

Document Title : Using IRIG-B to synchronize multiple independent CH10 Bus Monitors

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Introduction : This document explains the general procedure to synchronise multiple Chapter 10 Bus Monitors using IRIG-B time code. It is accompanied by a sample demo application, [mti_irig_demo.c](#) that demonstrates this procedure.

Pre-requisites :

- a. DDC's AceXtreme 'C' SDK for Linux BU-69092S1-110 v4.9.5.
- b. Any DDC 1553 board supporting IRIG-B PWM/Digital Input
- c. An IRIG-B Time Packet Generator. DDC's BU-67x10i/F boards can generate IRIG-B packets and so may be used as a source in addition to being used as a monitor itself.

Theory : Every IRIG 106 CH10 Bus Monitor consists of a 10MHz clock which is used to time tag monitored 1553 messages. This Relative Time Counter (RTC) is 48-bits wide. When traffic is monitored by multiple, independent Bus Monitors, the time tag attached to a received message on each of these monitors will be different because the RTC on each monitor is not synchronized with the others. Therefore, it is not possible to say what one monitor captured at the same time as another monitor. To solve this problem, IRIG-B is used to generate a common time reference for all the monitors.

IRIG-B packets are transmitted by a source once every second and contain, amongst many, the following information – Year, Month, Day, Hour, Minute, Seconds, Hundred if Milli Seconds and Tens of Milliseconds, all in BCD format.

IRIG 106 CH10 compliant Bus Monitors generate CH10 Data Packets as well as CH10 Time Packets. Each of these has the value of the RTC recorded at the time of packet creation. By combining the RTC values with the absolute time received on IRIG-B, it is possible to generate absolute time stamps for the 1553 messages.

Test Setup :

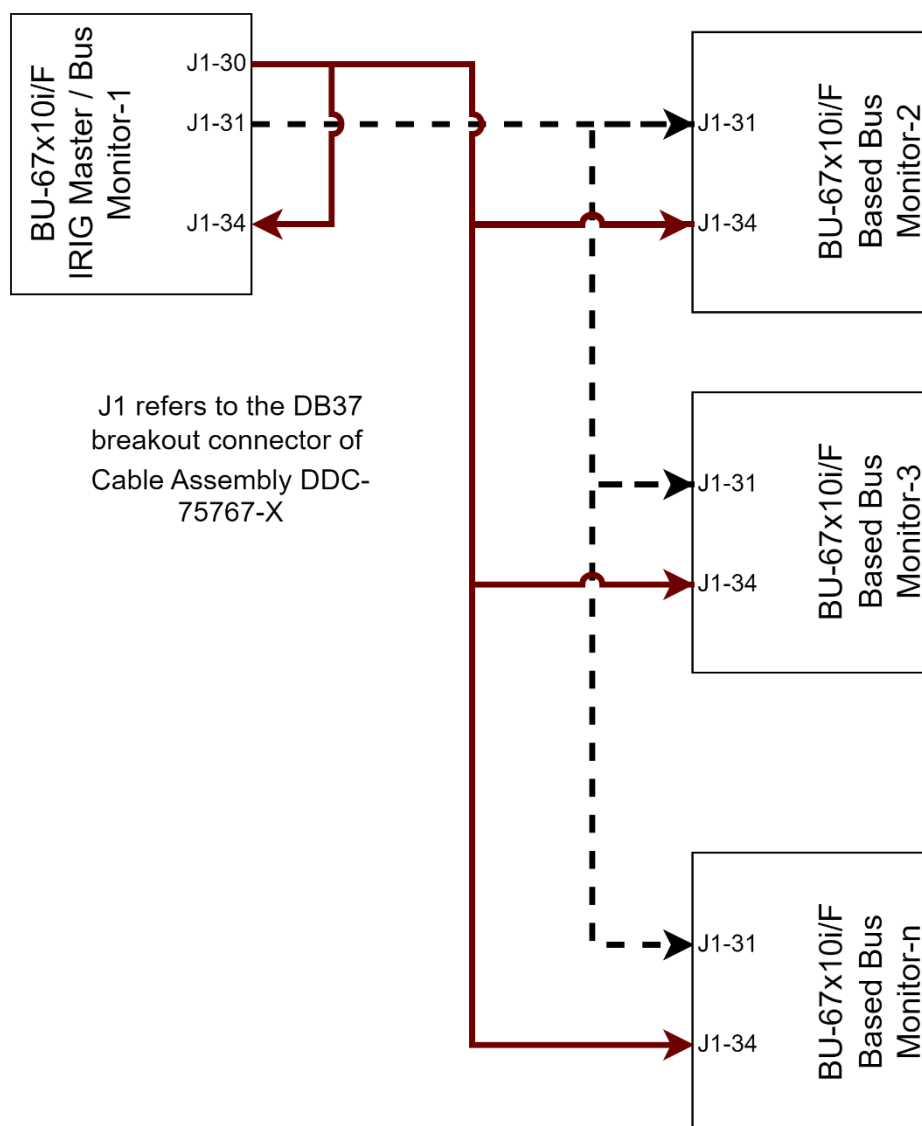
This section describes the connections needed when using BU-67x10i/F 1553 boards from DDC, to test the [mti_irig_demo.c](#) sample as well as other prerequisites. One out of these boards is used as an IRIG-B time source since this board can generate IRIG-B packets as well as receiving them.

