

Running FTS Software

18 April 2005

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Note

1. In all of the following sample outputs/inputs the actual file has been edited. This has been done to change the format of the RCS keywords by adding a blank (“`␣`”) after the leading dollar sign (“`$`”).
2. All comments, lines beginning with a per-cent sign “`%`”, have been deleted in the examples to save paper.

¹\$Header: d:/txb-p/Captures/RCS/RunFTS.tex,v 1.1 2005-04-18 07:05:44-07 Hamilton Exp Hamilton \$
²tocdepth = 2

1 How to save serial communications data

1.1 How to save data with FTS

Utilizing the new asynchronous data capture program from FrontLine Test Systems' named "Serialtest Async" requires that it be set up as follows to capture data from a Panasonic WV-CU161 keyboard in RS-485 four wire mode:

1. Configuration: Monitor Both 19200,N,8,1 19200,N,8,1 DTE=COM4, DCE=COM5
2. Capture file:E:\Capture\test, or where ever you want to put it.
3. Bit Order: LSB first (normal)
4. Hardware Settings: Use FTS Cables
5. System Settings: Wrap Buffer is selected
6. System Settings: Capture Buffer Size (in K): 2052
7. System Settings: File Size (in K): 4102
8. Program Start Up Options: Prompt for a filename, then immediately start capturing.
9. Advanced System Options: <all at defaults>

After getting every thing turned on, click on the correct Icon, fool around a bit and then select "Live: Start Capture to Disk..."

To output the captured data:

1. Export Events...
2. Apply Template: Sample Events
3. Displayed Fields: Side Timestamp Hexadecimal
4. Text Output
5. Separate Records With CR/LF
6. Output Header
7. Output Field Name Record
8. Align Field Names With Data
9. Timestamp Format: Native

³\$Header: d:/txb-p/Captures/RCS/FtsSave.inc,v 1.2 2005-02-17 12:26:13-08 Hamilton Exp Hamilton
\$

- 10. Character Set: ASCII
- 11. Signals Characters: 1/0
- 12. Errors Characters: X/<sp>
- 13. Field Delimiter: Space
- 14. Filter Out: Neither Side
- 15. Export: Entire Buffer
- 16. As: Serialtest Async Events.txt or other name of your choice

1.1.1 Input Data Format

The capture data must be saved with the following fields in the following order:

- 1. **Date/Time:** "8/26/2004_12:06:35.060_PM"
- 2. **Data:** "02"

