

Analysis of a SecuriTEST PRO

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¹\$Header: d:/Binder7/SecuriTEST/RCS/ST.tex,v 1.3 2009-05-08 07:57:27-07 Hamilton Exp Hamilton \$

⁴tocdepth = 4

1 The SecuriTEST PRO

The unit used for testing was borrowed for the test. At one point it “locked up” and had to be returned to the manufacturer to “unlock”. When it was returned the front of it was scanned in and the following Revision numbers were copied out:

1. Product Ver 1.0
2. Firmware Ver 2.01



SecuriTe

05/08/2009 07:37 AM

Figure 1: Ideal SecuriTEST PRO 33-892

⁵\$Header: d:/Binder7/SecuriTEST/RCS/part0.inc,v 1.1 2009-05-08 07:53:55-07 Hamilton Exp Hamilton \$

2 Data/Scope pictures of the SecuriTEST PRO and an Esprit with D Protoco

Note

1. These pictures were taken using a SecuriTEST PRO and an Esprit IOC running rev 3.85 software with a 35X camera installed.
2. The command sent is a “Wide” (Tele Wide) command, held down as short a time as practicable.
3. There are some “extra” transmissions at the start of the captures and that the last “stop” command has an overlap of something else that the SecuriTEST PRO generated.
4. Each time the Wide button is depressed, the exact timing and quantity of data produced is different. These results should be considered to be “typical” values.

2.1 ASCII data capture

This is an ASCII data caputre of the same data shown in the following pictures. (A more extensive version without pictures is in Section 3, page 20.)

```

1 # $ Header: d:/Binder0/RCS/MsQ.1,v 1.1 2008-09-12 14:26:31-07 Hamilton Exp Hamilton $
2 # $Header: d:/Binder7/SecuriTEST/RCS/09APR27b.out,v 1.1 2009-04-27 10:15:27-07 Hamilton Exp Hamilton $
3 # Mon Apr 27 07:46:36 2009
4
5 # FTS capture buffer (4/27/2009 7:33:11 AM)
6 # Event 1 (4/27/2009 7:32:44.679132 AM) through
7 # Event 58 (4/27/2009 7:32:45.397968 AM)
8
9
10 1,      1: DTE      1      0.000000  0.000000 00
11 1,      2: DTE      2      0.004162  0.004162 ff
12 1,      3: DTE      3      0.008329  0.004167 01
13 1,      4: DTE      4      0.012495  0.004166 00
14 1,      5: DTE      5      0.016663  0.004168 40
15 1,      6: DTE      6      0.020828  0.004165 3b
16 1,      7: DTE      7      0.024996  0.004168 3b
17 1,      8: DTE      8      0.029161  0.004165 b7
18 1,      9: DTE      9      0.033329  0.004168 00
19
20 2,      1: DCE     10      0.034678  0.001349 ff
21 2,      2: DCE     11      0.038835  0.004157 01
22 2,      3: DCE     12      0.043003  0.004168 00
23 2,      4: DCE     13      0.047167  0.004164 b7
24
25 2,      10: DTE     14      0.061533  0.004164 00
26 2,      11: DTE     15      0.065699  0.004166 7f
27 2,      12: DTE     16      0.069866  0.004167 91
28 2,      13: DTE     17      0.099190  0.029324 c0
29 2,      14: DTE     18      0.208305  0.109115 00
30 2,      15: DTE     19      0.212470  0.004165 ff
31 2,      16: DTE     20      0.216638  0.004168 01
32 2,      17: DTE     21      0.220803  0.004165 00
33 2,      18: DTE     22      0.224980  0.004177 00
34 2,      19: DTE     23      0.229136  0.004156 00
35 2,      20: DTE     24      0.233303  0.004167 00
36 2,      21: DTE     25      0.237470  0.004167 01
37 2,      22: DTE     26      0.241635  0.004165 00
38
39 3,      5: DCE     27      0.243416  0.001781 ff
40 3,      6: DCE     28      0.247585  0.004169 01
41 3,      7: DCE     29      0.251750  0.004165 00
42 3,      8: DCE     30      0.255917  0.004167 01

```

⁶\$Header: d:/Binder7/SecuriTEST/RCS/Part1.inc,v 1.3 2009-05-08 07:57:27-07 Hamilton Exp Hamilton \$

4 2 DATA/SCOPE PICTURES OF THE SECURITEST PRO AND AN ESPRIT WITH D PROTOCO

```

43
44      3,      23: DTE   31      0.438489  0.004167 00
45      3,      24: DTE   32      0.442651  0.004162 ff
46      3,      25: DTE   33      0.446819  0.004168 01
47      3,      26: DTE   34      0.450985  0.004166 00
48      3,      27: DTE   35      0.455164  0.004179 00
49      3,      28: DTE   36      0.459318  0.004154 00
50      3,      29: DTE   37      0.463459  0.004141 00
51      3,      30: DTE   38      0.467626  0.004167 01
52      3,      31: DTE   39      0.471792  0.004166 00
53
54      4,       9: DCE   40      0.476335  0.004543 ff
55      4,      10: DCE   41      0.480500  0.004165 01
56      4,      11: DCE   42      0.484667  0.004167 00
57      4,      12: DCE   43      0.488834  0.004167 01
58
59      4,      32: DTE   44      0.668621  0.004167 00
60      4,      33: DTE   45      0.672756  0.004135 ff
61      4,      34: DTE   46      0.676924  0.004168 01
62      4,      35: DTE   47      0.681089  0.004165 00
63      4,      36: DTE   48      0.685255  0.004166 00
64      4,      37: DTE   49      0.689423  0.004168 00
65      4,      38: DTE   50      0.693590  0.004167 00
66      4,      39: DTE   51      0.697757  0.004167 01
67      4,      40: DTE   52      0.701923  0.004166 00
68      4,      41: DTE   53      0.705923  0.004000 00
69
70      5,      13: DCE   54      0.706167  0.000244 ff
71
72      5,      42: DTE   55      0.710256  0.000244 ff
73
74      6,      14: DCE   56      0.710530  0.000244 01
75      6,      15: DCE   57      0.714668  0.000244 00
76      6,      16: DCE   58      0.718836  0.000244 01
77
78 # There were a total of      58 bytes transferred
79
80 # There were a total of      16 DCE bytes transferred
81 # The first DCE byte came in at 0.034678 seconds from the start of data collection
82 # The last DCE byte was at 0.718836 seconds from the start of data collection
83
84 # There were a total of      42 DTE bytes transferred
85 # The first DTE byte came in at 0.000000 seconds from the start of data collection
86 # The last DTE byte was at 0.710256 seconds from the start of data collection
87

