688	70.531609	0.155316	32	38	44	30	30	31	7e
301	1,	1695:	DTE	1695	70.700660	0.156411	30	30	75	30	30	31	7e
302	1,	1702:	DTE	1702	70.868680	0.155395	30	30	64	30	30	31	7e
303	1,	1709:	DTE	1709	71.037716	0.156397	30	30	6c	30	30	31	7e
304	1,	1716:	DTE	1716	71.205708	0.155366	30	30	72	30	30	31	7e
305	1,	1723:	DTE	1723	71.934827	0.716657	30	39	4c	30	30	31	7e
306													
307	1,	1730:	DTE	1730	72.469866	0.522414	30	31	4c	30	30	31	7e
308													
309	1,	1737:	DTE	1737	72.941961	0.459456	30	33	4c	30	30	31	7e
310													
311	1,	1744:	DTE	1744	73.414031	0.459444	30	35	4c	30	30	31	7e
312													
313	1,	1751:	DTE	1751	73.779058	0.352400	30	37	4c	30	30	31	7e
314													
315	1,	1758:	DTE	1758	74.140126	0.348442	30	39	4c	30	30	31	7e
316													

317	1,	1765:	DTE	1765	74.612182	0.459430	31	31	4c	30	30	31	7e
318													
319	1,	1772:	DTE	1772	74.943237	0.318429	31	33	4c	30	30	31	7e
320													
321	1,	1779:	DTE	1779	75.372260	0.416383	31	35	4c	30	30	31	7e
322													
323	1,	1786:	DTE	1786	75.779318	0.394540	31	37	4c	30	30	31	7e
324													
325	1,	1793:	DTE	1793	76.119369	0.327412	31	39	4c	30	30	31	7e
326													
327	1,	1800:	DTE	1800	76.534448	0.402452	32	31	4c	30	30	31	7e
328													
329	1,	1807:	DTE	1807	77.157366	0.610292	32	33	4c	30	30	31	7e
330													
331	1,	1814:	DTE	1814	77.522560	0.352399	32	35	4c	30	30	31	7e
332													
333	1,	1821:	DTE	1821	78.152665	0.617479	32	36	4c	30	30	31	7e
334													
335	1,	1828:	DTE	1828	78.431689	0.266386	32	38	4c	30	30	31	7e
336													
337	1,	1835:	DTE	1835	79.351830	0.907516	30	30	75	30	30	31	7e
338													
339	1,	1842:	DTE	1842	79.520729	0.156272	30	30	64	30	30	31	7e
340	1,	1849:	DTE	1849	79.689904	0.156423	30	30	6c	30	30	31	7e
341	1,	1856:	DTE	1856	79.857885	0.155354	30	30	72	30	30	31	7e
342	1,	1863:	DTE	1863	83.315333	3.444810	30	39	4c	30	30	31	7e
343													
344	1,	1870:	DTE	1870	83.484367	0.156394	30	31	55	30	30	31	7e
345	1,	1877:	DTE	1877	83.772402	0.275407	30	31	4c	30	30	31	7e
346													
347	1,	1884:	DTE	1884	83.941426	0.156396	30	31	55	30	30	31	7e
348	1,	1891:	DTE	1891	84.109460	0.155406	30	31	4c	30	30	31	7e
349	1,	1898:	DTE	1898	84.278485	0.156384	30	33	55	30	30	31	7e
350	1,	1905:	DTE	1905	84.447493	0.156383	30	31	4c	30	30	31	7e
351	1,	1912:	DTE	1912	84.619525	0.159405	30	35	55	30	30	31	7e
352	1,	1919:	DTE	1919	84.788549	0.156385	30	33	4c	30	30	31	7e
353	1,	1926:	DTE	1926	84.957572	0.156409	30	35	55	30	30	31	7e
354	1,	1933:	DTE	1933	85.125605	0.155394	30	33	4c	30	30	31	7e
355	1,	1940:	DTE	1940	85.294618	0.156385	30	37	55	30	30	31	7e
356	1,	1947:	DTE	1947	85.463640	0.156396	30	35	4c	30	30	31	7e
357	1,	1954:	DTE	1954	85.631496	0.155217	30	37	55	30	30	31	7e
358	1,	1961:	DTE	1961	85.800696	0.156396	30	35	4c	30	30	31	7e
359	1,	1968:	DTE	1968	85.969719	0.156395	30	39	55	30	30	31	7e
360	1,	1975:	DTE	1975	86.141713	0.159353	30	35	4c	30	30	31	7e
361	1,	1982:	DTE	1982	86.310806	0.156454	31	31	55	30	30	31	7e
362	1,	1989:	DTE	1989	86.479812	0.156436	30	37	4c	30	30	31	7e
363	1,	1996:	DTE	1996	86.647805	0.155366	31	31	55	30	30	31	7e
364	1,	2003:	DTE	2003	86.816803	0.156371	30	37	4c	30	30	31	7e
365	1,	2010:	DTE	2010	86.985840	0.156396	31	33	55	30	30	31	7e
366	1,	2017:	DTE	2017	87.157896	0.159417	30	37	4c	30	30	31	7e
367	1,	2024:	DTE	2024	87.326896	0.156358	31	35	55	30	30	31	7e
368	1,	2031:	DTE	2031	87.495905	0.156370	30	39	4c	30	30	31	7e
369	1,	2038:	DTE	2038	87.663939	0.155407	31	35	55	30	30	31	7e
370	1,	2045:	DTE	2045	87.832949	0.156370	30	39	4c	30	30	31	7e
371	1,	2052:	DTE	2052	88.000997	0.155407	31	37	55	30	30	31	7e
372	1,	2059:	DTE	2059	88.170008	0.156385	30	39	4c	30	30	31	7e
373	1,	2066:	DTE	2066	88.339044	0.156410	31	39	55	30	30	31	7e
374	1,	2073:	DTE	2073	88.507078	0.155409	31	31	4c	30	30	31	7e
375	1,	2080:	DTE	2080	88.676153	0.156450	31	39	55	30	30	31	7e
376	1,	2087:	DTE	2087	88.843106	0.154327	31	31	4c	30	30	31	7e
377	1,	2094:	DTE	2094	89.013132	0.157400	32	31	55	30	30	31	7e
378	1,	2101:	DTE	2101	89.182129	0.156369	31	31	4c	30	30	31	7e
379	1,	2108:	DTE	2108	89.350177	0.155541	32	33	55	30	30	31	7e
380	1,	2115:	DTE	2115	89.519238	0.156450	31	33	4c	30	30	31	7e
381	1,	2122:	DTE	2122	89.687208	0.155342	32	33	55	30	30	31	7e
382	1,	2129:	DTE	2129	89.856297	0.156436	31	33	4c	30	30	31	7e
383	1,	2136:	DTE	2136	90.025251	0.156380	32	35	55	30	30	31	7e
384	1,	2143:	DTE	2143	90.193274	0.155394	31	35	4c	30	30	31	7e
385	1,	2150:	DTE	2150	90.364490	0.158579	32	35	55	30	30	31	7e
386	1,	2157:	DTE	2157	90.531336	0.156398	31	35	4c	30	30	31	7e
387	1,	2164:	DTE	2164	90.699345	0.155370	32	36	55	30	30	31	7e
388	1,	2171:	DTE	2171	90.868379	0.156397	31	35	4c	30	30	31	7e

```

389      1,      2178: DTE  2178      91.037288      0.156269 32 38 55 30 30 31 7e
390      1,      2185: DTE  2185      91.206412      0.156369 31 37 4c 30 30 31 7e
391      1,      2192: DTE  2192      91.378444      0.159404 32 38 55 30 30 31 7e
392      1,      2199: DTE  2199      91.547454      0.156383 30 30 75 30 30 31 7e
393      1,      2206: DTE  2206      91.716517      0.156421 30 30 64 30 30 31 7e
394      1,      2213: DTE  2213      91.884511      0.155367 30 30 6c 30 30 31 7e
395      1,      2220: DTE  2220      92.053536      0.156397 30 30 72 30 30 31 7e
396      1,      2227: DTE  2227      96.702182      4.636008 30 31 4c 30 30 31 7e
397
398      1,      2234: DTE  2234      97.289253      0.574445 30 31 55 30 30 31 7e
399
400      1,      2241: DTE  2241      97.697311      0.395587 30 33 55 30 30 31 7e
401
402      1,      2248: DTE  2248      98.062339      0.352401 30 35 55 30 30 31 7e
403
404      1,      2255: DTE  2255      98.534474      0.459498 30 37 55 30 30 31 7e
405
406      1,      2262: DTE  2262      99.818587      1.271474 30 39 55 30 30 31 7e
407
408      1,      2269: DTE  2269     100.439719      0.608492 31 31 55 30 30 31 7e
409
410      1,      2276: DTE  2276     100.641712      0.189366 31 33 55 30 30 31 7e
411      1,      2283: DTE  2283     100.887556      0.233381 31 35 55 30 30 31 7e
412      1,      2290: DTE  2290     101.055735      0.155381 31 37 55 30 30 31 7e
413      1,      2297: DTE  2297     101.224837      0.156461 31 39 55 30 30 31 7e
414      1,      2304: DTE  2304     101.393797      0.156319 32 31 55 30 30 31 7e
415      1,      2311: DTE  2311     101.638835      0.232399 32 33 55 30 30 31 7e
416      1,      2318: DTE  2318     101.850868      0.199407 32 35 55 30 30 31 7e
417      1,      2325: DTE  2325     102.061881      0.198376 32 36 55 30 30 31 7e
418      1,      2332: DTE  2332     102.251921      0.177412 32 38 55 30 30 31 7e
419      1,      2339: DTE  2339     103.561075      1.296695 30 30 75 30 30 31 7e
420
421      1,      2346: DTE  2346     103.729119      0.155405 30 30 64 30 30 31 7e
422      1,      2353: DTE  2353     103.898143      0.156396 30 30 6c 30 30 31 7e
423      1,      2360: DTE  2360     104.067154      0.156370 30 30 72 30 30 31 7e
424      1,      2367: DTE  2367     108.676776      4.596982 30 30 49 30 30 31 7e
425
426      1,      2374: DTE  2374     111.220124      2.530708 30 30 69 30 30 31 7e
427
428      1,      2381: DTE  2381     113.485436      2.252672 30 30 4f 30 30 31 7e
429
430      1,      2388: DTE  2388     115.576699      2.078648 30 30 6f 30 30 31 7e
431
432      1,      2395: DTE  2395     118.325085      2.735747 30 30 50 30 30 31 7e
433
434      1,      2402: DTE  2402     121.171477      2.833753 30 30 70 30 30 31 7e
435
436      1,      2409: DTE  2409     122.578677      1.394561 30 30 43 30 30 31 7e
437
438      1,      2416: DTE  2416     124.361920      1.770616 30 30 63 30 30 31 7e
439
440      1,      2423: DTE  2423     126.764224      2.389679 30 30 46 30 30 31 7e
441
442      1,      2430: DTE  2430     128.589498      1.812634 30 30 66 30 30 31 7e
443
444      1,      2437: DTE  2437     130.358730      1.756607 30 30 4e 30 30 31 7e
445
446      1,      2444: DTE  2444     132.036957      1.665588 30 30 6e 30 30 31 7e
447
448      1,      2451: DTE  2451     135.485408      3.435810 30 31 45 30 30 31 7e
449
450      1,      2458: DTE  2458     139.874002      4.375954 30 31 51 30 30 31 7e
451
452      1,      2465: DTE  2465     147.380030      7.493389 30 36 33 45 30 30 31 7e
453
454      1,      2473: DTE  2473     151.063543      3.668778 30 36 33 51 30 30 31 7e
455
456 There were a total of      2480 bytes transferred
457
458 There were a total of      0 DCE bytes transferred
459 The first DCE byte came in at 0.000000 seconds from the start of data collection
460 The last DCE byte was at 0.000000 seconds from the start of data collection

```

461
462 There were a total of 2480 DTE bytes transferred
463 The first DTE byte came in at 0.000000 seconds from the start of data collection
464 The last DTE byte was at 151.078267 seconds from the start of data collection
465

3.19 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
```

3.19.1 29may07t.out

```
1 $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2 $Header: d:/1stLooks/Combined/RCS/29MAY07T.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
```

²¹\$Header: d:/1stLooks/Combined/RCS/MarkMerc.inc,v 1.2 2007-12-31 08:22:15-08 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

```


3.20 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.

3.20.1 29may07u.out

```

1  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2  $Header: d:/1stLooks/Combined/RCS/29MAY07U.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
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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
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34 34 30 03							
181	1,	3205:	DTE	3207	234.422679	0.004064	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
182	1,	3223:	DTE	3225	234.442571	0.009528	02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 34 03
183	1,	3241:	DTE	3243	234.470275	0.017183	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							
184	1,	3267:	DTE	3269	234.488294	0.002969	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
185	1,	3285:	DTE	3287	234.508813	0.010053	02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 34 03
186							
187	1,	3303:	DTE	3305	237.474228	2.955108	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
188	1,	3321:	DTE	3323	237.492814	0.008281	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
189	1,	3339:	DTE	3341	237.738509	0.235386	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							
190	1,	3365:	DTE	3367	237.770320	0.016610	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
191	1,	3383:	DTE	3385	237.788130	0.007292	02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 34 03
192	1,	3401:	DTE	3403	237.809897	0.011507	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							
193	1,	3427:	DTE	3429	237.837290	0.012447	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							
194							
195	1,	3453:	DTE	3455	238.853121	1.000678	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							
196							
197	1,	3479:	DTE	3481	239.868583	1.000262	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							
198	1,	3505:	DTE	3507	240.604300	0.719997	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
199	1,	3523:	DTE	3525	240.623510	0.008750	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
200	1,	3541:	DTE	3543	240.848739	0.214917	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							
201	1,	3567:	DTE	3569	240.868470	0.004583	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
202	1,	3585:	DTE	3587	240.888571	0.009788	02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 34 03
203	1,	3603:	DTE	3605	240.909923	0.010987	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							
204	1,	3629:	DTE	3631	240.936689	0.011718	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
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
206							
207	1,	3665:	DTE	3667	244.344566	3.380330	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
208	1,	3683:	DTE	3685	244.364424	0.009377	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
209	1,	3701:	DTE	3703	244.584703	0.209815	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 38 03
210							
211	1,	3719:	DTE	3721	245.595426	1.000366	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 38 03
212							
213	1,	3737:	DTE	3739	246.605724	1.000209	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 38 03
214	1,	3755:	DTE	3757	247.532981	0.916838	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 38 03
215	1,	3773:	DTE	3775	247.555576	0.012131	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 38 03
216	1,	3791:	DTE	3793	247.775132	0.209035	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
217							
218	1,	3809:	DTE	3811	250.878850	3.093569	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
219	1,	3827:	DTE	3829	250.900354	0.011246	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
220	1,	3845:	DTE	3847	251.120687	0.209968	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 43 03
221							
222	1,	3863:	DTE	3865	252.131621	1.000677	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 43 03
223							
224	1,	3881:	DTE	3883	253.142135	1.000261	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 43 03
225	1,	3899:	DTE	3901	253.918052	0.765661	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 43 03
226	1,	3917:	DTE	3919	253.938255	0.009895	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 43 03
227	1,	3935:	DTE	3937	254.156287	0.207670	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
228							
229	1,	3953:	DTE	3955	258.677084	4.510325	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
230	1,	3971:	DTE	3973	258.703996	0.016763	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
231	1,	3989:	DTE	3991	258.923866	0.209772	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 31 36 30 03
232							
233	1,	4007:	DTE	4009	261.958277	3.024105	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
234	1,	4025:	DTE	4027	261.978783	0.010250	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
235	1,	4043:	DTE	4045	262.204018	0.214707	02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 31 36 31 03

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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
```

3.20.2 29may07u.bl

```

1  $Header: d:/1stLooks/Combined/RCS/29MAY07U.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

3.21 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.

3.21.1 29may07v.out

```

1 $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2 $Header: d:/1stLooks/Combined/RCS/29MAY07V.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

```

²³\$Header: d:/1stLooks/Combined/RCS/Pana850.inc,v 1.4 2007-12-31 08:22:15-08 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	45	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	35				

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																			

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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

```

3.21.2 29may07v.bl

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1 $Header: d:/1stLooks/Combined/RCS/29MAY07V.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;GC7:9028108: 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		

3.22 Panasonic WV-CS584/CW-864

This data was collected from a an Integral Technologies, DS XPress DVR on 19DEC07.

1. Baud: **4800**
2. Hello Message: **No**
3. Minimum Camera Address: **1**
4. Maximum Camera Address: **255**
5. Minimum Preset Number: **1**
6. Maximum Preset Number: **64**
7. Do we have an “official” protocol document? **Yes**
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: _____.

WV-CS850(A)(B) WV-CS860A
600/650

3.22.1 19DEC07E.out

```

1  Integral Technologies DS XPress DVR
2  DTE = From the DVR
3  DCE = nothing, no dome was attached
4  4800 baud
5  No parity
6  Panasonic WV-CS584/WV-CW864
7
8
9  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
10 $Header: d:/1stLooks/Combined/RCS/19DEC07E.out,v 1.2 2007-12-19 12:35:31-08 Hamilton Exp Hamilton $
11 FTS capture buffer (12/19/2007 7:20:35 AM)
12 Event 1 (12/19/2007 7:18:03.827509 AM) through
13 Event 4,248 (12/19/2007 7:20:05.994860 AM)
14
15
16      1,      1: DTE      1      0.000000  0.000000 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 38 31 30 03
17      1,     19: DTE     19      0.787053  0.751252 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 41 30 30 03
18
19      1,     37: DTE     37      1.825262  1.002361 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 41 30 30 03
20      1,     55: DTE     55      2.009101  0.148049 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 41 30 31 03
21      1,     73: DTE     73      2.752384  0.707309 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 41 30 32 03
22      1,     91: DTE     91      3.177475  0.389301 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 41 30 33 03
23      1,    109: DTE    109      3.488484  0.275219 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 41 30 34 03
24      1,    127: DTE    127      3.879555  0.355287 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 41 30 35 03

```

²⁴\$Header: d:/1stLooks/Combined/RCS/DSXpan.inc,v 1.2 2007-12-31 09:06:36-08 Hamilton Exp Hamilton \$

25	1,	145:	DTE	145	4.418580	0.503258	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	41	30	36	03
26	1,	163:	DTE	163	5.162735	0.708350	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	41	30	37	03
27	1,	181:	DTE	181	5.970821	0.772282	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	41	30	38	03
28	1,	199:	DTE	199	6.252890	0.246265	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	41	30	39	03
29	1,	217:	DTE	217	7.021954	0.733273	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	41	30	41	03
30	1,	235:	DTE	235	7.616042	0.558285	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	41	30	42	03
31	1,	253:	DTE	253	8.091080	0.439234	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	41	30	43	03
32	1,	271:	DTE	271	8.869219	0.742335	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	41	30	44	03
33	1,	289:	DTE	289	9.237253	0.332231	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	41	30	44	03
34	1,	307:	DTE	307	10.258387	0.985331	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	41	30	44	03
35	1,	325:	DTE	325	10.818464	0.524275	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	30	30	03
36	1,	343:	DTE	343	11.106498	0.252231	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	41	30	36	03
37	1,	361:	DTE	361	11.392546	0.250245	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	35	03
38																								
39	1,	379:	DTE	379	13.482825	2.054508	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	41	30	30	03
40	1,	397:	DTE	397	13.679843	0.161214	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	41	30	31	03
41	1,	415:	DTE	415	14.154921	0.439441	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	41	30	30	03
42	1,	433:	DTE	433	14.833036	0.642312	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	30	30	03
43	1,	451:	DTE	451	15.224049	0.355211	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	30	31	03
44	1,	469:	DTE	469	15.592109	0.332255	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	31	31	03
45	1,	487:	DTE	487	15.777136	0.149224	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	31	32	03
46	1,	505:	DTE	505	16.068188	0.255251	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	31	33	03
47	1,	523:	DTE	523	16.253190	0.149197	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	31	34	03
48	1,	541:	DTE	541	16.749284	0.460290	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	31	35	03
49	1,	559:	DTE	559	16.933282	0.148209	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	31	35	03
50	1,	577:	DTE	577	17.118307	0.149222	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	32	36	03
51	1,	595:	DTE	595	17.657382	0.503271	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	32	37	03
52	1,	613:	DTE	613	17.841429	0.148243	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	33	37	03
53	1,	631:	DTE	631	18.026469	0.149248	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	34	37	03
54	1,	649:	DTE	649	18.223526	0.161264	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	34	38	03
55	1,	667:	DTE	667	18.548527	0.289209	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	34	39	03
56	1,	685:	DTE	685	18.744595	0.160276	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	35	39	03
57	1,	703:	DTE	703	18.929597	0.149210	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	35	41	03
58	1,	721:	DTE	721	19.480652	0.515254	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	35	42	03
59	1,	739:	DTE	739	19.686679	0.170238	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	36	42	03
60	1,	757:	DTE	757	19.871783	0.149480	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	36	43	03
61	1,	775:	DTE	775	20.055715	0.148128	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	37	43	03
62	1,	793:	DTE	793	20.423841	0.332323	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	38	43	03
63	1,	811:	DTE	811	20.607672	0.148027	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	39	43	03
64	1,	829:	DTE	829	20.792825	0.149248	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	39	44	03
65	1,	847:	DTE	847	20.977876	0.149261	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	42	39	44	03
66	1,	865:	DTE	865	21.712969	0.699303	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	30	30	03
67	1,	883:	DTE	883	21.999998	0.251238	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	41	30	36	03
68	1,	901:	DTE	901	22.287030	0.251240	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	35	03
69																								
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71																								
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73	1,	955:	DTE	955	26.862630	0.537269	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	43	31	30	03
74	1,	973:	DTE	973	27.167695	0.269262	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	43	32	30	03
75	1,	991:	DTE	991	27.782761	0.579265	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	43	33	30	03
76	1,	1009:	DTE	1009	28.005779	0.187216	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	43	34	30	03
77	1,	1027:	DTE	1027	28.190806	0.149223	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	43	35	30	03
78	1,	1045:	DTE	1045	28.707890	0.481382	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	43	36	30	03
79	1,	1063:	DTE	1063	29.246978	0.503288	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	43	37	30	03
80	1,	1081:	DTE	1081	29.624022	0.341239	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	43	38	30	03
81	1,	1099:	DTE	1099	29.808035	0.148209	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	43	39	30	03
82	1,	1117:	DTE	1117	30.057069	0.213246	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	43	41	30	03
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84	1,	1153:	DTE	1153	30.729165	0.268257	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	43	43	30	03
85	1,	1171:	DTE	1171	31.011210	0.246404	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	43	44	30	03
86	1,	1189:	DTE	1189	31.230245	0.183244	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	43	44	30	03
87	1,	1207:	DTE	1207	31.995324	0.729287	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	31	30	30	03
88	1,	1225:	DTE	1225	32.283384	0.252256	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	41	30	36	03
89	1,	1243:	DTE	1243	32.570741	0.251553	02	41	44	30	31	3b	47	43	37	3a	30	30	32	3				

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98	1,	1387:	DTE	1387	36.023902	0.149234	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	44	33	33	03
99	1,	1405:	DTE	1405	36.207897	0.148201	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	44	34	33	03
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101	1,	1441:	DTE	1441	36.576966	0.149250	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	44	34	35	03
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104	1,	1495:	DTE	1495	37.126001	0.144119	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	44	35	37	03
105	1,	1513:	DTE	1513	37.310051	0.148246	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	44	36	37	03
106	1,	1531:	DTE	1531	37.495090	0.149236	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	44	36	38	03
107	1,	1549:	DTE	1549	37.675104	0.144223	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	44	37	38	03
108	1,	1567:	DTE	1567	37.862225	0.151320	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	44	37	39	03
109	1,	1585:	DTE	1585	38.044164	0.146149	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	44	38	39	03
110	1,	1603:	DTE	1603	38.228225	0.148269	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	44	38	41	03
111	1,	1621:	DTE	1621	38.413214	0.149182	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	44	38	42	03
112	1,	1639:	DTE	1639	38.598228	0.149210	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	44	39	42	03
113	1,	1657:	DTE	1657	38.786261	0.152230	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	44	39	43	03
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115	1,	1693:	DTE	1693	39.155311	0.148219	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	44	41	44	03
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118	1,	1747:	DTE	1747	39.713372	0.153221	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	44	31	30	03
119	1,	1765:	DTE	1765	40.000428	0.251420	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	41	30	36	03
120	1,	1783:	DTE	1783	40.287447	0.251216	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	35	03
121	1,	1801:	DTE	1801	40.817525	0.494274	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	44	30	30	03
122	1,	1819:	DTE	1819	41.807669	0.954340	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	30	30	03
123	1,	1837:	DTE	1837	42.498801	0.655343	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	30	31	03
124	1,	1855:	DTE	1855	42.716770	0.182165	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	30	32	03
125	1,	1873:	DTE	1873	43.182851	0.430445	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	30	33	03
126	1,	1891:	DTE	1891	43.366873	0.148220	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	30	34	03
127	1,	1909:	DTE	1909	43.679936	0.277273	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	30	35	03
128	1,	1927:	DTE	1927	43.864947	0.149222	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	30	36	03
129	1,	1945:	DTE	1945	44.052966	0.152216	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	30	37	03
130	1,	1963:	DTE	1963	44.241963	0.153191	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	30	38	03
131	1,	1981:	DTE	1981	44.426001	0.148233	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	30	39	03
132	1,	1999:	DTE	1999	44.611040	0.149236	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	30	41	03
133	1,	2017:	DTE	2017	44.796095	0.149251	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	30	42	03
134	1,	2035:	DTE	2035	44.984086	0.152190	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	30	43	03
135	1,	2053:	DTE	2053	45.169153	0.149261	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	30	44	03
136	1,	2071:	DTE	2071	45.353150	0.148207	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	30	44	03
137	1,	2089:	DTE	2089	45.871210	0.482270	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	31	30	03
138	1,	2107:	DTE	2107	46.158266	0.251267	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	41	30	36	03
139	1,	2125:	DTE	2125	46.445298	0.251241	02	41	44	30	31	3b	47	43	37	3a	30	30	32	31	30	30	35	03
140	1,	2143:	DTE	2143	46.962356	0.481254	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	33	30	03
141	1,	2161:	DTE	2161	47.467448	0.469301	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	33	30	03
142	1,	2179:	DTE	2179	48.027500	0.524264	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	30	30	03
143	1,	2197:	DTE	2197	48.211547	0.148245	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	30	31	03
144	1,	2215:	DTE	2215	48.392563	0.145210	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	31	31	03
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146	1,	2251:	DTE	2251	48.760445	0.148053	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	32	32	03
147	1,	2269:	DTE	2269	48.945625	0.149211	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	32	33	03
148	1,	2287:	DTE	2287	49.129647	0.148220	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	32	34	03
149	1,	2305:	DTE	2305	49.318682	0.153245	02	41	44	30	31	3b	47	43	37	3a	39	30	32	38	45	33	34	03
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169
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217 1, 3493: DTE 3493 66.800071 0.148305 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 31 30 30 03
218 1, 3511: DTE 3511 67.088096 0.252230 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 41 30 36 03
219 1, 3529: DTE 3529 67.374176 0.250455 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 35 03
220
221 1, 3547: DTE 3547 69.720442 2.310500 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 39 30 30 03
222 1, 3565: DTE 3565 70.109505 0.353275 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 41 30 30 03
223 1, 3583: DTE 3583 70.294526 0.149218 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 41 30 31 03
224 1, 3601: DTE 3601 70.769608 0.439288 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 41 30 32 03
225 1, 3619: DTE 3619 71.021627 0.216228 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 41 30 33 03
226 1, 3637: DTE 3637 71.667707 0.610278 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 41 30 34 03
227 1, 3655: DTE 3655 72.099610 0.396099 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 41 30 35 03
228 1, 3673: DTE 3673 72.292782 0.157202 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 41 30 36 03
229 1, 3691: DTE 3691 72.477809 0.149220 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 41 30 37 03
230 1, 3709: DTE 3709 73.229934 0.716392 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 41 30 38 03
231 1, 3727: DTE 3727 73.413944 0.148221 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 41 30 39 03
232 1, 3745: DTE 3745 73.602994 0.153247 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 41 30 41 03
233 1, 3763: DTE 3763 73.788018 0.149221 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 41 30 42 03
234 1, 3781: DTE 3781 73.972030 0.148206 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 41 30 43 03
235 1, 3799: DTE 3799 74.157043 0.149210 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 41 30 44 03
236 1, 3817: DTE 3817 74.341078 0.148412 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 41 30 44 03
237 1, 3835: DTE 3835 74.744126 0.367242 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 31 30 30 03
238 1, 3853: DTE 3853 75.030182 0.250252 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 41 30 36 03
239 1, 3871: DTE 3871 75.318239 0.252267 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 35 03
240