Software Patch for BU-69092S1 v4.9.5 (AceXtreme SDK for Linux)

The AceXtreme SDK for Linux v4.9.5 has a bug that must be fixed for this demo to work. Replace the definition of macro GET_MTI_CH10_TIME_PKT_TIME_CNTR_POINTER in file `../libraries/emacepl/src/mtiop.h` line 254 with the following:

```
#define GET_MTI_CH10_TIME_PKT_TIME_CNTR_POINTER(pPkt) (((U16BIT*)pPkt) + (U16BIT)((4*sizeof(U16BIT) + 2*sizeof(U32BIT))>> 1))
```

After the above fix, compile and build mti_irig_demo.c



Procedure :

- 1) Prepare setup as in Figure-1. The figure shows four BU-67x10i/F boards. Of these the first one is used not only as a Bus Monitor but also an IRIG-B generator. J1-30 is the pin for IRIG-B Digital Out. This is connected to the IRIG-B input of the same board as well as that of the other boards (J1-34). J1-31 is the GND pin for IRIG-B signal. For simplicity, MIL-STD-1553 connections are not shown in the setup.
- 2) On each of these Bus Monitors run *mti_irig_demo*. This sample may be downloaded from [here](#). The sample requests the Logical Device Number of the 1553 channel to be monitored. It also requests the IDs for CH10 which may be entered as zeroes in all the monitors. Further, it asks if the IRIG transmitter be turned ON. Select YES for this only on the IRIG Master computer and NO on the others. The sample now awaits 1553 Bus Traffic.
- 3) Connect a 1553 Bus Controller to the same bus as the four Bus Monitors shown in Figure 1 and schedule messages. Observe "Absolute Time" printed for all the messages in all the four

monitors and you should find them all reporting the same absolute time to an accuracy of +/- 10uS.

- 4) A sample output is provided here for reference for a setup in which the BC transmitted 100 messages. The output is for a Bus Monitor that is NOT used as a IRIG-B master. Notice the print starting with "*** Global Time". The end of this line shows the source for the time as either "Internal" or "External (IRIG)". For a setup that is working well, the source must be displayed as "External (IRIG)"

```
-----
[root@fedora bin]#
[root@fedora bin]#
[root@fedora bin]# ./mti_irig_demo
*****
BU-69092 1553 Runtime Library          *
Release Rev 4.9.5                      *
-----INTERIM VERSION-----*
Copyright (c) 2025 RTips Technologies  *
*****
mti_irig_demo.c : IRIG-B time synchronisation demo *
*****
```