```

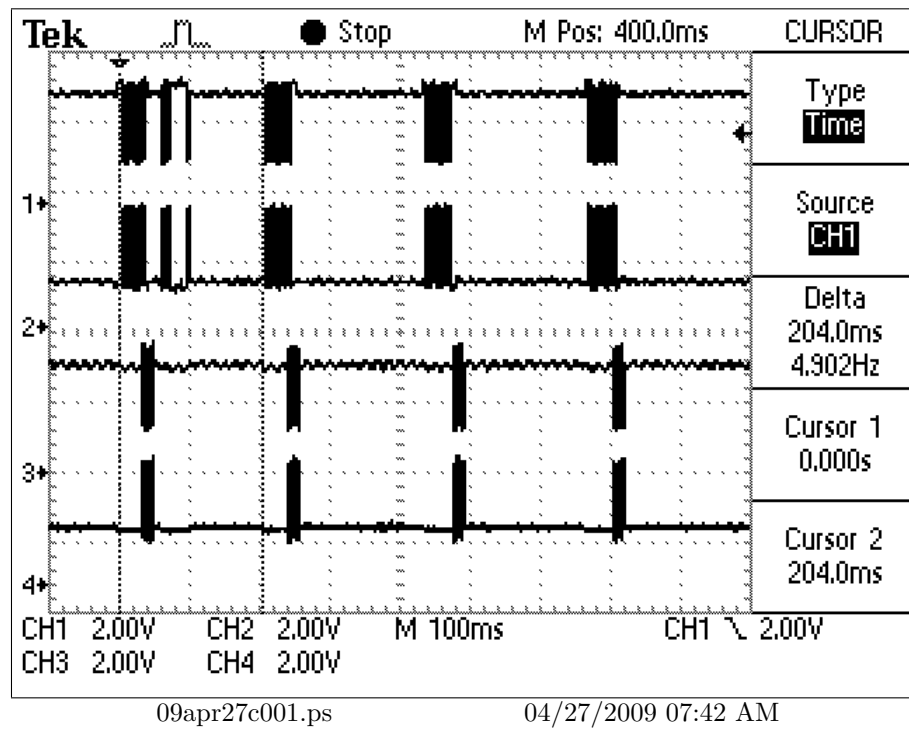


Figure 2: Time between the first and second commands

2.2 Scope captures, first capture series

Trace	Use
1	TX+
2	TX-
3	RX+
4	RX-

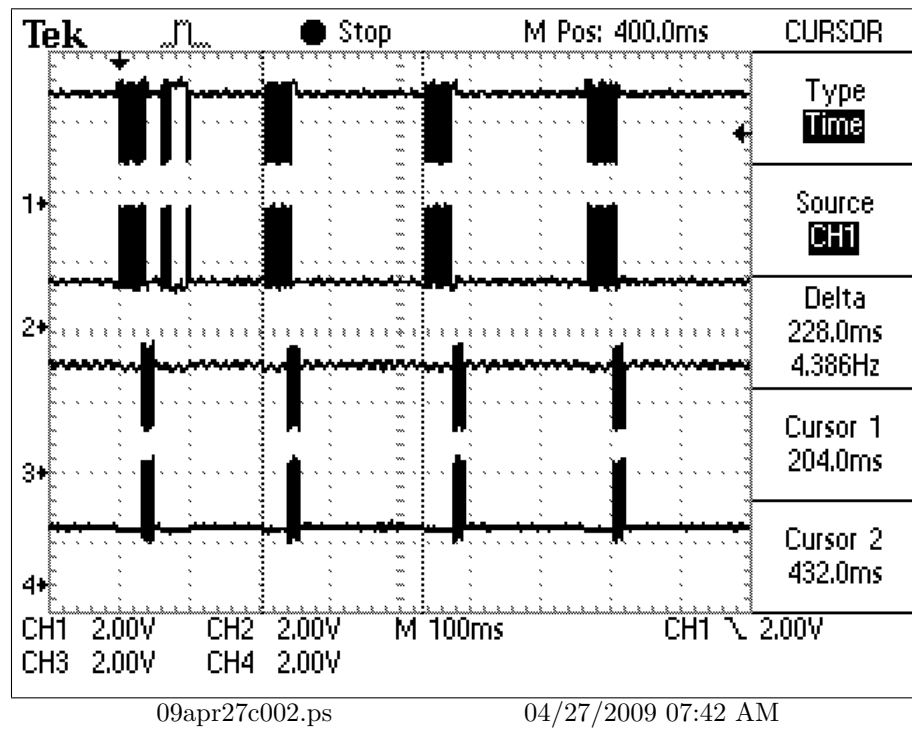


Figure 3: Time between the second and third commands

Trace	Use
1	TX+
2	TX-
3	RX+
4	RX-

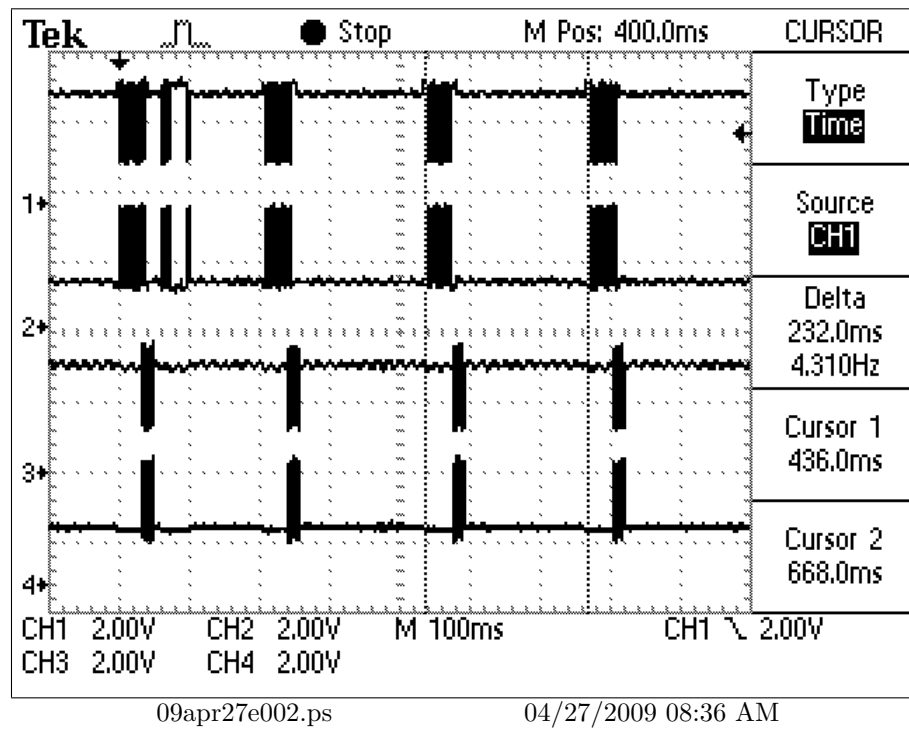


Figure 4: Time between the third and fourth command

Trace	Use
1	TX+
2	TX-
3	RX+
4	RX-

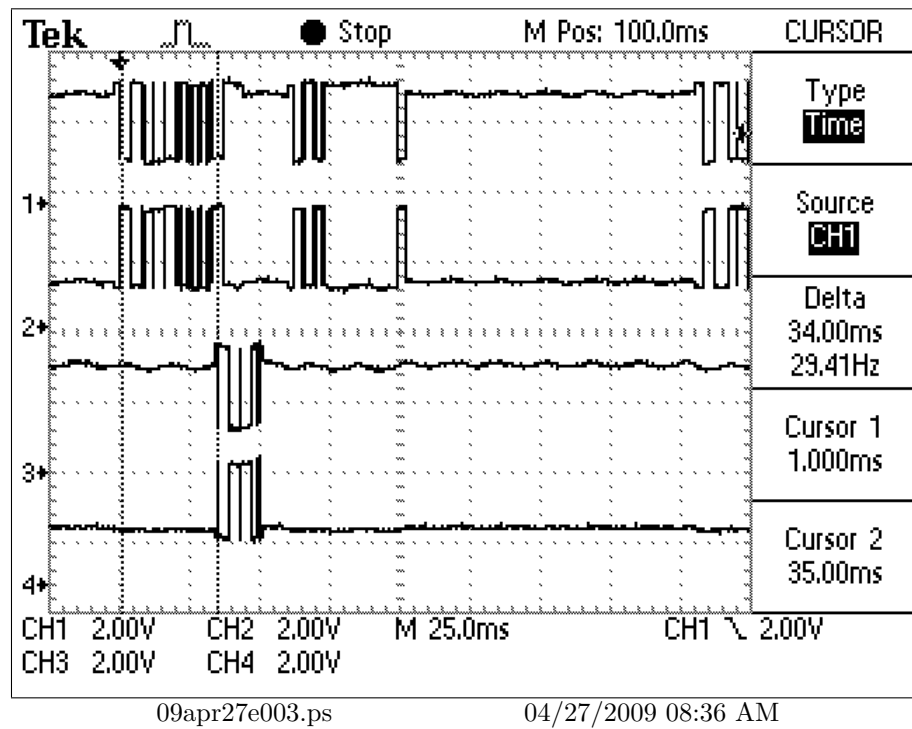


Figure 5: Time from the start of the first command and its reply

Trace	Use
1	TX+
2	TX-
3	RX+
4	RX-

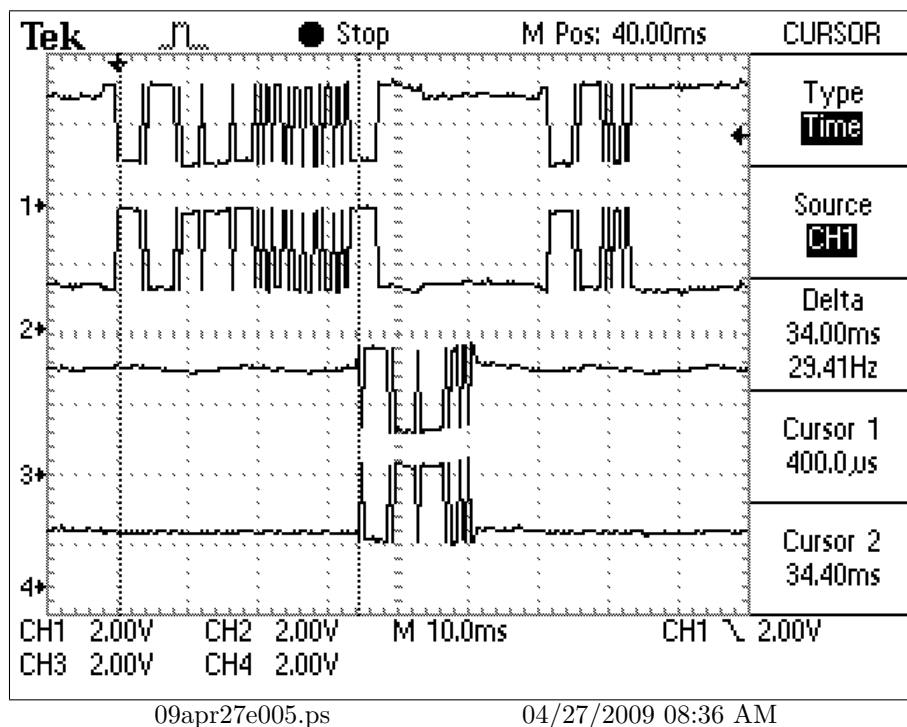


Figure 6: Details of the time between the start of the first command and its reply

Trace	Use
1	TX+
2	TX-
3	RX+
4	RX-

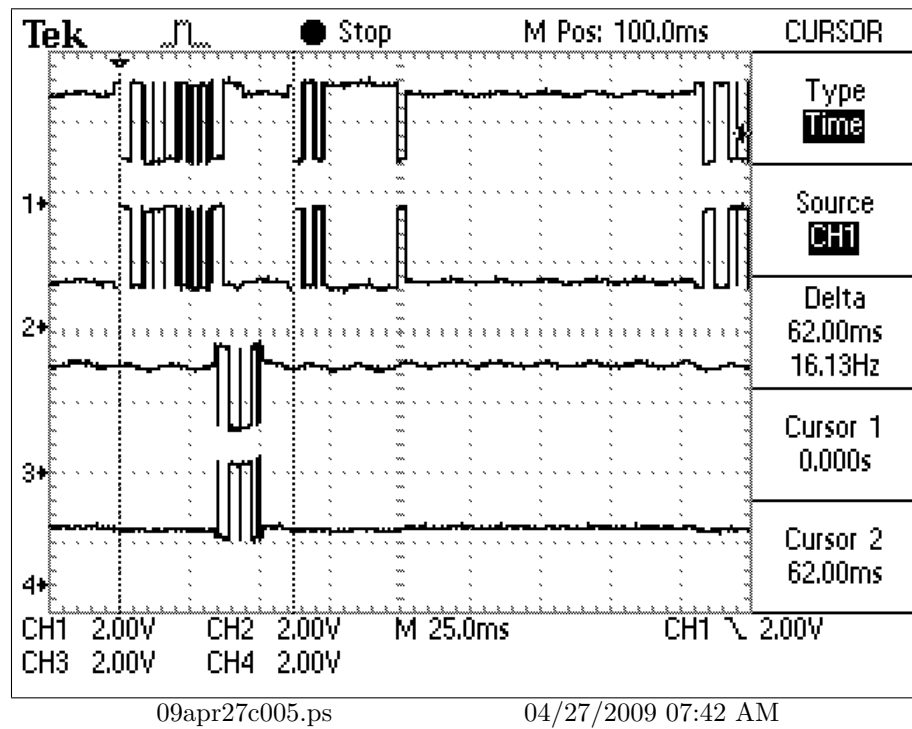


Figure 7: Time from the first command and the first extra data

Trace	Use
1	TX+
2	TX-
3	RX+
4	RX-

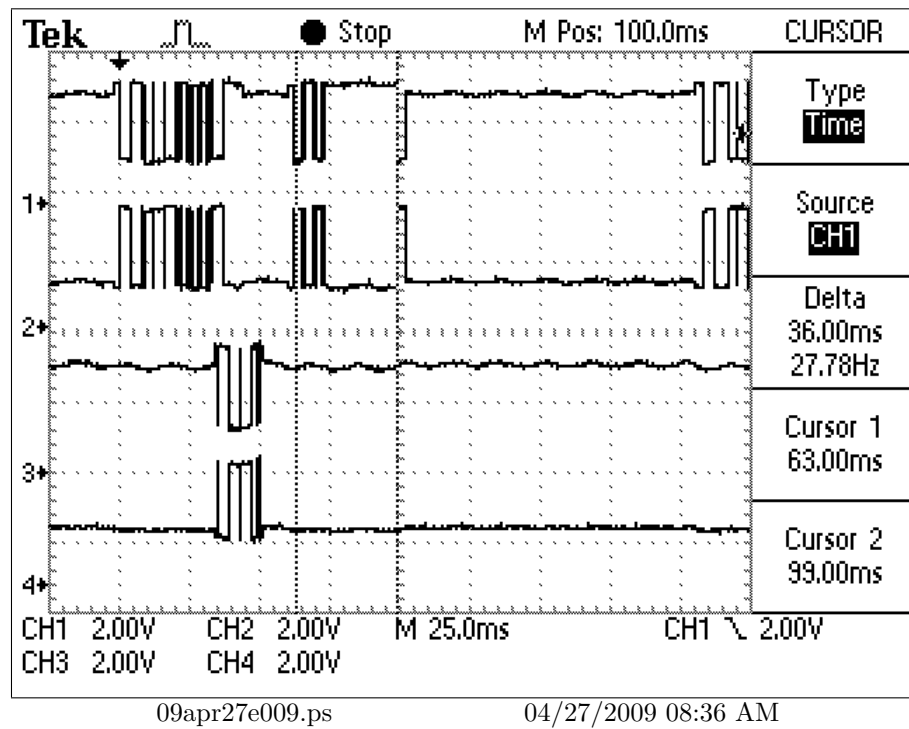


Figure 8: Time first extra data and the second extra data

Trace	Use
1	TX+
2	TX-
3	RX+
4	RX-

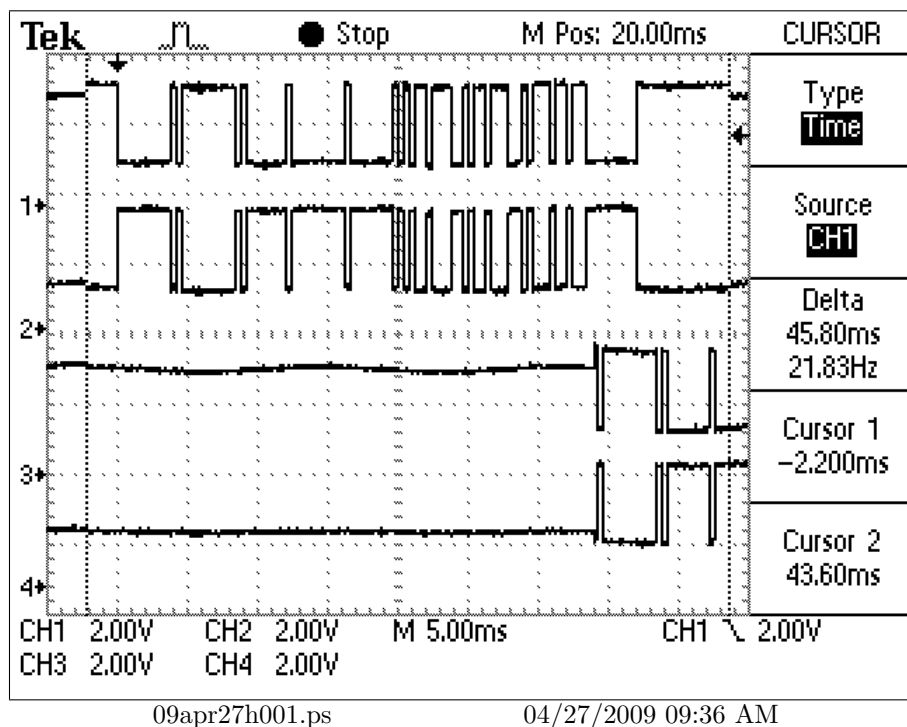


Figure 9: Screenshot of the line to release the line

2.3 Scope captures, second capture series

There are no associated ASCII data captures for this data.