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241      1,      3889: DTE      3889      76.749387      1.395356 02 41 44 30 31 3b 47 43 37 3a 39 30 32 32 30 30 30 03
242
243      1,      3907: DTE      3907      79.124725      2.339535 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 30 30 30 03
244      1,      3925: DTE      3925      79.411783      0.251255 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 41 30 36 03
245      1,      3943: DTE      3943      79.698776      0.251203 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 35 03
246
247      1,      3961: DTE      3961      80.788958      1.054381 02 41 44 30 31 3b 47 43 37 3a 39 30 32 36 30 30 30 03
248
249      1,      3979: DTE      3979      82.758201      1.933441 02 41 44 30 31 3b 47 43 37 3a 39 30 32 38 30 30 30 03
250      1,      3997: DTE      3997      83.041248      0.247244 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 41 30 36 03
251      1,      4015: DTE      4015      83.324282      0.247230 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 35 03
252
253      1,      4033: DTE      4033      85.562579      2.202494 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 32 03
254      1,      4051: DTE      4051      88.151952      2.553572 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 34 03
255
256      1,      4069: DTE      4069      89.968189      1.780446 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 33 03
257      1,      4087: DTE      4087      92.730571      2.726578 02 41 44 30 31 3b 47 43 37 3a 30 30 32 31 30 30 34 03
258
259      1,      4105: DTE      4105      95.568945      2.802582 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 41 03
260      1,      4123: DTE      4123      97.611236      2.006501 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
261
262      1,      4141: DTE      4141      99.085415      1.438376 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 45 03
263      1,      4159: DTE      4159      100.948684      1.827466 02 41 44 30 31 3b 47 43 37 3a 32 30 32 31 32 32 34 03
264
265      1,      4177: DTE      4177      106.309414      5.324927 02 41 44 30 31 3b 47 43 37 3a 39 30 33 30 30 30 30 03
266      1,      4195: DTE      4195      111.222056      4.876841 02 41 44 30 31 3b 47 43 37 3a 39 30 33 30 30 36 34 03
267
268      1,      4213: DTE      4213      118.240038      6.982178 02 41 44 30 31 3b 47 43 37 3a 39 30 33 30 30 33 46 03
269      1,      4231: DTE      4231      122.131552      3.855702 02 41 44 30 31 3b 47 43 37 3a 39 30 33 30 30 41 33 03
270
271      There were a total of      4248 bytes transferred
272
273      There were a total of      0 DCE bytes transferred
274      The first DCE byte came in at 0.000000 seconds from the start of data collection
275      The last DCE byte was at 0.000000 seconds from the start of data collection
276
277      There were a total of      4248 DTE bytes transferred
278      The first DTE byte came in at 0.000000 seconds from the start of data collection
279      The last DTE byte was at 122.167351 seconds from the start of data collection
280

```


3.23 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 captured. 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.

3.23.1 29may07a.out

```

1 $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2 $Header: d:/1stLooks/Combined/RCS/29MAY07A.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

```

²⁵\$Header: d:/1stLooks/Combined/RCS/Pelco-P.inc,v 1.2 2007-12-31 08:22:15-08 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														

```

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

```

3.23.2 29may07aa.out

```

1 $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2 $Header: d:/1stLooks/Combined/RCS/29MAY07AA.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

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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

```

3.24 Pelco 9750 CXT

This data was collected from a an Integral Technologies, DS XPress DVR on 19DEC07.

1. Baud: **4800**
2. Hello Message: **No**
3. Minimum Camera Address: **1**
4. Maximum Camera Address: **32**
5. Minimum Preset Number: **1**
6. Maximum Preset Number: **127**
7. Do we have an “official” protocol document? **Yes**
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: _____.

Uses P Protocol.

No Parity

3.24.1 19DEC07A.out

```

1  Integral Technologies DS XPress DVR
2  DTE = From the DVR
3  DCE = nothing, no dome was attached
4  4800 baud
5  No parity
6  Pelco 9750 CXT
7
8
9  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
10 $Header: d:/1stLooks/Combined/RCS/19DEC07A.out,v 1.2 2007-12-19 12:35:31-08 Hamilton Exp Hamilton $
11 FTS capture buffer (12/19/2007 6:58:56 AM)
12 Event 1 (12/19/2007 6:55:25.406443 AM) through
13 Event 1,800 (12/19/2007 6:58:13.223914 AM)
14
15
16 1,      1: DTE      1      0.000000  0.000000 a0 00 00 0c 03 03 af 03
17 1,      9: DTE      9      0.169115  0.154366 a0 00 00 08 00 03 af 04
18 1,     17: DTE     17      0.337071  0.153310 a0 00 00 08 00 07 af 00
19 1,     25: DTE     25      0.989129  0.637322 a0 00 00 08 00 0b af 0c
20 1,     33: DTE     33      1.587228  0.583363 a0 00 00 08 00 0f af 08
21 1,     41: DTE     41      2.043296  0.441334 a0 00 00 08 00 13 af 14
22 1,     49: DTE     49      2.934389  0.876358 a0 00 00 08 00 17 af 10
23 1,     57: DTE     57      3.201432  0.252307 a0 00 00 08 00 1b af 1c
24 1,     65: DTE     65      4.381603  1.165434 a0 00 00 08 00 1f af 18

```

²⁶\$Header: d:/1stLooks/Combined/RCS/DSX750.inc,v 1.2 2007-12-31 09:06:36-08 Hamilton Exp Hamilton \$

25	1,	73:	DTE	73	4.604636	0.208414	a0	00	00	08	00	23	af	24
26	1,	81:	DTE	81	4.774647	0.155276	a0	00	00	08	00	27	af	20
27	1,	89:	DTE	89	4.943685	0.154300	a0	00	00	08	00	2a	af	2d
28	1,	97:	DTE	97	5.111732	0.153310	a0	00	00	08	00	2f	af	28
29	1,	105:	DTE	105	5.929819	0.803338	a0	00	00	08	00	33	af	34
30	1,	113:	DTE	113	6.098828	0.154274	a0	00	00	08	00	36	af	31
31	1,	121:	DTE	121	6.267835	0.154271	a0	00	00	08	00	3a	af	3d
32	1,	129:	DTE	129	6.696916	0.414383	a0	00	00	00	00	af	0f	
33														
34	1,	137:	DTE	137	8.637150	1.925487	a0	00	00	08	00	03	af	04
35	1,	145:	DTE	145	8.819218	0.167333	a0	00	00	08	00	07	af	00
36	1,	153:	DTE	153	9.141237	0.307281	a0	00	00	08	00	0b	af	0c
37														
38	1,	161:	DTE	161	9.720325	0.564353	a0	00	00	0a	03	0b	af	0d
39	1,	169:	DTE	169	9.889348	0.154286	a0	00	00	0a	07	0b	af	09
40	1,	177:	DTE	177	10.241393	0.337309	a0	00	00	0a	07	0f	af	0d
41	1,	185:	DTE	185	10.410417	0.154275	a0	00	00	0a	0b	0f	af	01
42	1,	193:	DTE	193	10.591433	0.166280	a0	00	00	0a	0b	13	af	1d
43	1,	201:	DTE	201	10.772552	0.166385	a0	00	00	0a	0f	13	af	19
44	1,	209:	DTE	209	10.941497	0.154210	a0	00	00	0a	0f	17	af	1d
45	1,	217:	DTE	217	11.110521	0.154288	a0	00	00	0a	0f	1b	af	11
46	1,	225:	DTE	225	11.278527	0.153270	a0	00	00	0a	0f	1f	af	15
47	1,	233:	DTE	233	11.447553	0.154288	a0	00	00	0a	13	1f	af	09
48	1,	241:	DTE	241	11.615572	0.153284	a0	00	00	0a	13	23	af	35
49	1,	249:	DTE	249	11.784609	0.154387	a0	00	00	0a	17	23	af	31
50	1,	257:	DTE	257	11.953620	0.154262	a0	00	00	0a	17	27	af	35
51	1,	265:	DTE	265	12.121655	0.153446	a0	00	00	0a	1b	27	af	39
52	1,	273:	DTE	273	12.294671	0.158280	a0	00	00	0a	1b	2a	af	34
53	1,	281:	DTE	281	12.463696	0.154286	a0	00	00	0a	1f	2a	af	30
54	1,	289:	DTE	289	12.631666	0.153232	a0	00	00	0a	1f	2f	af	35
55	1,	297:	DTE	297	12.800806	0.154365	a0	00	00	0a	1f	33	af	29
56	1,	305:	DTE	305	12.970768	0.155227	a0	00	00	0a	1f	36	af	2c
57	1,	313:	DTE	313	13.137786	0.152283	a0	00	00	0a	23	36	af	10
58	1,	321:	DTE	321	13.306823	0.154438	a0	00	00	0a	27	36	af	14
59	1,	329:	DTE	329	13.475832	0.154273	a0	00	00	0a	2a	36	af	19
60	1,	337:	DTE	337	13.643829	0.153259	a0	00	00	0a	2f	36	af	1c
61	1,	345:	DTE	345	13.812876	0.154311	a0	00	00	0a	33	36	af	00
62	1,	353:	DTE	353	13.981901	0.154288	a0	00	00	00	00	af	0f	
63														
64	1,	361:	DTE	361	14.851028	0.854378	a0	00	00	20	00	00	af	2f
65														
66	1,	369:	DTE	369	15.861158	0.995380	a0	00	00	02	03	00	af	0e
67	1,	377:	DTE	377	16.772280	0.896386	a0	00	00	02	07	00	af	0a
68	1,	385:	DTE	385	16.941289	0.154275	a0	00	00	02	0b	00	af	06
69	1,	393:	DTE	393	17.114336	0.158296	a0	00	00	02	0f	00	af	02
70	1,	401:	DTE	401	17.282341	0.153268	a0	00	00	02	13	00	af	1e
71	1,	409:	DTE	409	17.451379	0.154300	a0	00	00	02	17	00	af	1a
72	1,	417:	DTE	417	17.684413	0.218297	a0	00	00	02	1b	00	af	16
73	1,	425:	DTE	425	17.972432	0.273436	a0	00	00	02	1f	00	af	12
74	1,	433:	DTE	433	18.722606	0.735422	a0	00	00	02	23	00	af	2e
75	1,	441:	DTE	441	18.894544	0.157191	a0	00	00	02	27	00	af	2a
76	1,	449:	DTE	449	19.588668	0.679513	a0	00	00	02	2a	00	af	27
77	1,	457:	DTE	457	20.252625	0.649231	a0	00	00	02	2f	00	af	22
78	1,	465:	DTE	465	20.831850	0.564355	a0	00	00	00	00	af	0f	
79														
80	1,	473:	DTE	473	25.232447	4.385864	a0	00	00	20	00	00	af	2f
81														
82	1,	481:	DTE	481	26.323568	1.076385	a0	00	00	10	00	03	af	1c
83														
84	1,	489:	DTE	489	26.492603	0.154287	a0	00	00	12	03	03	af	1d
85	1,	497:	DTE	497	27.092514	0.585175	a0	00	00	12	03	07	af	19
86	1,	505:	DTE	505	27.260703	0.153272	a0	00	00	12	07	07	af	1d
87	1,	513:	DTE	513	27.429713	0.154274	a0	00	00	12	07	0b	af	11
88	1,	521:	DTE	521	27.598757	0.154308	a0	00	00	12	07	0f	af	15
89	1,	529:	DTE	529	27.766757	0.153426	a0	00	00	12	0b	0f	af	19
90	1,	537:	DTE	537	27.956783	0.175290	a0	00	00	12	0b	13	af	05
91	1,	545:	DTE	545	28.125872	0.154355	a0	00	00	12	0f	13	af	01
92	1,	553:	DTE	553	28.293876	0.153268	a0	00	00	12	0f	17	af	05
93	1,	561:	DTE	561	28.462864	0.154248	a0	00	00	12	13	17	af	19
94	1,	569:	DTE	569	28.631887	0.154287	a0	00	00	12	13	1b	af	15
95	1,	577:	DTE	577	29.067956	0.421361	a0	00	00	12	13	1f	af	11
96	1,	585:	DTE	585	29.237954	0.155263	a0	00	00	12	17	1f	af	15

97	1,	593:	DTE	593	29.407159	0.154469	a0	00	00	12	17	23	af	29
98	1,	601:	DTE	601	29.575024	0.153114	a0	00	00	12	1b	23	af	25
99	1,	609:	DTE	609	29.744103	0.154508	a0	00	00	12	1b	27	af	21
100	1,	617:	DTE	617	29.912068	0.153231	a0	00	00	12	1b	2a	af	2c
101	1,	625:	DTE	625	30.080939	0.154301	a0	00	00	12	1f	2a	af	28
102	1,	633:	DTE	633	30.254087	0.158258	a0	00	00	12	1f	2f	af	2d
103	1,	641:	DTE	641	30.423135	0.154311	a0	00	00	12	1f	33	af	31
104	1,	649:	DTE	649	30.613228	0.175355	a0	00	00	12	1f	36	af	34
105	1,	657:	DTE	657	30.781170	0.153205	a0	00	00	12	23	36	af	08
106	1,	665:	DTE	665	30.984192	0.188286	a0	00	00	12	23	3a	af	04
107	1,	673:	DTE	673	31.917330	0.918402	a0	00	00	00	00	00	af	0f
108														
109	1,	681:	DTE	681	35.621848	3.689781	a0	00	00	04	07	00	af	0c
110														
111	1,	689:	DTE	689	37.350064	1.713480	a0	00	00	10	00	03	af	1c
112	1,	697:	DTE	697	37.517917	0.153117	a0	00	00	10	00	07	af	18
113	1,	705:	DTE	705	38.481224	0.948403	a0	00	00	10	00	0b	af	14
114	1,	713:	DTE	713	38.650232	0.154274	a0	00	00	10	00	0f	af	10
115	1,	721:	DTE	721	38.840271	0.175303	a0	00	00	10	00	0b	af	14
116	1,	729:	DTE	729	39.009299	0.154291	a0	00	00	10	00	0f	af	10
117	1,	737:	DTE	737	39.233306	0.209275	a0	00	00	10	00	13	af	0c
118	1,	745:	DTE	745	39.401327	0.153272	a0	00	00	10	00	17	af	08
119	1,	753:	DTE	753	39.574359	0.158285	a0	00	00	10	00	1b	af	04
120	1,	761:	DTE	761	39.743476	0.154379	a0	00	00	10	00	1f	af	00
121	1,	769:	DTE	769	39.910426	0.152215	a0	00	00	10	00	23	af	3c
122	1,	777:	DTE	777	40.221342	0.296178	a0	00	00	10	00	27	af	38
123	1,	785:	DTE	785	40.454738	0.218544	a0	00	00	10	00	2a	af	35
124	1,	793:	DTE	793	40.622499	0.153025	a0	00	00	10	00	2f	af	30
125	1,	801:	DTE	801	40.791520	0.154285	a0	00	00	10	00	33	af	2c
126	1,	809:	DTE	809	41.263607	0.457349	a0	00	00	10	00	36	af	29
127	1,	817:	DTE	817	41.496613	0.218272	a0	00	00	10	00	3a	af	25
128	1,	825:	DTE	825	42.352733	0.841384	a0	00	00	00	00	00	af	0f
129														
130	1,	833:	DTE	833	44.467057	2.099574	a0	00	00	04	0f	00	af	04
131	1,	841:	DTE	841	45.658190	1.176398	a0	00	00	04	03	00	af	08
132														
133	1,	849:	DTE	849	45.826196	0.153260	a0	00	00	14	03	03	af	1b
134	1,	857:	DTE	857	45.995258	0.154313	a0	00	00	14	03	07	af	1f
135	1,	865:	DTE	865	46.168243	0.158249	a0	00	00	14	07	07	af	1b
136	1,	873:	DTE	873	46.576325	0.393336	a0	00	00	14	07	0b	af	17
137	1,	881:	DTE	881	47.304414	0.713352	a0	00	00	14	0b	0b	af	1b
138	1,	889:	DTE	889	47.528448	0.209301	a0	00	00	14	0b	0f	af	1f
139	1,	897:	DTE	897	47.697473	0.154289	a0	00	00	14	0f	0f	af	1b
140	1,	905:	DTE	905	48.254530	0.542420	a0	00	00	14	13	0f	af	07
141	1,	913:	DTE	913	48.422551	0.153286	a0	00	00	14	13	13	af	1b
142	1,	921:	DTE	921	49.009634	0.572335	a0	00	00	14	13	17	af	1f
143	1,	929:	DTE	929	49.332681	0.308479	a0	00	00	14	13	1b	af	13
144	1,	937:	DTE	937	49.500687	0.153258	a0	00	00	14	17	1b	af	17
145	1,	945:	DTE	945	49.669739	0.154302	a0	00	00	14	17	1f	af	13
146	1,	953:	DTE	953	49.838748	0.154275	a0	00	00	14	17	23	af	2f
147	1,	961:	DTE	961	50.061645	0.208162	a0	00	00	14	17	27	af	2b
148	1,	969:	DTE	969	50.299828	0.223310	a0	00	00	14	1b	27	af	27
149	1,	977:	DTE	977	50.552877	0.238313	a0	00	00	14	1f	27	af	23
150	1,	985:	DTE	985	50.854881	0.287269	a0	00	00	14	1f	2a	af	2e
151	1,	993:	DTE	993	51.291938	0.422321	a0	00	00	14	23	2a	af	12
152	1,	1001:	DTE	1001	51.460974	0.154300	a0	00	00	14	23	2f	af	17
153	1,	1009:	DTE	1009	51.736013	0.260303	a0	00	00	14	27	2f	af	13
154	1,	1017:	DTE	1017	51.990076	0.239326	a0	00	00	14	2a	2f	af	1e
155	1,	1025:	DTE	1025	52.223140	0.218328	a0	00	00	14	2f	2f	af	1b
156	1,	1033:	DTE	1033	52.392082	0.154211	a0	00	00	14	2f	33	af	07
157	1,	1041:	DTE	1041	52.560127	0.153297	a0	00	00	14	2f	36	af	02
158	1,	1049:	DTE	1049	52.729173	0.154309	a0	00	00	14	2f	3a	af	0e
159	1,	1057:	DTE	1057	52.896156	0.152255	a0	00	00	14	33	3a	af	12
160	1,	1065:	DTE	1065	53.164205	0.253313	a0	00	00	00	00	00	af	0f
161														
162	1,	1073:	DTE	1073	56.856690	3.677751	a0	00	00	04	13	00	af	18
163	1,	1081:	DTE	1081	57.306769	0.435342	a0	00	00	04	03	00	af	08
164	1,	1089:	DTE	1089	58.120872	0.799355	a0	00	00	04	07	00	af	0c
165	1,	1097:	DTE	1097	58.720934	0.585316	a0	00	00	04	0b	00	af	00
166	1,	1105:	DTE	1105	59.180025	0.444354	a0	00	00	04	0f	00	af	04
167	1,	1113:	DTE	1113	59.609085	0.414327	a0	00	00	04	13	00	af	18
168	1,	1121:	DTE	1121	60.046131	0.422323	a0	00	00	04	17	00	af	1c

169	1,	1129:	DTE	1129	60.433228	0.372361	a0	00	00	04	1b	00	af	10
170	1,	1137:	DTE	1137	60.870245	0.422282	a0	00	00	04	1f	00	af	14
171	1,	1145:	DTE	1145	61.675349	0.790355	a0	00	00	04	23	00	af	28
172	1,	1153:	DTE	1153	61.887458	0.197372	a0	00	00	04	27	00	af	2c
173	1,	1161:	DTE	1161	62.055414	0.153220	a0	00	00	04	2a	00	af	21
174	1,	1169:	DTE	1169	62.224424	0.154343	a0	00	00	04	2f	00	af	24
175	1,	1177:	DTE	1177	62.405453	0.166293	a0	00	00	04	33	00	af	38
176	1,	1185:	DTE	1185	62.574490	0.154300	a0	00	00	04	36	00	af	3d
177	1,	1193:	DTE	1193	62.743501	0.154263	a0	00	00	04	3a	00	af	31
178	1,	1201:	DTE	1201	62.911533	0.153296	a0	00	00	00	00	00	af	0f
179														
180	1,	1209:	DTE	1209	65.305703	2.379433	a0	00	00	0c	17	03	af	17
181	1,	1217:	DTE	1217	65.516870	0.196264	a0	00	00	0c	03	03	af	03
182	1,	1225:	DTE	1225	65.685909	0.154300	a0	00	00	0c	07	03	af	07
183	1,	1233:	DTE	1233	65.853942	0.153284	a0	00	00	0c	07	07	af	03
184	1,	1241:	DTE	1241	66.270974	0.402295	a0	00	00	0c	07	0b	af	0f
185	1,	1249:	DTE	1249	66.439844	0.154135	a0	00	00	0c	0b	0b	af	03
186	1,	1257:	DTE	1257	66.612535	0.157789	a0	00	00	0c	0b	0f	af	07
187	1,	1265:	DTE	1265	66.789075	0.161791	a0	00	00	0c	0b	13	af	1b
188	1,	1273:	DTE	1273	66.958055	0.154233	a0	00	00	0c	0f	13	af	1f
189	1,	1281:	DTE	1281	67.126091	0.153298	a0	00	00	0c	13	13	af	03
190	1,	1289:	DTE	1289	67.295116	0.154290	a0	00	00	0c	13	17	af	07
191	1,	1297:	DTE	1297	67.510154	0.200291	a0	00	00	0c	17	17	af	03
192	1,	1305:	DTE	1305	67.679177	0.154288	a0	00	00	0c	17	1b	af	0f
193	1,	1313:	DTE	1313	67.848212	0.154298	a0	00	00	0c	17	1f	af	0b
194	1,	1321:	DTE	1321	68.021256	0.158307	a0	00	00	0c	1b	1f	af	07
195	1,	1329:	DTE	1329	68.189230	0.153247	a0	00	00	0c	1f	1f	af	03
196	1,	1337:	DTE	1337	68.358263	0.154298	a0	00	00	0c	1f	23	af	3f
197	1,	1345:	DTE	1345	68.527302	0.154301	a0	00	00	0c	1f	27	af	3b
198	1,	1353:	DTE	1353	68.695310	0.153262	a0	00	00	0c	23	27	af	07
199	1,	1361:	DTE	1361	68.864346	0.154301	a0	00	00	0c	23	2a	af	0a
200	1,	1369:	DTE	1369	69.037354	0.158271	a0	00	00	0c	27	2a	af	0e
201	1,	1377:	DTE	1377	69.205374	0.153283	a0	00	00	0c	27	2f	af	0b
202	1,	1385:	DTE	1385	69.408408	0.188297	a0	00	00	0c	2a	2f	af	06
203	1,	1393:	DTE	1393	69.577469	0.154314	a0	00	00	0c	2a	33	af	1a
204	1,	1401:	DTE	1401	69.745452	0.153412	a0	00	00	0c	2a	36	af	1f
205	1,	1409:	DTE	1409	69.914489	0.154300	a0	00	00	0c	2f	36	af	1a
206	1,	1417:	DTE	1417	70.083500	0.154275	a0	00	00	0c	33	36	af	06
207	1,	1425:	DTE	1425	70.256534	0.158300	a0	00	00	0c	33	3a	af	0a
208	1,	1433:	DTE	1433	70.423525	0.152256	a0	00	00	00	00	00	af	0f
209														
210	1,	1441:	DTE	1441	74.096039	3.657777	a0	00	00	0c	0f	03	af	0f
211														
212	1,	1449:	DTE	1449	74.265087	0.154312	a0	00	00	08	00	07	af	00
213	1,	1457:	DTE	1457	75.048175	0.768351	a0	00	00	08	00	0b	af	0c
214	1,	1465:	DTE	1465	75.272209	0.209300	a0	00	00	08	00	0f	af	08
215	1,	1473:	DTE	1473	75.612236	0.325290	a0	00	00	08	00	13	af	14
216	1,	1481:	DTE	1481	76.135197	0.508146	a0	00	00	08	00	17	af	10
217	1,	1489:	DTE	1489	76.346364	0.196266	a0	00	00	08	00	1b	af	1c
218	1,	1497:	DTE	1497	77.104381	0.743283	a0	00	00	08	00	1f	af	18
219	1,	1505:	DTE	1505	77.542510	0.423312	a0	00	00	08	00	23	af	24
220	1,	1513:	DTE	1513	77.710545	0.153299	a0	00	00	08	00	27	af	20
221	1,	1521:	DTE	1521	77.879554	0.154283	a0	00	00	08	00	2a	af	2d
222	1,	1529:	DTE	1529	78.381545	0.487255	a0	00	00	08	00	2f	af	28
223	1,	1537:	DTE	1537	78.635661	0.239426	a0	00	00	08	00	33	af	34
224	1,	1545:	DTE	1545	78.931872	0.281476	a0	00	00	08	00	36	af	31
225	1,	1553:	DTE	1553	79.100712	0.154105	a0	00	00	08	00	3a	af	3d
226	1,	1561:	DTE	1561	80.161861	1.046471	a0	00	00	00	00	00	af	0f
227														
228	1,	1569:	DTE	1569	82.825232	2.648638	a0	00	00	04	07	00	af	0c
229	1,	1577:	DTE	1577	85.812627	2.972660	a0	00	00	00	00	00	af	0f
230														
231	1,	1585:	DTE	1585	91.029320	5.201944	a0	00	00	40	00	00	af	4f
232	1,	1593:	DTE	1593	91.198368	0.154314	a0	00	00	00	00	00	af	0f
233														
234	1,	1601:	DTE	1601	91.499398	0.286293	a0	00	00	40	00	00	af	4f
235	1,	1609:	DTE	1609	93.508658	1.994526	a0	00	00	00	00	00	af	0f
236														
237	1,	1617:	DTE	1617	94.945844	1.422440	a0	00	00	20	00	00	af	2f
238	1,	1625:	DTE	1625	96.524085	1.563494	a0	00	00	00	00	00	af	0f
239														
240	1,	1633:	DTE	1633	99.024367	2.485547	a0	00	00	40	00	00	af	4f