Connect a IRIG-B source to the 1553 board for time sync to work

Select MTi Logical Device Number (0-31):
> 0

Input Ch10 Data channel ID:
> 0

Input Ch10 IRIG channel ID:
> 0

MTi Demo launched on channel 0 with no data wait time delay

Start IRIG-B transmitter (0 = No, 1 = Yes): 0

```
*** Global Time=2009060504471200, 06/05/2009, H:M:S=04:47:12:00, Relative Time
Cntr=4416638, (delta=4416638), Source: Internal
Dev-0: No pkts read in the last 10 seconds.
Dev-0: No pkts read in the last 10 seconds.
```

```
[Time Pkt RTC=00000043647E, Data Pkt RTC=00000CAB3A28, Intra Pkt TT=00000CAB3A28]
MSG# 0000000: Abs Time 06/05/2009, H:M:S:ms.us=04:47:12:20813.150
BSW:0x9300 GAP:0x0000 LEN:0x16 ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
*** Global Time=2009060504473200, 06/05/2009, H:M:S=04:47:32:00, Relative Time
Cntr=204374586, (delta=199957948), Source: External (IRIG)
```

```
[Time Pkt RTC=00000C2E823A, Data Pkt RTC=00000CBA7C85, Intra Pkt TT=00000CBA7C85]
MSG# 0000001: Abs Time 06/05/2009, H:M:S:ms.us=04:47:32:917.358
BSW:0x9300 GAP:0x0000 LEN:0x16 ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000C2E823A, Data Pkt RTC=00000CBA7C85, Intra Pkt TT=00000CC9BEC5]
MSG# 0000002: Abs Time 06/05/2009, H:M:S:ms.us=04:47:32:1017.358
```

```
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
*** Global Time=2009060504473300, 06/05/2009, H:M:S=04:47:33:00, Relative Time
Cntr=214374607, (delta=10000021), Source: External (IRIG)
```

```
[Time Pkt RTC=00000CC718CF, Data Pkt RTC=00000CD90105, Intra Pkt TT=00000CD90105]
MSG# 0000003: Abs Time 06/05/2009, H:M:S.ms.us=04:47:33:117.356
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000CC718CF, Data Pkt RTC=00000CD90105, Intra Pkt TT=00000CE84345]
MSG# 0000004: Abs Time 06/05/2009, H:M:S.ms.us=04:47:33:217.356
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000CC718CF, Data Pkt RTC=00000CF78585, Intra Pkt TT=00000CF78585]
MSG# 0000005: Abs Time 06/05/2009, H:M:S.ms.us=04:47:33:317.356
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000CC718CF, Data Pkt RTC=00000CF78585, Intra Pkt TT=00000D06C7C5]
MSG# 0000006: Abs Time 06/05/2009, H:M:S.ms.us=04:47:33:417.356
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000CC718CF, Data Pkt RTC=00000D160A05, Intra Pkt TT=00000D160A05]
MSG# 0000007: Abs Time 06/05/2009, H:M:S.ms.us=04:47:33:517.356
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000CC718CF, Data Pkt RTC=00000D160A05, Intra Pkt TT=00000D254C45]
MSG# 0000008: Abs Time 06/05/2009, H:M:S.ms.us=04:47:33:617.356
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000CC718CF, Data Pkt RTC=00000D348E85, Intra Pkt TT=00000D348E85]
MSG# 0000009: Abs Time 06/05/2009, H:M:S.ms.us=04:47:33:717.356
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000CC718CF, Data Pkt RTC=00000D348E85, Intra Pkt TT=00000D43D0C5]
MSG# 0000010: Abs Time 06/05/2009, H:M:S.ms.us=04:47:33:817.356
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000CC718CF, Data Pkt RTC=00000D531305, Intra Pkt TT=00000D531305]
MSG# 0000011: Abs Time 06/05/2009, H:M:S.ms.us=04:47:33:917.356
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000CC718CF, Data Pkt RTC=00000D531305, Intra Pkt TT=00000D625545]
MSG# 0000012: Abs Time 06/05/2009, H:M:S:ms.us=04:47:33:1017.356
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