Trace	Use
1	TX+
2	TX-
3	RX+
4	RX-

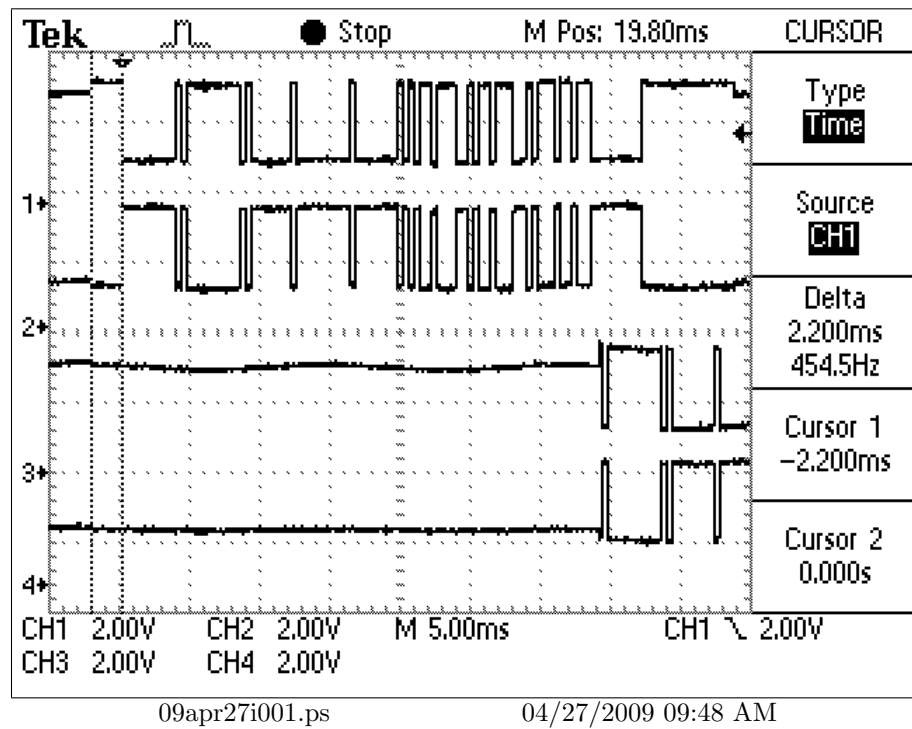


Figure 10: Initial seizure duration

Trace	Use
1	TX+
2	TX-
3	RX+
4	RX-

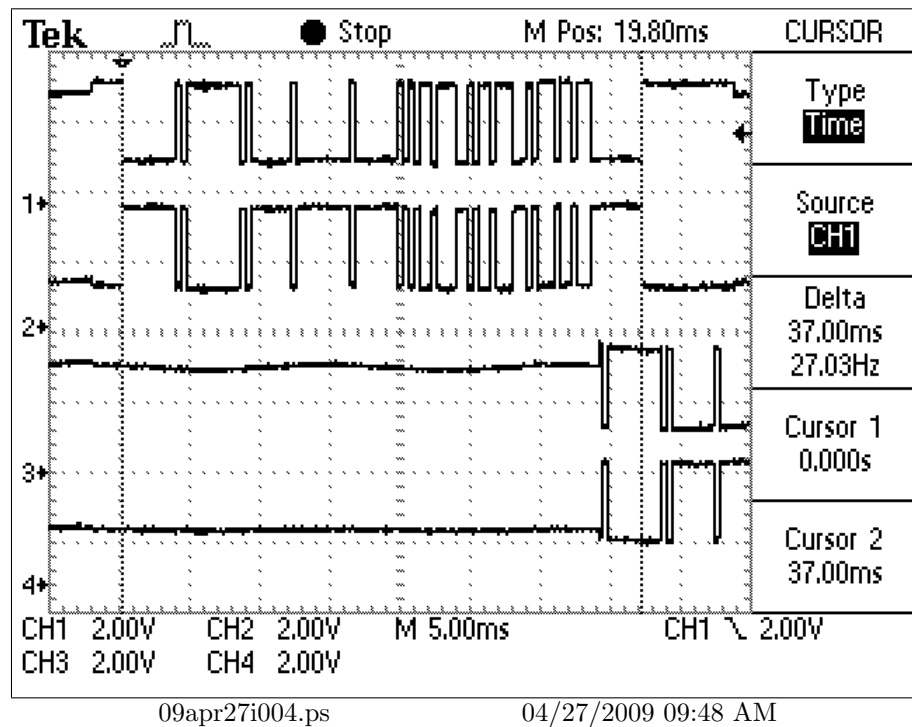


Figure 11: Time between the 0x00s

Trace	Use
1	TX+
2	TX-
3	RX+
4	RX-

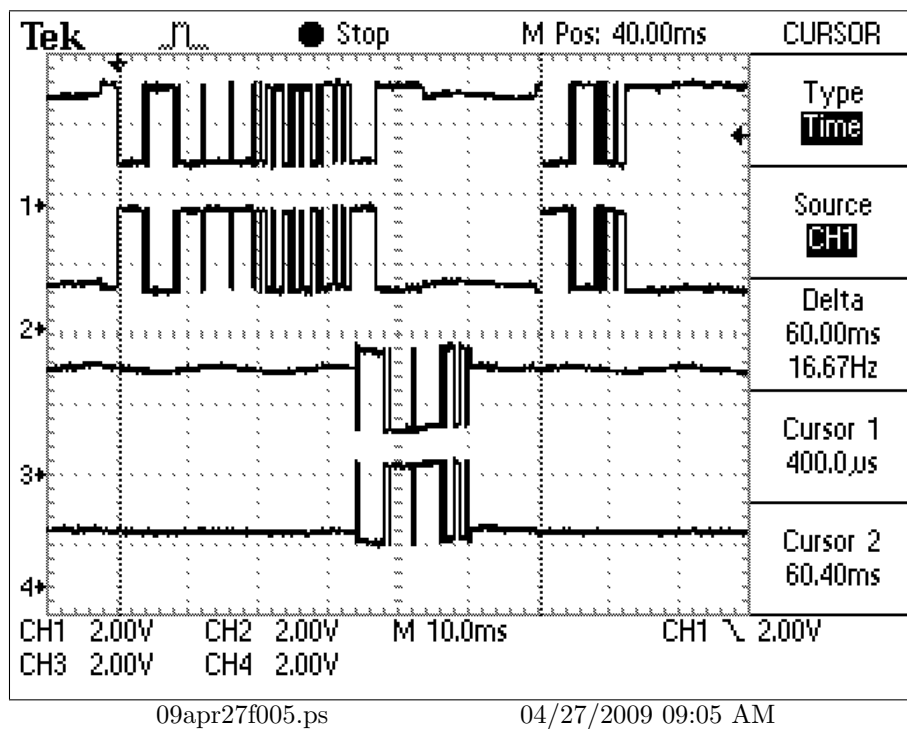


Figure 12: Time from the first 0x00 to the extra command

Trace	Use
1	TX+
2	TX-
3	RX+
4	RX-

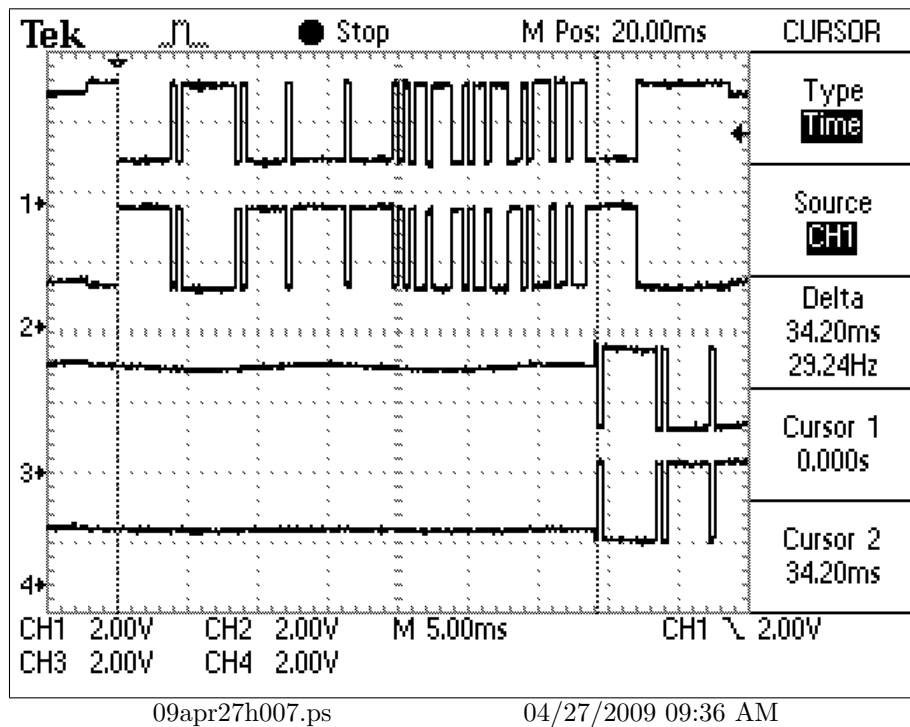


Figure 13: 0x00 to Esprit reply

Trace	Use
1	TX+
2	TX-
3	RX+
4	RX-

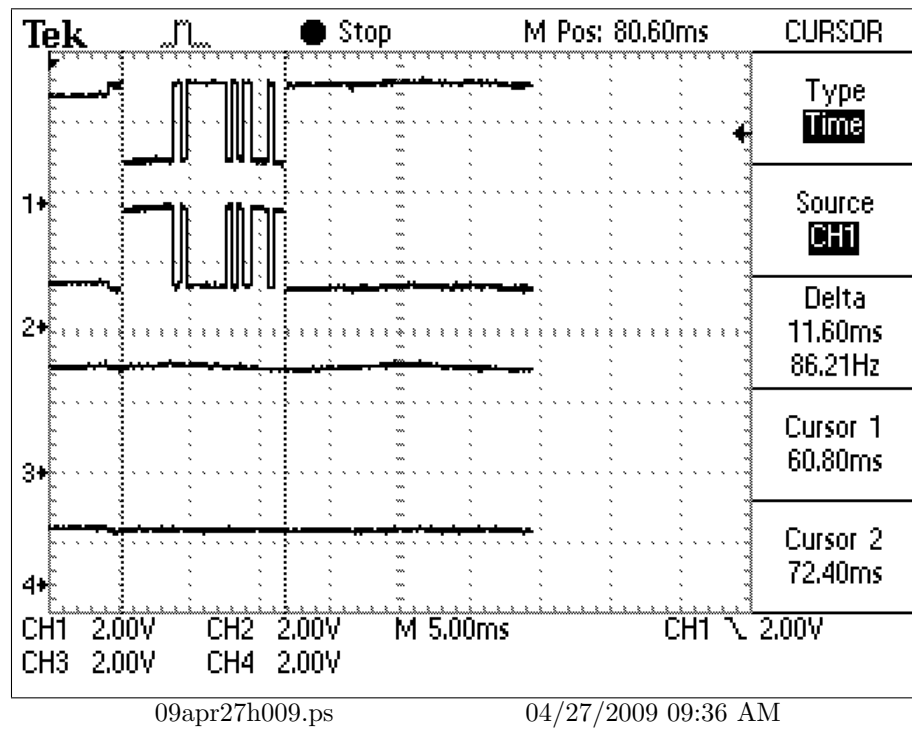


Figure 14: Extra command

Trace	Use
1	TX+
2	TX-
3	RX+
4	RX-

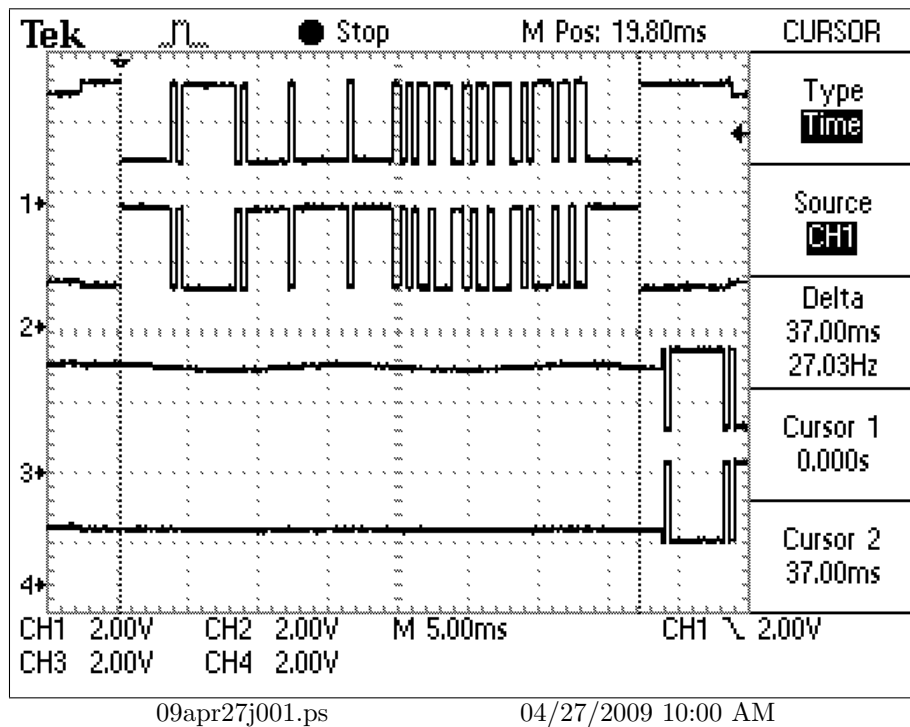


Figure 15: With the power supply for the SecuriTEST PRO disconnected

Trace	Use
1	TX+
2	TX-
3	RX+
4	RX-

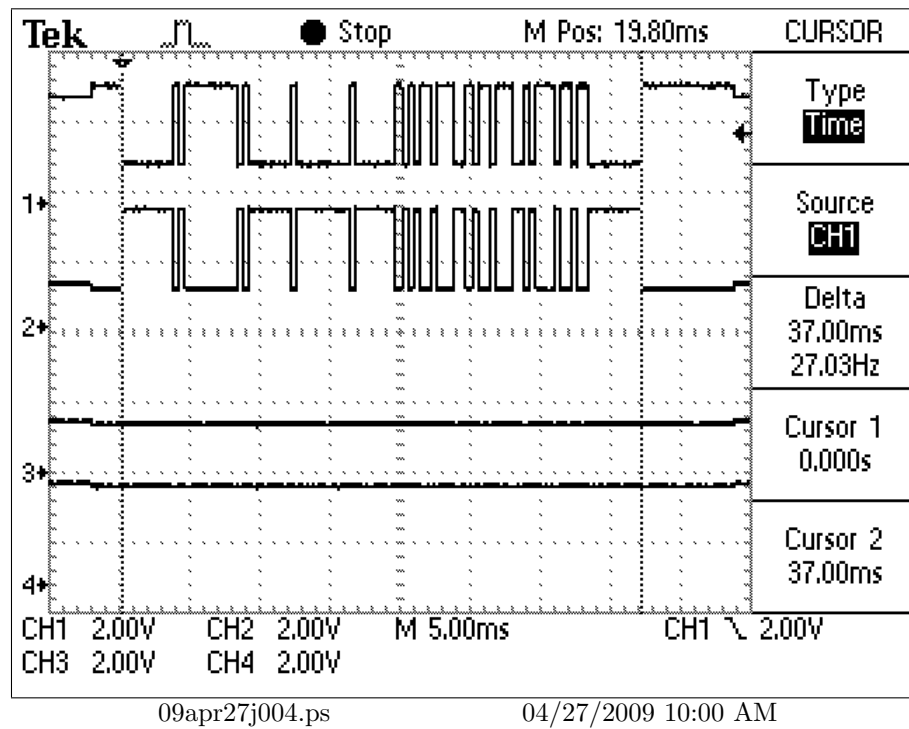


Figure 16: With the power supply for the SecuriTEST PRO and the Esprit disconnected

Trace	Use
1	TX+
2	TX-
3	RX+
4	RX-

3 ASCII data captures of D Protocol commands

The SecuriTEST PRO that was borrowed for this analysis had the following protocols available:

1. Supported Protocols: SecuriTEST PRO (33-892) and SecuriTEST (33-891):
 As listed in an advertisement for the Ideal SecuriTEST/SecuriTEST PRO
 (“p-2755_securitest_brochure.pdf”)
 - 1.1 American Dynamics (AD RS-422),
 - 1.2 Dongwong (DV-255RXC — D-max),
 - 1.3 Dongwong (DV-SP360D — D-max),
 - 1.4 Dynacolor (DYC),
 - 1.5 Hitachi (SJ-100),
 - 1.6 Hitron (Fastrak II),
 - 1.7 Honeywell Korea (ScanDome II, HSDN-251N),
 - 1.8 Kalatel ASCII (KTD-312),
 - 1.9 Kalatel DIGI, SecuriTEST PRO (33-892) only
 - 1.10 Oriental Electronic (ORX-1000),
 - 1.11 Panasonic (WV-CS850),
 - 1.12 Pelco D,
 - 1.13 Pelco P (Spectra),
 - 1.14 Samsung Electric (SCC-643),
 - 1.15 Samsung Techwin (SPD-2500),
 - 1.16 Sungjin (SJ100, SJ1000),
 - 1.17 Toshiba (SJ-1000),
 - 1.18 VCLTP, SecuriTEST PRO (33-892) only
 - 1.19 Wonwoo (DRX Protocol, same as D-max Protocol),
 - 1.20 Wonwoo Supermacy (DS series),
 - 1.21 Wonwoo Supermacy (WSJ series),
2. Not listed on the SecuriTEST PRO, but listed on the advertisement:
 - 2.1 Honeywell Korea (ScanDome II, HSDN-251N),
 - 2.2 Sungjin (SJ100, SJ1000),
 - 2.3 Wonwoo (DRX Protocol, same as D-max Protocol),
 - 2.4 Wonwoo Supermacy (DS series),
 - 2.5 Wonwoo Supermacy (WSJ series),
3. As listed on an Ideal SecuriTEST PRO. “First Looks” testing was planned using all these protocols, in this order. (This is the order of the protocols in the built in menu system of the SecuriTEST PRO):