```

241      1,      1641: DTE      1641      100.674644      1.635486 a0 00 00 00 00 00 af 0f
242
243      1,      1649: DTE      1649      103.141834      2.452620 a0 00 00 0a 27 0f af 2d
244      1,      1657: DTE      1657      103.998095      0.841345 a0 00 00 0a 3a 0f af 30
245      1,      1665: DTE      1665      106.511441      2.498598 a0 00 00 00 00 00 af 0f
246
247      1,      1673: DTE      1673      117.399903      10.873727 a0 00 08 00 00 00 af 07
248      1,      1681: DTE      1681      119.866270      2.451630 a0 00 00 00 00 00 af 0f
249
250      1,      1689: DTE      1689      120.799369      0.918363 a0 00 04 00 00 00 af 0b
251      1,      1697: DTE      1697      122.236570      1.422451 a0 00 00 00 00 00 af 0f
252
253      1,      1705: DTE      1705      123.118692      0.867387 a0 00 08 00 00 00 af 07
254      1,      1713: DTE      1713      124.029799      0.896371 a0 00 00 00 00 00 af 0f
255
256      1,      1721: DTE      1721      125.737052      1.692517 a0 00 00 12 3a 17 af 30
257      1,      1729: DTE      1729      128.408403      2.656617 a0 00 00 00 00 00 af 0f
258
259      1,      1737: DTE      1737      138.882805      10.459677 a0 00 00 12 3a 0b af 2c
260      1,      1745: DTE      1745      142.049289      3.151750 a0 00 00 00 00 00 af 0f
261
262      1,      1753: DTE      1753      142.828351      0.764326 a0 00 01 00 00 00 af 0e
263      1,      1761: DTE      1761      145.832766      2.989679 a0 00 00 00 00 00 af 0f
264
265      1,      1769: DTE      1769      152.147634      6.300134 a0 00 00 07 00 01 af 09
266
267      1,      1777: DTE      1777      157.256318      5.094003 a0 00 00 03 00 01 af 0d
268
269      1,      1785: DTE      1785      163.637178      6.366123 a0 00 00 07 00 7f af 77
270
271      1,      1793: DTE      1793      167.802735      4.150823 a0 00 00 03 00 7f af 73
272
273      There were a total of      1800 bytes transferred
274
275      There were a total of      0 DCE bytes transferred
276      The first DCE byte came in at 0.000000 seconds from the start of data collection
277      The last DCE byte was at 0.000000 seconds from the start of data collection
278
279      There were a total of      1800 DTE bytes transferred
280      The first DTE byte came in at 0.000000 seconds from the start of data collection
281      The last DTE byte was at 167.817471 seconds from the start of data collection
282

```


3.25 Pelco 9760 CXT

This data was collected from a an Integral Technologies, DS XPress DVR on 19DEC07.

1. Baud: **4800**
2. Hello Message: **No**
3. Minimum Camera Address: **1**
4. Maximum Camera Address: **32**
5. Minimum Preset Number: **1**
6. Maximum Preset Number: **127**
7. Do we have an “official” protocol document? **Yes**
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: _____.

Uses P Protocol.

3.25.1 19DEC07B.out

```

1  Integral Technologies DS XPress DVR
2  DTE = From the DVR
3  DCE = nothing, no dome was attached
4  4800 baud
5  No parity
6  Pelco 9760 CXT
7
8
9  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
10 $Header: d:/1stLooks/Combined/RCS/19DEC07B.out,v 1.2 2007-12-19 12:35:31-08 Hamilton Exp Hamilton $
11 FTS capture buffer (12/19/2007 7:07:12 AM)
12 Event 1 (12/19/2007 7:04:10.557582 AM) through
13 Event 1,768 (12/19/2007 7:05:58.659020 AM)
14
15
16 1,      1: DTE      1      0.000000  0.000000 a0 00 00 0c 07 03 af 07
17 1,      9: DTE      9      0.169034  0.154299 a0 00 00 08 00 03 af 04
18 1,     17: DTE     17      0.436068  0.252297 a0 00 00 08 00 07 af 00
19 1,     25: DTE     25      1.305181  0.854366 a0 00 00 08 00 0b af 0c
20 1,     33: DTE     33      2.204308  0.884392 a0 00 00 08 00 0f af 08
21 1,     41: DTE     41      2.373331  0.154287 a0 00 00 08 00 13 af 14
22 1,     49: DTE     49      2.703369  0.315289 a0 00 00 08 00 0f af 08
23 1,     57: DTE     57      3.184464  0.466358 a0 00 00 08 00 13 af 14
24 1,     65: DTE     65      3.353422  0.154222 a0 00 00 08 00 17 af 10
25 1,     73: DTE     73      3.606508  0.238350 a0 00 00 08 00 1b af 1c
26 1,     81: DTE     81      3.852537  0.231293 a0 00 00 08 00 1f af 18

```

²⁷\$Header: d:/1stLooks/Combined/RCS/DSX760.inc,v 1.2 2007-12-31 09:06:36-08 Hamilton Exp Hamilton \$

27	1,	89:	DTE	89	4.324608	0.457334	a0	00	00	08	00	23	af	24
28	1,	97:	DTE	97	4.646638	0.307296	a0	00	00	08	00	27	af	20
29	1,	105:	DTE	105	4.990714	0.329341	a0	00	00	08	00	2a	af	2d
30	1,	113:	DTE	113	5.201703	0.196254	a0	00	00	08	00	2f	af	28
31	1,	121:	DTE	121	5.673799	0.457347	a0	00	00	08	00	33	af	34
32	1,	129:	DTE	129	6.090831	0.402459	a0	00	00	08	00	36	af	31
33	1,	137:	DTE	137	6.343877	0.238311	a0	00	00	08	00	3a	af	3d
34	1,	145:	DTE	145	6.760935	0.402322	a0	00	00	00	00	af	0f	
35														
36	1,	153:	DTE	153	8.616168	1.840497	a0	00	00	08	00	03	af	04
37	1,	161:	DTE	161	9.020232	0.389327	a0	00	00	08	00	07	af	00
38	1,	169:	DTE	169	9.308265	0.273297	a0	00	00	08	00	0b	af	0c
39	1,	177:	DTE	177	9.908357	0.585344	a0	00	00	0a	03	0b	af	0d
40	1,	185:	DTE	185	10.077365	0.154272	a0	00	00	0a	07	0b	af	09
41	1,	193:	DTE	193	10.407431	0.315363	a0	00	00	0a	07	0f	af	0d
42	1,	201:	DTE	201	10.576441	0.154273	a0	00	00	0a	07	13	af	11
43	1,	209:	DTE	209	10.809477	0.218299	a0	00	00	0a	0b	13	af	1d
44	1,	217:	DTE	217	10.977507	0.153295	a0	00	00	0a	0b	17	af	19
45	1,	225:	DTE	225	11.146519	0.154274	a0	00	00	0a	0b	1b	af	15
46	1,	233:	DTE	233	11.319553	0.158297	a0	00	00	0a	0b	1f	af	11
47	1,	241:	DTE	241	11.487562	0.153272	a0	00	00	0a	0b	23	af	2d
48	1,	249:	DTE	249	11.656572	0.154275	a0	00	00	0a	0f	23	af	29
49	1,	257:	DTE	257	11.825635	0.154314	a0	00	00	0a	13	23	af	35
50	1,	265:	DTE	265	12.006637	0.166268	a0	00	00	0a	17	23	af	31
51	1,	273:	DTE	273	12.175632	0.154245	a0	00	00	0a	17	27	af	35
52	1,	281:	DTE	281	12.365686	0.175315	a0	00	00	0a	17	2a	af	38
53	1,	289:	DTE	289	12.632744	0.252321	a0	00	00	0a	17	2f	af	3d
54	1,	297:	DTE	297	12.801755	0.154274	a0	00	00	0a	1b	2f	af	31
55	1,	305:	DTE	305	13.088772	0.272283	a0	00	00	0a	1f	2f	af	35
56	1,	313:	DTE	313	13.419854	0.316346	a0	00	00	0a	1f	33	af	29
57	1,	321:	DTE	321	13.673901	0.239313	a0	00	00	0a	23	33	af	15
58	1,	329:	DTE	329	13.846884	0.158247	a0	00	00	0a	27	33	af	11
59	1,	337:	DTE	337	14.126961	0.265341	a0	00	00	0a	27	36	af	14
60	1,	345:	DTE	345	14.329957	0.188246	a0	00	00	0a	27	3a	af	18
61	1,	353:	DTE	353	14.497978	0.153285	a0	00	00	0a	2a	3a	af	15
62	1,	361:	DTE	361	14.667000	0.154287	a0	00	00	0a	2f	3a	af	10
63	1,	369:	DTE	369	14.836013	0.154276	a0	00	00	0a	33	3a	af	0c
64	1,	377:	DTE	377	15.004031	0.153284	a0	00	00	00	00	af	0f	
65														
66	1,	385:	DTE	385	17.470425	2.451657	a0	00	00	20	00	00	af	2f
67	1,	393:	DTE	393	18.779566	1.294404	a0	00	00	02	03	00	af	0e
68	1,	401:	DTE	401	19.529669	0.735368	a0	00	00	02	07	00	af	0a
69	1,	409:	DTE	409	20.137730	0.593325	a0	00	00	02	0b	00	af	06
70	1,	417:	DTE	417	20.566845	0.414379	a0	00	00	02	0f	00	af	02
71	1,	425:	DTE	425	20.734826	0.153245	a0	00	00	02	13	00	af	1e
72	1,	433:	DTE	433	20.903849	0.154274	a0	00	00	02	17	00	af	1a
73	1,	441:	DTE	441	21.150335	0.231749	a0	00	00	02	1b	00	af	16
74	1,	449:	DTE	449	21.488759	0.323688	a0	00	00	02	1f	00	af	12
75	1,	457:	DTE	457	21.712863	0.209200	a0	00	00	02	23	00	af	2e
76	1,	465:	DTE	465	21.958988	0.231224	a0	00	00	02	27	00	af	2a
77	1,	473:	DTE	473	22.225021	0.251305	a0	00	00	02	2a	00	af	27
78	1,	481:	DTE	481	22.480132	0.240543	a0	00	00	02	2f	00	af	22
79	1,	489:	DTE	489	22.670083	0.175261	a0	00	00	02	33	00	af	3e
80	1,	497:	DTE	497	22.928108	0.243299	a0	00	00	02	36	00	af	3b
81	1,	505:	DTE	505	23.118145	0.175290	a0	00	00	02	3a	00	af	37
82	1,	513:	DTE	513	23.620215	0.487334	a0	00	00	00	00	af	0f	
83														
84	1,	521:	DTE	521	25.638499	2.003547	a0	00	00	20	00	00	af	2f
85	1,	529:	DTE	529	26.332638	0.679405	a0	00	00	10	00	03	af	1c
86	1,	537:	DTE	537	26.500621	0.153248	a0	00	00	10	00	07	af	18
87	1,	545:	DTE	545	26.669464	0.154109	a0	00	00	12	03	07	af	19
88	1,	553:	DTE	553	26.901635	0.217270	a0	00	00	12	03	0b	af	15
89	1,	561:	DTE	561	27.126064	0.209803	a0	00	00	12	03	0f	af	11
90	1,	569:	DTE	569	27.294679	0.154246	a0	00	00	12	07	0f	af	15
91	1,	577:	DTE	577	27.462729	0.153312	a0	00	00	12	07	13	af	09
92	1,	585:	DTE	585	27.631764	0.154299	a0	00	00	12	0b	13	af	05
93	1,	593:	DTE	593	27.800789	0.154288	a0	00	00	12	0b	17	af	01
94	1,	601:	DTE	601	27.973808	0.158285	a0	00	00	12	0f	1b	af	09
95	1,	609:	DTE	609	28.140814	0.152268	a0	00	00	12	0f	1f	af	0d
96	1,	617:	DTE	617	28.310866	0.155303	a0	00	00	12	13	1f	af	11
97	1,	625:	DTE	625	28.479863	0.154260	a0	00	00	12	17	23	af	29
98	1,	633:	DTE	633	28.647772	0.153172	a0	00	00	12	1b	27	af	21

99	1,	641:	DTE	641	28.816908	0.154275	a0	00	00	12	1f	27	af	25
100	1,	649:	DTE	649	28.985225	0.153568	a0	00	00	12	23	27	af	19
101	1,	657:	DTE	657	29.153952	0.153988	a0	00	00	12	23	2a	af	14
102	1,	665:	DTE	665	29.322975	0.154274	a0	00	00	12	27	2a	af	10
103	1,	673:	DTE	673	29.490995	0.153283	a0	00	00	12	27	2f	af	15
104	1,	681:	DTE	681	29.664029	0.158298	a0	00	00	12	27	33	af	09
105	1,	689:	DTE	689	29.833055	0.154276	a0	00	00	12	2a	33	af	04
106	1,	697:	DTE	697	30.000906	0.153118	a0	00	00	12	2a	36	af	01
107	1,	705:	DTE	705	30.170095	0.154284	a0	00	00	12	2f	36	af	04
108	1,	713:	DTE	713	30.339133	0.154299	a0	00	00	12	2f	3a	af	08
109	1,	721:	DTE	721	30.507127	0.153258	a0	00	00	00	00	00	af	0f
110														
111	1,	729:	DTE	729	31.675129	1.153251	a0	00	00	04	07	00	af	0c
112	1,	737:	DTE	737	32.502416	0.812388	a0	00	00	10	00	03	af	1c
113	1,	745:	DTE	745	32.704442	0.187291	a0	00	00	10	00	07	af	18
114	1,	753:	DTE	753	33.176464	0.457295	a0	00	00	10	00	0b	af	14
115	1,	761:	DTE	761	33.926441	0.735240	a0	00	00	10	00	0f	af	10
116	1,	769:	DTE	769	34.900748	0.959405	a0	00	00	10	00	13	af	0c
117	1,	777:	DTE	777	35.331802	0.416319	a0	00	00	10	00	17	af	08
118	1,	785:	DTE	785	35.564837	0.218297	a0	00	00	10	00	1b	af	04
119	1,	793:	DTE	793	35.732745	0.153171	a0	00	00	10	00	1f	af	00
120	1,	801:	DTE	801	35.901879	0.154234	a0	00	00	10	00	23	af	3c
121	1,	809:	DTE	809	36.069976	0.153360	a0	00	00	10	00	27	af	38
122	1,	817:	DTE	817	36.238925	0.154276	a0	00	00	10	00	2a	af	35
123	1,	825:	DTE	825	36.513950	0.260289	a0	00	00	10	00	2f	af	30
124	1,	833:	DTE	833	36.704992	0.176305	a0	00	00	10	00	33	af	2c
125	1,	841:	DTE	841	36.885994	0.166266	a0	00	00	10	00	36	af	29
126	1,	849:	DTE	849	37.055017	0.154397	a0	00	00	10	00	3a	af	25
127	1,	857:	DTE	857	37.450096	0.380342	a0	00	00	00	00	00	af	0f
128														
129	1,	865:	DTE	865	39.296333	1.831501	a0	00	00	04	0f	00	af	04
130	1,	873:	DTE	873	39.662453	0.351384	a0	00	00	04	03	00	af	08
131	1,	881:	DTE	881	40.155548	0.478359	a0	00	00	14	03	03	af	1b
132	1,	889:	DTE	889	40.327492	0.157243	a0	00	00	14	03	07	af	1f
133	1,	897:	DTE	897	40.667518	0.325290	a0	00	00	14	03	03	af	1b
134	1,	905:	DTE	905	41.382623	0.700370	a0	00	00	14	03	07	af	1f
135	1,	913:	DTE	913	41.649641	0.252227	a0	00	00	14	07	07	af	1b
136	1,	921:	DTE	921	41.818691	0.154302	a0	00	00	14	07	0b	af	17
137	1,	929:	DTE	929	41.990782	0.157356	a0	00	00	14	0b	0b	af	1b
138	1,	937:	DTE	937	42.277752	0.272283	a0	00	00	14	0b	0f	af	1f
139	1,	945:	DTE	945	42.447766	0.155278	a0	00	00	14	0f	0f	af	1b
140	1,	953:	DTE	953	42.616840	0.154338	a0	00	00	14	13	0f	af	07
141	1,	961:	DTE	961	42.784796	0.153219	a0	00	00	14	13	13	af	1b
142	1,	969:	DTE	969	42.953846	0.154314	a0	00	00	14	17	13	af	1f
143	1,	977:	DTE	977	43.122842	0.154261	a0	00	00	14	17	17	af	1b
144	1,	985:	DTE	985	43.290877	0.153284	a0	00	00	14	17	1b	af	17
145	1,	993:	DTE	993	43.459909	0.154284	a0	00	00	14	17	1f	af	13
146	1,	1001:	DTE	1001	43.627920	0.153272	a0	00	00	14	1b	1f	af	1f
147	1,	1009:	DTE	1009	43.796971	0.154314	a0	00	00	14	1f	1f	af	1b
148	1,	1017:	DTE	1017	43.965954	0.154247	a0	00	00	14	1f	23	af	27
149	1,	1025:	DTE	1025	44.133974	0.153261	a0	00	00	14	1f	27	af	23
150	1,	1033:	DTE	1033	44.302998	0.154286	a0	00	00	14	1f	2a	af	2e
151	1,	1041:	DTE	1041	44.472009	0.154275	a0	00	00	14	23	2a	af	12
152	1,	1049:	DTE	1049	44.652896	0.166150	a0	00	00	14	23	2f	af	17
153	1,	1057:	DTE	1057	44.822016	0.154216	a0	00	00	14	27	2f	af	13
154	1,	1065:	DTE	1065	44.991109	0.154299	a0	00	00	14	2a	2f	af	1e
155	1,	1073:	DTE	1073	45.193155	0.187307	a0	00	00	14	2a	33	af	02
156	1,	1081:	DTE	1081	45.362153	0.154264	a0	00	00	14	2f	33	af	07
157	1,	1089:	DTE	1089	45.531176	0.154287	a0	00	00	14	2f	36	af	02
158	1,	1097:	DTE	1097	45.699197	0.153284	a0	00	00	14	2f	3a	af	0e
159	1,	1105:	DTE	1105	45.868234	0.154300	a0	00	00	00	00	00	af	0f
160														
161	1,	1113:	DTE	1113	48.445591	2.562622	a0	00	00	04	13	00	af	18
162	1,	1121:	DTE	1121	48.614602	0.154275	a0	00	00	04	03	00	af	08
163	1,	1129:	DTE	1129	49.085655	0.456319	a0	00	00	04	07	00	af	0c
164	1,	1137:	DTE	1137	49.395683	0.295293	a0	00	00	04	0b	00	af	00
165	1,	1145:	DTE	1145	49.781762	0.371280	a0	00	00	04	0f	00	af	04
166	1,	1153:	DTE	1153	50.206800	0.410304	a0	00	00	04	13	00	af	18
167	1,	1161:	DTE	1161	50.375863	0.154327	a0	00	00	04	17	00	af	1c
168	1,	1169:	DTE	1169	50.684861	0.294263	a0	00	00	04	1b	00	af	10
169	1,	1177:	DTE	1177	51.122934	0.423337	a0	00	00	04	1f	00	af	14
170	1,	1185:	DTE	1185	51.367985	0.230316	a0	00	00	04	23	00	af	28

171	1,	1193:	DTE	1193	52.195081	0.812360	a0	00	00	04	27	00	af	2c
172	1,	1201:	DTE	1201	52.427098	0.217268	a0	00	00	04	2a	00	af	21
173	1,	1209:	DTE	1209	52.617150	0.175302	a0	00	00	04	2f	00	af	24
174	1,	1217:	DTE	1217	52.970224	0.338336	a0	00	00	04	33	00	af	38
175	1,	1225:	DTE	1225	53.138217	0.153257	a0	00	00	04	36	00	af	3d
176	1,	1233:	DTE	1233	53.307203	0.154249	a0	00	00	04	3a	00	af	31
177	1,	1241:	DTE	1241	53.476253	0.154314	a0	00	00	00	00	00	af	0f
178														
179	1,	1249:	DTE	1249	54.750434	1.259446	a0	00	00	0c	13	03	af	13
180	1,	1257:	DTE	1257	54.953467	0.188465	a0	00	00	08	00	03	af	04
181	1,	1265:	DTE	1265	55.177515	0.209311	a0	00	00	08	00	07	af	00
182	1,	1273:	DTE	1273	55.346510	0.154258	a0	00	00	0c	03	07	af	07
183	1,	1281:	DTE	1281	55.514519	0.153271	a0	00	00	0c	07	07	af	03
184	1,	1289:	DTE	1289	55.768404	0.239147	a0	00	00	0c	07	0b	af	0f
185	1,	1297:	DTE	1297	55.937593	0.154275	a0	00	00	0c	0b	0b	af	03
186	1,	1305:	DTE	1305	56.106603	0.154274	a0	00	00	0c	0b	0f	af	07
187	1,	1313:	DTE	1313	56.274637	0.153299	a0	00	00	0c	0f	0f	af	03
188	1,	1321:	DTE	1321	56.447658	0.158284	a0	00	00	0c	0f	13	af	1f
189	1,	1329:	DTE	1329	56.616698	0.154304	a0	00	00	0c	13	13	af	03
190	1,	1337:	DTE	1337	56.784703	0.153272	a0	00	00	0c	13	17	af	07
191	1,	1345:	DTE	1345	56.953724	0.154234	a0	00	00	0c	17	17	af	03
192	1,	1353:	DTE	1353	57.121760	0.153298	a0	00	00	0c	17	1b	af	0f
193	1,	1361:	DTE	1361	57.290770	0.154274	a0	00	00	0c	17	1f	af	0b
194	1,	1369:	DTE	1369	57.461801	0.156294	a0	00	00	0c	1b	1f	af	07
195	1,	1377:	DTE	1377	57.627815	0.151267	a0	00	00	0c	1b	23	af	3b
196	1,	1385:	DTE	1385	57.796838	0.154287	a0	00	00	0c	1f	23	af	3f
197	1,	1393:	DTE	1393	57.965887	0.154314	a0	00	00	0c	1f	27	af	3b
198	1,	1401:	DTE	1401	58.133893	0.153270	a0	00	00	0c	23	27	af	07
199	1,	1409:	DTE	1409	58.302921	0.154277	a0	00	00	0c	27	27	af	03
200	1,	1417:	DTE	1417	58.471761	0.154107	a0	00	00	0c	27	2a	af	0e
201	1,	1425:	DTE	1425	58.639950	0.153284	a0	00	00	0c	27	2f	af	0b
202	1,	1433:	DTE	1433	58.808988	0.154302	a0	00	00	0c	2a	2f	af	06
203	1,	1441:	DTE	1441	58.977995	0.154273	a0	00	00	0c	2a	33	af	1a
204	1,	1449:	DTE	1449	59.150039	0.157305	a0	00	00	0c	2f	33	af	1f
205	1,	1457:	DTE	1457	59.319051	0.154274	a0	00	00	0c	2f	36	af	1a
206	1,	1465:	DTE	1465	59.488074	0.154285	a0	00	00	0c	33	36	af	06
207	1,	1473:	DTE	1473	59.656081	0.153301	a0	00	00	0c	33	3a	af	0a
208	1,	1481:	DTE	1481	59.825118	0.154287	a0	00	00	00	00	00	af	0f
209														
210	1,	1489:	DTE	1489	61.403349	1.563493	a0	00	00	0c	07	03	af	07
211	1,	1497:	DTE	1497	61.704333	0.286250	a0	00	00	08	00	03	af	04
212	1,	1505:	DTE	1505	61.979251	0.260315	a0	00	00	08	00	07	af	00
213	1,	1513:	DTE	1513	62.289454	0.295302	a0	00	00	08	00	0b	af	0c
214	1,	1521:	DTE	1521	62.726512	0.422322	a0	00	00	08	00	0f	af	08
215	1,	1529:	DTE	1529	62.993569	0.252321	a0	00	00	08	00	13	af	14
216	1,	1537:	DTE	1537	63.239663	0.231500	a0	00	00	08	00	17	af	10
217	1,	1545:	DTE	1545	63.847658	0.593260	a0	00	00	08	00	1b	af	1c
218	1,	1553:	DTE	1553	64.093686	0.231280	a0	00	00	08	00	1f	af	18
219	1,	1561:	DTE	1561	64.381734	0.273313	a0	00	00	08	00	23	af	24
220	1,	1569:	DTE	1569	64.699782	0.303301	a0	00	00	08	00	27	af	20
221	1,	1577:	DTE	1577	64.889805	0.175289	a0	00	00	08	00	2a	af	2d
222	1,	1585:	DTE	1585	65.058829	0.154287	a0	00	00	08	00	2f	af	28
223	1,	1593:	DTE	1593	65.226967	0.153556	a0	00	00	08	00	33	af	34
224	1,	1601:	DTE	1601	65.493881	0.252177	a0	00	00	08	00	36	af	31
225	1,	1609:	DTE	1609	65.739911	0.231293	a0	00	00	08	00	3a	af	3d
226	1,	1617:	DTE	1617	66.510028	0.755382	a0	00	00	00	00	00	af	0f
227														
228	1,	1625:	DTE	1625	70.129506	3.604744	a0	00	00	04	07	00	af	0c
229	1,	1633:	DTE	1633	71.169663	1.025420	a0	00	00	00	00	00	af	0f
230														
231	1,	1641:	DTE	1641	71.727734	0.543337	a0	00	00	20	00	00	af	2f
232	1,	1649:	DTE	1649	73.283934	1.541462	a0	00	00	00	00	00	af	0f
233														
234	1,	1657:	DTE	1657	74.089051	0.790383	a0	00	00	40	00	00	af	4f
235	1,	1665:	DTE	1665	75.581601	1.477815	a0	00	00	00	00	00	af	0f
236														
237	1,	1673:	DTE	1673	77.117473	1.521208	a0	00	00	0a	3a	1f	af	20
238	1,	1681:	DTE	1681	79.006719	1.874497	a0	00	00	00	00	00	af	0f
239														
240	1,	1689:	DTE	1689	79.832825	0.811371	a0	00	08	00	00	00	af	07
241	1,	1697:	DTE	1697	81.245014	1.397453	a0	00	00	00	00	00	af	0f
242														