*** Global Time=2009060504473400, 06/05/2009, H:M:S=04:47:34:00, Relative Time
Cntr=224424607, (delta=10050000), Source: Internal
```

```
[Time Pkt RTC=00000D60729F, Data Pkt RTC=00000D719785, Intra Pkt TT=00000D719785]
MSG# 0000013: Abs Time 06/05/2009, H:M:S:ms.us=04:47:34:112.356
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000D60729F, Data Pkt RTC=00000D719785, Intra Pkt TT=00000D80D9C5]
MSG# 0000014: Abs Time 06/05/2009, H:M:S:ms.us=04:47:34:212.356
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000D60729F, Data Pkt RTC=00000D901C05, Intra Pkt TT=00000D901C05]
MSG# 0000015: Abs Time 06/05/2009, H:M:S:ms.us=04:47:34:312.356
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000D60729F, Data Pkt RTC=00000D901C05, Intra Pkt TT=00000D9F5E45]
MSG# 0000016: Abs Time 06/05/2009, H:M:S:ms.us=04:47:34:412.356
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000D60729F, Data Pkt RTC=00000DAEA085, Intra Pkt TT=00000DAEA085]
MSG# 0000017: Abs Time 06/05/2009, H:M:S:ms.us=04:47:34:512.356
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000D60729F, Data Pkt RTC=00000DAEA085, Intra Pkt TT=00000DBDE2C5]
MSG# 0000018: Abs Time 06/05/2009, H:M:S:ms.us=04:47:34:612.356
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000D60729F, Data Pkt RTC=00000DCD2505, Intra Pkt TT=00000DCD2505]
MSG# 0000019: Abs Time 06/05/2009, H:M:S:ms.us=04:47:34:712.356
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000D60729F, Data Pkt RTC=00000DCD2505, Intra Pkt TT=00000DDC6745]
MSG# 0000020: Abs Time 06/05/2009, H:M:S:ms.us=04:47:34:812.356
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000D60729F, Data Pkt RTC=00000DEBA985, Intra Pkt TT=00000DEBA985]
MSG# 0000021: Abs Time 06/05/2009, H:M:S:ms.us=04:47:34:912.356
```

```
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000D60729F, Data Pkt RTC=00000DEBA985, Intra Pkt TT=00000DFAEBC5]
MSG# 0000022: Abs Time 06/05/2009, H:M:S.ms.us=04:47:34:1012.356
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
*** Global Time=2009060504473500, 06/05/2009, H:M:S=04:47:35:00, Relative Time
Cntr=234374650, (delta=9950043), Source: External (IRIG)
```

```
[Time Pkt RTC=00000DF845FA, Data Pkt RTC=00000E0A2E05, Intra Pkt TT=00000E0A2E05]
MSG# 0000023: Abs Time 06/05/2009, H:M:S.ms.us=04:47:35:117.352
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000DF845FA, Data Pkt RTC=00000E0A2E05, Intra Pkt TT=00000E197045]
MSG# 0000024: Abs Time 06/05/2009, H:M:S.ms.us=04:47:35:217.352
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000DF845FA, Data Pkt RTC=00000E28B285, Intra Pkt TT=00000E28B285]
MSG# 0000025: Abs Time 06/05/2009, H:M:S.ms.us=04:47:35:317.352
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000DF845FA, Data Pkt RTC=00000E28B285, Intra Pkt TT=00000E37F4C5]
MSG# 0000026: Abs Time 06/05/2009, H:M:S.ms.us=04:47:35:417.352
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000DF845FA, Data Pkt RTC=00000E473705, Intra Pkt TT=00000E473705]
MSG# 0000027: Abs Time 06/05/2009, H:M:S.ms.us=04:47:35:517.352
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000DF845FA, Data Pkt RTC=00000E473705, Intra Pkt TT=00000E567945]
MSG# 0000028: Abs Time 06/05/2009, H:M:S.ms.us=04:47:35:617.352
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000DF845FA, Data Pkt RTC=00000E65BB85, Intra Pkt TT=00000E65BB85]
MSG# 0000029: Abs Time 06/05/2009, H:M:S.ms.us=04:47:35:717.352