⁷\$Header: d:/Binder7/SecuriTEST/RCS/Part2.inc,v 1.1 2009-05-01 06:43:13-07 Hamilton Exp Hamilton \$

- 3.1 VCLTP: VCLTP, SecuriTEST PRO (33-892) only
 - 3.2 PELCO-D: Pelco D
 - 3.3 PELCO P: Pelco P (Spectra)
 - 3.4 KTL-ASC: Kalatel ASCII (KTD-312)
 - 3.5 KTL-DIGI: Kalatel DIGI, SecuriTEST PRO (33-892) only
 - 3.6 YUJIN-PD: Not listed on the advertisement
 - 3.7 WONW00: Not listed on the advertisement
 - 3.8 WV-CS850: Panasonic (WV-CS850)
 - 3.9 FASTRAK: Hitron (Fastrak II)
4. During the “First Looks” evaluation of these protocols, at this point the SecuriTEST PRO lost the ability to select protocols and testing was stopped. (And the SecuriTEST PRO was returned to its manufacturer for repair.)
- 4.1 FASTRAK: Not listed on the advertisement
 - 4.2 SPD-2500: Samsung Techwin (SPD-2500)
 - 4.3 SCC-643: Samsung Electric (SCC-643)
 - 4.4 SUPREMACY: Not listed on the advertisement
 - 4.5 AD RS-422: American Dynamics (AD RS-422)
 - 4.6 SJ-100: Hitachi (SJ-100)
 - 4.7 SJ-1000: Toshiba (SJ-1000)
 - 4.8 DYC: Dynacolor (DYC)
 - 4.9 DY-SP360D: Dongwong (DV-SP360D - D-max)
 - 4.10 DY-255RXC: Dongwong (DV-255RXC - D-max)
 - 4.11 ORX-1000: Oriental Electronic (ORX-1000)
 - 4.12 VICON: Not listed on the advertisement
 - 4.13 LG MULTI: Not listed on the advertisement

Order of command sending. The indicated key was depressed for about four seconds and then let up for about 10 seconds. As I sometimes got “distracted” both of these times are very approximate.

- 1. For all units tested.
 - 1.1 Far
 - 1.2 Near
 - 1.3 Tele
 - 1.4 Wide
 - 1.5 Open (Omega)
 - 1.6 Close (4 mA)
 - 1.7 Up
 - 1.8 Right

- 1.9 Down
- 1.10 Left
- 1.11 Up-Right
- 1.12 Right-Down
- 1.13 Down-Left
- 1.14 Left-Up

2. For testing with D Protocol, with and without having an Esprit connected.

- 2.1 Right-Tele
- 2.2 Right-Open
- 2.3 Right-Open-Tele
- 2.4 Right-Open-Tele-Far
- 2.5 Right-Open-Tele-Far-Up

3.1 How to read the data captures

The data captures shown here have been collected from our Front Line System data capture system. It is a passive system that records, times and translates binary data into ASCII hex characters. After the data capture has been saved, it is then processed by MSQ to reformat the data into a more useful format. (In the data captures for the SecuriTEST PRO, no delta times were calculated nor was a version for printing produced.)

This data capture comes from communications between a Hitachi camera and the Spectra IV.

3.1.1 Before the delta times have been calculated:

Msg#	Byte#	Source	Tot byt	Time	Since	Cmnd
1707,	3989:	DTE	8027	240.003841	0.001140	:RFCC700
1710,	3997:	DTE	8044	240.129810	0.001144	:RFCC700
1713,	4005:	DTE	8061	240.263163	0.001314	:RFCC700

3.1.2 After the delta times have been calculated:

Msg#	Byte#	Source	Tot byt	Time	Delta	Since	Cmnd
1707,	4037:	DCE	8025	240.001948	0.129435	0.108556	:RFCC700
1707,	3989:	DTE	8027	240.003841	0.001893	0.001140	:RFCC700
1710,	4045:	DCE	8041	240.126926	0.123085	0.104219	:RFCC700
1710,	3997:	DTE	8044	240.129810	0.002884	0.001144	:RFCC700
1713,	4053:	DCE	8057	240.259719	0.129909	0.109850	:RFCC700
1713,	4005:	DTE	8061	240.263163	0.003444	0.001314	:RFCC700

3.1.3 Fully processed data:

Msg#	Byte#	Source	Tot byt	Time	Delta	Since	Cmnd
1707,	4037:	DCE	8025	240.001948	0.129435	0.108556	:R FCC7 00
1707,	3989:	DTE	8027	240.003841	0.001893	0.001140	:R FCC7 00
1710,	4045:	DCE	8041	240.126926	0.123085	0.104219	:R FCC7 00
1710,	3997:	DTE	8044	240.129810	0.002884	0.001144	:R FCC7 00
1713,	4053:	DCE	8057	240.259719	0.129909	0.109850	:R FCC7 00
1713,	4005:	DTE	8061	240.263163	0.003444	0.001314	:R FCC7 00

3.1.4 Data for printing:

Source	Time	Delta	Since	Cmnd
DCE	240.001948	0.129435	0.108556	:R FCC7 00
DTE	240.003841	0.001893	0.001140	:R FCC7 00
DCE	240.126926	0.123085	0.104219	:R FCC7 00
DTE	240.129810	0.002884	0.001144	:R FCC7 00
DCE	240.259719	0.129909	0.109850	:R FCC7 00
DTE	240.263163	0.003444	0.001314	:R FCC7 00

3.1.5 Legend:

Msg# = Message pair, increments on each change of Source ID.
 Byte# = Incrementing byte count within that Source ID.
 Source = Where it came from.
 Tot byt = Total byte number from the start of the data capture.
 Time = When it came based on the first byte coming in at time zero.
 Delta = Duration when this came in from the last data in the other Source ID.
 = Msg# 1710 Source ID DCE: 240.126926 - 240.003841 = 0.123085.
 = Msg# 1710 Source ID DTE: 240.129810 - 240.126929 = 0.002884.
 Since = Time since the preceding byte came in for this Source ID.
 Cmnd = The command, or reply, exactly as sent to the Hitachi or received from the Hitachi.

DCE and DTE sources may be reversed on a data capture by data capture basis.

3.2 D Protocol commands sent by a SecuriTEST PRO without an Esprit connected

In this data capture the SecuriTEST PRO was not connected to any type of PTZ unit. This is a process that I use in getting a “First Look” at Foreign protocols. We do not always have every competitor’s PTZ unit available, but when we can generate any valid command that might be able to control them, I make an effort to do a data capture with no PTZ connected. Some protocols will “hang up” when nothing is connected, but even that is better than nothing.

Here are a set of D Protocol commands sent when there was nothing to receive them. What should be noted here is that most of the commands are formatted correctly **except** the extra beginning and ending 0x00 bytes. Fortunately the 0x00 bytes are harmless and do not have much affect on the Esprit.

An unexpected discovery here is the speed at which commands repeat (except for the Iris commands which do not repeat in any protocol supported by the SecuriTEST PRO.). The rapid repeat rate of about 66 ms, it was totally unexpected and causes problems with an Esprit (or Spectra, ExSite, etc.). The commands are coming in too fast for processing. Usually the commands will be “silently ignored” and processing will appear to operate “normally”.