```
243      1,      1705: DTE      1705      83.284295      2.024534 a0 00 02 00 00 00 af 0d
244      1,      1713: DTE      1713      85.570608      2.271577 a0 00 00 00 00 00 af 0f
245
246      1,      1721: DTE      1721      86.503749      0.918415 a0 00 01 00 00 00 af 0e
247      1,      1729: DTE      1729      88.736029      2.217545 a0 00 00 00 00 00 af 0f
248
249      1,      1737: DTE      1737      93.085623      4.334861 a0 00 00 07 00 01 af 09
250
251      1,      1745: DTE      1745      97.994333      4.893974 a0 00 00 03 00 01 af 0d
252
253      1,      1753: DTE      1753     103.707054      5.697985 a0 00 00 07 00 7f af 77
254
255      1,      1761: DTE      1761     108.086701      4.364912 a0 00 00 03 00 7f af 73
256
257 There were a total of      1768 bytes transferred
258
259 There were a total of      0 DCE bytes transferred
260 The first DCE byte came in at 0.000000 seconds from the start of data collection
261 The last DCE byte was at 0.000000 seconds from the start of data collection
262
263 There were a total of      1768 DTE bytes transferred
264 The first DTE byte came in at 0.000000 seconds from the start of data collection
265 The last DTE byte was at 108.101438 seconds from the start of data collection
266
```


3.26 Pelco D, No Parity

This data was collected from a an Integral Technologies, DS XPress DVR on 19DEC07.

1. Baud: **4800**
2. Hello Message: **No**
3. Minimum Camera Address: **1**
4. Maximum Camera Address: **255**
5. Minimum Preset Number: **1**
6. Maximum Preset Number: **128**
7. Do we have an “official” protocol document? **Yes**
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: _____.

Uses D Protocol.

3.26.1 19DEC07L.out

```

1  Integral Technologies DS XPress DVR
2  DTE = From the DVR
3  DCE = nothing, no dome was attached
4  4800 baud
5  No parity
6  Pelco D, No Parity
7
8
9  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
10 $Header: d:/1stLooks/Combined/RCS/19DEC07L.out,v 1.2 2007-12-19 12:35:32-08 Hamilton Exp Hamilton $
11 FTS capture buffer (12/19/2007 7:53:47 AM)
12 Event 1 (12/19/2007 7:51:02.143516 AM) through
13 Event 1,540 (12/19/2007 7:53:24.391839 AM)
14
15
16      1,      1: DTE      1      0.000000  0.000000 ff 01 00 04 03 00 08
17      1,      8: DTE      8      0.245152  0.232398 ff 01 00 08 00 03 0c
18      1,     15: DTE     15      1.199256  0.941489 ff 01 00 08 00 07 10
19      1,     22: DTE     22      2.034385  0.822503 ff 01 00 08 00 0b 14
20      1,     29: DTE     29      2.472472  0.425460 ff 01 00 08 00 0f 18
21      1,     36: DTE     36      3.384554  0.899458 ff 01 00 08 00 13 1c
22      1,     43: DTE     43      3.804633  0.407446 ff 01 00 08 00 17 20
23      1,     50: DTE     50      4.221677  0.404418 ff 01 00 08 00 1b 24
24      1,     57: DTE     57      4.863786  0.629484 ff 01 00 08 00 1f 28
25      1,     64: DTE     64      5.193812  0.317386 ff 01 00 08 00 23 2c
26      1,     71: DTE     71      5.470844  0.264556 ff 01 00 08 00 27 30

```

²⁸\$Header: d:/1stLooks/Combined/RCS/DSXdpr.inc,v 1.2 2007-12-31 09:06:36-08 Hamilton Exp Hamilton \$

27	1,	78:	DTE	78	5.694866	0.211396	ff	01	00	08	00	2a	33
28	1,	85:	DTE	85	6.153723	0.446231	ff	01	00	08	00	2f	38
29	1,	92:	DTE	92	6.398841	0.232325	ff	01	00	08	00	33	3c
30	1,	99:	DTE	99	6.752054	0.340421	ff	01	00	08	00	36	3f
31	1,	106:	DTE	106	7.146076	0.381508	ff	01	00	08	00	3a	43
32	1,	113:	DTE	113	7.981180	0.822463	ff	01	00	00	00	00	01
33													
34	1,	120:	DTE	120	14.050009	6.056189	ff	01	00	08	00	03	0c
35	1,	127:	DTE	127	14.285022	0.222386	ff	01	00	08	00	07	10
36	1,	134:	DTE	134	14.766077	0.468414	ff	01	00	0a	03	07	15
37	1,	141:	DTE	141	15.096140	0.317411	ff	01	00	0a	07	07	19
38	1,	148:	DTE	148	15.265165	0.156397	ff	01	00	0a	07	0b	1d
39	1,	155:	DTE	155	15.442183	0.164377	ff	01	00	0a	07	0f	21
40	1,	162:	DTE	162	15.816245	0.361437	ff	01	00	0a	07	13	25
41	1,	169:	DTE	169	16.523329	0.694446	ff	01	00	0a	0b	13	29
42	1,	176:	DTE	176	17.016402	0.480448	ff	01	00	0a	0b	17	2d
43	1,	183:	DTE	183	17.185437	0.156409	ff	01	00	0a	0f	17	31
44	1,	190:	DTE	190	17.353457	0.155392	ff	01	00	0a	13	17	35
45	1,	197:	DTE	197	17.522481	0.156384	ff	01	00	0a	13	1b	39
46	1,	204:	DTE	204	17.691492	0.156383	ff	01	00	0a	13	1f	3d
47	1,	211:	DTE	211	17.862521	0.158389	ff	01	00	0a	17	1f	41
48	1,	218:	DTE	218	18.036531	0.161384	ff	01	00	0a	1b	1f	45
49	1,	225:	DTE	225	18.324605	0.275434	ff	01	00	0a	1b	23	49
50	1,	232:	DTE	232	18.515621	0.178391	ff	01	00	0a	1f	23	4d
51	1,	239:	DTE	239	18.683627	0.155381	ff	01	00	0a	1f	27	51
52	1,	246:	DTE	246	18.937677	0.241424	ff	01	00	0a	1f	2a	54
53	1,	253:	DTE	253	19.108705	0.158401	ff	01	00	0a	23	2a	58
54	1,	260:	DTE	260	19.394734	0.273403	ff	01	00	0a	27	2a	5c
55	1,	267:	DTE	267	20.079813	0.672452	ff	01	00	0a	2a	2a	5f
56	1,	274:	DTE	274	20.248847	0.156408	ff	01	00	0a	2f	2a	64
57	1,	281:	DTE	281	20.416691	0.155203	ff	01	00	0a	2f	2f	69
58	1,	288:	DTE	288	20.585891	0.156397	ff	01	00	0a	2f	33	6d
59	1,	295:	DTE	295	20.754931	0.156572	ff	01	00	0a	2f	36	70
60	1,	302:	DTE	302	20.922937	0.155381	ff	01	00	0a	2f	3a	74
61	1,	309:	DTE	309	21.091947	0.156537	ff	01	00	0a	33	3a	78
62	1,	316:	DTE	316	21.260984	0.156411	ff	01	00	0a	36	3a	7b
63	1,	323:	DTE	323	21.711037	0.437428	ff	01	00	00	00	00	01
64													
65	1,	330:	DTE	330	24.835475	3.111814	ff	01	00	20	00	00	21
66	1,	337:	DTE	337	25.711596	0.863494	ff	01	00	02	03	00	06
67	1,	344:	DTE	344	26.291661	0.567440	ff	01	00	02	07	00	0a
68	1,	351:	DTE	351	27.233832	0.929545	ff	01	00	02	0b	00	0e
69	1,	358:	DTE	358	28.251935	1.005487	ff	01	00	02	0b	00	0e
70	1,	365:	DTE	365	28.420984	0.156411	ff	01	00	02	0f	00	12
71	1,	372:	DTE	372	28.589967	0.156523	ff	01	00	02	13	00	16
72	1,	379:	DTE	379	29.232064	0.629457	ff	01	00	02	17	00	1a
73	1,	386:	DTE	386	29.593132	0.348429	ff	01	00	02	1b	00	1e
74	1,	393:	DTE	393	30.052194	0.446423	ff	01	00	02	1f	00	22
75	1,	400:	DTE	400	30.588262	0.523442	ff	01	00	02	23	00	26
76	1,	407:	DTE	407	30.756269	0.155382	ff	01	00	02	27	00	2a
77	1,	414:	DTE	414	31.019350	0.250433	ff	01	00	02	2a	00	2d
78	1,	421:	DTE	421	31.405370	0.373401	ff	01	00	02	2f	00	32
79	1,	428:	DTE	428	31.800421	0.382424	ff	01	00	02	33	00	36
80	1,	435:	DTE	435	32.420488	0.607438	ff	01	00	02	36	00	39
81	1,	442:	DTE	442	32.718521	0.285570	ff	01	00	02	3a	00	3d
82	1,	449:	DTE	449	33.479666	0.748506	ff	01	00	00	00	00	01
83													
84	1,	456:	DTE	456	37.378182	3.885876	ff	01	00	20	00	00	21
85	1,	463:	DTE	463	37.850213	0.459390	ff	01	00	02	03	00	06
86	1,	470:	DTE	470	38.158287	0.295434	ff	01	00	10	00	03	14
87	1,	477:	DTE	477	38.717335	0.546422	ff	01	00	12	03	03	19
88	1,	484:	DTE	484	39.791503	1.061541	ff	01	00	12	03	03	19
89	1,	491:	DTE	491	39.960525	0.156385	ff	01	00	12	03	07	1d
90	1,	498:	DTE	498	40.141554	0.168403	ff	01	00	12	07	07	21
91	1,	505:	DTE	505	40.310577	0.156396	ff	01	00	12	0b	07	25
92	1,	512:	DTE	512	40.478586	0.155382	ff	01	00	12	0b	0b	29
93	1,	519:	DTE	519	40.651618	0.160393	ff	01	00	12	0f	0b	2d
94	1,	526:	DTE	526	41.669758	1.005511	ff	01	00	12	0f	0b	2d
95	1,	533:	DTE	533	41.971775	0.289392	ff	01	00	12	0f	0f	31
96	1,	540:	DTE	540	42.443858	0.459444	ff	01	00	12	13	0f	35
97	1,	547:	DTE	547	42.611868	0.155551	ff	01	00	12	17	0f	39
98	1,	554:	DTE	554	42.994380	0.369874	ff	01	00	12	17	13	3d

99	1,	561:	DTE	561	43.174976	0.168137	ff	01	00	12	17	17	41
100	1,	568:	DTE	568	43.817871	0.630267	ff	01	00	12	17	1b	45
101	1,	575:	DTE	575	44.384133	0.553469	ff	01	00	12	17	1f	49
102	1,	582:	DTE	582	44.553129	0.156372	ff	01	00	12	17	23	4d
103	1,	589:	DTE	589	44.725160	0.159393	ff	01	00	12	17	27	51
104	1,	596:	DTE	596	45.027230	0.289430	ff	01	00	12	1b	27	55
105	1,	603:	DTE	603	45.195211	0.155344	ff	01	00	12	1b	2a	58
106	1,	610:	DTE	610	45.364261	0.156422	ff	01	00	12	1f	2f	61
107	1,	617:	DTE	617	45.537361	0.160474	ff	01	00	12	1f	33	65
108	1,	624:	DTE	624	45.709301	0.159314	ff	01	00	12	23	33	69
109	1,	631:	DTE	631	46.028338	0.306399	ff	01	00	12	27	33	6d
110	1,	638:	DTE	638	46.217361	0.176376	ff	01	00	12	27	36	70
111	1,	645:	DTE	645	46.386434	0.156434	ff	01	00	12	2a	36	73
112	1,	652:	DTE	652	46.555406	0.156331	ff	01	00	12	2a	3a	77
113	1,	659:	DTE	659	47.056466	0.488432	ff	01	00	00	00	00	01
114													
115	1,	666:	DTE	666	51.885172	4.816071	ff	01	00	10	00	03	14
116	1,	673:	DTE	673	52.697256	0.799458	ff	01	00	10	00	07	18
117	1,	680:	DTE	680	53.179312	0.469430	ff	01	00	10	00	0b	1c
118	1,	687:	DTE	687	53.928416	0.736463	ff	01	00	10	00	0f	20
119	1,	694:	DTE	694	54.097439	0.156384	ff	01	00	10	00	13	24
120	1,	701:	DTE	701	54.372490	0.262412	ff	01	00	10	00	17	28
121	1,	708:	DTE	708	54.545497	0.160380	ff	01	00	10	00	1b	2c
122	1,	715:	DTE	715	55.124574	0.566450	ff	01	00	10	00	1f	30
123	1,	722:	DTE	722	55.497660	0.360460	ff	01	00	10	00	23	34
124	1,	729:	DTE	729	55.841682	0.331384	ff	01	00	10	00	27	38
125	1,	736:	DTE	736	56.236709	0.382400	ff	01	00	10	00	2a	3b
126	1,	743:	DTE	743	56.460758	0.211411	ff	01	00	10	00	2f	40
127	1,	750:	DTE	750	56.629782	0.156552	ff	01	00	10	00	33	44
128	1,	757:	DTE	757	56.874807	0.232387	ff	01	00	10	00	36	47
129	1,	764:	DTE	764	57.269873	0.382439	ff	01	00	10	00	3a	4b
130	1,	771:	DTE	771	58.336070	1.053571	ff	01	00	10	00	3a	4b
131	1,	778:	DTE	778	58.505070	0.156352	ff	01	00	00	00	00	01
132													
133	1,	785:	DTE	785	61.487436	2.969730	ff	01	00	04	13	00	18
134	1,	792:	DTE	792	61.699468	0.199392	ff	01	00	04	03	00	08
135	1,	799:	DTE	799	61.974481	0.262374	ff	01	00	04	07	00	0c
136	1,	806:	DTE	806	62.198531	0.211411	ff	01	00	04	0b	00	10
137	1,	813:	DTE	813	62.806617	0.595613	ff	01	00	14	0b	03	23
138	1,	820:	DTE	820	62.975650	0.156394	ff	01	00	14	0b	07	27
139	1,	827:	DTE	827	63.384260	0.396020	ff	01	00	14	0f	07	2b
140	1,	834:	DTE	834	63.723738	0.327019	ff	01	00	14	0f	0b	2f
141	1,	841:	DTE	841	64.621890	0.885516	ff	01	00	14	0f	0f	33
142	1,	848:	DTE	848	64.790899	0.156369	ff	01	00	14	13	0f	37
143	1,	855:	DTE	855	64.958907	0.155368	ff	01	00	14	13	13	3b
144	1,	862:	DTE	862	65.127919	0.156372	ff	01	00	14	13	17	3f
145	1,	869:	DTE	869	65.297021	0.156461	ff	01	00	14	17	17	43
146	1,	876:	DTE	876	65.465056	0.155409	ff	01	00	14	17	1b	47
147	1,	883:	DTE	883	65.634012	0.156332	ff	01	00	14	17	1f	4b
148	1,	890:	DTE	890	65.803060	0.156409	ff	01	00	14	1b	1f	4f
149	1,	897:	DTE	897	65.971003	0.155303	ff	01	00	14	1b	23	53
150	1,	904:	DTE	904	66.139955	0.156311	ff	01	00	14	1b	27	57
151	1,	911:	DTE	911	66.309089	0.156383	ff	01	00	14	1f	27	5b
152	1,	918:	DTE	918	66.695145	0.373428	ff	01	00	14	1f	2a	5e
153	1,	925:	DTE	925	66.864156	0.156386	ff	01	00	14	23	2a	62
154	1,	932:	DTE	932	67.053178	0.176384	ff	01	00	14	27	2a	66
155	1,	939:	DTE	939	67.222211	0.156406	ff	01	00	14	27	2f	6b
156	1,	946:	DTE	946	67.455223	0.220382	ff	01	00	14	27	33	6f
157	1,	953:	DTE	953	67.679272	0.211424	ff	01	00	14	27	36	72
158	1,	960:	DTE	960	67.852315	0.160416	ff	01	00	14	2a	36	75
159	1,	967:	DTE	967	68.020313	0.155410	ff	01	00	14	2f	36	7a
160	1,	974:	DTE	974	68.189348	0.156575	ff	01	00	14	2f	3a	7e
161	1,	981:	DTE	981	68.358374	0.156398	ff	01	00	14	33	3a	82
162	1,	988:	DTE	988	68.526432	0.155432	ff	01	00	14	36	3a	85
163	1,	995:	DTE	995	68.815444	0.276385	ff	01	00	00	00	00	01
164													
165	1,	1002:	DTE	1002	72.164883	3.336813	ff	01	00	04	13	00	18
166	1,	1009:	DTE	1009	72.333893	0.156383	ff	01	00	04	03	00	08
167	1,	1016:	DTE	1016	72.722983	0.376463	ff	01	00	04	07	00	0c
168	1,	1023:	DTE	1023	73.029866	0.294257	ff	01	00	04	0b	00	10
169	1,	1030:	DTE	1030	73.596080	0.553466	ff	01	00	04	0f	00	14
170	1,	1037:	DTE	1037	73.841031	0.232312	ff	01	00	04	13	00	18

171	1,	1044:	DTE	1044	74.096147	0.242414	ff	01	00	04	17	00	1c
172	1,	1051:	DTE	1051	74.264152	0.155367	ff	01	00	04	1b	00	20
173	1,	1058:	DTE	1058	74.433189	0.156395	ff	01	00	04	1f	00	24
174	1,	1065:	DTE	1065	74.687216	0.241387	ff	01	00	04	23	00	28
175	1,	1072:	DTE	1072	75.061263	0.361409	ff	01	00	04	27	00	2c
176	1,	1079:	DTE	1079	75.349350	0.275447	ff	01	00	04	2a	00	2f
177	1,	1086:	DTE	1086	75.765392	0.403417	ff	01	00	04	2f	00	34
178	1,	1093:	DTE	1093	75.955377	0.177360	ff	01	00	04	33	00	38
179	1,	1100:	DTE	1100	76.457449	0.489432	ff	01	00	04	36	00	3b
180	1,	1107:	DTE	1107	76.711496	0.241409	ff	01	00	04	3a	00	3f
181	1,	1114:	DTE	1114	77.452603	0.728480	ff	01	00	00	00	00	01
182													
183	1,	1121:	DTE	1121	81.093073	3.627843	ff	01	00	0c	17	03	27
184	1,	1128:	DTE	1128	81.261981	0.156270	ff	01	00	0c	07	03	17
185	1,	1135:	DTE	1135	81.430143	0.155369	ff	01	00	0c	07	07	1b
186	1,	1142:	DTE	1142	81.719180	0.276410	ff	01	00	0c	07	0b	1f
187	1,	1149:	DTE	1149	81.888203	0.156384	ff	01	00	0c	0b	0b	23
188	1,	1156:	DTE	1156	82.069595	0.168754	ff	01	00	0c	0b	0f	27
189	1,	1163:	DTE	1163	82.280339	0.198116	ff	01	00	0c	0f	0f	2b
190	1,	1170:	DTE	1170	82.449271	0.156306	ff	01	00	0c	0f	13	2f
191	1,	1177:	DTE	1177	82.630299	0.168404	ff	01	00	0c	0f	17	33
192	1,	1184:	DTE	1184	83.307385	0.664447	ff	01	00	0c	13	17	37
193	1,	1191:	DTE	1191	83.715476	0.395454	ff	01	00	0c	13	1b	3b
194	1,	1198:	DTE	1198	83.909513	0.181432	ff	01	00	0c	17	1b	3f
195	1,	1205:	DTE	1205	84.078501	0.156332	ff	01	00	0c	17	1f	43
196	1,	1212:	DTE	1212	84.246507	0.155365	ff	01	00	0c	17	23	47
197	1,	1219:	DTE	1219	84.424530	0.165380	ff	01	00	0c	17	27	4b
198	1,	1226:	DTE	1226	84.596499	0.159330	ff	01	00	0c	1b	27	4f
199	1,	1233:	DTE	1233	84.769607	0.160405	ff	01	00	0c	1b	2a	52
200	1,	1240:	DTE	1240	84.938619	0.156385	ff	01	00	0c	1f	2a	56
201	1,	1247:	DTE	1247	85.106653	0.155395	ff	01	00	0c	1f	2f	5b
202	1,	1254:	DTE	1254	85.275649	0.156356	ff	01	00	0c	23	2f	5f
203	1,	1261:	DTE	1261	85.444674	0.156384	ff	01	00	0c	23	33	63
204	1,	1268:	DTE	1268	85.612696	0.155383	ff	01	00	0c	27	33	67
205	1,	1275:	DTE	1275	85.781756	0.156423	ff	01	00	0c	27	36	6a
206	1,	1282:	DTE	1282	85.950741	0.156512	ff	01	00	0c	27	3a	6e
207	1,	1289:	DTE	1289	86.118686	0.155319	ff	01	00	0c	2a	3a	71
208	1,	1296:	DTE	1296	87.171915	1.040499	ff	01	00	0c	2a	3a	71
209	1,	1303:	DTE	1303	87.339933	0.155380	ff	01	00	00	00	00	01
210													
211	1,	1310:	DTE	1310	90.831431	3.478858	ff	01	00	04	07	00	0c
212	1,	1317:	DTE	1317	91.077433	0.233376	ff	01	00	08	00	03	0c
213	1,	1324:	DTE	1324	91.818528	0.728455	ff	01	00	08	00	07	10
214	1,	1331:	DTE	1331	92.534656	0.703490	ff	01	00	08	00	0b	14
215	1,	1338:	DTE	1338	93.013684	0.466399	ff	01	00	08	00	0f	18
216	1,	1345:	DTE	1345	93.281742	0.255420	ff	01	00	08	00	13	1c
217	1,	1352:	DTE	1352	93.837838	0.543457	ff	01	00	08	00	17	20
218	1,	1359:	DTE	1359	94.694947	0.844483	ff	01	00	08	00	1b	24
219	1,	1366:	DTE	1366	95.102029	0.394457	ff	01	00	08	00	1f	28
220	1,	1373:	DTE	1373	95.425037	0.310369	ff	01	00	08	00	23	2c
221	1,	1380:	DTE	1380	95.884100	0.446424	ff	01	00	08	00	27	30
222	1,	1387:	DTE	1387	96.462173	0.565435	ff	01	00	08	00	2a	33
223	1,	1394:	DTE	1394	97.019255	0.544443	ff	01	00	08	00	2f	38
224	1,	1401:	DTE	1401	97.415297	0.383402	ff	01	00	08	00	33	3c
225	1,	1408:	DTE	1408	98.023410	0.595487	ff	01	00	08	00	36	3f
226	1,	1415:	DTE	1415	98.469451	0.433377	ff	01	00	08	00	3a	43
227	1,	1422:	DTE	1422	99.274556	0.792465	ff	01	00	00	00	00	01
228													
229	1,	1429:	DTE	1429	103.880179	4.593152	ff	01	00	20	00	00	21
230	1,	1436:	DTE	1436	105.223384	1.330579	ff	01	00	00	00	00	01
231													
232	1,	1443:	DTE	1443	107.002614	1.766596	ff	01	00	40	00	00	41
233	1,	1450:	DTE	1450	108.631833	1.616591	ff	01	00	00	00	00	01
234													
235	1,	1457:	DTE	1457	111.453214	2.808755	ff	01	02	00	00	00	03
236	1,	1464:	DTE	1464	113.180531	1.714859	ff	01	00	00	00	00	01
237													
238	1,	1471:	DTE	1471	114.814563	1.621406	ff	01	04	00	00	00	05
239	1,	1478:	DTE	1478	116.349854	1.522558	ff	01	00	00	00	00	01
240													
241	1,	1485:	DTE	1485	118.850219	2.487726	ff	01	00	80	00	00	81
242	1,	1492:	DTE	1492	120.812483	1.949627	ff	01	00	00	00	00	01