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000DF845FA, Data Pkt RTC=00000E65BB85, Intra Pkt TT=00000E74FDC5]
MSG# 0000030: Abs Time 06/05/2009, H:M:S.ms.us=04:47:35:817.352
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=0000DF845FA, Data Pkt RTC=0000E844005, Intra Pkt TT=0000E844005]
MSG# 0000031: Abs Time 06/05/2009, H:M:S.ms.us=04:47:35:917.352
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=0000DF845FA, Data Pkt RTC=0000E844005, Intra Pkt TT=0000E938245]
MSG# 0000032: Abs Time 06/05/2009, H:M:S.ms.us=04:47:35:1017.352
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
*** Global Time=2009060504473600, 06/05/2009, H:M:S=04:47:36:00, Relative Time
Cntr=244374671, (delta=1000021), Source: External (IRIG)
```

```
[Time Pkt RTC=0000E90DC8F, Data Pkt RTC=0000EA2C485, Intra Pkt TT=0000EA2C485]
MSG# 0000033: Abs Time 06/05/2009, H:M:S.ms.us=04:47:36:117.349
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=0000E90DC8F, Data Pkt RTC=0000EA2C485, Intra Pkt TT=0000EB206C5]
MSG# 0000034: Abs Time 06/05/2009, H:M:S.ms.us=04:47:36:217.349
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=0000E90DC8F, Data Pkt RTC=0000EC14905, Intra Pkt TT=0000EC14905]
MSG# 0000035: Abs Time 06/05/2009, H:M:S.ms.us=04:47:36:317.349
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=0000E90DC8F, Data Pkt RTC=0000EC14905, Intra Pkt TT=0000ED08B45]
MSG# 0000036: Abs Time 06/05/2009, H:M:S.ms.us=04:47:36:417.349
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=0000E90DC8F, Data Pkt RTC=0000EDFCD85, Intra Pkt TT=0000EDFCD85]
MSG# 0000037: Abs Time 06/05/2009, H:M:S.ms.us=04:47:36:517.349
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=0000E90DC8F, Data Pkt RTC=0000EDFCD85, Intra Pkt TT=0000EEF0FC5]
MSG# 0000038: Abs Time 06/05/2009, H:M:S.ms.us=04:47:36:617.349
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=0000E90DC8F, Data Pkt RTC=0000EFE5205, Intra Pkt TT=0000EFE5205]
MSG# 0000039: Abs Time 06/05/2009, H:M:S.ms.us=04:47:36:717.349
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=0000E90DC8F, Data Pkt RTC=0000EFE5205, Intra Pkt TT=0000F0D9445]
MSG# 0000040: Abs Time 06/05/2009, H:M:S.ms.us=04:47:36:817.349
```

```
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000E90DC8F, Data Pkt RTC=00000F1CD685, Intra Pkt TT=00000F1CD685]
MSG# 0000041: Abs Time 06/05/2009, H:M:S:ms.us=04:47:36:917.349
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000E90DC8F, Data Pkt RTC=00000F1CD685, Intra Pkt TT=00000F2C18C5]
MSG# 0000042: Abs Time 06/05/2009, H:M:S:ms.us=04:47:36:1017.349
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
*** Global Time=2009060504473700, 06/05/2009, H:M:S=04:47:37:00, Relative Time
Cntr=254374692, (delta=10000021), Source: External (IRIG)
```

```
[Time Pkt RTC=00000F297324, Data Pkt RTC=00000F3B5B05, Intra Pkt TT=00000F3B5B05]
MSG# 0000043: Abs Time 06/05/2009, H:M:S:ms.us=04:47:37:117.347
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000F297324, Data Pkt RTC=00000F3B5B05, Intra Pkt TT=00000F4A9D45]
MSG# 0000044: Abs Time 06/05/2009, H:M:S:ms.us=04:47:37:217.347
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000F297324, Data Pkt RTC=00000F59DF85, Intra Pkt TT=00000F59DF85]
MSG# 0000045: Abs Time 06/05/2009, H:M:S:ms.us=04:47:37:317.347
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000F297324, Data Pkt RTC=00000F59DF85, Intra Pkt TT=00000F6921C5]