The data capture was done at 2400 baud. The time in the “Since” column of “0.004...” is the normal time to send a single character. The extra digits are “hollow accuracy” and may be ignored.

```

1  # $ Header: d:/Binder0/RCS/MsQ.1,v 1.1 2008-09-12 14:26:31-07 Hamilton Exp Hamilton $
2  # $Header: d:/Binder7/SecuriTEST/RCS/09APR27L.D,v 1.5 2009-05-01 07:12:53-07 Hamilton Exp Hamilton $
3  # Mon Apr 27 10:55:33 2009
4
5  # D Protocol, no Esprit connected
6  # When multiple buttons are depressed, then the exact start and stops are
7  # not "pure" due to the deltas inbetween button depressing.
8
9  # DTE = The SecuriTEST PRO
10 # DCE = The non-connected Esprit
11
12 # FTS capture buffer (4/27/2009 10:39:30 AM)
13 # Event 1 (4/27/2009 10:33:49.191009 AM) through
14 # Event 8,033 (4/27/2009 10:39:05.884412 AM)
15
16 Far
17 1,      1: DTE      1      0.000000  0.000000 00 ff 01 00 80 3b 3b f7 00
18 1,      10: DTE     10      0.099189  0.065863 00 ff 01 00 80 3b 3b f7 00
19 1,      19: DTE     19      0.198356  0.065863 00 ff 01 00 80 3b 3b f7 00
20 1,      28: DTE     28      0.297601  0.065913 00 ff 01 00 80 3b 3b f7 00
21 < over 40 identical command lines deleted here >
22 1,      397: DTE    397      4.364893  0.065861 00 ff 01 00 80 3b 3b f7 00
23 1,      406: DTE    406      4.464110  0.065912 00 ff 01 00 80 3b 3b f7 00
24
25 Stop
26 1,      415: DTE    415      4.573272  0.075829 00 ff 01 00 00 00 00 01 00
27 1,      424: DTE    424      4.803406  0.196849 00 ff 01 00 00 00 00 01 00
28 1,      433: DTE    433      5.033494  0.196806 00 ff 01 00 00 00 00 01 00
29
30 Near
31 1,      442: DTE    442      17.760266  12.693396 00 ff 01 01 00 3b 3b 78 00
32 1,      451: DTE    451      17.859428  0.065858 00 ff 01 01 00 3b 3b 78 00
33 < over 50 identical command lines deleted here >
34 1,      919: DTE    919      23.017973  0.065858 00 ff 01 01 00 3b 3b 78 00
35 1,      928: DTE    928      23.117166  0.065862 00 ff 01 01 00 3b 3b 78 00
36 1,      937: DTE    937      23.216410  0.065912 00 ff 01 01 00 3b 3b 78 00
37 1,      946: DTE    946      23.315578  0.065894 00 ff 01 01 00 3b 3b 78 00
38
39 Stop
40 1,      955: DTE    955      23.424722  0.075813 00 ff 01 00 00 00 00 01 00
41 1,      964: DTE    964      23.654876  0.196854 00 ff 01 00 00 00 00 01 00
42 1,      973: DTE    973      23.885006  0.196802 00 ff 01 00 00 00 00 01 00
43
44 Tele

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45      1,      982: DTE  982      35.370714  11.452378 00 ff 01 00 20 3b 3b 97 00
46      1,      991: DTE  991      35.469907  0.065864 00 ff 01 00 20 3b 3b 97 00
47 < over 40 identical command lines deleted here >
48      1,      1369: DTE 1369      39.636418  0.065864 00 ff 01 00 20 3b 3b 97 00
49      1,      1378: DTE 1378      39.735609  0.065861 00 ff 01 00 20 3b 3b 97 00
50      1,      1387: DTE 1387      39.834854  0.065941 00 ff 01 00 20 3b 3b 97 00
51      1,      1396: DTE 1396      39.933852  0.065692 00 ff 01 00 20 3b 3b 97 00
52      1,      1405: DTE 1405      40.033265  0.066080 00 ff 01 00 20 3b 3b 97 00
53
54 Stop
55      1,      1414: DTE 1414      40.142380  0.075809 00 ff 01 00 00 00 00 01 00
56      1,      1423: DTE 1423      40.372512  0.196801 00 ff 01 00 00 00 00 01 00
57      1,      1432: DTE 1432      40.602694  0.196878 00 ff 01 00 00 00 00 01 00
58
59 Wide
60      1,      1441: DTE 1441      53.387907  12.751909 00 ff 01 00 40 3b 3b b7 00
61      1,      1450: DTE 1450      53.487101  0.065865 00 ff 01 00 40 3b 3b b7 00
62 < over 45 identical command lines deleted here >
63      1,      1873: DTE 1873      58.149623  0.065859 00 ff 01 00 40 3b 3b b7 00
64      1,      1882: DTE 1882      58.248870  0.065914 00 ff 01 00 40 3b 3b b7 00
65      1,      1891: DTE 1891      58.348035  0.065860 00 ff 01 00 40 3b 3b b7 00
66
67 Stop
68      1,      1900: DTE 1900      58.457016  0.075648 00 ff 01 00 00 00 00 01 00
69      1,      1909: DTE 1909      58.687309  0.196946 00 ff 01 00 00 00 00 01 00
70      1,      1918: DTE 1918      58.917466  0.196844 00 ff 01 00 00 00 00 01 00
71
72 Open
73      1,      1927: DTE 1927      70.419007  11.468212 00 ff 01 02 00 00 00 03 00
74
75 Stop
76      1,      1936: DTE 1936      75.287888  4.835554 00 ff 01 00 00 00 00 01 00
77
78 Close
79      1,      1945: DTE 1945      87.954090  12.632900 00 ff 01 04 00 00 00 05 00
80
81 Stop
82      1,      1954: DTE 1954      92.903336  4.915918 00 ff 01 00 00 00 00 01 00
83
84 Up
85      1,      1963: DTE 1963      106.329266  13.392602 00 ff 01 00 08 3b 3b 7f 00
86      1,      1972: DTE 1972      106.428622  0.065861 00 ff 01 00 08 3b 3b 7f 00
87 < over 40 identical command lines deleted here >
88      1,      2359: DTE 2359      110.694385  0.065918 00 ff 01 00 08 3b 3b 7f 00
89      1,      2368: DTE 2368      110.793546  0.065861 00 ff 01 00 08 3b 3b 7f 00
90      1,      2377: DTE 2377      110.892745  0.065867 00 ff 01 00 08 3b 3b 7f 00
91      1,      2386: DTE 2386      110.991957  0.066080 00 ff 01 00 08 3b 3b 7f 00
92      1,      2395: DTE 2395      111.091152  0.065863 00 ff 01 00 08 3b 3b 7f 00
93
94 Stop
95      1,      2404: DTE 2404      111.200265  0.075807 00 ff 01 00 00 00 00 01 00
96      1,      2413: DTE 2413      111.430450  0.196853 00 ff 01 00 00 00 00 01 00
97      1,      2422: DTE 2422      111.660581  0.196801 00 ff 01 00 00 00 00 01 00
98
99 Right
100     1,      2431: DTE 2431      123.315923  11.622040 00 ff 01 00 02 3b 3b 79 00
101     1,      2440: DTE 2440      123.415087  0.065862 00 ff 01 00 02 3b 3b 79 00
102 < over 45 identical command lines deleted here >
103     1,      2863: DTE 2863      128.077643  0.065865 00 ff 01 00 02 3b 3b 79 00
104     1,      2872: DTE 2872      128.176858  0.066080 00 ff 01 00 02 3b 3b 79 00
105     1,      2881: DTE 2881      128.276052  0.065859 00 ff 01 00 02 3b 3b 79 00
106
107 Stop
108     1,      2890: DTE 2890      128.385167  0.075811 00 ff 01 00 00 00 00 01 00
109     1,      2899: DTE 2899      128.615299  0.196803 00 ff 01 00 00 00 00 01 00
110     1,      2908: DTE 2908      128.845480  0.196879 00 ff 01 00 00 00 00 01 00
111
112 Down
113     1,      2917: DTE 2917      139.939314  11.060529 00 ff 01 00 10 3b 3b 87 00
114     1,      2926: DTE 2926      140.038476  0.065862 00 ff 01 00 10 3b 3b 87 00
115 < over 40 identical command lines deleted here >
116     1,      3295: DTE 3295      144.105820  0.065860 00 ff 01 00 10 3b 3b 87 00

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117      1,      3304: DTE 3304 144.205015 0.065862 00 ff 01 00 10 3b 3b 87 00
118      1,      3313: DTE 3313 144.304234 0.065916 00 ff 01 00 10 3b 3b 87 00
119      1,      3322: DTE 3322 144.403431 0.065865 00 ff 01 00 10 3b 3b 87 00
120      1,      3331: DTE 3331 144.502647 0.065916 00 ff 01 00 10 3b 3b 87 00
121      1,      3340: DTE 3340 144.601674 0.065697 00 ff 01 00 10 3b 3b 87 00
122
123 Stop
124      1,      3349: DTE 3349 144.710951 0.075782 00 ff 01 00 00 00 00 01 00
125      1,      3358: DTE 3358 144.940998 0.196704 00 ff 01 00 00 00 00 01 00
126      1,      3367: DTE 3367 145.171267 0.196918 00 ff 01 00 00 00 00 01 00
127
128 Left
129      1,      3376: DTE 3376 156.210543 11.005972 00 ff 01 00 04 3b 3b 7b 00
130      1,      3385: DTE 3385 156.309756 0.065912 00 ff 01 00 04 3b 3b 7b 00
131 < over 40 identical command lines deleted here >
132      1,      3763: DTE 3763 160.476242 0.065859 00 ff 01 00 04 3b 3b 7b 00
133      1,      3772: DTE 3772 160.575466 0.065908 00 ff 01 00 04 3b 3b 7b 00
134      1,      3781: DTE 3781 160.674656 0.066023 00 ff 01 00 04 3b 3b 7b 00
135      1,      3790: DTE 3790 160.773874 0.065913 00 ff 01 00 04 3b 3b 7b 00
136
137 Stop
138      1,      3799: DTE 3799 160.883014 0.075809 00 ff 01 00 00 00 00 01 00
139      1,      3808: DTE 3808 161.113146 0.196828 00 ff 01 00 00 00 00 01 00
140      1,      3817: DTE 3817 161.343304 0.196855 00 ff 01 00 00 00 00 01 00
141
142 Right
143      1,      3826: DTE 3826 173.603751 12.227119 00 ff 01 00 02 3b 3b 79 00
144      1,      3835: DTE 3835 173.702966 0.066076 00 ff 01 00 02 3b 3b 79 00
145      1,      3844: DTE 3844 173.802158 0.066028 00 ff 01 00 02 3b 3b 79 00
146      1,      3853: DTE 3853 173.901401 0.065937 00 ff 01 00 02 3b 3b 79 00
147      1,      3862: DTE 3862 174.000570 0.065862 00 ff 01 00 02 3b 3b 79 00
148      1,      3871: DTE 3871 174.099762 0.065861 00 ff 01 00 02 3b 3b 79 00
149      1,      3880: DTE 3880 174.198982 0.065913 00 ff 01 00 0a 3b 3b 81 00
150      1,      3889: DTE 3889 174.298172 0.065858 00 ff 01 00 0a 3b 3b 81 00
151      1,      3898: DTE 3898 174.397392 0.065912 00 ff 01 00 0a 3b 3b 81 00
152 < over 30 identical command lines deleted here >
153      1,      4177: DTE 4177 177.472655 0.065863 00 ff 01 00 0a 3b 3b 81 00
154      1,      4186: DTE 4186 177.571857 0.065871 00 ff 01 00 0a 3b 3b 81 00
155      1,      4195: DTE 4195 177.671095 0.065942 00 ff 01 00 0a 3b 3b 81 00
156      1,      4204: DTE 4204 177.770261 0.065863 00 ff 01 00 0a 3b 3b 81 00
157      1,      4213: DTE 4213 177.869503 0.065915 00 ff 01 00 0a 3b 3b 81 00
158      1,      4222: DTE 4222 177.968671 0.065864 00 ff 01 00 02 3b 3b 79 00
159      1,      4231: DTE 4231 178.067696 0.065695 00 ff 01 00 02 3b 3b 79 00
160      1,      4240: DTE 4240 178.167082 0.065913 00 ff 01 00 02 3b 3b 79 00
161      1,      4249: DTE 4249 178.266274 0.065861 00 ff 01 00 02 3b 3b 79 00
162      1,      4258: DTE 4258 178.365519 0.065913 00 ff 01 00 02 3b 3b 79 00
163
164 Stop
165      1,      4267: DTE 4267 178.474636 0.075811 00 ff 01 00 00 00 00 01 00
166      1,      4276: DTE 4276 178.704768 0.196803 00 ff 01 00 00 00 00 01 00
167      1,      4285: DTE 4285 178.934924 0.196854 00 ff 01 00 00 00 00 01 00
168
169 Right
170      1,      4294: DTE 4294 190.228183 11.259931 00 ff 01 00 02 3b 3b 79 00
171      1,      4303: DTE 4303 190.327344 0.065860 00 ff 01 00 02 3b 3b 79 00
172      1,      4312: DTE 4312 190.426539 0.066028 00 ff 01 00 02 3b 3b 79 00
173      1,      4321: DTE 4321 190.525756 0.065912 00 ff 01 00 02 3b 3b 79 00
174      1,      4330: DTE 4330 190.624953 0.065863 00 ff 01 00 02 3b 3b 79 00
175 Up-Right
176      1,      4339: DTE 4339 190.724195 0.066080 00 ff 01 00 12 3b 3b 89 00
177      1,      4348: DTE 4348 190.823261 0.065761 00 ff 01 00 12 3b 3b 89 00
178 < over 30 identical command lines deleted here >
179      1,      4636: DTE 4636 193.997868 0.065914 00 ff 01 00 12 3b 3b 89 00
180      1,      4645: DTE 4645 194.097035 0.065862 00 ff 01 00 12 3b 3b 89 00
181      1,      4654: DTE 4654 194.196280 0.065915 00 ff 01 00 12 3b 3b 89 00
182      1,      4663: DTE 4663 194.295482 0.065898 00 ff 01 00 12 3b 3b 89 00
183      1,      4672: DTE 4672 194.394638 0.065861 00 ff 01 00 02 3b 3b 79 00
184
185 Stop
186      1,      4681: DTE 4681 194.503780 0.075811 00 ff 01 00 00 00 00 01 00
187      1,      4690: DTE 4690 194.733938 0.196854 00 ff 01 00 00 00 00 01 00
188      1,      4699: DTE 4699 194.964068 0.196779 00 ff 01 00 00 00 00 01 00

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189
190 Down
191 1, 4708: DTE 4708 206.305947 11.308575 00 ff 01 00 10 3b 3b 87 00
192 1, 4717: DTE 4717 206.405163 0.065912 00 ff 01 00 10 3b 3b 87 00
193 1, 4726: DTE 4726 206.504357 0.065862 00 ff 01 00 10 3b 3b 87 00
194 1, 4735: DTE 4735 206.603364 0.065702 00 ff 01 00 10 3b 3b 87 00
195 Left-Down
196 1, 4744: DTE 4744 206.702771 0.065916 00 ff 01 00 14 3b 3b 8b 00
197 1, 4753: DTE 4753 206.801961 0.065888 00 ff 01 00 14 3b 3b 8b 00
198 1, 4762: DTE 4762 206.901180 0.065914 00 ff 01 00 14 3b 3b 8b 00
199 1, 4771: DTE 4771 207.000372 0.065861 00 ff 01 00 14 3b 3b 8b 00
200 1, 4780: DTE 4780 207.099538 0.065861 00 ff 01 00 14 3b 3b 8b 00
201 1, 4789: DTE 4789 207.198782 0.065912 00 ff 01 00 14 3b 3b 8b 00
202 1, 4798: DTE 4798 207.297950 0.065861 00 ff 01 00 14 3b 3b 8b 00
203 1, 4807: DTE 4807 207.397197 0.065917 00 ff 01 00 14 3b 3b 8b 00
204 1, 4816: DTE 4816 207.496390 0.065865 00 ff 01 00 14 3b 3b 8b 00
205 Down
206 1, 4825: DTE 4825 207.595556 0.065864 00 ff 01 00 10 3b 3b 87 00
207 1, 4834: DTE 4834 207.694837 0.065951 00 ff 01 00 10 3b 3b 87 00
208 < over 25 identical command lines deleted here >
209 1, 5077: DTE 5077 210.373262 0.065910 00 ff 01 00 10 3b 3b 87 00
210 1, 5086: DTE 5086 210.472457 0.065861 00 ff 01 00 10 3b 3b 87 00
211 1, 5095: DTE 5095 210.571647 0.065887 00 ff 01 00 10 3b 3b 87 00
212 1, 5104: DTE 5104 210.670869 0.065912 00 ff 01 00 10 3b 3b 87 00
213 1, 5113: DTE 5113 210.770060 0.065820 00 ff 01 00 10 3b 3b 87 00
214 1, 5122: DTE 5122 210.869278 0.065913 00 ff 01 00 10 3b 3b 87 00
215
216 Stop
217 1, 5131: DTE 5131 210.978420 0.075808 00 ff 01 00 00 00 00 01 00
218 1, 5140: DTE 5140 211.208527 0.196802 00 ff 01 00 00 00 00 01 00
219 1, 5149: DTE 5149 211.438710 0.196854 00 ff 01 00 00 00 00 01 00
220
221 Up
222 1, 5158: DTE 5158 223.023608 11.551569 00 ff 01 00 08 3b 3b 7f 00
223 1, 5167: DTE 5167 223.122799 0.065851 00 ff 01 00 08 3b 3b 7f 00
224 < over 35 identical command lines deleted here >
225 1, 5500: DTE 5500 226.793294 0.065913 00 ff 01 00 08 3b 3b 7f 00
226 1, 5509: DTE 5509 226.892496 0.065868 00 ff 01 00 08 3b 3b 7f 00
227 1, 5518: DTE 5518 226.991710 0.065916 00 ff 01 00 08 3b 3b 7f 00
228 1, 5527: DTE 5527 227.090898 0.065858 00 ff 01 00 08 3b 3b 7f 00
229 1, 5536: DTE 5536 227.190091 0.065860 00 ff 01 00 08 3b 3b 7f 00
230 1, 5545: DTE 5545 227.289309 0.065912 00 ff 01 00 08 3b 3b 7f 00
231 1, 5554: DTE 5554 227.388501 0.065858 00 ff 01 00 08 3b 3b 7f 00
232
233 Stop
234 1, 5563: DTE 5563 227.497619 0.075811 00 ff 01 00 00 00 00 01 00
235 1, 5572: DTE 5572 227.727803 0.196851 00 ff 01 00 00 00 00 01 00
236 1, 5581: DTE 5581 227.957932 0.196827 00 ff 01 00 00 00 00 01 00
237
238 Right
239 1, 5590: DTE 5590 241.597313 13.606076 00 ff 01 00 02 3b 3b 79 00
240 Right-Tele
241 1, 5599: DTE 5599 241.695514 0.064871 00 ff 01 00 22 3b 3b 99 00
242 1, 5608: DTE 5608 241.794760 0.066105 00 ff 01 00 22 3b 3b 99 00
243 < over 35 identical command lines deleted here >
244 1, 5941: DTE 5941 245.465253 0.065852 00 ff 01 00 22 3b 3b 99 00
245 1, 5950: DTE 5950 245.564447 0.065860 00 ff 01 00 22 3b 3b 99 00
246 1, 5959: DTE 5959 245.663615 0.065860 00 ff 01 00 22 3b 3b 99 00
247 1, 5968: DTE 5968 245.762862 0.065916 00 ff 01 00 22 3b 3b 99 00
248 1, 5977: DTE 5977 245.861970 0.065807 00 ff 01 00 22 3b 3b 99 00
249 1, 5986: DTE 5986 245.961272 0.065950 00 ff 01 00 22 3b 3b 99 00
250 1, 5995: DTE 5995 246.060438 0.065862 00 ff 01 00 22 3b 3b 99 00
251 1, 6004: DTE 6004 246.159629 0.065860 00 ff 01 00 22 3b 3b 99 00
252 1, 6013: DTE 6013 246.258876 0.065915 00 ff 01 00 22 3b 3b 99 00
253
254 Stop
255 1, 6022: DTE 6022 246.367990 0.075810 00 ff 01 00 00 00 00 01 00
256 1, 6031: DTE 6031 246.598123 0.196802 00 ff 01 00 00 00 00 01 00
257 1, 6040: DTE 6040 246.828280 0.197020 00 ff 01 00 00 00 00 01 00
258
259 Right
260 1, 6049: DTE 6049 258.904221 12.042614 00 ff 01 00 02 3b 3b 79 00

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261
262 Stop
263 1, 6058: DTE 6058 258.960754 0.023233 00 ff 01 02 00 00 00 03 00
264
265 Noise
266 1, 6067: DTE 6067 259.003434 0.009375 fe
267
268 Right
269 1, 6068: DTE 6068 259.102633 0.099199 00 ff 01 00 02 3b 3b 79 00
270 1, 6077: DTE 6077 259.201846 0.065913 00 ff 01 00 02 3b 3b 79 00
271 < over 45 identical command lines deleted here >
272 1, 6500: DTE 6500 263.864401 0.065913 00 ff 01 00 02 3b 3b 79 00
273 1, 6509: DTE 6509 263.963569 0.065861 00 ff 01 00 02 3b 3b 79 00
274 1, 6518: DTE 6518 264.062760 0.065860 00 ff 01 00 02 3b 3b 79 00
275 1, 6527: DTE 6527 264.161980 0.065945 00 ff 01 00 02 3b 3b 79 00
276
277 Stop
278 1, 6536: DTE 6536 264.214582 0.019270 00 ff 01 00 00 00 00 01 00
279
280 Right
281 1, 6545: DTE 6545 264.261171 0.013281 00 ff 01 00 02 3b 3b 79 00
282
283 Stop
284 1, 6554: DTE 6554 264.370287 0.075810 00 ff 01 00 00 00 00 01 00
285 1, 6563: DTE 6563 264.600473 0.196854 00 ff 01 00 00 00 00 01 00
286 1, 6572: DTE 6572 264.830602 0.196801 00 ff 01 00 00 00 00 01 00
287
288 Open
289 1, 6581: DTE 6581 276.366762 11.502857 00 ff 01 02 00 00 00 03 00
290 Right
291 1, 6590: DTE 6590 276.415499 0.015387 00 ff 01 00 02 3b 3b 79 00
292 Right-Tele
293 1, 6599: DTE 6599 276.514693 0.065887 00 ff 01 00 22 3b 3b 99 00
294 1, 6608: DTE 6608 276.613923 0.065925 00 ff 01 00 22 3b 3b 99 00
295 < over 20 identical command lines deleted here >
296 1, 6806: DTE 6806 278.796398 0.065924 00 ff 01 00 22 3b 3b 99 00
297 1, 6815: DTE 6815 278.895553 0.065862 00 ff 01 00 22 3b 3b 99 00
298 1, 6824: DTE 6824 278.994745 0.065859 00 ff 01 00 22 3b 3b 99 00
299 1, 6833: DTE 6833 279.093990 0.065912 00 ff 01 00 22 3b 3b 99 00
300
301 Stop
302 1, 6842: DTE 6842 279.146568 0.019271 00 ff 01 00 00 00 00 01 00
303
304 Right-Tele
305 1, 6851: DTE 6851 279.193156 0.013282 00 ff 01 00 22 3b 3b 99 00
306 1, 6860: DTE 6860 279.292402 0.065912 00 ff 01 00 22 3b 3b 99 00
307 < over 15 identical command lines deleted here >
308 1, 7013: DTE 7013 280.978809 0.065861 00 ff 01 00 22 3b 3b 99 00
309 1, 7022: DTE 7022 281.078027 0.065912 00 ff 01 00 22 3b 3b 99 00
310 Tele
311 1, 7031: DTE 7031 281.177220 0.065860 00 ff 01 00 20 3b 3b 97 00
312
313 Stop
314 1, 7040: DTE 7040 281.286335 0.075799 00 ff 01 00 00 00 00 01 00
315 1, 7049: DTE 7049 281.516520 0.196854 00 ff 01 00 00 00 00 01 00
316 1, 7058: DTE 7058 281.746650 0.196827 00 ff 01 00 00 00 00 01 00
317
318 Open
319 1, 7067: DTE 7067 293.902957 12.123004 00 ff 01 02 00 00 00 03 00
320 Right
321 1, 7076: DTE 7076 293.950583 0.014323 00 ff 01 00 02 3b 3b 79 00
322 Right-Tele
323 1, 7085: DTE 7085 294.049777 0.065886 00 ff 01 00 22 3b 3b 99 00
324 1, 7094: DTE 7094 294.148996 0.065913 00 ff 01 00 22 3b 3b 99 00
325 1, 7103: DTE 7103 294.248188 0.065860 00 ff 01 00 22 3b 3b 99 00
326 1, 7112: DTE 7112 294.347356 0.065861 00 ff 01 00 22 3b 3b 99 00
327 1, 7121: DTE 7121 294.446600 0.065912 00 ff 01 00 22 3b 3b 99 00
328 Right-Tele_Far
329 1, 7130: DTE 7130 294.545766 0.065860 00 ff 01 00 a2 3b 3b 19 00
330 1, 7139: DTE 7139 294.645016 0.065917 00 ff 01 00 a2 3b 3b 19 00
331 < over 35 identical command lines deleted here >
332 1, 7472: DTE 7472 298.315340 0.065746 00 ff 01 00 a2 3b 3b 19 00

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333      1,      7481: DTE 7481 298.414702 0.065862 00 ff 01 00 a2 3b 3b 19 00
334      1,      7490: DTE 7490 298.513892 0.065859 00 ff 01 00 a2 3b 3b 19 00
335      1,      7499: DTE 7499 298.613114 0.065914 00 ff 01 00 a2 3b 3b 19 00
336      1,      7508: DTE 7508 298.712311 0.065867 00 ff 01 00 a2 3b 3b 19 00
337      1,      7517: DTE 7517 298.811363 0.065754 00 ff 01 00 a2 3b 3b 19 00
338
339 Noise
340      1,      7526: DTE 7526 298.850221 0.005366 00 ff
341
342 Right-Tele_far
343      1,      7528: DTE 7528 298.910717 0.056331 00 ff 01 00 a2 3b 3b 19 00
344
345 Stop
346      1,      7537: DTE 7537 299.019833 0.075811 00 ff 01 00 00 00 00 01 00
347      1,      7546: DTE 7546 299.249964 0.196802 00 ff 01 00 00 00 00 01 00
348      1,      7555: DTE 7555 299.480146 0.196852 00 ff 01 00 00 00 00 01 00
349
350 Tele
351      1,      7564: DTE 7564 311.323957 11.810507 00 ff 01 00 20 3b 3b 97 00
352
353 Noise
354      1,      7573: DTE 7573 311.365617 0.008333 f0
355 Right-Tele
356      1,      7574: DTE 7574 311.423143 0.057526 00 ff 01 00 22 3b 3b 99 00
357      1,      7583: DTE 7583 311.522360 0.065910 00 ff 01 00 22 3b 3b 99 00
358 Right-Tele-Far-Up
359      1,      7592: DTE 7592 311.621556 0.065862 00 ff 01 00 aa 3b 3b 21 00
360      1,      7601: DTE 7601 311.720798 0.065911 00 ff 01 00 aa 3b 3b 21 00
361      1,      7610: DTE 7610 311.819967 0.065862 00 ff 01 00 aa 3b 3b 21 00
362 Right-Tele-Up
363      1,      7619: DTE 7619 311.919158 0.065860 00 ff 01 00 2a 3b 3b a1 00
364      1,      7628: DTE 7628 312.018378 0.065914 00 ff 01 00 2a 3b 3b a1 00
365      1,      7637: DTE 7637 312.117576 0.065866 00 ff 01 00 2a 3b 3b a1 00
366      1,      7646: DTE 7646 312.216815 0.065939 00 ff 01 00 2a 3b 3b a1 00
367      1,      7655: DTE 7655 312.315981 0.065860 00 ff 01 00 2a 3b 3b a1 00
368 Right-Tele-Far-Up
369      1,      7664: DTE 7664 312.416164 0.066850 00 ff 01 00 aa 3b 3b 21 00
370      1,      7673: DTE 7673 312.515383 0.065912 00 ff 01 00 aa 3b 3b 21 00
371 < over 30 identical command lines deleted here >
372      1,      7961: DTE 7961 315.689890 0.065912 00 ff 01 00 aa 3b 3b 21 00
373      1,      7970: DTE 7970 315.789058 0.065862 00 ff 01 00 aa 3b 3b 21 00
374      1,      7979: DTE 7979 315.888305 0.065917 00 ff 01 00 aa 3b 3b 21 00
375      1,      7988: DTE 7988 315.987471 0.065864 00 ff 01 00 aa 3b 3b 21 00
376
377 Noise
378      1,      7997: DTE 7997 316.030123 0.009417 fe
379
380 Tele-Far
381      1,      7998: DTE 7998 316.090681 0.060558 00 ff 01 00 a0 3b 3b 17 00
382
383 Stop
384      1,      8007: DTE 8007 316.199736 0.075733 00 ff 01 00 00 00 00 01 00
385      1,      8016: DTE 8016 316.429918 0.196853 00 ff 01 00 00 00 00 01 00
386      1,      8025: DTE 8025 316.660101 0.196853 00 ff 01 00 00 00 00 01 00
387
388 # There were a total of      8033 bytes transferred
389
390 # There were a total of          0 DCE bytes transferred
391 # The first DCE byte came in at 0.000000 seconds from the start of data collection
392 # The last DCE byte was at 0.000000 seconds from the start of data collection
393
394 # There were a total of      8033 DTE bytes transferred
395 # The first DTE byte came in at 0.000000 seconds from the start of data collection
396 # The last DTE byte was at 316.693403 seconds from the start of data collection
397