```
243
244      1,      1499: DTE      1499      121.916611      1.091502 ff 01 01 00 00 00 02
245      1,      1506: DTE      1506      124.032926      2.103690 ff 01 00 00 00 00 01
246
247      1,      1513: DTE      1513      127.562392      3.516841 ff 01 00 07 00 01 09
248      1,      1520: DTE      1520      131.502913      3.928060 ff 01 00 03 00 01 05
249
250      1,      1527: DTE      1527      138.209840      6.694289 ff 01 00 07 00 80 88
251      1,      1534: DTE      1534      142.235699      4.013220 ff 01 00 03 00 80 84
252
253 There were a total of      1540 bytes transferred
254
255 There were a total of      0 DCE bytes transferred
256 The first DCE byte came in at 0.000000 seconds from the start of data collection
257 The last DCE byte was at 0.000000 seconds from the start of data collection
258
259 There were a total of      1540 DTE bytes transferred
260 The first DTE byte came in at 0.000000 seconds from the start of data collection
261 The last DTE byte was at 142.248323 seconds from the start of data collection
262
```


3.27 Pelco Spectra Dome

This data was collected from a an Integral Technologies, DS XPress DVR on 19DEC07.

1. Baud: **4800**
2. Hello Message: **No**
3. Minimum Camera Address: **1**
4. Maximum Camera Address: **255**
5. Minimum Preset Number: **1**
6. Maximum Preset Number: **255**
7. Do we have an “official” protocol document? **Yes**
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: _____.

3.27.1 19DEC07H.out

```

1  Integral Technologies DS XPress DVR
2  DTE = From the DVR
3  DCE = nothing, no dome was attached
4  4800 baud
5  No parity
6  Pelco Spectra Dome
7
8
9  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
10 $Header: d:/1stLooks/Combined/RCS/19DEC07H.out,v 1.2 2007-12-19 12:35:31-08 Hamilton Exp Hamilton $
11 FTS capture buffer (12/19/2007 7:35:11 AM)
12 Event 1 (12/19/2007 7:32:21.595747 AM) through
13 Event 1,484 (12/19/2007 7:34:39.457084 AM)
14
15
16      1,      1: DTE      1      0.000000  0.000000 ff 01 00 08 00 03 0c
17      1,      8: DTE      8      0.386056  0.373429 ff 01 00 08 00 07 10
18      1,     15: DTE     15      0.802122  0.403428 ff 01 00 08 00 0b 14
19      1,     22: DTE     22      1.005130  0.190382 ff 01 00 08 00 0f 18
20      1,     29: DTE     29      1.413187  0.395417 ff 01 00 08 00 13 1c
21      1,     36: DTE     36      2.064170  0.638355 ff 01 00 08 00 17 20
22      1,     43: DTE     43      2.707372  0.630488 ff 01 00 08 00 1b 24
23      1,     50: DTE     50      3.252448  0.532452 ff 01 00 08 00 1f 28
24      1,     57: DTE     57      4.078387  0.813312 ff 01 00 08 00 23 2c
25      1,     64: DTE     64      4.311575  0.220394 ff 01 00 08 00 27 30
26      1,     71: DTE     71      4.479621  0.155419 ff 01 00 08 00 2a 33
27      1,     78: DTE     78      4.703646  0.211396 ff 01 00 08 00 2f 38
28      1,     85: DTE     85      5.218707  0.502423 ff 01 00 08 00 33 3c

```

²⁹\$Header: d:/1stLooks/Combined/RCS/DSXspe.inc,v 1.2 2007-12-31 09:06:37-08 Hamilton Exp Hamilton \$

29	1,	92:	DTE	92	5.399725	0.168397	ff	01	00	08	00	36	3f
30	1,	99:	DTE	99	5.568761	0.156396	ff	01	00	08	00	3a	43
31	1,	106:	DTE	106	6.941953	1.360564	ff	01	00	00	00	00	01
32													
33	1,	113:	DTE	113	9.752305	2.797712	ff	01	00	08	00	03	0c
34	1,	120:	DTE	120	10.631472	0.866529	ff	01	00	08	00	07	10
35	1,	127:	DTE	127	10.821456	0.177359	ff	01	00	08	00	0b	14
36	1,	134:	DTE	134	10.990559	0.156476	ff	01	00	0a	03	0b	19
37	1,	141:	DTE	141	11.470560	0.467375	ff	01	00	0a	03	0f	1d
38	1,	148:	DTE	148	11.638579	0.155393	ff	01	00	0a	03	13	21
39	1,	155:	DTE	155	11.807588	0.156381	ff	01	00	0a	07	13	25
40	1,	162:	DTE	162	11.976614	0.156385	ff	01	00	0a	07	17	29
41	1,	169:	DTE	169	12.320677	0.331436	ff	01	00	0a	07	1b	2d
42	1,	176:	DTE	176	12.544699	0.211384	ff	01	00	0a	0b	1b	31
43	1,	183:	DTE	183	12.725715	0.168377	ff	01	00	0a	0f	1b	35
44	1,	190:	DTE	190	12.894750	0.156395	ff	01	00	0a	0f	1f	39
45	1,	197:	DTE	197	13.063788	0.156409	ff	01	00	0a	13	1f	3d
46	1,	204:	DTE	204	13.231797	0.155383	ff	01	00	0a	17	1f	41
47	1,	211:	DTE	211	13.400833	0.156397	ff	01	00	0a	17	23	45
48	1,	218:	DTE	218	13.569803	0.156332	ff	01	00	0a	17	27	49
49	1,	225:	DTE	225	13.758879	0.176437	ff	01	00	0a	17	2a	4c
50	1,	232:	DTE	232	13.927875	0.156358	ff	01	00	0a	17	2f	51
51	1,	239:	DTE	239	14.096913	0.156410	ff	01	00	0a	1b	2f	55
52	1,	246:	DTE	246	14.264947	0.155408	ff	01	00	0a	1b	33	59
53	1,	253:	DTE	253	14.714998	0.437425	ff	01	00	0a	1f	33	5d
54	1,	260:	DTE	260	14.948020	0.220395	ff	01	00	0a	23	33	61
55	1,	267:	DTE	267	15.117068	0.156422	ff	01	00	0a	23	36	64
56	1,	274:	DTE	274	15.285078	0.155383	ff	01	00	0a	27	36	68
57	1,	281:	DTE	281	15.454113	0.156410	ff	01	00	0a	2a	36	6b
58	1,	288:	DTE	288	15.623111	0.156371	ff	01	00	0a	2a	3a	6f
59	1,	295:	DTE	295	16.116184	0.480434	ff	01	00	00	00	00	01
60													
61	1,	302:	DTE	302	19.714673	3.585864	ff	01	00	20	00	00	21
62	1,	309:	DTE	309	20.655820	0.928507	ff	01	00	02	03	00	06
63	1,	316:	DTE	316	21.511913	0.843467	ff	01	00	02	07	00	0a
64	1,	323:	DTE	323	21.680934	0.156382	ff	01	00	02	0b	00	0e
65	1,	330:	DTE	330	21.849946	0.156383	ff	01	00	02	0f	00	12
66	1,	337:	DTE	337	22.223002	0.360408	ff	01	00	02	13	00	16
67	1,	344:	DTE	344	22.427048	0.191415	ff	01	00	02	17	00	1a
68	1,	351:	DTE	351	22.757082	0.317414	ff	01	00	02	1b	00	1e
69	1,	358:	DTE	358	23.259140	0.489419	ff	01	00	02	1f	00	22
70	1,	365:	DTE	365	23.718202	0.446424	ff	01	00	02	23	00	26
71	1,	372:	DTE	372	23.964256	0.233416	ff	01	00	02	27	00	2a
72	1,	379:	DTE	379	24.371316	0.394434	ff	01	00	02	2a	00	2d
73	1,	386:	DTE	386	24.540325	0.156372	ff	01	00	02	2f	00	32
74	1,	393:	DTE	393	24.815362	0.262399	ff	01	00	02	33	00	36
75	1,	400:	DTE	400	25.287429	0.459440	ff	01	00	02	36	00	39
76	1,	407:	DTE	407	25.648474	0.348415	ff	01	00	02	3a	00	3d
77	1,	414:	DTE	414	26.290662	0.629550	ff	01	00	00	00	00	01
78													
79	1,	421:	DTE	421	29.889060	3.585759	ff	01	00	20	00	00	21
80	1,	428:	DTE	428	31.049217	1.147532	ff	01	00	02	03	00	06
81	1,	435:	DTE	435	31.798317	0.736474	ff	01	00	02	07	00	0a
82	1,	442:	DTE	442	31.969346	0.158402	ff	01	00	12	07	03	1d
83	1,	449:	DTE	449	32.135374	0.153402	ff	01	00	12	07	07	21
84	1,	456:	DTE	456	32.304386	0.156371	ff	01	00	12	0b	07	25
85	1,	463:	DTE	463	32.528255	0.211230	ff	01	00	12	0b	0b	29
86	1,	470:	DTE	470	32.697443	0.156395	ff	01	00	12	0f	0b	2d
87	1,	477:	DTE	477	32.865466	0.155394	ff	01	00	12	0f	0f	31
88	1,	484:	DTE	484	33.034506	0.156412	ff	01	00	12	13	0f	35
89	1,	491:	DTE	491	33.237507	0.190391	ff	01	00	12	13	13	39
90	1,	498:	DTE	498	33.405545	0.155422	ff	01	00	12	17	13	3d
91	1,	505:	DTE	505	33.574554	0.156384	ff	01	00	12	17	17	41
92	1,	512:	DTE	512	33.743576	0.156383	ff	01	00	12	1b	1b	49
93	1,	519:	DTE	519	34.095635	0.339431	ff	01	00	12	1b	1f	4d
94	1,	526:	DTE	526	34.264647	0.156385	ff	01	00	12	1f	1f	51
95	1,	533:	DTE	533	34.434672	0.157386	ff	01	00	12	1f	23	55
96	1,	540:	DTE	540	34.605699	0.158401	ff	01	00	12	23	23	59
97	1,	547:	DTE	547	34.774736	0.156396	ff	01	00	12	23	27	5d
98	1,	554:	DTE	554	34.942731	0.155367	ff	01	00	12	27	27	61
99	1,	561:	DTE	561	35.112069	0.156711	ff	01	00	12	27	2a	64
100	1,	568:	DTE	568	35.280792	0.156097	ff	01	00	12	27	2f	69

101	1,	575:	DTE	575	35.555818	0.262399	ff	01	00	12	27	33	6d
102	1,	582:	DTE	582	35.800842	0.232398	ff	01	00	12	2a	33	70
103	1,	589:	DTE	589	35.969898	0.156372	ff	01	00	12	2a	36	73
104	1,	596:	DTE	596	36.137887	0.155393	ff	01	00	12	2f	36	78
105	1,	603:	DTE	603	36.306939	0.156412	ff	01	00	12	2f	3a	7c
106	1,	610:	DTE	610	37.026014	0.706451	ff	01	00	00	00	00	01
107													
108	1,	617:	DTE	617	41.073579	4.034927	ff	01	00	04	07	00	0c
109	1,	624:	DTE	624	41.878682	0.792466	ff	01	00	10	00	03	14
110	1,	631:	DTE	631	42.264737	0.373421	ff	01	00	10	00	07	18
111	1,	638:	DTE	638	42.766794	0.489419	ff	01	00	10	00	0b	1c
112	1,	645:	DTE	645	43.054842	0.275410	ff	01	00	10	00	0f	20
113	1,	652:	DTE	652	43.795934	0.728454	ff	01	00	10	00	13	24
114	1,	659:	DTE	659	43.963954	0.155521	ff	01	00	10	00	17	28
115	1,	666:	DTE	666	44.132978	0.156384	ff	01	00	10	00	1b	2c
116	1,	673:	DTE	673	44.430049	0.284431	ff	01	00	10	00	1f	30
117	1,	680:	DTE	680	44.599137	0.156462	ff	01	00	10	00	23	34
118	1,	687:	DTE	687	44.767067	0.155291	ff	01	00	10	00	27	38
119	1,	694:	DTE	694	44.935880	0.156187	ff	01	00	10	00	2a	3b
120	1,	701:	DTE	701	45.309190	0.360498	ff	01	00	10	00	2f	40
121	1,	708:	DTE	708	45.521181	0.199366	ff	01	00	10	00	33	44
122	1,	715:	DTE	715	46.099255	0.565436	ff	01	00	10	00	36	47
123	1,	722:	DTE	722	46.268277	0.156396	ff	01	00	10	00	3a	4b
124	1,	729:	DTE	729	47.081376	0.800459	ff	01	00	00	00	00	01
125													
126	1,	736:	DTE	736	49.687744	2.593729	ff	01	00	04	0f	00	14
127	1,	743:	DTE	743	50.169813	0.469443	ff	01	00	04	03	00	08
128	1,	750:	DTE	750	50.338812	0.156373	ff	01	00	14	03	03	1b
129	1,	757:	DTE	757	50.989933	0.638482	ff	01	00	14	03	07	1f
130	1,	764:	DTE	764	51.547281	0.544710	ff	01	00	14	07	07	23
131	1,	771:	DTE	771	51.713992	0.153907	ff	01	00	14	07	0b	27
132	1,	778:	DTE	778	51.884031	0.157399	ff	01	00	14	07	0f	2b
133	1,	785:	DTE	785	52.053121	0.156450	ff	01	00	14	0b	0f	2f
134	1,	792:	DTE	792	52.221089	0.155341	ff	01	00	14	0b	13	33
135	1,	799:	DTE	799	52.390113	0.156565	ff	01	00	14	0f	13	37
136	1,	806:	DTE	806	52.622145	0.219406	ff	01	00	14	0f	17	3b
137	1,	813:	DTE	813	52.813160	0.178390	ff	01	00	14	13	17	3f
138	1,	820:	DTE	820	52.981194	0.155396	ff	01	00	14	13	1b	43
139	1,	827:	DTE	827	53.150191	0.156371	ff	01	00	14	13	1f	47
140	1,	834:	DTE	834	53.323224	0.160408	ff	01	00	14	17	1f	4b
141	1,	841:	DTE	841	53.492234	0.156383	ff	01	00	14	17	23	4f
142	1,	848:	DTE	848	53.664266	0.159391	ff	01	00	14	1b	23	53
143	1,	855:	DTE	855	53.833329	0.156424	ff	01	00	14	1b	27	57
144	1,	862:	DTE	862	54.006336	0.160366	ff	01	00	14	1b	2a	5a
145	1,	869:	DTE	869	54.174344	0.155462	ff	01	00	14	1f	2a	5e
146	1,	876:	DTE	876	54.343355	0.156371	ff	01	00	14	1f	2f	63
147	1,	883:	DTE	883	54.512389	0.156395	ff	01	00	14	23	2f	67
148	1,	890:	DTE	890	54.680412	0.155381	ff	01	00	14	23	33	6b
149	1,	897:	DTE	897	54.853432	0.160381	ff	01	00	14	27	33	6f
150	1,	904:	DTE	904	55.022444	0.156385	ff	01	00	14	27	36	72
151	1,	911:	DTE	911	55.190499	0.155429	ff	01	00	14	27	3a	76
152	1,	918:	DTE	918	55.359502	0.156386	ff	01	00	14	2a	3a	79
153	1,	925:	DTE	925	55.625529	0.253402	ff	01	00	14	2f	3a	7e
154	1,	932:	DTE	932	56.721687	1.083519	ff	01	00	00	00	00	01
155													
156	1,	939:	DTE	939	59.491090	2.756909	ff	01	00	04	13	00	18
157	1,	946:	DTE	946	59.767101	0.263386	ff	01	00	04	03	00	08
158	1,	953:	DTE	953	59.956113	0.176382	ff	01	00	04	07	00	0c
159	1,	960:	DTE	960	60.586206	0.617450	ff	01	00	04	0b	00	10
160	1,	967:	DTE	967	60.981272	0.382440	ff	01	00	04	0f	00	14
161	1,	974:	DTE	974	61.150280	0.156382	ff	01	00	04	13	00	18
162	1,	981:	DTE	981	61.395333	0.232412	ff	01	00	04	17	00	1c
163	1,	988:	DTE	988	61.620372	0.212413	ff	01	00	04	1b	00	20
164	1,	995:	DTE	995	61.788471	0.155472	ff	01	00	04	1f	00	24
165	1,	1002:	DTE	1002	61.961231	0.160133	ff	01	00	04	23	00	28
166	1,	1009:	DTE	1009	62.271410	0.297384	ff	01	00	04	27	00	2c
167	1,	1016:	DTE	1016	62.602496	0.318403	ff	01	00	04	2a	00	2f
168	1,	1023:	DTE	1023	62.770501	0.155367	ff	01	00	04	2f	00	34
169	1,	1030:	DTE	1030	63.071532	0.288391	ff	01	00	04	33	00	38
170	1,	1037:	DTE	1037	63.500606	0.416435	ff	01	00	04	36	00	3b
171	1,	1044:	DTE	1044	63.819708	0.306462	ff	01	00	04	3a	00	3f
172	1,	1051:	DTE	1051	64.632769	0.800421	ff	01	00	00	00	00	01

```

173
174 1, 1058: DTE 1058 67.360139 2.714744 ff 01 00 0c 13 03 23
175 1, 1065: DTE 1065 67.528166 0.155403 ff 01 00 0c 03 03 13
176 1, 1072: DTE 1072 67.697167 0.156382 ff 01 00 0c 03 07 17
177 1, 1079: DTE 1079 67.866269 0.156461 ff 01 00 0c 07 07 1b
178 1, 1086: DTE 1086 68.034239 0.155429 ff 01 00 0c 07 0b 1f
179 1, 1093: DTE 1093 68.203248 0.156383 ff 01 00 0c 0b 0b 23
180 1, 1100: DTE 1100 68.372325 0.156449 ff 01 00 0c 0b 0f 27
181 1, 1107: DTE 1107 68.540305 0.155342 ff 01 00 0c 0b 13 2b
182 1, 1114: DTE 1114 68.709265 0.156332 ff 01 00 0c 0f 13 2f
183 1, 1121: DTE 1121 68.877351 0.155395 ff 01 00 0c 0f 17 33
184 1, 1128: DTE 1128 69.046376 0.156386 ff 01 00 0c 0f 1b 37
185 1, 1135: DTE 1135 69.214382 0.155369 ff 01 00 0c 13 1b 3b
186 1, 1142: DTE 1142 69.386401 0.159380 ff 01 00 0c 13 1f 3f
187 1, 1149: DTE 1149 69.556425 0.157387 ff 01 00 0c 17 1f 43
188 1, 1156: DTE 1156 69.725463 0.156410 ff 01 00 0c 17 23 47
189 1, 1163: DTE 1163 69.893430 0.155341 ff 01 00 0c 17 27 4b
190 1, 1170: DTE 1170 70.062492 0.156395 ff 01 00 0c 1b 27 4f
191 1, 1177: DTE 1177 70.235567 0.160447 ff 01 00 0c 1b 2a 52
192 1, 1184: DTE 1184 70.404551 0.156358 ff 01 00 0c 1f 2a 56
193 1, 1191: DTE 1191 70.572580 0.155389 ff 01 00 0c 1f 2f 5b
194 1, 1198: DTE 1198 70.742080 0.156867 ff 01 00 0c 23 2f 5f
195 1, 1205: DTE 1205 70.909616 0.155394 ff 01 00 0c 23 33 63
196 1, 1212: DTE 1212 71.078640 0.156398 ff 01 00 0c 23 36 66
197 1, 1219: DTE 1219 71.246660 0.155381 ff 01 00 0c 27 36 6a
198 1, 1226: DTE 1226 71.424695 0.165576 ff 01 00 0c 27 3a 6e
199 1, 1233: DTE 1233 72.152780 0.715446 ff 01 00 00 00 00 01
200
201 1, 1240: DTE 1240 76.630398 4.464978 ff 01 00 0c 07 03 17
202 1, 1247: DTE 1247 76.799420 0.156397 ff 01 00 08 00 03 0c
203 1, 1254: DTE 1254 76.967426 0.155379 ff 01 00 08 00 07 10
204 1, 1261: DTE 1261 77.136503 0.156434 ff 01 00 08 00 0b 14
205 1, 1268: DTE 1268 77.651634 0.502503 ff 01 00 08 00 0f 18
206 1, 1275: DTE 1275 77.818548 0.154286 ff 01 00 08 00 13 1c
207 1, 1282: DTE 1282 78.718677 0.887503 ff 01 00 08 00 17 20
208 1, 1289: DTE 1289 78.887689 0.156371 ff 01 00 08 00 1b 24
209 1, 1296: DTE 1296 79.295747 0.395420 ff 01 00 08 00 1f 28
210 1, 1303: DTE 1303 79.668796 0.360421 ff 01 00 08 00 23 2c
211 1, 1310: DTE 1310 79.927844 0.246423 ff 01 00 08 00 27 30
212 1, 1317: DTE 1317 80.292883 0.352411 ff 01 00 08 00 2a 33
213 1, 1324: DTE 1324 80.473911 0.168400 ff 01 00 08 00 2f 38
214 1, 1331: DTE 1331 80.663938 0.177386 ff 01 00 08 00 33 3c
215 1, 1338: DTE 1338 81.143990 0.467412 ff 01 00 08 00 36 3f
216 1, 1345: DTE 1345 81.633053 0.476437 ff 01 00 08 00 3a 43
217 1, 1352: DTE 1352 82.340163 0.694471 ff 01 00 00 00 00 01
218
219 1, 1359: DTE 1359 86.139680 3.786892 ff 01 00 20 00 00 21
220 1, 1366: DTE 1366 87.908912 1.756593 ff 01 00 00 00 00 01
221
222 1, 1373: DTE 1373 90.354250 2.432699 ff 01 00 40 00 00 41
223 1, 1380: DTE 1380 92.713573 2.346696 ff 01 00 00 00 00 01
224
225 1, 1387: DTE 1387 96.278064 3.551929 ff 01 00 0a 3a 1f 64
226 1, 1394: DTE 1394 97.102180 0.811656 ff 01 00 00 00 00 01
227
228 1, 1401: DTE 1401 97.457219 0.342413 ff 01 02 00 00 00 03
229 1, 1408: DTE 1408 99.807530 2.337672 ff 01 00 00 00 00 01
230
231 1, 1415: DTE 1415 101.791801 1.971644 ff 01 04 00 00 00 05
232 1, 1422: DTE 1422 103.972087 2.167659 ff 01 00 00 00 00 01
233
234 1, 1429: DTE 1429 107.147517 3.162803 ff 01 00 80 00 00 81
235 1, 1436: DTE 1436 109.861903 2.701747 ff 01 00 00 00 00 01
236
237 1, 1443: DTE 1443 112.503324 2.628781 ff 01 01 00 00 00 02
238 1, 1450: DTE 1450 114.832568 2.316605 ff 01 00 00 00 00 01
239
240 1, 1457: DTE 1457 118.764092 3.918898 ff 01 00 07 00 01 09
241 1, 1464: DTE 1464 124.185836 5.409119 ff 01 00 03 00 01 05
242
243 1, 1471: DTE 1471 132.810991 8.612684 ff 01 00 07 00 ff 07
244 1, 1478: DTE 1478 137.848698 5.025082 ff 01 00 03 00 ff 03

```

245
246 There were a total of 1484 bytes transferred
247
248 There were a total of 0 DCE bytes transferred
249 The first DCE byte came in at 0.000000 seconds from the start of data collection
250 The last DCE byte was at 0.000000 seconds from the start of data collection
251
252 There were a total of 1484 DTE bytes transferred
253 The first DTE byte came in at 0.000000 seconds from the start of data collection
254 The last DTE byte was at 137.861337 seconds from the start of data collection
255
256

3.28 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.

3.28.1 29may07b.out

```

1  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2  $Header: d:/1stLooks/Combined/RCS/29MAY07B.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

```

³⁰\$Header: d:/1stLooks/Combined/RCS/Philips.inc,v 1.2 2007-12-31 08:22:15-08 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

```

3.28.2 29may07bb.out

```

1  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2  $Header: d:/1stLooks/Combined/RCS/29MAY07BB.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 — 31 December 2007 — 12:55

```

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

```

3.29 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.

³¹\$Header: d:/1stLooks/Combined/RCS/Phili232.inc,v 1.2 2007-12-31 08:22:15-08 Hamilton Exp Hamilton \$

3.30 Philips G3 AutoDome

This data was collected from a an Integral Technologies, DS XPress DVR on 19DEC07.

1. Baud: **4800**
2. Hello Message: **No**
3. Minimum Camera Address: **1**
4. Maximum Camera Address: **16,384**
5. Minimum Preset Number: **1**
6. Maximum Preset Number: **99**
7. Do we have an “official” protocol document? **Yes**
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: _____.

3.30.1 19DEC07F.out