MSG# 0000046: Abs Time 06/05/2009, H:M:S:ms.us=04:47:37:417.347
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000F297324, Data Pkt RTC=00000F786405, Intra Pkt TT=00000F786405]
MSG# 0000047: Abs Time 06/05/2009, H:M:S:ms.us=04:47:37:517.347
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000F297324, Data Pkt RTC=00000F786405, Intra Pkt TT=00000F87A645]
MSG# 0000048: Abs Time 06/05/2009, H:M:S:ms.us=04:47:37:617.347
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000F297324, Data Pkt RTC=00000F96E885, Intra Pkt TT=00000F96E885]
MSG# 0000049: Abs Time 06/05/2009, H:M:S:ms.us=04:47:37:717.347
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000F297324, Data Pkt RTC=00000F96E885, Intra Pkt TT=00000FA62AC5]
MSG# 0000050: Abs Time 06/05/2009, H:M:S:ms.us=04:47:37:817.347
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000F297324, Data Pkt RTC=00000FB56D05, Intra Pkt TT=00000FB56D05]
MSG# 0000051: Abs Time 06/05/2009, H:M:S:ms.us=04:47:37:917.347
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000F297324, Data Pkt RTC=00000FB56D05, Intra Pkt TT=00000FC4AF45]
MSG# 0000052: Abs Time 06/05/2009, H:M:S:ms.us=04:47:37:1017.347
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
*** Global Time=2009060504473800, 06/05/2009, H:M:S=04:47:38:00, Relative Time
Cntr=264374713, (delta=1000021), Source: External (IRIG)
```

```
[Time Pkt RTC=00000FC209B9, Data Pkt RTC=00000FD3F185, Intra Pkt TT=00000FD3F185]
MSG# 0000053: Abs Time 06/05/2009, H:M:S:ms.us=04:47:38:117.345
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000FC209B9, Data Pkt RTC=00000FD3F185, Intra Pkt TT=00000FE333C5]
MSG# 0000054: Abs Time 06/05/2009, H:M:S:ms.us=04:47:38:217.345
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000FC209B9, Data Pkt RTC=00000FF27605, Intra Pkt TT=00000FF27605]
MSG# 0000055: Abs Time 06/05/2009, H:M:S:ms.us=04:47:38:317.345
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000FC209B9, Data Pkt RTC=00000FF27605, Intra Pkt TT=00001001B845]
MSG# 0000056: Abs Time 06/05/2009, H:M:S:ms.us=04:47:38:417.345
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000FC209B9, Data Pkt RTC=00001010FA85, Intra Pkt TT=00001010FA85]
MSG# 0000057: Abs Time 06/05/2009, H:M:S:ms.us=04:47:38:517.345
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000FC209B9, Data Pkt RTC=00001010FA85, Intra Pkt TT=000010203CC5]
MSG# 0000058: Abs Time 06/05/2009, H:M:S:ms.us=04:47:38:617.345
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000FC209B9, Data Pkt RTC=0000102F7F05, Intra Pkt TT=0000102F7F05]
MSG# 0000059: Abs Time 06/05/2009, H:M:S:ms.us=04:47:38:717.345
```

```
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000FC209B9, Data Pkt RTC=0000102F7F05, Intra Pkt TT=0000103EC145]
MSG# 0000060: Abs Time 06/05/2009, H:M:S:ms.us=04:47:38:817.345
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000FC209B9, Data Pkt RTC=0000104E0385, Intra Pkt TT=0000104E0385]
MSG# 0000061: Abs Time 06/05/2009, H:M:S:ms.us=04:47:38:917.345
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=00000FC209B9, Data Pkt RTC=0000104E0385, Intra Pkt TT=0000105D45C5]
MSG# 0000062: Abs Time 06/05/2009, H:M:S:ms.us=04:47:38:1017.345
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
*** Global Time=2009060504473900, 06/05/2009, H:M:S=04:47:39:00, Relative Time
Cntr=274374736, (delta=10000023), Source: External (IRIG)