```

3.3 D Protocol commands sent by a SecuriTEST PRO with an Esprit connected

In this partial data capture⁸, note that many commands are accepted, but that many are not and that the SecuriTEST PRO seems to get “confused” when it gets replies. When it is confused, it starts to send illegal commands.

Due to the speed of the “resends”, the data gets interleaved with commands occurring at the same time as replies are being sent.

```

1  # $ Header: d:/Binder0/RCS/MsQ.L,v 1.1 2008-09-12 14:26:31-07 Hamilton Exp Hamilton $
2  # $Header: d:/Binder7/SecuriTEST/RCS/09APR27M.d,v 1.3 2009-05-01 07:12:53-07 Hamilton Exp Hamilton $
3  # Thu Apr 30 09:16:11 2009
4
5  # D Protocol, as generated by a SecuriTEST PRO, with an Esprit connected
6
7  # DCE = The SecuriTEST PRO
8  # DTE = The Esprit
9
10 # FTS capture buffer (4/27/2009 10:46:35 AM)
11 # Event 1 (4/27/2009 10:40:36.108782 AM) through
12 # Event 8,977 (4/27/2009 10:45:57.378308 AM)
13
14
15      1,          1: DCE      1      0.000000  0.000000 00 ff 01 00 00 00 01 00
16
17      2,          1: DTE     10      0.033794  0.000472 ff
18      2,          2: DTE     11      0.038127  0.004333 01
19
20      2,          10: DCE     12      0.041656  0.004333 f0
21
22      3,          3: DTE     13      0.042295  0.004333 00
23      3,          4: DTE     14      0.046461  0.004333 01
24
25      3,          11: DCE     15      0.271764  0.225303 00
26      3,          12: DCE     16      0.275926  0.004162 ff
27      3,          13: DCE     17      0.280093  0.004167 01
28      3,          14: DCE     18      0.284307  0.004214 00
29      3,          15: DCE     19      0.288427  0.004120 00
30      3,          16: DCE     20      0.292593  0.004166 00
31      3,          17: DCE     21      0.296597  0.004004 00
32      3,          18: DCE     22      0.300939  0.004342 01
33      3,          19: DCE     23      0.305092  0.004153 00
34
35      4,          5: DTE     24      0.307295  0.002203 ff 01 00 01
36
37      4,          20: DCE     28      0.501946  0.004168 00 ff 01 00 00 00 01 00
38
39      5,          9: DTE     37      0.536045  0.000770 ff
40
41      5,          29: DCE     38      0.539440  0.000770 00
42
43      6,          10: DTE     39      0.540211  0.000770 01
44
45      6,          30: DCE     40      0.543609  0.003398 ff
46
47      7,          11: DTE     41      0.544386  0.000777 00
48      7,          12: DTE     42      0.548544  0.004158 01
49
50      7,          31: DCE     43      17.267214  0.004158 00 ff 01 00 80 3b 3b f7 00
51
52      8,          13: DTE     52      17.303915  0.003374 ff 01 00 f7
53
54      8,          40: DCE     56      17.330723  0.004167 00
55      8,          41: DCE     57      17.334888  0.004165 7f
56      8,          42: DCE     58      17.339057  0.004169 11
57      8,          43: DCE     59      17.366401  0.027344 00 ff 01 00 80 3b 3b f7 00