```

1  Integral Technologies DS XPress DVR
2  DTE = From the DVR
3  DCE = nothing, no dome was attached
4  4800 baud
5  No parity
6  Philips G3 AutoDome
7
8
9  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
10 $Header: d:/1stLooks/Combined/RCS/19DEC07F.out,v 1.3 2007-12-19 12:35:31-08 Hamilton Exp Hamilton $
11 FTS capture buffer (12/19/2007 7:25:42 AM)
12 Event 1 (12/19/2007 7:23:07.230596 AM) through
13 Event 1,672 (12/19/2007 7:25:03.492996 AM)
14
15
16      1,      1: DTE      1      0.000000      0.000000 87 00 00 05 00 10 0a 26
17      1,      9: DTE      9      0.268060      0.253310 87 00 00 05 00 00 08 14
18      1,     17: DTE     17      0.436925      0.154129 87 00 00 05 01 00 08 15
19      1,     25: DTE     25      0.606106      0.154298 87 00 00 05 02 00 08 16
20      1,     33: DTE     33      0.774140      0.153296 87 00 00 05 03 00 08 17
21      1,     41: DTE     41      0.943152      0.154276 87 00 00 05 04 00 08 18
22      1,     49: DTE     49      1.588256      0.630533 87 00 00 05 05 00 08 19
23      1,     57: DTE     57      2.420366      0.817374 87 00 00 05 06 00 08 1a
24      1,     65: DTE     65      2.772384      0.337284 87 00 00 05 07 00 08 1b
25      1,     73: DTE     73      3.038438      0.251320 87 00 00 05 08 00 08 1c
26      1,     81: DTE     81      3.960420      0.907247 87 00 00 05 09 00 08 1d
27      1,     89: DTE     89      4.128594      0.153271 87 00 00 05 0a 00 08 1e
28      1,     97: DTE     97      4.297616      0.154285 87 00 00 05 0b 00 08 1f

```

³²\$Header: d:/1stLooks/Combined/RCS/DSXbur.inc,v 1.2 2007-12-31 09:06:36-08 Hamilton Exp Hamilton \$

29	1,	105:	DTE	105	4.470625	0.158272	87	00	00	05	0c	00	08	20
30	1,	113:	DTE	113	4.724673	0.239313	87	00	00	05	0d	00	08	21
31	1,	121:	DTE	121	4.956512	0.217101	87	00	00	05	0d	00	08	21
32														
33	1,	129:	DTE	129	6.159871	1.188448	87	00	00	05	00	00	00	0c
34														
35	1,	137:	DTE	137	9.830352	3.655747	87	00	00	05	00	00	08	14
36	1,	145:	DTE	145	10.490457	0.645370	87	00	00	05	01	00	08	15
37	1,	153:	DTE	153	10.658435	0.153245	87	00	00	05	01	00	09	16
38	1,	161:	DTE	161	10.827486	0.154314	87	00	00	05	02	00	09	17
39	1,	169:	DTE	169	10.996510	0.154288	87	00	00	05	03	00	09	18
40	1,	177:	DTE	177	11.412564	0.401486	87	00	00	05	03	08	09	20
41	1,	185:	DTE	185	11.850638	0.423337	87	00	00	05	04	08	09	21
42	1,	193:	DTE	193	12.018671	0.153298	87	00	00	05	04	10	09	29
43	1,	201:	DTE	201	12.191704	0.158298	87	00	00	05	05	10	09	2a
44	1,	209:	DTE	209	12.360728	0.154288	87	00	00	05	06	10	09	2b
45	1,	217:	DTE	217	12.529725	0.154245	87	00	00	05	07	10	09	2c
46	1,	225:	DTE	225	12.697747	0.153272	87	00	00	05	07	18	09	34
47	1,	233:	DTE	233	12.870766	0.158249	87	00	00	05	08	18	09	35
48	1,	241:	DTE	241	13.039804	0.154300	87	00	00	05	08	20	09	3d
49	1,	249:	DTE	249	13.205806	0.151266	87	00	00	05	09	20	09	3e
50	1,	257:	DTE	257	13.376822	0.156280	87	00	00	05	0a	20	09	3f
51	1,	265:	DTE	265	13.544868	0.153297	87	00	00	05	0a	28	09	47
52	1,	273:	DTE	273	13.747877	0.188272	87	00	00	05	0a	30	09	4f
53	1,	281:	DTE	281	13.916899	0.154287	87	00	00	05	0b	30	09	50
54	1,	289:	DTE	289	14.439911	0.508275	87	00	00	05	0b	38	09	58
55	1,	297:	DTE	297	14.609008	0.154299	87	00	00	05	0c	38	09	59
56	1,	305:	DTE	305	14.777017	0.153272	87	00	00	05	0d	38	09	5a
57	1,	313:	DTE	313	14.946039	0.154285	87	00	00	05	0d	38	09	5a
58														
59	1,	321:	DTE	321	16.404243	1.443589	87	00	00	05	00	00	00	0c
60														
61	1,	329:	DTE	329	19.336653	2.917674	86	00	00	02	00	04	0c	
62	1,	336:	DTE	336	20.182746	0.833468	87	00	00	05	00	00	01	0d
63	1,	344:	DTE	344	20.805858	0.608376	87	00	00	05	00	08	01	15
64	1,	352:	DTE	352	21.362941	0.542347	87	00	00	05	00	10	01	1d
65	1,	360:	DTE	360	21.530948	0.153271	87	00	00	05	00	18	01	25
66	1,	368:	DTE	368	21.699972	0.154288	87	00	00	05	00	20	01	2d
67	1,	376:	DTE	376	21.903227	0.188519	87	00	00	05	00	28	01	35
68	1,	384:	DTE	384	22.298072	0.380107	87	00	00	05	00	30	01	3d
69	1,	392:	DTE	392	22.564100	0.251281	87	00	00	05	00	38	01	45
70	1,	400:	DTE	400	22.789218	0.210383	87	00	00	05	00	40	01	4d
71	1,	408:	DTE	408	23.064178	0.260226	87	00	00	05	00	48	01	55
72	1,	416:	DTE	416	23.233500	0.154586	87	00	00	05	00	50	01	5d
73	1,	424:	DTE	424	23.487200	0.238964	87	00	00	05	00	58	01	65
74	1,	432:	DTE	432	23.732212	0.230277	87	00	00	05	00	60	01	6d
75	1,	440:	DTE	440	23.944269	0.197321	87	00	00	05	00	68	01	75
76	1,	448:	DTE	448	24.112357	0.153353	87	00	00	05	00	68	01	75
77	1,	456:	DTE	456	24.969399	0.842309	87	00	00	05	00	00	00	0c
78														
79	1,	464:	DTE	464	26.828669	1.844535	86	00	00	02	00	04	0c	
80	1,	471:	DTE	471	27.223735	0.382439	87	00	00	05	00	00	01	0d
81	1,	479:	DTE	479	27.392758	0.154441	87	00	00	05	00	00	05	11
82	1,	487:	DTE	487	27.561756	0.154261	87	00	00	05	00	08	05	19
83	1,	495:	DTE	495	28.054842	0.478351	87	00	00	05	01	08	05	1a
84	1,	503:	DTE	503	28.222863	0.153356	87	00	00	05	01	10	05	22
85	1,	511:	DTE	511	28.391860	0.154261	87	00	00	05	02	10	05	23
86	1,	519:	DTE	519	28.560896	0.154321	87	00	00	05	03	10	05	24
87	1,	527:	DTE	527	28.732902	0.157270	87	00	00	05	03	18	05	2c
88	1,	535:	DTE	535	28.901925	0.154274	87	00	00	05	04	18	05	2d
89	1,	543:	DTE	543	29.070950	0.154289	87	00	00	05	05	18	05	2e
90	1,	551:	DTE	551	29.238994	0.153283	87	00	00	05	05	20	05	36
91	1,	559:	DTE	559	29.407979	0.154247	87	00	00	05	06	20	05	37
92	1,	567:	DTE	567	29.577027	0.154299	87	00	00	05	06	28	05	3f
93	1,	575:	DTE	575	29.745310	0.153616	87	00	00	05	07	28	05	40
94	1,	583:	DTE	583	29.914060	0.154014	87	00	00	05	08	28	05	41
95	1,	591:	DTE	591	30.082172	0.153376	87	00	00	05	08	30	05	49
96	1,	599:	DTE	599	30.251143	0.154234	87	00	00	05	09	30	05	4a
97	1,	607:	DTE	607	30.419150	0.153257	87	00	00	05	09	38	05	52
98	1,	615:	DTE	615	30.588148	0.154262	87	00	00	05	0a	38	05	53
99	1,	623:	DTE	623	30.757224	0.154338	87	00	00	05	0b	38	05	54
100	1,	631:	DTE	631	30.925043	0.153082	87	00	00	05	0c	38	05	55

101	1,	639:	DTE	639	31.094076	0.154133	87	00	00	05	0c	40	05	5d
102	1,	647:	DTE	647	31.263278	0.154287	87	00	00	05	0d	40	05	5e
103	1,	655:	DTE	655	31.431378	0.153363	87	00	00	05	0d	40	05	5e
104	1,	663:	DTE	663	31.600336	0.154222	87	00	00	05	0d	48	05	66
105	1,	671:	DTE	671	31.769334	0.154262	87	00	00	05	00	00	00	0c
106														
107	1,	679:	DTE	679	33.799621	2.015552	87	00	00	05	00	08	02	16
108	1,	687:	DTE	687	34.505701	0.691333	87	00	00	05	00	00	04	10
109	1,	695:	DTE	695	35.234790	0.714519	87	00	00	05	01	00	04	11
110	1,	703:	DTE	703	35.402861	0.153336	87	00	00	05	02	00	04	12
111	1,	711:	DTE	711	35.733850	0.316252	87	00	00	05	03	00	04	13
112	1,	719:	DTE	719	35.902887	0.154300	87	00	00	05	04	00	04	14
113	1,	727:	DTE	727	36.178085	0.260447	87	00	00	05	05	00	04	15
114	1,	735:	DTE	735	36.346923	0.154103	87	00	00	05	06	00	04	16
115	1,	743:	DTE	743	36.578982	0.217299	87	00	00	05	07	00	04	17
116	1,	751:	DTE	751	36.855037	0.261305	87	00	00	05	08	00	04	18
117	1,	759:	DTE	759	37.023032	0.153259	87	00	00	05	09	00	04	19
118	1,	767:	DTE	767	37.192068	0.154301	87	00	00	05	0a	00	04	1a
119	1,	775:	DTE	775	37.771130	0.564314	87	00	00	05	0b	00	04	1b
120	1,	783:	DTE	783	37.940153	0.154287	87	00	00	05	0c	00	04	1c
121	1,	791:	DTE	791	38.236208	0.281319	87	00	00	05	0d	00	04	1d
122	1,	799:	DTE	799	38.490232	0.239289	87	00	00	05	0d	00	04	1d
123	1,	807:	DTE	807	39.304348	0.799534	87	00	00	05	00	00	00	0c
124														
125	1,	815:	DTE	815	41.966704	2.647622	87	00	00	05	00	20	02	2e
126	1,	823:	DTE	823	42.792852	0.811413	87	00	00	05	00	00	02	0e
127	1,	831:	DTE	831	43.124918	0.317334	87	00	00	05	00	08	02	16
128	1,	839:	DTE	839	43.296883	0.157228	87	00	00	05	00	08	06	1a
129	1,	847:	DTE	847	43.465922	0.154456	87	00	00	05	01	08	06	1b
130	1,	855:	DTE	855	43.634945	0.154287	87	00	00	05	02	08	06	1c
131	1,	863:	DTE	863	43.802965	0.153284	87	00	00	05	03	08	06	1d
132	1,	871:	DTE	871	43.983030	0.165310	87	00	00	05	03	10	06	25
133	1,	879:	DTE	879	44.159438	0.161671	87	00	00	05	04	10	06	26
134	1,	887:	DTE	887	44.330075	0.155903	87	00	00	05	04	18	06	2e
135	1,	895:	DTE	895	44.499033	0.154209	87	00	00	05	05	18	06	2f
136	1,	903:	DTE	903	44.672092	0.158308	87	00	00	05	05	20	06	37
137	1,	911:	DTE	911	44.840102	0.153273	87	00	00	05	05	28	06	3f
138	1,	919:	DTE	919	45.009164	0.154328	87	00	00	05	06	28	06	40
139	1,	927:	DTE	927	45.178136	0.154403	87	00	00	05	07	28	06	41
140	1,	935:	DTE	935	45.346155	0.153285	87	00	00	05	07	30	06	49
141	1,	943:	DTE	943	45.732223	0.371332	87	00	00	05	08	30	06	4a
142	1,	951:	DTE	951	45.901258	0.154299	87	00	00	05	08	38	06	52
143	1,	959:	DTE	959	46.126286	0.210289	87	00	00	05	09	38	06	53
144	1,	967:	DTE	967	46.294292	0.153270	87	00	00	05	09	40	06	5b
145	1,	975:	DTE	975	46.463330	0.154301	87	00	00	05	0a	40	06	5c
146	1,	983:	DTE	983	46.631338	0.153271	87	00	00	05	0b	40	06	5d
147	1,	991:	DTE	991	46.834373	0.188289	87	00	00	05	0b	48	06	65
148	1,	999:	DTE	999	47.229425	0.380306	87	00	00	05	0c	48	06	66
149	1,	1007:	DTE	1007	47.397304	0.153145	87	00	00	05	0c	50	06	6e
150	1,	1015:	DTE	1015	47.566441	0.154234	87	00	00	05	0d	50	06	6f
151	1,	1023:	DTE	1023	47.735465	0.154287	87	00	00	05	0d	58	06	77
152	1,	1031:	DTE	1031	47.904526	0.154325	87	00	00	05	0d	58	06	77
153	1,	1039:	DTE	1039	48.072537	0.153273	87	00	00	05	0d	60	06	7f
154	1,	1047:	DTE	1047	48.241571	0.154454	87	00	00	05	0d	68	06	07
155	1,	1055:	DTE	1055	48.678631	0.422324	87	00	00	05	00	00	00	0c
156														
157	1,	1063:	DTE	1063	51.406000	2.712635	87	00	00	05	00	20	02	2e
158	1,	1071:	DTE	1071	51.771040	0.350306	87	00	00	05	00	00	02	0e
159	1,	1079:	DTE	1079	52.401118	0.615329	87	00	00	05	00	08	02	16
160	1,	1087:	DTE	1087	52.646143	0.230291	87	00	00	05	00	10	02	1e
161	1,	1095:	DTE	1095	52.999189	0.338312	87	00	00	05	00	18	02	26
162	1,	1103:	DTE	1103	53.223252	0.209327	87	00	00	05	00	20	02	2e
163	1,	1111:	DTE	1111	53.609309	0.371308	87	00	00	05	00	28	02	36
164	1,	1119:	DTE	1119	53.991225	0.367183	87	00	00	05	00	30	02	3e
165	1,	1127:	DTE	1127	54.194398	0.188311	87	00	00	05	00	38	02	46
166	1,	1135:	DTE	1135	54.363393	0.154259	87	00	00	05	00	40	02	4e
167	1,	1143:	DTE	1143	54.865454	0.487310	87	00	00	05	00	48	02	56
168	1,	1151:	DTE	1151	55.251507	0.371319	87	00	00	05	00	50	02	5e
169	1,	1159:	DTE	1159	55.539541	0.273285	87	00	00	05	00	58	02	66
170	1,	1167:	DTE	1167	55.934657	0.380367	87	00	00	05	00	60	02	6e
171	1,	1175:	DTE	1175	56.222615	0.273222	87	00	00	05	00	68	02	76
172	1,	1183:	DTE	1183	56.511714	0.274350	87	00	00	05	00	68	02	76

173	1,	1191:	DTE	1191	57.043593	0.517259	87	00	00	05	00	00	00	0c
174														
175	1,	1199:	DTE	1199	59.445089	2.386595	87	00	00	05	00	28	02	36
176	1,	1207:	DTE	1207	59.691116	0.231307	87	00	00	05	00	00	02	0e
177	1,	1215:	DTE	1215	59.957144	0.251279	87	00	00	05	00	00	0a	16
178	1,	1223:	DTE	1223	60.126181	0.154301	87	00	00	05	00	08	0a	1e
179	1,	1231:	DTE	1231	60.295177	0.154260	87	00	00	05	01	08	0a	1f
180	1,	1239:	DTE	1239	60.463212	0.153298	87	00	00	05	01	10	0a	27
181	1,	1247:	DTE	1247	60.632234	0.154285	87	00	00	05	02	10	0a	28
182	1,	1255:	DTE	1255	60.954291	0.307319	87	00	00	05	03	10	0a	29
183	1,	1263:	DTE	1263	61.123328	0.154285	87	00	00	05	03	18	0a	31
184	1,	1271:	DTE	1271	61.292350	0.154284	87	00	00	05	04	18	0a	32
185	1,	1279:	DTE	1279	61.460360	0.153259	87	00	00	05	04	20	0a	3a
186	1,	1287:	DTE	1287	61.629384	0.154288	87	00	00	05	05	20	0a	3b
187	1,	1295:	DTE	1295	61.798396	0.154276	87	00	00	05	06	20	0a	3c
188	1,	1303:	DTE	1303	61.966427	0.153297	87	00	00	05	06	28	0a	44
189	1,	1311:	DTE	1311	62.135439	0.154275	87	00	00	05	07	28	0a	45
190	1,	1319:	DTE	1319	62.304474	0.154287	87	00	00	05	08	28	0a	46
191	1,	1327:	DTE	1327	62.472547	0.153337	87	00	00	05	08	30	0a	4e
192	1,	1335:	DTE	1335	62.641506	0.154222	87	00	00	05	09	30	0a	4f
193	1,	1343:	DTE	1343	62.810528	0.154286	87	00	00	05	09	38	0a	57
194	1,	1351:	DTE	1351	62.982561	0.157295	87	00	00	05	0a	38	0a	58
195	1,	1359:	DTE	1359	63.151571	0.154260	87	00	00	05	0b	38	0a	59
196	1,	1367:	DTE	1367	63.320605	0.154286	87	00	00	05	0b	40	0a	61
197	1,	1375:	DTE	1375	63.488602	0.153258	87	00	00	05	0c	40	0a	62
198	1,	1383:	DTE	1383	63.661650	0.158311	87	00	00	05	0c	48	0a	6a
199	1,	1391:	DTE	1391	63.830686	0.154300	87	00	00	05	0d	48	0a	6b
200	1,	1399:	DTE	1399	64.032691	0.187270	87	00	00	05	0d	50	0a	73
201	1,	1407:	DTE	1407	64.201714	0.154454	87	00	00	05	0d	50	0a	73
202														
203	1,	1415:	DTE	1415	65.574945	1.358481	87	00	00	05	00	00	00	0c
204														
205	1,	1423:	DTE	1423	68.955373	3.365694	87	00	00	05	00	08	02	16
206	1,	1431:	DTE	1431	69.128392	0.158282	87	00	00	05	00	00	08	14
207	1,	1439:	DTE	1439	69.297402	0.154273	87	00	00	05	01	00	08	15
208	1,	1447:	DTE	1447	69.798460	0.486320	87	00	00	05	02	00	08	16
209	1,	1455:	DTE	1455	69.980503	0.167308	87	00	00	05	03	00	08	17
210	1,	1463:	DTE	1463	70.148538	0.153298	87	00	00	05	04	00	08	18
211	1,	1471:	DTE	1471	70.360388	0.197116	87	00	00	05	05	00	08	19
212	1,	1479:	DTE	1479	70.712666	0.337362	87	00	00	05	06	00	08	1a
213	1,	1487:	DTE	1487	70.881651	0.154252	87	00	00	05	07	00	08	1b
214	1,	1495:	DTE	1495	71.220685	0.324300	87	00	00	05	08	00	08	1c
215	1,	1503:	DTE	1503	71.477417	0.241996	87	00	00	05	09	00	08	1d
216	1,	1511:	DTE	1511	71.724570	0.232364	87	00	00	05	0a	00	08	1e
217	1,	1519:	DTE	1519	72.085802	0.346332	87	00	00	05	0b	00	08	1f
218	1,	1527:	DTE	1527	72.266805	0.166266	87	00	00	05	0c	00	08	20
219	1,	1535:	DTE	1535	72.435854	0.154313	87	00	00	05	0d	00	08	21
220	1,	1543:	DTE	1543	72.604865	0.154274	87	00	00	05	0d	00	08	21
221	1,	1551:	DTE	1551	73.126923	0.507322	87	00	00	05	00	00	00	0c
222														
223	1,	1559:	DTE	1559	76.789446	3.647787	86	00	00	02	00	04	0c	
224	1,	1566:	DTE	1566	79.181754	2.379677	86	00	00	02	00	00	08	
225														
226	1,	1573:	DTE	1573	80.598941	1.404549	86	00	00	02	04	00	0c	
227	1,	1580:	DTE	1580	82.681247	2.069667	86	00	00	02	00	00	08	
228														
229	1,	1587:	DTE	1587	85.988654	3.294769	86	00	00	02	01	00	09	
230	1,	1594:	DTE	1594	88.309996	2.308703	86	00	00	02	00	00	08	
231														
232	1,	1601:	DTE	1601	89.726207	1.403586	86	00	00	02	00	01	09	
233	1,	1608:	DTE	1608	91.722455	1.983623	86	00	00	02	00	00	08	
234														
235	1,	1615:	DTE	1615	94.748876	3.013793	87	00	00	05	05	68	05	7a
236	1,	1623:	DTE	1623	96.595102	1.831491	87	00	00	05	00	00	00	0c
237														
238	1,	1631:	DTE	1631	99.053446	2.443595	86	00	00	02	02	00	0a	
239	1,	1638:	DTE	1638	100.921701	1.855627	86	00	00	02	00	00	08	
240														
241	1,	1645:	DTE	1645	102.862964	1.928674	86	00	00	07	05	01	13	
242	1,	1652:	DTE	1652	106.576779	3.701209	86	00	00	07	04	01	12	
243														
244	1,	1659:	DTE	1659	112.451258	5.861853	86	00	00	07	05	63	75	

```
245      1,      1666: DTE      1666      116.249762      3.785864 86 00 00 07 04 63 74
246
247 There were a total of      1672 bytes transferred
248
249 There were a total of      0 DCE bytes transferred
250 The first DCE byte came in at 0.000000 seconds from the start of data collection
251 The last DCE byte was at 0.000000 seconds from the start of data collection
252
253 There were a total of      1672 DTE bytes transferred
254 The first DTE byte came in at 0.000000 seconds from the start of data collection
255 The last DTE byte was at 116.262400 seconds from the start of data collection
256
```


3.31 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?

3.31.1 29may07c.out

```

1  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2  $Header: d:/1stLooks/Combined/RCS/29MAY07C.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 00 ff e3
9      1,     19: DTE     19      0.046968  0.012915 a0 fe 01 03 1a 00 00 00 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

```

³³\$Header: d:/1stLooks/Combined/RCS/Samsung.inc,v 1.2 2007-12-31 08:22:15-08 Hamilton Exp Hamilton \$

```

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
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

3.31.2 29may07cc.out

```

1  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2  $Header: d:/1stLooks/Combined/RCS/29MAY07CC.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

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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

```


3.32 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.

3.32.1 29may07d.out

```

1  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2  $Header: d:/1stLooks/Combined/RCS/29MAY07D.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

```

³⁴\$Header: d:/1stLooks/Combined/RCS/Sensorma.inc,v 1.2 2007-12-31 08:22:15-08 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	

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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
```


3.33 Sensormatic SpeedDome Ultra

This data was collected from a an Integral Technologies, DS XPress DVR on 19DEC07.

1. Baud: **4800**
2. Hello Message: **No**
3. Minimum Camera Address: **1**
4. Maximum Camera Address: **99**
5. Minimum Preset Number: **1**
6. Maximum Preset Number: **95**
7. Do we have an “official” protocol document? **Yes**
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: _____.

3.33.1 19DEC07G.out