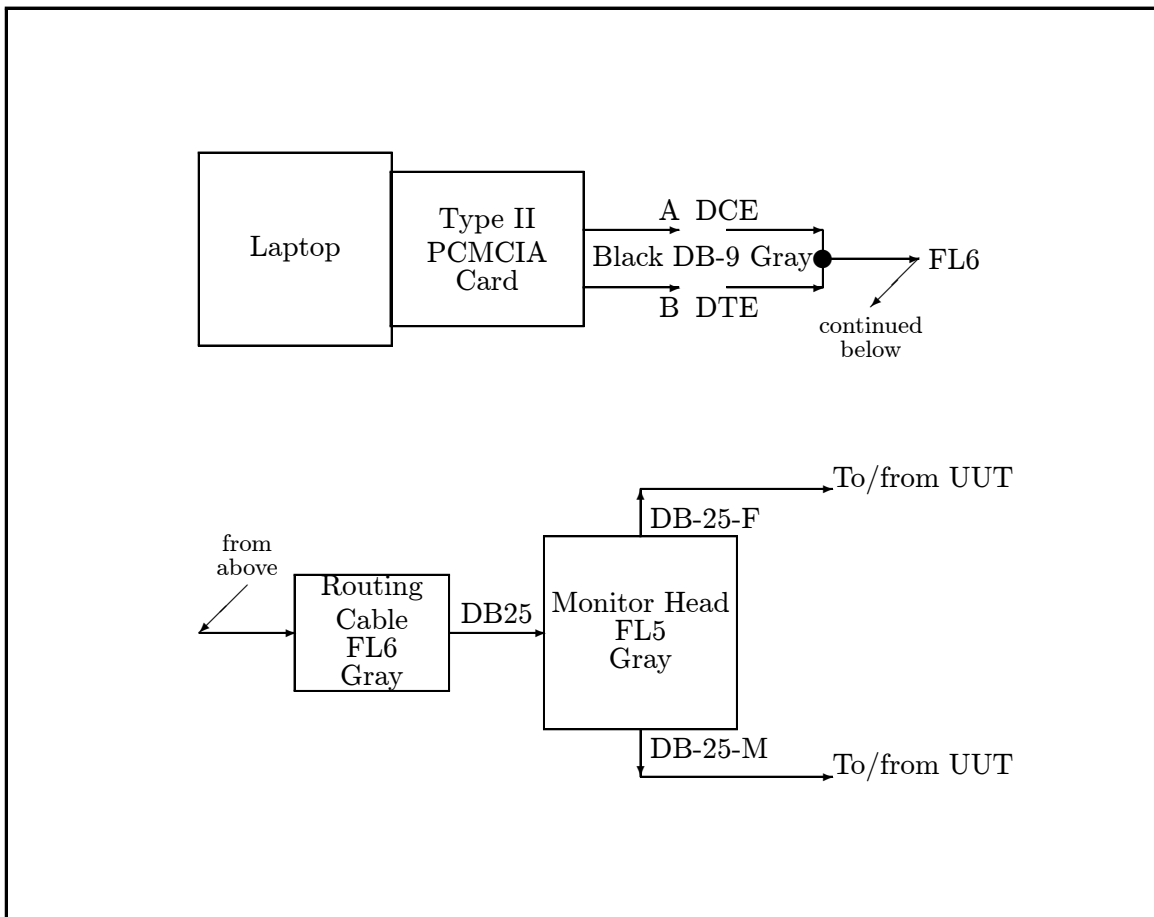
Typical first few lines of the capture file **must** be as follows:

```

1 FTS capture file: E:\Capture\newtest.cfa (8/26/2004 12:34:27 PM)
2 Event 1 (8/26/2004 12:06:06.434 PM) through
3 Event 30,910 (8/26/2004 12:32:44.595 PM)
4
5 Timestamp                Hx
6 8/26/2004 12:06:06.434 PM
7 8/26/2004 12:06:35.060 PM 02
8 8/26/2004 12:06:35.060 PM 41
9 8/26/2004 12:06:35.060 PM 44
10 8/26/2004 12:06:35.060 PM 30
11 8/26/2004 12:06:35.060 PM 31
12 8/26/2004 12:06:35.060 PM 3b
13 8/26/2004 12:06:35.060 PM 52
14 8/26/2004 12:06:35.066 PM 4f
15 8/26/2004 12:06:35.066 PM 4e
16 8/26/2004 12:06:35.066 PM 3a
17 8/26/2004 12:06:35.066 PM 30
18 8/26/2004 12:06:35.066 PM 03
19 8/26/2004 12:06:35.106 PM 02
20 8/26/2004 12:06:35.106 PM 41
21 8/26/2004 12:06:35.106 PM 44
22 8/26/2004 12:06:35.106 PM 30
23 8/26/2004 12:06:35.112 PM 31
24 8/26/2004 12:06:35.112 PM 3b

```

⁴\$Header: d:/txb-p/Captures/RCS/InterCnt.inc,v 1.1 2005-02-17 12:15:22-08 Hamilton Exp Hamilton
\$