```

⁸It was too much work to reformat the full data capture by hand. For most of this type of work, I have automated analysis software, but this data is so “mixed up” that capture data had to be “hand edited”.

```

58
59      9,      17: DTE   68      17.428501      0.028793 ff 01 00 f7
60
61      9,      52: DCE   72      17.454706      0.004166 00
62      9,      53: DCE   73      17.458755      0.004049 7f
63      9,      54: DCE   74      17.463014      0.004259 11
64      9,      55: DCE   75      17.478483      0.015469 00
65      9,      56: DCE   76      17.482651      0.004168 ff
66      9,      57: DCE   77      17.486816      0.004165 01
67      9,      58: DCE   78      17.577731      0.090915 00 ff 01 00 80 3b 3b f7 00
68      9,      67: DCE   87      17.676898      0.065864 00 ff 01 00 80 3b 3b f7 00
69
70     10,      21: DTE   96      17.713914      0.003686 ff 01 00 f7
71
72     10,      76: DCE  100      17.740489      0.004165 00
73     10,      77: DCE  101      17.744628      0.004139 7f
74     10,      78: DCE  102      17.748796      0.004168 11
75     10,      79: DCE  103      17.776140      0.027344 00
76     10,      80: DCE  104      17.780307      0.004167 ff
77     10,      81: DCE  105      17.875336      0.095029 00 ff 01 00 80 3b 3b f7 00
78     10,      90: DCE  114      17.974509      0.065869 00 ff 01 00 80 3b 3b f7 00
79
80     11,      25: DTE  123      18.009797      0.001966 ff 01 00 f7
81
82     11,      99: DCE  127      18.036035      0.004170 00
83     11,     100: DCE  128      18.040203      0.004168 7f
84     11,     101: DCE  129      18.044368      0.004165 11
85     11,     102: DCE  130      18.073745      0.029377 c0
86     11,     103: DCE  131      18.172913      0.099168 00 ff 01 00 80 3b 3b f7 00
87
88     12,      29: DTE  140      18.208498      0.002253 ff 01 00 f7
89
90     12,     112: DCE  144      18.235441      0.004167 00
91     12,     113: DCE  145      18.239604      0.004163 7f
92     12,     114: DCE  146      18.243772      0.004168 11
93     12,     115: DCE  147      18.272156      0.028384 00
94     12,     116: DCE  148      18.371326      0.099170 00 ff 01 00 80 3b 3b f7 00
95
96     13,      33: DTE  157      18.405998      0.001343 ff 01 00 f7
97
98     13,     125: DCE  161      18.432940      0.004168 00
99     13,     126: DCE  162      18.437097      0.004157 7f
100    13,     127: DCE  163      18.441245      0.004148 11
101    13,     128: DCE  164      18.470348      0.029103 c0
102    13,     129: DCE  165      18.569762      0.099414 00 ff 01 00 80 3b 3b f7 00
103
104    14,      37: DTE  174      18.604749      0.001680 ff 01 00 f7
105
106    14,     138: DCE  178      18.631132      0.004167 00
107    14,     139: DCE  179      18.635301      0.004169 7f
108    14,     140: DCE  180      18.639464      0.004163 11
109    14,     141: DCE  181      18.668929      0.029465 c0
110    14,     142: DCE  182      18.768174      0.099245 00 ff 01 00 80 3b 3b f7 00
111
112    15,      41: DTE  191      18.803497      0.002019 ff 01 00 f7
113
114    15,     151: DCE  195      18.829707      0.004166 00
115    15,     152: DCE  196      18.833877      0.004170 7f
116    15,     153: DCE  197      18.838041      0.004164 11
117    15,     154: DCE  198      18.867338      0.029297 c0
118    15,     155: DCE  199      18.966534      0.099196 00 ff 01 00 80 3b 3b f7 00
119
120    16,      45: DTE  208      19.003499      0.003661 ff 01 00 f7
121
122    16,     164: DCE  212      19.030102      0.004168 00
123    16,     165: DCE  213      19.034269      0.004167 7f
124    16,     166: DCE  214      19.038431      0.004162 11
125    16,     167: DCE  215      19.065776      0.027345 00
126    16,     168: DCE  216      19.069917      0.004141 ff
127    16,     169: DCE  217      19.164945      0.095028 00 ff 01 00 80 3b 3b f7 00
128    16,     178: DCE  226      19.264189      0.065915 00 ff 01 00 80 3b 3b f7 00
129

```

130	17,	49: DTE	235	19.298915	0.001420 ff 01 00 f7
131					
132	17,	187: DCE	239	19.325723	0.004168 00
133	17,	188: DCE	240	19.329889	0.004166 7f
134	17,	189: DCE	241	19.334057	0.004168 11
135	17,	190: DCE	242	19.363354	0.029297 c0
136	17,	191: DCE	243	19.462551	0.099197 00 ff 01 00 80 3b 3b f7 00
137					
138	18,	53: DTE	252	19.498080	0.002226 ff 01 00 f7
139					
140	18,	200: DCE	256	19.525125	0.004167 00
141	18,	201: DCE	257	19.529290	0.004165 7f
142	18,	202: DCE	258	19.533459	0.004169 11
143	18,	203: DCE	259	19.561777	0.028318 00
144	18,	204: DCE	260	19.660963	0.099186 00 ff 01 00 80 3b 3b f7 00
145					
146	19,	57: DTE	269	19.697665	0.003374 ff 01 00 f7
147					
148	19,	213: DCE	273	19.724475	0.004166 00
149	19,	214: DCE	274	19.728640	0.004165 7f
150	19,	215: DCE	275	19.732807	0.004167 11
151	19,	216: DCE	276	19.760205	0.027398 00
152	19,	217: DCE	277	19.764369	0.004164 ff
153	19,	218: DCE	278	19.859372	0.095003 00 ff 01 00 80 3b 3b f7 00
154	19,	227: DCE	287	19.958565	0.065862 00 ff 01 00 80 3b 3b f7 00
155					
156	20,	61: DTE	296	19.993081	0.001211 ff 01 00 f7
157					
158	20,	236: DCE	300	20.020152	0.004165 00
159	20,	237: DCE	301	20.024321	0.004169 7f
160	20,	238: DCE	302	20.028485	0.004164 11
161	20,	239: DCE	303	20.057782	0.029297 c0
162	20,	240: DCE	304	20.156976	0.099194 00 ff 01 00 80 3b 3b f7 00
163					
164	21,	65: DTE	313	20.192676	0.002394 ff 01 00 f7
165					
166	21,	249: DCE	317	20.219502	0.004005 00
167	21,	250: DCE	318	20.223666	0.004164 7f
168	21,	251: DCE	319	20.227834	0.004168 11
169	21,	252: DCE	320	20.256219	0.028385 00
170	21,	253: DCE	321	20.355452	0.099233 00 ff 01 00 80 3b 3b f7 00
171					
172	22,	69: DTE	330	20.394747	0.005971 ff 01 00 f7
173					
174	22,	262: DCE	334	20.421826	0.004262 00
175	22,	263: DCE	335	20.426040	0.004214 7f
176	22,	264: DCE	336	20.430202	0.004162 11
177	22,	265: DCE	337	20.454580	0.024378 00
178	22,	266: DCE	338	20.458744	0.004164 ff
179	22,	267: DCE	339	20.553632	0.094888 00 ff 01 00 80 3b 3b f7 00
180	22,	276: DCE	348	20.652999	0.065867 00 ff 01 00 80 3b 3b f7 00
181					
182	23,	73: DTE	357	20.692249	0.005951 ff 01 00 f7
183					
184	23,	285: DCE	361	20.719370	0.004167 00
185	23,	286: DCE	362	20.723450	0.004080 7f
186	23,	287: DCE	363	20.727703	0.004253 11
187	23,	288: DCE	364	20.752210	0.024507 00
188	23,	289: DCE	365	20.756377	0.004167 ff
189	23,	290: DCE	366	20.851405	0.095028 00 ff 01 00 80 3b 3b f7 00
190	23,	299: DCE	375	20.950594	0.065859 00 ff 01 00 80 3b 3b f7 00
191					
192	24,	77: DTE	384	20.991832	0.008007 ff 01 00 f7
193					
194	24,	308: DCE	388	21.018120	0.004168 00
195	24,	309: DCE	389	21.022248	0.004128 7f
196	24,	310: DCE	390	21.026428	0.004180 11
197	24,	311: DCE	391	21.049813	0.023385 00
198	24,	312: DCE	392	21.053925	0.004112 ff
199	24,	313: DCE	393	21.058145	0.004220 ff
200	24,	314: DCE	394	21.149006	0.090861 00 ff 01 00 80 3b 3b f7 00
201	24,	323: DCE	403	21.248226	0.065913 00 ff 01 00 80 3b 3b f7 00

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202
203 25,      81: DTE  412  21.283499  0.001942 ff 01 00 f7
204
205 25,      332: DCE  416  21.309812  0.004167 00
206 25,      333: DCE  417  21.313978  0.004166 7f
207 25,      334: DCE  418  21.318146  0.004168 11
208 25,      335: DCE  419  21.347418  0.029272 c0
209 25,      336: DCE  420  21.446588  0.099170 00 ff 01 00 80 3b 3b f7 00
210
211 26,      85: DTE  429  21.483082  0.003167 ff 01 00 f7
212
213 26,      345: DCE  433  21.510013  0.004166 00
214 26,      346: DCE  434  21.514318  0.004305 7f
215 26,      347: DCE  435  21.518485  0.004167 11
216 26,      348: DCE  436  21.545830  0.027345 00
217 26,      349: DCE  437  21.549995  0.004165 ff
218 26,      350: DCE  438  21.644859  0.094864 00 ff 01 00 80 3b 3b f7 00
219 26,      359: DCE  447  21.744241  0.065913 00 ff 01 00 80 3b 3b f7 00
220
221 27,      89: DTE  456  21.778916  0.001342 ff 01 00 f7
222
223 27,      368: DCE  460  21.805776  0.004167 00
224 27,      369: DCE  461  21.809943  0.004167 7f
225 27,      370: DCE  462  21.814109  0.004166 11
226 27,      371: DCE  463  21.843434  0.029325 c0
227 27,      372: DCE  464  21.953539  0.110105 00 ff 01 00 00 00 00 01 00
228
229 28,      93: DTE  473  21.988916  0.002045 ff 01 00 01
230
231 28,      381: DCE  477  22.183723  0.004167 00 ff 01 00 00 00 00 01 00
232
233 29,      97: DTE  486  22.219332  0.002305 ff 01 00 01
234
235 29,      390: DCE  490  22.413852  0.004168 00 ff 01 00 00 00 00 01 00
236
237 30,      101: DTE  499  22.451001  0.003843 ff
238
239 30,      399: DCE  500  22.451323  0.003843 00
240
241 31,      102: DTE  501  22.455166  0.003843 01
242
243 31,      400: DCE  502  22.455489  0.000323 ff
244
245 32,      103: DTE  503  22.459333  0.003844 00
246 32,      104: DTE  504  22.463500  0.004167 01
247
248 32,      401: DCE  505  33.628728  0.004167 00 ff 01 01 00 3b 3b 78 00
249
250 33,      105: DTE  514  33.663283  0.001387 ff 01 00 78
251
252 33,      410: DCE  518  33.694478  0.004155 00
253 33,      411: DCE  519  33.698645  0.004167 7f
254 33,      412: DCE  520  33.702811  0.004166 0f
255 33,      413: DCE  521  33.706977  0.004166 00
256 33,      414: DCE  522  33.728905  0.021928 00
257 33,      415: DCE  523  33.733072  0.004167 ff
258 33,      416: DCE  524  33.737238  0.004166 f9
259 33,      417: DCE  525  33.828126  0.090888 00 ff 01 01 00 3b 3b 78 00
260 33,      426: DCE  534  33.927317  0.065861 00 ff 01 01 00 3b 3b 78 00
261
262 34,      109: DTE  543  33.968452  0.007828 ff 01 00 78
263
264 34,      435: DCE  547  33.998855  0.004167 00
265 34,      436: DCE  548  34.003020  0.004165 7f
266 34,      437: DCE  549  34.007186  0.004166 0f
267 34,      438: DCE  550  34.011353  0.004167 00
268 34,      439: DCE  551  34.031396  0.020043 00
269 34,      440: DCE  552  34.035650  0.004254 ff
270 34,      441: DCE  553  34.039818  0.004168 01
271 34,      442: DCE  554  34.130677  0.090859 00 ff 01 01 00 3b 3b 78 00
272 34,      451: DCE  563  34.229923  0.065914 00 ff 01 01 00 3b 3b 78 00
273

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274	35,	113: DTE	572	34.265534	0.002473 ff 01 00 78
275					
276	35,	460: DCE	576	34.296561	0.004165 00
277	35,	461: DCE	577	34.300727	0.004166 7f
278	35,	462: DCE	578	34.304869	0.004142 0f
279	35,	463: DCE	579	34.309036	0.004167 00
280	35,	464: DCE	580	34.329087	0.020051 00
281	35,	465: DCE	581	34.333271	0.004184 ff
282	35,	466: DCE	582	34.337420	0.004149 01
283	35,	467: DCE	583	34.428284	0.090864 00 ff 01 01 00 3b 3b 78 00
284	35,	476: DCE	592	34.527500	0.065912 00 ff 01 01 00 3b 3b 78 00
285					
286	36,	117: DTE	601	34.565951	0.005118 ff 01 00 78
287					
288	36,	485: DCE	605	34.598776	0.004332 00
289	36,	486: DCE	606	34.602941	0.004165 7f
290	36,	487: DCE	607	34.607109	0.004168 0f
291	36,	488: DCE	608	34.611275	0.004166 00
292	36,	489: DCE	609	34.631640	0.020365 00
293	36,	490: DCE	610	34.635806	0.004166 ff
294	36,	491: DCE	611	34.639972	0.004166 01
295	36,	492: DCE	612	34.730864	0.090892 00 ff 01 01 00 3b 3b 78 00
296	36,	501: DCE	621	34.830054	0.065862 00 ff 01 01 00 3b 3b 78 00
297					
298	37,	121: DTE	630	34.865951	0.002592 ff 01 00 78
299					
300	37,	510: DCE	634	34.896692	0.004167 00
301	37,	511: DCE	635	34.900859	0.004167 7f
302	37,	512: DCE	636	34.905026	0.004167 0f
303	37,	513: DCE	637	34.909192	0.004166 00
304	37,	514: DCE	638	34.929296	0.020104 00
305	37,	515: DCE	639	34.933436	0.004140 ff
306	37,	516: DCE	640	34.937605	0.004169 81
307	37,	517: DCE	641	35.028466	0.090861 00 ff 01 01 00 3b 3b 78 00
308	37,	526: DCE	650	35.127657	0.065847 00 ff 01 01 00 3b 3b 78 00
309					
310	38,	125: DTE	659	35.166368	0.005406 ff 01 00 78
311					
312	38,	535: DCE	663	35.198769	0.004333 00
313	38,	536: DCE	664	35.202936	0.004167 7f
314	38,	537: DCE	665	35.207103	0.004167 0f
315	38,	538: DCE	666	35.211443	0.004340 00
316	38,	539: DCE	667	35.231822	0.020379 00
317	38,	540: DCE	668	35.235989	0.004167 ff
318	38,	541: DCE	669	35.240157	0.004168 01
319	38,	542: DCE	670	35.331018	0.090861 00 ff 01 01 00 3b 3b 78 00
320	38,	551: DCE	679	35.430235	0.065902 00 ff 01 01 00 3b 3b 78 00
321					
322	39,	129: DTE	688	35.467873	0.004306 ff 01 00 78
323					
324	39,	560: DCE	692	35.498816	0.002553 00
325	39,	561: DCE	693	35.502969	0.004153 7f
326	39,	562: DCE	694	35.507135	0.004166 0f
327	39,	563: DCE	695	35.511301	0.004166 00
328	39,	564: DCE	696	35.531438	0.020137 00
329	39,	565: DCE	697	35.535573	0.004135 ff
330	39,	566: DCE	698	35.539738	0.004165 01
331	39,	567: DCE	699	35.630655	0.090917 00 ff 01 01 00 3b 3b 78 00
332	39,	576: DCE	708	35.729822	0.066030 00 ff 01 01 00 3b 3b 78 00
333					
334	40,	133: DTE	717	35.768036	0.004885 ff 01 00 78
335					
336	40,	585: DCE	721	35.799306	0.004167 00
337	40,	586: DCE	722	35.803594	0.004288 7f
338	40,	587: DCE	723	35.807759	0.004165 0f
339	40,	588: DCE	724	35.811926	0.004167 00
340	40,	589: DCE	725	35.832030	0.020104 00
341	40,	590: DCE	726	35.836198	0.004168 ff
342	40,	591: DCE	727	35.840364	0.004166 81
343	40,	592: DCE	728	35.931200	0.090836 00 ff 01 01 00 3b 3b 78 00
344	40,	601: DCE	737	36.030448	0.065918 00 ff 01 01 00 3b 3b 78 00
345					