```

1  Integral Technologies DS XPress DVR
2  DTE = From the DVR
3  DCE = nothing, no dome was attached
4  4800 baud
5  No parity
6  Sensormatic SpeedDome Ultra
7
8
9  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
10 $Header: d:/1stLooks/Combined/RCS/19DEC07G.out,v 1.2 2007-12-19 12:35:31-08 Hamilton Exp Hamilton $
11 FTS capture buffer (12/19/2007 7:30:41 AM)
12 Event 1 (12/19/2007 7:27:33.995831 AM) through
13 Event 1,559 (12/19/2007 7:30:16.873262 AM)
14
15
16      1,      1: DTE      1      0.000000  0.000000 01 c0 81 06 b8
17
18      1,      6: DTE      6      0.266966  0.258545 01 c0 84 06 b5
19      1,     11: DTE     11      0.538034  0.262647 01 c0 84 06 b5
20      1,     16: DTE     16      1.279102  0.732647 01 c0 84 0c af
21      1,     21: DTE     21      1.986236  0.698714 01 c0 84 12 a9
22      1,     26: DTE     26      2.522266  0.527608 01 c0 84 19 a2
23      1,     31: DTE     31      3.255366  0.724680 01 c0 84 1f 9c
24      1,     36: DTE     36      4.064504  0.800718 01 c0 84 25 96
25      1,     41: DTE     41      4.548554  0.475748 01 c0 84 2b 90
26      1,     46: DTE     46      5.153634  0.596659 01 c0 84 32 89
27      1,     51: DTE     51      5.778711  0.616658 01 c0 84 38 83
28      1,     56: DTE     56      6.049764  0.262633 01 c0 84 3e 7d

```

³⁵\$Header: d:/1stLooks/Combined/RCS/DSXsen.inc,v 1.2 2007-12-31 09:06:36-08 Hamilton Exp Hamilton \$

29	1,	61:	DTE	61	6.329941	0.271755	01	c0	84	44	77
30	1,	66:	DTE	66	6.600834	0.262453	01	c0	84	4b	70
31	1,	71:	DTE	71	6.872916	0.263662	01	c0	84	51	6a
32	1,	76:	DTE	76	7.142902	0.261566	01	c0	84	57	64
33	1,	81:	DTE	81	7.414961	0.263637	01	c0	84	5d	5e
34	1,	86:	DTE	86	8.714949	1.291568	01	93	6c		
35											
36	1,	89:	DTE	89	13.424752	4.705434	01	c0	84	06	b5
37	1,	94:	DTE	94	14.157894	0.724723	01	c0	84	0c	af
38	1,	99:	DTE	99	14.426886	0.260550	01	c0	84	12	a9
39											
40	1,	104:	DTE	104	14.699753	0.264446	01	c0	82	06	b7
41	1,	109:	DTE	109	14.954972	0.246630	01	c0	84	12	a9
42	1,	114:	DTE	114	15.222004	0.258612	01	c0	82	06	b7
43	1,	119:	DTE	119	15.493033	0.262608	01	c0	84	19	a2
44	1,	124:	DTE	124	15.760112	0.258644	01	c0	82	0c	b1
45	1,	129:	DTE	129	16.031118	0.262596	01	c0	84	19	a2
46	1,	134:	DTE	134	16.298151	0.258611	01	c0	82	0c	b1
47	1,	139:	DTE	139	16.569205	0.262635	01	c0	84	1f	9c
48	1,	144:	DTE	144	16.836235	0.258611	01	c0	82	12	ab
49	1,	149:	DTE	149	17.107265	0.262609	01	c0	84	1f	9c
50	1,	154:	DTE	154	17.374309	0.258625	01	c0	82	12	ab
51	1,	159:	DTE	159	17.645323	0.262762	01	c0	84	25	96
52	1,	164:	DTE	164	17.912382	0.258638	01	c0	82	12	ab
53	1,	169:	DTE	169	18.183410	0.262608	01	c0	84	2b	90
54	1,	174:	DTE	174	18.454463	0.262633	01	c0	82	19	a4
55	1,	179:	DTE	179	18.725493	0.262608	01	c0	84	2b	90
56	1,	184:	DTE	184	18.996547	0.262634	01	c0	82	19	a4
57	1,	189:	DTE	189	19.266548	0.261691	01	c0	84	32	89
58	1,	194:	DTE	194	19.538592	0.263625	01	c0	82	1f	9e
59	1,	199:	DTE	199	19.810635	0.263623	01	c0	84	32	89
60	1,	204:	DTE	204	20.081664	0.262607	01	c0	82	25	98
61	1,	209:	DTE	209	20.352694	0.262609	01	c0	84	32	89
62	1,	214:	DTE	214	20.623721	0.262608	01	c0	82	25	98
63	1,	219:	DTE	219	20.894788	0.262647	01	c0	84	38	83
64	1,	224:	DTE	224	21.165805	0.262596	01	c0	82	25	98
65	1,	229:	DTE	229	21.432850	0.258624	01	c0	84	3e	7d
66	1,	234:	DTE	234	21.703879	0.262609	01	c0	82	2b	92
67	1,	239:	DTE	239	21.975920	0.263623	01	c0	84	3e	7d
68	1,	244:	DTE	244	22.245947	0.261605	01	c0	82	2b	92
69	1,	249:	DTE	249	22.517992	0.263623	01	c0	84	44	77
70	1,	254:	DTE	254	22.789021	0.262609	01	c0	82	32	8b
71	1,	259:	DTE	259	23.060063	0.262621	01	c0	84	44	77
72	1,	264:	DTE	264	23.331086	0.262602	01	c0	82	32	8b
73	1,	269:	DTE	269	23.598135	0.258623	01	c0	84	4b	70
74	1,	274:	DTE	274	23.869163	0.262620	01	c0	82	32	8b
75	1,	279:	DTE	279	24.140218	0.262633	01	c0	84	51	6a
76	1,	284:	DTE	284	24.411247	0.262606	01	c0	82	38	85
77	1,	289:	DTE	289	24.682288	0.262620	01	c0	84	51	6a
78	1,	294:	DTE	294	24.952328	0.261616	01	c0	82	3e	7f
79	1,	299:	DTE	299	25.224359	0.263610	01	c0	84	51	6a
80	1,	304:	DTE	304	25.496391	0.263610	01	c0	82	44	79
81	1,	309:	DTE	309	25.767457	0.262642	01	c0	84	57	64
82	1,	314:	DTE	314	26.038486	0.262608	01	c0	82	44	79
83	1,	319:	DTE	319	26.309490	0.262583	01	c0	84	5d	5e
84	1,	324:	DTE	324	26.580545	0.262634	01	c0	82	4b	72
85	1,	329:	DTE	329	26.851598	0.262633	01	c0	84	5d	5e
86	1,	334:	DTE	334	27.123630	0.263610	01	c0	82	51	6c
87	1,	339:	DTE	339	27.392641	0.260590	01	c0	84	5d	5e
88	1,	344:	DTE	344	27.665688	0.264794	01	c0	82	57	66
89	1,	349:	DTE	349	27.936716	0.262607	01	c0	84	5d	5e
90	1,	354:	DTE	354	28.207770	0.262647	01	93	6c		
91											
92	1,	357:	DTE	357	28.462796	0.250818	01	8a	75		
93											
94	1,	360:	DTE	360	28.718833	0.251822	01	c0	82	06	b7
95	1,	365:	DTE	365	29.168889	0.441644	01	c0	82	0c	b1
96	1,	370:	DTE	370	29.751964	0.574652	01	c0	82	12	ab
97	1,	375:	DTE	375	30.095024	0.334699	01	c0	82	19	a4
98	1,	380:	DTE	380	30.623056	0.519578	01	c0	82	1f	9e
99	1,	385:	DTE	385	30.915126	0.283640	01	c0	82	25	98
100	1,	390:	DTE	390	31.195166	0.271785	01	c0	82	2b	92

101	1,	395:	DTE	395	31.466208	0.262621	01	c0	82	32	8b
102	1,	400:	DTE	400	31.887262	0.412633	01	c0	82	38	85
103	1,	405:	DTE	405	32.166337	0.270653	01	c0	82	3e	7f
104	1,	410:	DTE	410	32.578343	0.403586	01	c0	82	44	79
105	1,	415:	DTE	415	32.848446	0.261681	01	c0	82	4b	72
106	1,	420:	DTE	420	33.257484	0.400617	01	c0	82	51	6c
107	1,	425:	DTE	425	33.592497	0.326593	01	c0	82	57	66
108	1,	430:	DTE	430	33.864540	0.263624	01	c0	82	5d	60
109	1,	435:	DTE	435	34.468601	0.595653	01	93			6c
110											
111	1,	438:	DTE	438	40.493473	6.020668	01	8a			75
112											
113	1,	441:	DTE	441	41.810608	1.312933	01	c0	82	06	b7
114	1,	446:	DTE	446	42.083627	0.264599	01	c0	85	06	b4
115	1,	451:	DTE	451	42.602704	0.510655	01	c0	82	06	b7
116	1,	456:	DTE	456	42.873745	0.262621	01	c0	85	0c	ae
117	1,	461:	DTE	461	43.144799	0.262633	01	c0	82	0c	b1
118	1,	466:	DTE	466	43.415842	0.262621	01	c0	85	0c	ae
119	1,	471:	DTE	471	43.686857	0.262762	01	c0	82	0c	b1
120	1,	476:	DTE	476	43.957910	0.262632	01	c0	85	12	a8
121	1,	481:	DTE	481	44.229918	0.263581	01	c0	82	0c	b1
122	1,	486:	DTE	486	44.499981	0.261646	01	c0	85	19	a1
123	1,	491:	DTE	491	44.771916	0.263513	01	c0	82	12	ab
124	1,	496:	DTE	496	45.027039	0.246618	01	c0	85	19	a1
125	1,	501:	DTE	501	45.298067	0.262606	01	c0	82	12	ab
126	1,	506:	DTE	506	45.569121	0.262797	01	c0	85	1f	9b
127	1,	511:	DTE	511	45.840165	0.262622	01	c0	82	12	ab
128	1,	516:	DTE	516	46.111206	0.262622	01	c0	85	25	95
129	1,	521:	DTE	521	46.383225	0.263598	01	c0	82	19	a4
130	1,	526:	DTE	526	46.652273	0.260796	01	c0	85	25	95
131	1,	531:	DTE	531	46.925152	0.264458	01	c0	82	19	a4
132	1,	536:	DTE	536	47.180333	0.246593	01	c0	85	2b	8f
133	1,	541:	DTE	541	47.447367	0.258614	01	c0	82	19	a4
134	1,	546:	DTE	546	47.718393	0.262620	01	c0	85	32	88
135	1,	551:	DTE	551	47.989433	0.262618	01	c0	82	19	a4
136	1,	556:	DTE	556	48.260478	0.262622	01	c0	85	38	82
137	1,	561:	DTE	561	48.531531	0.262635	01	c0	82	1f	9e
138	1,	566:	DTE	566	48.802559	0.262608	01	c0	85	38	82
139	1,	571:	DTE	571	49.073615	0.262634	01	c0	82	1f	9e
140	1,	576:	DTE	576	49.343496	0.261462	01	c0	85	3e	7c
141	1,	581:	DTE	581	49.615671	0.263623	01	c0	82	25	98
142	1,	586:	DTE	586	49.887716	0.263623	01	c0	85	3e	7c
143	1,	591:	DTE	591	50.158730	0.262593	01	c0	82	2b	92
144	1,	596:	DTE	596	50.429785	0.262634	01	c0	85	3e	7c
145	1,	601:	DTE	601	50.700815	0.262775	01	c0	82	32	8b
146	1,	606:	DTE	606	50.967859	0.258624	01	c0	85	3e	7c
147	1,	611:	DTE	611	51.238888	0.262623	01	c0	82	32	8b
148	1,	616:	DTE	616	51.505905	0.258597	01	c0	85	44	76
149	1,	621:	DTE	621	51.776960	0.262634	01	c0	82	32	8b
150	1,	626:	DTE	626	52.043979	0.258599	01	c0	85	4b	6f
151	1,	631:	DTE	631	52.315058	0.262675	01	c0	82	38	85
152	1,	636:	DTE	636	52.582078	0.258598	01	c0	85	4b	6f
153	1,	641:	DTE	641	52.853107	0.262609	01	c0	82	38	85
154	1,	646:	DTE	646	53.120138	0.258611	01	c0	85	51	69
155	1,	651:	DTE	651	53.391178	0.262622	01	c0	82	38	85
156	1,	656:	DTE	656	53.662208	0.262608	01	c0	85	57	63
157	1,	661:	DTE	661	53.933251	0.262623	01	c0	82	38	85
158	1,	666:	DTE	666	54.205303	0.263632	01	c0	85	5d	5d
159	1,	671:	DTE	671	54.474329	0.260696	01	c0	82	3e	7f
160	1,	676:	DTE	676	54.747293	0.264543	01	c0	85	5d	5d
161	1,	681:	DTE	681	55.018418	0.262634	01	93			6c
162											
163	1,	684:	DTE	684	55.273432	0.250798	01	c0	81	0c	b2
164											
165	1,	689:	DTE	689	55.544512	0.262660	01	c0	85	06	b4
166	1,	694:	DTE	694	55.815593	0.262661	01	c0	85	0c	ae
167	1,	699:	DTE	699	56.087558	0.263545	01	c0	85	12	a8
168	1,	704:	DTE	704	56.357574	0.261595	01	c0	85	19	a1
169	1,	709:	DTE	709	56.629656	0.263664	01	c0	85	1f	9b
170	1,	714:	DTE	714	56.900645	0.262569	01	c0	85	25	95
171	1,	719:	DTE	719	57.171713	0.262648	01	c0	85	2b	8f
172	1,	724:	DTE	724	57.442549	0.262416	01	c0	85	32	88

173	1,	729:	DTE	729	57.713743	0.262774	01	c0	85	38	82
174	1,	734:	DTE	734	58.348835	0.626672	01	c0	85	3e	7c
175	1,	739:	DTE	739	58.759888	0.402632	01	c0	85	44	76
176	1,	744:	DTE	744	59.030931	0.262622	01	c0	85	4b	6f
177	1,	749:	DTE	749	59.302813	0.263462	01	c0	85	51	69
178	1,	754:	DTE	754	59.573038	0.261643	01	c0	85	57	63
179	1,	759:	DTE	759	59.845046	0.263598	01	c0	85	5d	5d
180	1,	764:	DTE	764	60.761192	0.907716	01	93	6c		
181											
182	1,	767:	DTE	767	64.595045	3.829819	01	c0	81	19	a5
183	1,	772:	DTE	772	65.790839	1.187375	01	c0	81	06	b8
184	1,	777:	DTE	777	66.123925	0.324665	01	c0	81	0c	b2
185											
186	1,	782:	DTE	782	66.479966	0.347620	01	c0	81	0c	b2
187	1,	787:	DTE	787	66.750984	0.262597	01	c0	85	06	b4
188	1,	792:	DTE	792	67.023014	0.263612	01	c0	81	0c	b2
189	1,	797:	DTE	797	67.294070	0.262637	01	c0	85	0c	ae
190	1,	802:	DTE	802	67.564944	0.262455	01	c0	81	12	ac
191	1,	807:	DTE	807	67.836140	0.262609	01	c0	85	0c	ae
192	1,	812:	DTE	812	68.107155	0.262596	01	c0	81	19	a5
193	1,	817:	DTE	817	68.378210	0.262727	01	c0	85	0c	ae
194	1,	822:	DTE	822	68.649239	0.262609	01	c0	81	19	a5
195	1,	827:	DTE	827	68.920332	0.262675	01	c0	85	12	a8
196	1,	832:	DTE	832	69.192323	0.263571	01	c0	81	1f	9f
197	1,	837:	DTE	837	69.463200	0.262457	01	c0	85	12	a8
198	1,	842:	DTE	842	69.734406	0.262787	01	c0	81	1f	9f
199	1,	847:	DTE	847	70.005436	0.262609	01	c0	85	19	a1
200	1,	852:	DTE	852	70.272452	0.258597	01	c0	81	25	99
201	1,	857:	DTE	857	70.543495	0.262621	01	c0	85	19	a1
202	1,	862:	DTE	862	70.814535	0.262620	01	c0	81	25	99
203	1,	867:	DTE	867	71.083598	0.260641	01	c0	85	1f	9b
204	1,	872:	DTE	872	71.352623	0.260603	01	c0	81	25	99
205	1,	877:	DTE	877	71.623639	0.262526	01	c0	85	25	95
206	1,	882:	DTE	882	71.894680	0.262621	01	c0	81	2b	93
207	1,	887:	DTE	887	72.165725	0.262626	01	c0	85	25	95
208	1,	892:	DTE	892	72.436802	0.262646	01	c0	81	2b	93
209	1,	897:	DTE	897	72.708782	0.263559	01	c0	85	1f	9b
210	1,	902:	DTE	902	72.978820	0.261619	01	c0	81	32	8c
211	1,	907:	DTE	907	73.250865	0.263625	01	c0	85	1f	9b
212	1,	912:	DTE	912	73.521918	0.262633	01	c0	81	32	8c
213	1,	917:	DTE	917	73.788925	0.258587	01	c0	85	25	95
214	1,	922:	DTE	922	74.059952	0.262607	01	c0	81	32	8c
215	1,	927:	DTE	927	74.331008	0.262633	01	c0	85	2b	8f
216	1,	932:	DTE	932	74.602075	0.262647	01	c0	81	32	8c
217	1,	937:	DTE	937	74.874431	0.263936	01	c0	85	32	88
218	1,	942:	DTE	942	75.144119	0.261266	01	c0	81	38	86
219	1,	947:	DTE	947	75.416231	0.263692	01	c0	85	32	88
220	1,	952:	DTE	952	75.687193	0.262609	01	c0	81	38	86
221	1,	957:	DTE	957	75.958248	0.262607	01	c0	85	38	82
222	1,	962:	DTE	962	76.229109	0.262446	01	c0	81	3e	80
223	1,	967:	DTE	967	76.496295	0.258599	01	c0	85	38	82
224	1,	972:	DTE	972	76.767334	0.262619	01	c0	81	3e	80
225	1,	977:	DTE	977	77.034381	0.258626	01	c0	85	3e	7c
226	1,	982:	DTE	982	77.305423	0.262623	01	c0	81	44	7a
227	1,	987:	DTE	987	77.572440	0.258598	01	c0	85	3e	7c
228	1,	992:	DTE	992	77.843494	0.262631	01	c0	81	44	7a
229	1,	997:	DTE	997	78.110511	0.258596	01	c0	85	44	76
230	1,	1002:	DTE	1002	78.381555	0.262621	01	c0	81	4b	73
231	1,	1007:	DTE	1007	78.652584	0.262609	01	c0	85	44	76
232	1,	1012:	DTE	1012	78.923623	0.262619	01	c0	81	51	6d
233	1,	1017:	DTE	1017	79.194678	0.262633	01	c0	85	44	76
234	1,	1022:	DTE	1022	79.464659	0.261560	01	c0	81	51	6d
235	1,	1027:	DTE	1027	79.736736	0.263786	01	c0	85	4b	6f
236	1,	1032:	DTE	1032	80.008795	0.263639	01	c0	81	57	67
237	1,	1037:	DTE	1037	80.279823	0.262609	01	c0	85	4b	6f
238	1,	1042:	DTE	1042	80.550850	0.262608	01	c0	81	5d	61
239	1,	1047:	DTE	1047	80.821893	0.262621	01	c0	85	4b	6f
240	1,	1052:	DTE	1052	81.092934	0.262620	01	c0	81	5d	61
241	1,	1057:	DTE	1057	81.363963	0.262608	01	c0	85	51	69
242	1,	1062:	DTE	1062	81.636006	0.263624	01	93	6c		
243											
244	1,	1065:	DTE	1065	81.891046	0.250838	01	c0	81	1f	9f

245	1,	1070:	DTE	1070	82.162114	0.262647	01	c0	81	06	b8
246	1,	1075:	DTE	1075	82.433104	0.262570	01	c0	81	0c	b2
247	1,	1080:	DTE	1080	82.704131	0.262608	01	c0	81	12	ac
248	1,	1085:	DTE	1085	82.975176	0.262624	01	c0	81	19	a5
249	1,	1090:	DTE	1090	83.247248	0.263655	01	c0	81	1f	9f
250	1,	1095:	DTE	1095	83.517257	0.261593	01	c0	81	25	99
251	1,	1100:	DTE	1100	83.788130	0.262452	01	c0	81	2b	93
252	1,	1105:	DTE	1105	84.060330	0.263611	01	c0	81	32	8c
253	1,	1110:	DTE	1110	84.331397	0.262617	01	c0	81	38	86
254	1,	1115:	DTE	1115	84.602426	0.262608	01	c0	81	3e	80
255	1,	1120:	DTE	1120	84.875447	0.264599	01	c0	81	44	7a
256	1,	1125:	DTE	1125	85.144468	0.260601	01	c0	81	4b	73
257	1,	1130:	DTE	1130	85.415499	0.262608	01	c0	81	51	6d
258	1,	1135:	DTE	1135	85.685538	0.261618	01	c0	81	57	67
259	1,	1140:	DTE	1140	85.956592	0.262634	01	c0	81	5d	61
260	1,	1145:	DTE	1145	86.229615	0.264601	01	93		6c	
261											
262	1,	1148:	DTE	1148	86.783727	0.549899	01	c0	81	25	99
263	1,	1153:	DTE	1153	87.054742	0.262584	01	c0	84	06	b5
264	1,	1158:	DTE	1158	87.325772	0.262607	01	c0	81	06	b8
265	1,	1163:	DTE	1163	87.597322	0.263129	01	c0	84	06	b5
266	1,	1168:	DTE	1168	87.867841	0.262098	01	c0	81	0c	b2
267	1,	1173:	DTE	1173	88.138898	0.262635	01	c0	84	06	b5
268	1,	1178:	DTE	1178	88.410915	0.263597	01	c0	81	0c	b2
269	1,	1183:	DTE	1183	88.681984	0.262647	01	c0	84	0c	af
270	1,	1188:	DTE	1188	88.952999	0.262597	01	c0	81	0c	b2
271	1,	1193:	DTE	1193	89.224040	0.262622	01	c0	84	12	a9
272	1,	1198:	DTE	1198	89.490918	0.258458	01	c0	81	12	ac
273	1,	1203:	DTE	1203	89.762087	0.262749	01	c0	84	12	a9
274	1,	1208:	DTE	1208	90.029116	0.258608	01	c0	81	12	ac
275	1,	1213:	DTE	1213	90.300186	0.262647	01	c0	84	19	a2
276	1,	1218:	DTE	1218	90.567204	0.258598	01	c0	81	19	a5
277	1,	1223:	DTE	1223	90.838161	0.262536	01	c0	84	19	a2
278	1,	1228:	DTE	1228	91.105276	0.258596	01	c0	81	19	a5
279	1,	1233:	DTE	1233	91.376319	0.262621	01	c0	84	1f	9c
280	1,	1238:	DTE	1238	91.647348	0.262608	01	c0	81	19	a5
281	1,	1243:	DTE	1243	91.918402	0.262632	01	c0	84	25	96
282	1,	1248:	DTE	1248	92.189468	0.262646	01	c0	81	1f	9f
283	1,	1253:	DTE	1253	92.460493	0.262603	01	c0	84	25	96
284	1,	1258:	DTE	1258	92.731489	0.262583	01	c0	81	1f	9f
285	1,	1263:	DTE	1263	93.003544	0.263635	01	c0	84	2b	90
286	1,	1268:	DTE	1268	93.274419	0.262621	01	c0	81	1f	9f
287	1,	1273:	DTE	1273	93.545602	0.262593	01	c0	84	32	89
288	1,	1278:	DTE	1278	93.816684	0.262661	01	c0	81	25	99
289	1,	1283:	DTE	1283	94.087684	0.262581	01	c0	84	32	89
290	1,	1288:	DTE	1288	94.358760	0.262666	01	c0	81	25	99
291	1,	1293:	DTE	1293	94.625758	0.258610	01	c0	84	38	83
292	1,	1298:	DTE	1298	94.896826	0.262646	01	c0	81	2b	93
293	1,	1303:	DTE	1303	95.163843	0.258596	01	c0	84	38	83
294	1,	1308:	DTE	1308	95.434774	0.262509	01	c0	81	2b	93
295	1,	1313:	DTE	1313	95.705901	0.262569	01	c0	84	3e	7d
296	1,	1318:	DTE	1318	95.976944	0.262623	01	c0	81	32	8c
297	1,	1323:	DTE	1323	96.247984	0.262621	01	c0	84	3e	7d
298	1,	1328:	DTE	1328	96.518012	0.261607	01	c0	81	32	8c
299	1,	1333:	DTE	1333	96.790068	0.263727	01	c0	84	44	77
300	1,	1338:	DTE	1338	97.062086	0.263597	01	c0	81	38	86
301	1,	1343:	DTE	1343	97.333165	0.262658	01	c0	84	44	77
302	1,	1348:	DTE	1348	97.608013	0.266424	01	c0	81	38	86
303	1,	1353:	DTE	1353	97.879261	0.262660	01	c0	84	4b	70
304	1,	1358:	DTE	1358	98.146238	0.258557	01	c0	81	38	86
305	1,	1363:	DTE	1363	98.417281	0.262622	01	c0	84	51	6a
306	1,	1368:	DTE	1368	98.689324	0.263622	01	c0	81	3e	80
307	1,	1373:	DTE	1373	98.958336	0.260603	01	c0	84	51	6a
308	1,	1378:	DTE	1378	99.231396	0.264801	01	c0	81	3e	80
309	1,	1383:	DTE	1383	99.502248	0.262432	01	c0	84	57	64
310	1,	1388:	DTE	1388	99.773454	0.262788	01	c0	81	44	7a
311	1,	1393:	DTE	1393	100.044495	0.262621	01	c0	84	57	64
312	1,	1398:	DTE	1398	100.315564	0.262648	01	c0	81	44	7a
313	1,	1403:	DTE	1403	100.586578	0.262594	01	c0	84	5d	5e
314	1,	1408:	DTE	1408	100.858623	0.263624	01	c0	81	4b	73
315	1,	1413:	DTE	1413	101.129636	0.262594	01	c0	84	5d	5e
316	1,	1418:	DTE	1418	101.400666	0.262607	01	93		6c	

```

317
318 1, 1421: DTE 1421 101.655732 0.250850 01 c0 81 06 b8
319
320 1, 1426: DTE 1426 101.926749 0.262597 01 c0 84 06 b5
321 1, 1431: DTE 1431 102.197790 0.262621 01 c0 84 0c af
322 1, 1436: DTE 1436 102.468818 0.262608 01 c0 84 12 a9
323 1, 1441: DTE 1441 102.739860 0.262621 01 c0 84 19 a2
324 1, 1446: DTE 1446 103.010901 0.262621 01 c0 84 1f 9c
325 1, 1451: DTE 1451 103.282931 0.263609 01 c0 84 25 96
326 1, 1456: DTE 1456 103.553987 0.262633 01 c0 84 2b 90
327 1, 1461: DTE 1461 103.825002 0.262594 01 c0 84 32 89
328 1, 1466: DTE 1466 104.096030 0.262606 01 c0 84 38 83
329 1, 1471: DTE 1471 104.367098 0.262648 01 c0 84 3e 7d
330 1, 1476: DTE 1476 104.638008 0.262490 01 c0 84 44 77
331 1, 1481: DTE 1481 104.910171 0.263636 01 c0 84 4b 70
332 1, 1486: DTE 1486 105.180183 0.261758 01 c0 84 51 6a
333 1, 1491: DTE 1491 105.452242 0.263628 01 c0 84 57 64
334 1, 1496: DTE 1496 105.723259 0.262596 01 c0 84 5d 5e
335 1, 1501: DTE 1501 105.994324 0.262645 01 93 6c
336
337 1, 1504: DTE 1504 109.431773 3.433246 01 8a 75
338 1, 1507: DTE 1507 111.707085 2.271264 01 93 6c
339
340 1, 1510: DTE 1510 114.089403 2.378102 01 8b 74
341 1, 1513: DTE 1513 116.307748 2.214130 01 93 6c
342
343 1, 1516: DTE 1516 120.216239 3.904288 01 90 6f
344 1, 1519: DTE 1519 122.401539 2.181126 01 92 6d
345
346 1, 1522: DTE 1522 124.352789 1.947050 01 91 6e
347 1, 1525: DTE 1525 126.829466 2.472462 01 92 6d
348
349 1, 1528: DTE 1528 129.886551 3.052882 01 88 77
350 1, 1531: DTE 1531 132.152839 2.262086 01 89 76
351
352 1, 1534: DTE 1534 134.501195 2.344142 01 87 78
353 1, 1537: DTE 1537 136.806472 2.301084 01 89 76
354
355 1, 1540: DTE 1540 143.301369 6.490682 01 c7 02 01 35
356 1, 1545: DTE 1545 149.328164 6.018346 01 c7 01 01 36
357
358 1, 1550: DTE 1550 158.116367 8.779794 01 c7 02 5f d7
359 1, 1555: DTE 1555 162.869010 4.744212 01 c7 01 5f d8
360
361 There were a total of 1559 bytes transferred
362
363 There were a total of 0 DCE bytes transferred
364 The first DCE byte came in at 0.000000 seconds from the start of data collection
365 The last DCE byte was at 0.000000 seconds from the start of data collection
366
367 There were a total of 1559 DTE bytes transferred
368 The first DTE byte came in at 0.000000 seconds from the start of data collection
369 The last DTE byte was at 162.877431 seconds from the start of data collection
370

```

3.34 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?

3.34.1 29may07e.out