\$RCSfile: InterCnt.inc,v \$

Figure 1. Connections for use with FrontLine Systems' version of Breakout[intercnt]

```
25 8/26/2004 12:06:35.112 PM 47
26 8/26/2004 12:06:35.112 PM 43
27 8/26/2004 12:06:35.112 PM 37
28 8/26/2004 12:06:35.112 PM 3a
29 8/26/2004 12:06:35.112 PM 32
30 8/26/2004 12:06:35.112 PM 30
31 8/26/2004 12:06:35.112 PM 32
32 8/26/2004 12:06:35.112 PM 30
33 8/26/2004 12:06:35.112 PM 30
34 8/26/2004 12:06:35.112 PM 30
35 8/26/2004 12:06:35.119 PM 30
36 8/26/2004 12:06:35.119 PM 03
37 8/26/2004 12:06:36.141 PM 02
38 8/26/2004 12:06:36.141 PM 41
39 8/26/2004 12:06:36.148 PM 44
40 8/26/2004 12:06:36.148 PM 30
41 8/26/2004 12:06:36.148 PM 31
42 8/26/2004 12:06:36.148 PM 3b
43 8/26/2004 12:06:36.148 PM 47
44 8/26/2004 12:06:36.148 PM 43
45 8/26/2004 12:06:36.148 PM 37
46 8/26/2004 12:06:36.148 PM 3a
47 8/26/2004 12:06:36.148 PM 32
48 8/26/2004 12:06:36.148 PM 30
49 8/26/2004 12:06:36.148 PM 32
50 8/26/2004 12:06:36.154 PM 30
51 8/26/2004 12:06:36.154 PM 30
52 8/26/2004 12:06:36.154 PM 32
53 8/26/2004 12:06:36.154 PM 30
54 8/26/2004 12:06:36.154 PM 03
55 8/26/2004 12:06:37.177 PM 02
56 8/26/2004 12:06:37.177 PM 41
57 8/26/2004 12:06:37.177 PM 44
58 8/26/2004 12:06:37.177 PM 30
59 8/26/2004 12:06:37.177 PM 31
60 8/26/2004 12:06:37.183 PM 3b
```

An alternate file format is:

```
1 DTE 00:00.000 02
2 DTE 00:00.000 41
3 DTE 00:00.000 44
4 DTE 00:00.000 30
5 DTE 00:00.000 31
6 DTE 00:00.000 3b
7 DTE 00:00.000 52
8 DTE 00:00.000 4f
9 DTE 00:00.000 4e
10 DTE 00:00.000 3a
11 DTE 00:00.000 30
12 DTE 00:00.000 03
13 DCE 00:00.001 06
```

```
14 DCE 00:00.001 02
15 DCE 00:00.001 41
16 DCE 00:00.001 44
17 DCE 00:00.001 30
18 DCE 00:00.001 31
19 DCE 00:00.001 3b
20 DCE 00:00.001 52
21 DCE 00:00.001 4f
22 DCE 00:00.001 4e
23 DCE 00:00.001 03
24 DTE 00:00.002 02
25 DTE 00:00.002 41
26 DTE 00:00.002 44
27 DTE 00:00.002 30
28 DTE 00:00.002 31
29 DTE 00:00.002 3b
30 DTE 00:00.002 47
31 DTE 00:00.002 43
32 DTE 00:00.002 37
33 DTE 00:00.002 3a
34 DTE 00:00.002 32
35 DTE 00:00.002 30
36 DTE 00:00.002 32
37 DTE 00:00.002 30
38 DTE 00:00.002 30
39 DTE 00:00.002 30
40 DTE 00:00.002 30
41 DTE 00:00.002 03
42 DCE 00:00.003 06
```

1.2 Saving Oscilloscope Pictures

With a Tektronix TDS220 (and other similar Tektronix Oscilloscopes) configure the printer port as follows:

1. Hard Copy Setup:
 - 1.1. LAYOUT Portrait
 - 1.2. FORMAT EPSIMAGE
 - 1.3. PORT RS232
2. RS-232 setup:
 - 2.1. BAUD 19,200
 - 2.2. FLOW CONTROL None
 - 2.3. EOL STRING CR/LF
 - 2.4. PARITY None
3. Computer setup.
 - 3.1. Boot the computer into “real DOS” not “DOS in a window” if using Kermit to collect data.
 - 3.2. On the computer set it up to receive serial data.
 - 3.3. Use a “null modem” or “Laplink” type cable to connect the two together.
 - 3.4. Using this configuration, it will take 1 to 2 minuets to transfer the data from the oscilloscope to the picture.

⁵\$Header: d:/txb-p/Captures/RCS/ScopeSav.inc,v 1.2 2004-12-01 10:20:34-08 Hamilton Exp Hamilton
\$

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