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346 41, 137: DTE 746 36.067618 0.003867 ff 01 00 78
347
348 41, 610: DCE 750 36.099010 0.004167 00
349 41, 611: DCE 751 36.103179 0.004169 7f
350 41, 612: DCE 752 36.107343 0.004164 0f
351 41, 613: DCE 753 36.111510 0.004167 00
352 41, 614: DCE 754 36.131589 0.020079 00
353 41, 615: DCE 755 36.135613 0.004024 ff
354 41, 616: DCE 756 36.139921 0.004308 01
355 41, 617: DCE 757 36.230783 0.090862 00 ff 01 01 00 3b 3b 78 00
356 41, 626: DCE 766 36.330000 0.065912 00 ff 01 01 00 3b 3b 78 00
357
358 42, 141: DTE 775 36.366368 0.003036 ff 01 00 78
359
360 42, 635: DCE 779 36.397604 0.004164 00
361 42, 636: DCE 780 36.401745 0.004141 7f
362 42, 637: DCE 781 36.405921 0.004176 0f
363 42, 638: DCE 782 36.410079 0.004158 00
364 42, 639: DCE 783 36.430182 0.020103 00
365 42, 640: DCE 784 36.434349 0.004167 ff
366 42, 641: DCE 785 36.438515 0.004166 01
367 42, 642: DCE 786 36.529430 0.090915 00 ff 01 01 00 3b 3b 78 00
368 42, 651: DCE 795 36.628595 0.065861 00 ff 01 01 00 3b 3b 78 00
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370 43, 145: DTE 804 36.666619 0.004857 ff 01 00 78
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372 43, 660: DCE 808 36.697162 0.004339 00
373 43, 661: DCE 809 36.701327 0.004165 7f
374 43, 662: DCE 810 36.705494 0.004167 0f
375 43, 663: DCE 811 36.709661 0.004167 00
376 43, 664: DCE 812 36.729818 0.020157 00
377 43, 665: DCE 813 36.733982 0.004164 ff
378 43, 666: DCE 814 36.738151 0.004169 81
379 43, 667: DCE 815 36.828987 0.090836 00 ff 01 01 00 3b 3b 78 00
380 43, 676: DCE 824 36.928177 0.065859 00 ff 01 01 00 3b 3b 78 00
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382 44, 149: DTE 833 36.963451 0.001966 ff 01 00 78
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384 44, 685: DCE 837 36.994765 0.004167 00
385 44, 686: DCE 838 36.998931 0.004166 7f
386 44, 687: DCE 839 37.003098 0.004167 0f
387 44, 688: DCE 840 37.007265 0.004167 00
388 44, 689: DCE 841 37.027421 0.020156 00
389 44, 690: DCE 842 37.031563 0.004142 ff
390 44, 691: DCE 843 37.035730 0.004167 01
391 44, 692: DCE 844 37.126591 0.090861 00 ff 01 01 00 3b 3b 78 00
392 44, 701: DCE 853 37.225837 0.065917 00 ff 01 01 00 3b 3b 78 00
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394 45, 153: DTE 862 37.263451 0.004312 ff 01 00 78
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396 45, 710: DCE 866 37.294402 0.004165 00
397 45, 711: DCE 867 37.298567 0.004165 7f
398 45, 712: DCE 868 37.302737 0.004170 0f
399 45, 713: DCE 869 37.306901 0.004164 00
400 45, 714: DCE 870 37.326977 0.020076 00
401 45, 715: DCE 871 37.331147 0.004170 ff
402 45, 716: DCE 872 37.335313 0.004166 01
403 45, 717: DCE 873 37.426226 0.090913 00 ff 01 01 00 3b 3b 78 00
404 45, 726: DCE 882 37.525391 0.065860 00 ff 01 01 00 3b 3b 78 00
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406 46, 157: DTE 891 37.563451 0.004726 ff 01 00 78
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408 46, 735: DCE 895 37.593959 0.004165 00
409 46, 736: DCE 896 37.598125 0.004166 7f
410 46, 737: DCE 897 37.602291 0.004166 0f
411 46, 738: DCE 898 37.606458 0.004167 00
412 46, 739: DCE 899 37.626564 0.020106 00
413 46, 740: DCE 900 37.630730 0.004166 ff
414 46, 741: DCE 901 37.634897 0.004167 01
415 46, 742: DCE 902 37.725812 0.090915 00 ff 01 01 00 3b 3b 78 00
416 46, 751: DCE 911 37.824977 0.065862 00 ff 01 01 00 3b 3b 78 00
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422	47,	762:	DCE	926	37.902918	0.004168 0f
423	47,	763:	DCE	927	37.907084	0.004166 00
424	47,	764:	DCE	928	37.927190	0.020106 00
425	47,	765:	DCE	929	37.931354	0.004164 ff
426	47,	766:	DCE	930	37.935522	0.004168 81
427	47,	767:	DCE	931	38.026359	0.090837 00 ff 01 01 00 3b 3b 78 00
428	47,	776:	DCE	940	38.135497	0.075810 00 ff 01 00 00 00 00 01 00
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442	51,	174:	DTE	977	38.637201	0.003911 01
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446	52,	175:	DTE	979	38.641368	0.003886 00
447	52,	176:	DTE	980	38.645535	0.004167 01
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449	52,	805:	DCE	981	50.896846	0.004167 00 ff 01 00 20 3b 3b 97 00
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451	53,	177:	DTE	990	50.931740	0.001476 ff 01 00 97
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453	53,	814:	DCE	994	50.958467	0.004168 00
454	53,	815:	DCE	995	50.962633	0.004166 7f
455	53,	816:	DCE	996	50.966811	0.004178 d1
456	53,	817:	DCE	997	50.996176	0.029365 c0
457	53,	818:	DCE	998	51.095346	0.099170 00 ff 01 00 20 3b 3b 97 00
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459	54,	181:	DTE	1007	51.157987	0.029312 ff 01 00 97
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464	54,	830:	DCE	1014	51.213364	0.020339 00
465	54,	831:	DCE	1015	51.217363	0.003999 ff
466	54,	832:	DCE	1016	51.221697	0.004334 01
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474	55,	853:	DCE	1041	51.483701	0.004165 d1
475	55,	854:	DCE	1042	51.511020	0.027319 00
476	55,	855:	DCE	1043	51.515186	0.004166 ff
477	55,	856:	DCE	1044	51.610216	0.095030 00 ff 01 00 20 3b 3b 97 00
478	55,	865:	DCE	1053	51.709383	0.065865 00 ff 01 00 20 3b 3b 97 00
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480	56,	189:	DTE	1062	51.749654	0.006941 ff 01 00 97
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482	56,	874:	DCE	1066	51.775967	0.004156 00
483	56,	875:	DCE	1067	51.780135	0.004168 7f
484	56,	876:	DCE	1068	51.784301	0.004166 d1
485	56,	877:	DCE	1069	51.808624	0.024323 00
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487	56,	879:	DCE	1071	51.907818	0.095026 00 ff 01 00 20 3b 3b 97 00
488	56,	888:	DCE	1080	52.007036	0.065912 00 ff 01 00 20 3b 3b 97 00
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490 57, 193: DTE 1089 52.095904 0.055536 ff
491 57, 194: DTE 1090 52.100069 0.004165 01
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494 57, 897: DCE 1092 52.106229 0.004168 00
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496 58, 196: DTE 1093 52.108413 0.004168 97
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498 58, 898: DCE 1094 52.110395 0.001982 ff 01 00 20 3b 3b 97 00
499 59, 197: DTE 1102 52.142153 0.002618 ff
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501 59, 906: DCE 1103 52.143702 0.002618 00
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503 60, 198: DTE 1104 52.146320 0.002618 01
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505 60, 907: DCE 1105 52.147869 0.001549 ff
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507 61, 199: DTE 1106 52.150487 0.002618 00
508 61, 200: DTE 1107 52.154652 0.004165 97
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513 62, 201: DTE 1126 52.364653 0.026707 ff 01 00 97
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516 62, 927: DCE 1131 52.395136 0.004167 7f
517 62, 928: DCE 1132 52.399135 0.003999 d1
518 62, 929: DCE 1133 52.419692 0.020557 00
519 62, 930: DCE 1134 52.423859 0.004167 ff
520 62, 931: DCE 1135 52.428024 0.004165 01
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524 63, 205: DTE 1154 52.660072 0.008636 ff 01 00 97
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526 63, 950: DCE 1158 52.686406 0.004167 00
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528 63, 952: DCE 1160 52.694734 0.004166 d1
529 63, 953: DCE 1161 52.717297 0.022563 00
530 63, 954: DCE 1162 52.721463 0.004166 ff
531 63, 955: DCE 1163 52.725632 0.004169 f9
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535 64, 209: DTE 1182 52.955903 0.006861 ff 01 00 97
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537 64, 974: DCE 1186 52.982193 0.004167 00
538 64, 975: DCE 1187 52.986358 0.004165 7f
539 64, 976: DCE 1188 52.990525 0.004167 d1
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541 64, 978: DCE 1190 53.019066 0.004166 ff
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545 65, 213: DTE 1209 53.275488 0.028869 ff 01 00 97
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549 65, 999: DCE 1215 53.309979 0.004143 d1
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551 65, 1001: DCE 1217 53.334562 0.004219 ff
552 65, 1002: DCE 1218 53.338727 0.004165 81
553 65, 1003: DCE 1219 53.429589 0.090862 00 ff 01 00 20 3b 3b 97 00
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556 66, 217: DTE 1237 53.572154 0.010053 ff 01 00 97
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558 66, 1021: DCE 1241 53.600186 0.004166 00
559 66, 1022: DCE 1242 53.604355 0.004169 7f
560 66, 1023: DCE 1243 53.608519 0.004164 d1
561 66, 1024: DCE 1244 53.628990 0.020471 00

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579	69,	223: DTE	1273	53.950071	0.002671 00
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617	76,	1072: DCE	1304	54.158312	0.004168 00
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624	76,	1079: DCE	1311	54.240838	0.004167 20
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630	77,	1082: DCE	1315	54.253339	0.002491 97
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632	78,	234: DTE	1316	54.255904	0.002491 01
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640	79,	1085: DCE	1321	54.282974	0.004165 7f
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647	80,	1106: DCE	1346	54.464250	0.004166 ff
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692	85,	1167: DCE	1419	55.232092	0.065864 00 ff 01 00 20 3b 3b 97 00
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700	86,	1180: DCE	1436	55.342400	0.004165 ff
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711      88,      1209: DCE  1473  55.875920  0.004168 00 ff 01 00 00 00 01 00
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713      89,      265:  DTE  1482  55.910904  0.001681 ff 01 00 01
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716      89,      1227: DCE  1495  56.143572  0.004165 00
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718      90,      269:  DTE  1496  56.147572  0.004000 ff
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720      90,      1228: DCE  1497  56.147580  0.004000 ff
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722      91,      270:  DTE  1498  56.151739  0.004000 01
723      91,      271:  DTE  1499  56.155905  0.004000 00
724      91,      272:  DTE  1500  56.160071  0.004000 01
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726      91,      1229: DCE  1501  68.320925  12.160854 00 ff 01 00 40 3b 3b b7 00
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728      92,      273:  DTE  1510  68.358799  0.004572 ff 01 00 b7
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732      92,      1240: DCE  1516  68.394905  0.004168 91
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742      93,      1271: DCE  1551  68.841909  0.004165 3b
743      93,      1272: DCE  1552  68.846078  0.004169 b7
744      93,      1273: DCE  1553  68.850243  0.004165 00
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746      94,      281:  DTE  1554  68.910025  0.059782 ff
747      94,      282:  DTE  1555  68.914190  0.004165 01
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749      94,      1274: DCE  1556  68.916102  0.004165 00
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867	115,	1387: DCE	1699	70.114477	0.065866 00
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870	116,	313: DTE	1701	70.122106	0.003425 ff
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893	121,	318: DTE	1714	70.155857	0.003867 01
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897	122,	319: DTE	1716	70.160024	0.003869 00
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920	126,	328: DTE	1755	70.522523	0.003071 b7
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923	126,	1429: DCE	1757	70.527951	0.004226 40
924	126,	1430: DCE	1758	70.532118	0.004167 3b
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927	126,	1433: DCE	1761	70.544620	0.004217 00
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929	126,	1435: DCE	1763	70.552952	0.004167 ff
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931	127,	329: DTE	1764	70.579191	0.026239 ff 01 00 b7
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