```

1  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2  $Header: d:/1stLooks/Combined/RCS/29MAY07E.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

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³⁶\$Header: d:/1stLooks/Combined/RCS/Ultrack.inc,v 1.2 2007-12-31 08:22:15-08 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

```


3.35 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

3.35.1 29may07f.out

```

1  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2  $Header: d:/1stLooks/Combined/RCS/29MAY07F.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
37 $Header: d:/1stLooks/Combined/RCS/Vantage.inc,v 1.2 2007-12-31 08:22:16-08 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

```

3.36 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

3.36.1 29may07g.out

```

1 $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2 $Header: d:/1stLooks/Combined/RCS/29MAY07G.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

```

³⁸\$Header: d:/1stLooks/Combined/RCS/VCL.inc,v 1.2 2007-12-31 08:22:16-08 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

3.37 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.

³⁹\$Header: d:/1stLooks/Combined/RCS/VCLMatrix.inc,v 1.2 2007-12-31 08:22:16-08 Hamilton Exp Hamilton \$

3.38 Vicon Surveyor

This data was collected from a an Integral Technologies, DS XPress DVR on 19DEC07.

1. Baud: **4800**
2. Hello Message: **No**
3. Minimum Camera Address: **1**
4. Maximum Camera Address: **255**
5. Minimum Preset Number: **1**
6. Maximum Preset Number: **10**
7. Do we have an “official” protocol document? **Yes**
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: _____.

3.38.1 19DEC07I.out

```

1  Integral Technologies DS XPress DVR
2  DTE = From the DVR
3  DCE = nothing, no dome was attached
4  4800 baud
5  No parity
6  Vicon Surveyor
7
8
9  $ Id: MakeSecs.l,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
10 $Header: d:/1stLooks/Combined/RCS/19DEC07I.out,v 1.2 2007-12-19 12:35:31-08 Hamilton Exp Hamilton $
11 FTS capture buffer (12/19/2007 7:39:35 AM)
12 Event 1 (12/19/2007 7:36:46.280624 AM) through
13 Event 2,062 (12/19/2007 7:39:12.253359 AM)
14
15
16      1,      1: DTE      1      0.000000      0.000000 80 51 50 00 00 00 00 40 00 00
17      1,     11: DTE     11      0.169034      0.150094 80 51 10 00 00 00 00 00 00 00
18
19      1,     21: DTE     21      0.542084      0.354094 80 51 10 00 00 00 00 00 00 40
20      1,     31: DTE     31      0.980117      0.419080 80 51 10 00 00 00 00 00 01 00
21      1,     41: DTE     41      1.546224      0.547152 80 51 10 00 00 00 00 00 02 00
22      1,     51: DTE     51      1.877239      0.312075 80 51 10 00 00 00 00 00 02 00
23      1,     61: DTE     61      2.968424      1.072231 80 51 10 00 00 00 00 00 02 40
24      1,     71: DTE     71      3.908568      0.921202 80 51 10 00 00 00 00 00 03 00
25      1,     81: DTE     81      4.864647      0.937125 80 51 10 00 00 00 00 00 04 00
26      1,     91: DTE     91      5.035689      0.152086 80 51 10 00 00 00 00 00 04 00
27      1,    101: DTE    101      5.610755      0.556123 80 51 10 00 00 00 00 00 04 40
28      1,    111: DTE    111      6.147825      0.518129 80 51 10 00 00 00 00 00 05 00

```

⁴⁰\$Header: d:/1stLooks/Combined/RCS/DSXvic.inc,v 1.2 2007-12-31 09:06:37-08 Hamilton Exp Hamilton \$

29	1,	121:	DTE	121	6.435859	0.269079	80	51	10	00	00	00	00	00	06	00
30	1,	131:	DTE	131	6.949947	0.495134	80	51	10	00	00	00	00	00	06	00
31	1,	141:	DTE	141	7.344999	0.376097	80	51	10	00	00	00	00	00	06	40
32	1,	151:	DTE	151	7.684061	0.320120	80	51	10	00	00	00	00	00	07	00
33	1,	161:	DTE	161	8.917213	1.214197	80	51	01	00	00	00	00	00	00	00
34																
35	1,	171:	DTE	171	13.317800	4.381645	80	51	10	00	00	00	00	00	00	00
36																
37	1,	181:	DTE	181	13.866885	0.530131	80	51	10	00	00	00	00	00	00	40
38	1,	191:	DTE	191	14.774037	0.888208	80	51	10	00	00	00	00	00	01	00
39	1,	201:	DTE	201	15.062056	0.269066	80	51	10	00	00	00	00	00	02	00
40	1,	211:	DTE	211	15.244062	0.163050	80	51	30	00	00	00	00	00	02	00
41	1,	221:	DTE	221	15.639127	0.376124	80	51	30	00	00	00	00	00	40	02
42	1,	231:	DTE	231	15.913151	0.255070	80	51	30	00	00	00	00	00	40	02
43	1,	241:	DTE	241	16.685247	0.753141	80	51	30	00	00	00	01	00	02	00
44	1,	251:	DTE	251	16.888293	0.184092	80	51	30	00	00	00	01	00	02	40
45	1,	261:	DTE	261	17.056326	0.149091	80	51	30	00	00	00	02	00	02	40
46	1,	271:	DTE	271	17.225323	0.150040	80	51	30	00	00	00	02	00	02	40
47	1,	281:	DTE	281	17.556379	0.312100	80	51	30	00	00	00	02	00	03	00
48	1,	291:	DTE	291	17.724400	0.149066	80	51	30	00	00	00	02	00	04	00
49	1,	301:	DTE	301	17.893436	0.150081	80	51	30	00	00	00	02	40	04	00
50	1,	311:	DTE	311	18.062445	0.150054	80	51	30	00	00	00	02	40	04	00
51	1,	321:	DTE	321	18.230479	0.149091	80	51	30	00	00	00	02	40	04	40
52	1,	331:	DTE	331	18.399503	0.150068	80	51	30	00	00	00	03	00	04	40
53	1,	341:	DTE	341	18.773540	0.355094	80	51	30	00	00	00	04	00	04	40
54	1,	351:	DTE	351	18.946563	0.154069	80	51	30	00	00	00	04	00	05	00
55	1,	361:	DTE	361	19.114444	0.148928	80	51	30	00	00	00	04	00	06	00
56	1,	371:	DTE	371	19.338619	0.205069	80	51	30	00	00	00	04	00	06	00
57	1,	381:	DTE	381	19.656653	0.299079	80	51	30	00	00	00	04	40	06	00
58	1,	391:	DTE	391	19.825535	0.149927	80	51	30	00	00	00	04	40	06	00
59	1,	401:	DTE	401	19.994737	0.150079	80	51	30	00	00	00	04	40	06	40
60	1,	411:	DTE	411	20.333775	0.320083	80	51	30	00	00	00	05	00	06	40
61	1,	421:	DTE	421	20.642798	0.290081	80	51	30	00	00	00	05	00	07	00
62	1,	431:	DTE	431	20.811822	0.150068	80	51	30	00	00	00	06	00	07	00
63	1,	441:	DTE	441	21.475920	0.645143	80	51	01	00	00	00	00	00	00	00
64																
65	1,	451:	DTE	451	25.996536	4.501671	80	11	00	20	00	00				
66																
67	1,	457:	DTE	457	26.759608	0.752544	80	51	20	00	00	00	00	00	00	00
68																
69	1,	467:	DTE	467	27.636700	0.858137	80	51	20	00	00	00	00	40	00	00
70	1,	477:	DTE	477	28.288827	0.633142	80	51	20	00	00	00	01	00	00	00
71	1,	487:	DTE	487	29.058752	0.751092	80	51	20	00	00	00	02	00	00	00
72	1,	497:	DTE	497	29.809036	0.731164	80	51	20	00	00	00	02	00	00	00
73	1,	507:	DTE	507	31.493254	1.665264	80	51	20	00	00	00	02	40	00	00
74	1,	517:	DTE	517	32.477230	0.965011	80	51	20	00	00	00	03	00	00	00
75	1,	527:	DTE	527	32.851443	0.355106	80	51	20	00	00	00	04	00	00	00
76	1,	537:	DTE	537	33.041535	0.171137	80	51	20	00	00	00	04	00	00	00
77	1,	547:	DTE	547	33.209516	0.149039	80	51	20	00	00	00	04	40	00	00
78	1,	557:	DTE	557	33.378487	0.150029	80	51	20	00	00	00	05	00	00	00
79	1,	567:	DTE	567	33.914634	0.517190	80	51	20	00	00	00	06	00	00	00
80	1,	577:	DTE	577	34.083631	0.150034	80	51	20	00	00	00	06	00	00	00
81	1,	587:	DTE	587	34.251640	0.149054	80	51	20	00	00	00	06	40	00	00
82	1,	597:	DTE	597	34.424645	0.154051	80	51	20	00	00	00	07	00	00	00
83	1,	607:	DTE	607	34.811719	0.368117	80	51	01	00	00	00	00	00	00	00
84																
85	1,	617:	DTE	617	37.432083	2.601411	80	11	00	20	00	00				
86																
87	1,	623:	DTE	623	38.203009	0.760397	80	51	20	00	00	00	00	00	00	00
88																
89	1,	633:	DTE	633	38.371210	0.149259	80	51	28	00	00	00	00	00	00	00
90																
91	1,	643:	DTE	643	38.732264	0.342100	80	51	28	00	00	00	00	00	00	40
92	1,	653:	DTE	653	39.127344	0.376138	80	51	28	00	00	00	00	00	01	00
93	1,	663:	DTE	663	39.298333	0.152037	80	51	28	00	00	00	00	40	01	00
94	1,	673:	DTE	673	39.468357	0.151082	80	51	28	00	00	00	00	40	02	00
95	1,	683:	DTE	683	39.637369	0.150235	80	51	28	00	00	00	01	00	02	00
96	1,	693:	DTE	693	39.806391	0.150067	80	51	28	00	00	00	01	00	02	00
97	1,	703:	DTE	703	40.201444	0.376097	80	51	28	00	00	00	02	00	02	00
98	1,	713:	DTE	713	40.480494	0.260095	80	51	28	00	00	00	02	00	02	40
99	1,	723:	DTE	723	40.649544	0.150261	80	51	28	00	00	00	02	00	02	40
100	1,	733:	DTE	733	40.818540	0.150057	80	51	28	00	00	00	02	00	03	00

101	1,	743:	DTE	743	41.213580	0.376096	80	51	28	00	00	00	02	00	04	00
102	1,	753:	DTE	753	41.381614	0.149081	80	51	28	00	00	00	02	40	04	00
103	1,	763:	DTE	763	41.550623	0.150054	80	51	28	00	00	00	02	40	04	00
104	1,	773:	DTE	773	41.717642	0.148063	80	51	28	00	00	00	02	40	04	40
105	1,	783:	DTE	783	41.998683	0.262087	80	51	28	00	00	00	03	00	04	40
106	1,	793:	DTE	793	42.564804	0.547111	80	51	28	00	00	00	04	00	05	00
107	1,	803:	DTE	803	42.852839	0.269081	80	51	28	00	00	00	04	00	06	00
108	1,	813:	DTE	813	43.217850	0.346069	80	51	28	00	00	00	04	00	06	00
109	1,	823:	DTE	823	43.386886	0.150081	80	51	28	00	00	00	04	00	06	40
110	1,	833:	DTE	833	43.554895	0.149053	80	51	28	00	00	00	04	00	06	40
111	1,	843:	DTE	843	43.723930	0.150081	80	51	28	00	00	00	04	00	07	00
112	1,	853:	DTE	853	43.998972	0.256150	80	51	01	00	00	00	00	00	00	00
113																
114	1,	863:	DTE	863	47.123371	3.105446	80	51	40	00	00	00	00	00	00	00
115																
116	1,	873:	DTE	873	48.261550	1.119225	80	51	08	00	00	00	00	00	00	00
117																
118	1,	883:	DTE	883	48.494569	0.214066	80	51	08	00	00	00	00	00	00	40
119	1,	893:	DTE	893	49.534711	1.021188	80	51	08	00	00	00	00	00	01	00
120	1,	903:	DTE	903	50.070768	0.517101	80	51	08	00	00	00	00	00	02	00
121	1,	913:	DTE	913	50.520832	0.431110	80	51	08	00	00	00	00	00	02	00
122	1,	923:	DTE	923	50.688907	0.149276	80	51	08	00	00	00	00	00	02	40
123	1,	933:	DTE	933	51.288949	0.581091	80	51	08	00	00	00	00	00	03	00
124	1,	943:	DTE	943	51.457993	0.150107	80	51	08	00	00	00	00	00	04	00
125	1,	953:	DTE	953	51.759023	0.282076	80	51	08	00	00	00	00	00	04	00
126	1,	963:	DTE	963	52.239439	0.461476	80	51	08	00	00	00	00	00	04	40
127	1,	973:	DTE	973	52.741158	0.482764	80	51	08	00	00	00	00	00	05	00
128	1,	983:	DTE	983	53.179243	0.419131	80	51	08	00	00	00	00	00	06	00
129	1,	993:	DTE	993	53.574090	0.375891	80	51	08	00	00	00	00	00	06	00
130	1,	1003:	DTE	1003	53.939295	0.346084	80	51	08	00	00	00	00	00	06	40
131	1,	1013:	DTE	1013	54.120325	0.162240	80	51	08	00	00	00	00	00	07	00
132	1,	1023:	DTE	1023	54.882448	0.743169	80	51	01	00	00	00	00	00	00	00
133																
134	1,	1033:	DTE	1033	58.190887	3.289499	80	51	40	00	00	00	02	00	00	00
135	1,	1043:	DTE	1043	58.521760	0.311921	80	51	40	00	00	00	00	00	00	00
136																
137	1,	1053:	DTE	1053	59.497070	0.956191	80	51	48	00	00	00	00	00	00	00
138																
139	1,	1063:	DTE	1063	59.666080	0.150236	80	51	48	00	00	00	00	00	40	00
140	1,	1073:	DTE	1073	59.835116	0.150083	80	51	48	00	00	00	01	00	00	00
141	1,	1083:	DTE	1083	60.102133	0.248077	80	51	48	00	00	00	01	00	00	40
142	1,	1093:	DTE	1093	60.369178	0.248182	80	51	48	00	00	00	01	00	01	00
143	1,	1103:	DTE	1103	60.537200	0.149043	80	51	48	00	00	00	02	00	01	00
144	1,	1113:	DTE	1113	60.706233	0.150093	80	51	48	00	00	00	02	00	02	00
145	1,	1123:	DTE	1123	61.156285	0.431109	80	51	48	00	00	00	02	00	02	00
146	1,	1133:	DTE	1133	61.325145	0.149903	80	51	48	00	00	00	02	00	02	00
147	1,	1143:	DTE	1143	61.515348	0.171096	80	51	48	00	00	00	02	40	02	00
148	1,	1153:	DTE	1153	61.683361	0.149083	80	51	48	00	00	00	02	40	02	40
149	1,	1163:	DTE	1163	61.852382	0.150069	80	51	48	00	00	00	02	40	03	00
150	1,	1173:	DTE	1173	62.021455	0.150119	80	51	48	00	00	00	03	00	03	00
151	1,	1183:	DTE	1183	62.189450	0.149040	80	51	48	00	00	00	03	00	04	00
152	1,	1193:	DTE	1193	62.614507	0.406101	80	51	48	00	00	00	03	00	04	00
153	1,	1203:	DTE	1203	62.783514	0.150069	80	51	48	00	00	00	04	00	04	00
154	1,	1213:	DTE	1213	62.950597	0.148140	80	51	48	00	00	00	04	00	04	40
155	1,	1223:	DTE	1223	63.120544	0.150991	80	51	48	00	00	00	04	00	04	40
156	1,	1233:	DTE	1233	63.289581	0.150081	80	51	48	00	00	00	04	00	05	00
157	1,	1243:	DTE	1243	63.457588	0.149232	80	51	48	00	00	00	04	00	06	00
158	1,	1253:	DTE	1253	63.626600	0.150056	80	51	48	00	00	00	04	40	06	00
159	1,	1263:	DTE	1263	63.794690	0.149136	80	51	48	00	00	00	04	40	06	00
160	1,	1273:	DTE	1273	63.963656	0.150015	80	51	48	00	00	00	05	00	06	00
161	1,	1283:	DTE	1283	64.132680	0.150068	80	51	48	00	00	00	05	00	06	40
162	1,	1293:	DTE	1293	64.300701	0.149065	80	51	48	00	00	00	05	00	07	00
163	1,	1303:	DTE	1303	64.469664	0.150176	80	51	48	00	00	00	06	40	07	00
164	1,	1313:	DTE	1313	64.638760	0.150068	80	51	01	00	00	00	00	00	00	00
165																
166	1,	1323:	DTE	1323	66.712044	2.054495	80	51	40	00	00	00	02	00	00	00
167	1,	1333:	DTE	1333	66.936079	0.205082	80	51	40	00	00	00	00	00	00	00
168																
169	1,	1343:	DTE	1343	67.480141	0.525107	80	51	40	00	00	00	00	40	00	00
170	1,	1353:	DTE	1353	68.144243	0.645146	80	51	40	00	00	00	01	00	00	00
171	1,	1363:	DTE	1363	68.723318	0.560120	80	51	40	00	00	00	02	00	00	00
172	1,	1373:	DTE	1373	69.344451	0.602178	80	51	40	00	00	00	02	00	00	00

173	1,	1383:	DTE	1383	70.051496	0.688155	80	51	40	00	00	00	02	40	00	00
174	1,	1393:	DTE	1393	70.416536	0.346086	80	51	40	00	00	00	03	00	00	00
175	1,	1403:	DTE	1403	70.585559	0.150070	80	51	40	00	00	00	04	00	00	00
176	1,	1413:	DTE	1413	70.992641	0.388128	80	51	40	00	00	00	04	00	00	00
177	1,	1423:	DTE	1423	71.473656	0.462060	80	51	40	00	00	00	04	40	00	00
178	1,	1433:	DTE	1433	72.759868	1.267257	80	51	40	00	00	00	05	00	00	00
179	1,	1443:	DTE	1443	73.047914	0.269104	80	51	40	00	00	00	06	00	00	00
180	1,	1453:	DTE	1453	73.486965	0.420109	80	51	40	00	00	00	06	00	00	00
181	1,	1463:	DTE	1463	74.271078	0.765173	80	51	40	00	00	00	06	40	00	00
182	1,	1473:	DTE	1473	74.721119	0.431099	80	51	40	00	00	00	07	00	00	00
183	1,	1483:	DTE	1483	75.441211	0.701138	80	51	01	00	00	00	00	00	00	00
184																
185	1,	1493:	DTE	1493	80.238879	4.778717	80	51	50	00	00	00	03	00	00	00
186	1,	1503:	DTE	1503	80.527926	0.270093	80	51	50	00	00	00	01	00	00	00
187	1,	1513:	DTE	1513	80.793945	0.247243	80	51	50	00	00	00	01	00	00	40
188	1,	1523:	DTE	1523	80.963031	0.150133	80	51	50	00	00	00	02	00	00	40
189	1,	1533:	DTE	1533	81.132029	0.150044	80	51	50	00	00	00	02	00	01	00
190	1,	1543:	DTE	1543	81.612057	0.461087	80	51	50	00	00	00	02	00	01	00
191	1,	1553:	DTE	1553	82.007120	0.376125	80	51	50	00	00	00	02	00	02	00
192	1,	1563:	DTE	1563	82.176156	0.150081	80	51	50	00	00	00	02	40	02	00
193	1,	1573:	DTE	1573	82.344243	0.149123	80	51	50	00	00	00	02	40	02	00
194	1,	1583:	DTE	1583	82.533161	0.169964	80	51	50	00	00	00	03	00	02	00
195	1,	1593:	DTE	1593	82.703253	0.151304	80	51	50	00	00	00	03	00	02	40
196	1,	1603:	DTE	1603	82.871246	0.149038	80	51	50	00	00	00	03	00	03	00
197	1,	1613:	DTE	1613	83.040258	0.150069	80	51	50	00	00	00	04	00	03	00
198	1,	1623:	DTE	1623	83.209268	0.150056	80	51	50	00	00	00	04	00	04	00
199	1,	1633:	DTE	1633	83.484320	0.256097	80	51	50	00	00	00	04	00	04	00
200	1,	1643:	DTE	1643	83.653344	0.150070	80	51	50	00	00	00	04	00	04	00
201	1,	1653:	DTE	1653	83.821365	0.149067	80	51	50	00	00	00	04	00	04	40
202	1,	1663:	DTE	1663	83.990387	0.150068	80	51	50	00	00	00	04	00	05	00
203	1,	1673:	DTE	1673	84.159396	0.150067	80	51	50	00	00	00	04	40	05	00
204	1,	1683:	DTE	1683	84.327418	0.149065	80	51	50	00	00	00	04	40	06	00
205	1,	1693:	DTE	1693	84.808501	0.462140	80	51	50	00	00	00	05	00	06	00
206	1,	1703:	DTE	1703	84.976507	0.149053	80	51	50	00	00	00	05	00	06	00
207	1,	1713:	DTE	1713	85.145517	0.150055	80	51	50	00	00	00	05	00	06	40
208	1,	1723:	DTE	1723	85.314631	0.150158	80	51	50	00	00	00	06	00	06	40
209	1,	1733:	DTE	1733	85.482588	0.149013	80	51	50	00	00	00	06	00	07	00
210	1,	1743:	DTE	1743	85.779623	0.278079	80	51	50	00	00	00	06	00	07	00
211	1,	1753:	DTE	1753	86.763761	0.965186	80	51	01	00	00	00	00	00	00	00
212																
213	1,	1763:	DTE	1763	92.189512	5.406811	80	51	50	00	00	00	01	00	00	00
214	1,	1773:	DTE	1773	92.391533	0.183075	80	51	10	00	00	00	00	00	00	00
215																
216	1,	1783:	DTE	1783	92.894608	0.484258	80	51	10	00	00	00	00	00	00	40
217	1,	1793:	DTE	1793	93.592666	0.679106	80	51	10	00	00	00	00	00	01	00
218	1,	1803:	DTE	1803	94.114762	0.503190	80	51	10	00	00	00	00	00	02	00
219	1,	1813:	DTE	1813	94.489827	0.356109	80	51	10	00	00	00	00	00	02	00
220	1,	1823:	DTE	1823	95.904875	1.396094	80	51	10	00	00	00	00	00	02	40
221	1,	1833:	DTE	1833	96.074030	0.150091	80	51	10	00	00	00	00	00	03	00
222	1,	1843:	DTE	1843	96.354060	0.261073	80	51	10	00	00	00	00	00	04	00
223	1,	1853:	DTE	1853	96.847144	0.474131	80	51	10	00	00	00	00	00	04	00
224	1,	1863:	DTE	1863	97.016141	0.150033	80	51	10	00	00	00	00	00	04	40
225	1,	1873:	DTE	1873	97.184175	0.149078	80	51	10	00	00	00	00	00	05	00
226	1,	1883:	DTE	1883	97.579075	0.375945	80	51	10	00	00	00	00	00	06	00
227	1,	1893:	DTE	1893	97.748250	0.150066	80	51	10	00	00	00	00	00	06	00
228	1,	1903:	DTE	1903	97.972287	0.205083	80	51	10	00	00	00	00	00	06	40
229	1,	1913:	DTE	1913	98.422327	0.431084	80	51	10	00	00	00	00	00	07	00
230	1,	1923:	DTE	1923	99.441468	1.000186	80	51	01	00	00	00	00	00	00	00
231																
232	1,	1933:	DTE	1933	103.325845	3.865422	80	11	00	20	00	00				
233	1,	1939:	DTE	1939	104.861207	1.524679	80	11	01	00	00	00	00	00		
234																
235	1,	1947:	DTE	1947	106.503435	1.627491	80	11	00	40	00	00				
236	1,	1953:	DTE	1953	108.435687	1.921724	80	11	01	00	00	00	00	00		
237																
238	1,	1961:	DTE	1961	110.999047	2.548625	80	51	30	00	00	00	07	00	04	00
239	1,	1971:	DTE	1971	113.134331	2.116332	80	51	01	00	00	00	00	00	00	00
240																
241	1,	1981:	DTE	1981	114.562535	1.409250	80	11	00	02	00	00				
242	1,	1987:	DTE	1987	116.558784	1.985733	80	11	01	00	00	00	00	00		
243																
244	1,	1995:	DTE	1995	119.329189	2.755669	80	11	00	10	00	00				

```
245      1,      2001: DTE      2001      121.142430      1.802714 80 11 01 00 00 00 00 00
246
247      1,      2009: DTE      2009      123.159694      2.002530 80 11 00 08 00 00
248      1,      2015: DTE      2015      124.831973      1.661749 80 11 01 00 00 00 00 00
249
250      1,      2023: DTE      2023      129.907611      5.060850 80 51 00 00 00 00 10 01 00 00
251      1,      2033: DTE      2033      134.975280      5.048715 80 51 00 00 00 00 11 01 00 00
252
253      1,      2043: DTE      2043      141.495187      6.500954 80 51 00 00 00 00 10 10 00 00
254      1,      2053: DTE      2053      145.953781      4.439639 80 51 00 00 00 00 11 10 00 00
255
256 There were a total of      2062 bytes transferred
257
258 There were a total of      0 DCE bytes transferred
259 The first DCE byte came in at 0.000000 seconds from the start of data collection
260 The last DCE byte was at 0.000000 seconds from the start of data collection
261
262 There were a total of      2062 DTE bytes transferred
263 The first DTE byte came in at 0.000000 seconds from the start of data collection
264 The last DTE byte was at 145.972735 seconds from the start of data collection
265
```


3.39 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?

3.39.1 29may07h.out

```

1  $ Id: MakeSecs.1,v 1.9 2007-03-29 08:42:09-08 Hamilton Exp Hamilton $
2  $Header: d:/1stLooks/Combined/RCS/29MAY07H.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 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

```

⁴¹\$Header: d:/1stLooks/Combined/RCS/Vista.inc,v 1.2 2007-12-31 08:22:16-08 Hamilton Exp Hamilton \$

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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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