```

```
[Time Pkt RTC=0000105AA050, Data Pkt RTC=0000106C8805, Intra Pkt TT=0000106C8805]
MSG# 0000063: Abs Time 06/05/2009, H:M:S:ms.us=04:47:39:117.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=0000105AA050, Data Pkt RTC=0000106C8805, Intra Pkt TT=0000107BCA45]
MSG# 0000064: Abs Time 06/05/2009, H:M:S:ms.us=04:47:39:217.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=0000105AA050, Data Pkt RTC=0000108B0C85, Intra Pkt TT=0000108B0C85]
MSG# 0000065: Abs Time 06/05/2009, H:M:S:ms.us=04:47:39:317.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=0000105AA050, Data Pkt RTC=0000108B0C85, Intra Pkt TT=0000109A4EC5]
MSG# 0000066: Abs Time 06/05/2009, H:M:S:ms.us=04:47:39:417.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=0000105AA050, Data Pkt RTC=000010A99105, Intra Pkt TT=000010A99105]
MSG# 0000067: Abs Time 06/05/2009, H:M:S:ms.us=04:47:39:517.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=0000105AA050, Data Pkt RTC=000010A99105, Intra Pkt TT=000010B8D345]
MSG# 0000068: Abs Time 06/05/2009, H:M:S:ms.us=04:47:39:617.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=0000105AA050, Data Pkt RTC=000010C81585, Intra Pkt TT=000010C81585]
MSG# 0000069: Abs Time 06/05/2009, H:M:S.ms.us=04:47:39:717.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=0000105AA050, Data Pkt RTC=000010C81585, Intra Pkt TT=000010D757C5]
MSG# 0000070: Abs Time 06/05/2009, H:M:S.ms.us=04:47:39:817.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=0000105AA050, Data Pkt RTC=000010E69A05, Intra Pkt TT=000010E69A05]
MSG# 0000071: Abs Time 06/05/2009, H:M:S.ms.us=04:47:39:917.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=0000105AA050, Data Pkt RTC=000010E69A05, Intra Pkt TT=000010F5DC45]
MSG# 0000072: Abs Time 06/05/2009, H:M:S.ms.us=04:47:39:1017.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
*** Global Time=2009060504474000, 06/05/2009, H:M:S=04:47:40:00, Relative Time
Cntr=284424736, (delta=10050000), Source: Internal
```

```
[Time Pkt RTC=000010F3FA20, Data Pkt RTC=000011051E85, Intra Pkt TT=000011051E85]
MSG# 0000073: Abs Time 06/05/2009, H:M:S.ms.us=04:47:40:112.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=000010F3FA20, Data Pkt RTC=000011051E85, Intra Pkt TT=0000111460C5]
MSG# 0000074: Abs Time 06/05/2009, H:M:S.ms.us=04:47:40:212.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=000010F3FA20, Data Pkt RTC=00001123A305, Intra Pkt TT=00001123A305]
MSG# 0000075: Abs Time 06/05/2009, H:M:S.ms.us=04:47:40:312.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=000010F3FA20, Data Pkt RTC=00001123A305, Intra Pkt TT=00001132E545]
MSG# 0000076: Abs Time 06/05/2009, H:M:S.ms.us=04:47:40:412.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=000010F3FA20, Data Pkt RTC=000011422785, Intra Pkt TT=000011422785]
MSG# 0000077: Abs Time 06/05/2009, H:M:S.ms.us=04:47:40:512.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=000010F3FA20, Data Pkt RTC=000011422785, Intra Pkt TT=0000115169C5]
MSG# 0000078: Abs Time 06/05/2009, H:M:S.ms.us=04:47:40:612.343
```

```
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=000010F3FA20, Data Pkt RTC=00001160AC05, Intra Pkt TT=00001160AC05]
MSG# 0000079: Abs Time 06/05/2009, H:M:S:ms.us=04:47:40:712.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=000010F3FA20, Data Pkt RTC=00001160AC05, Intra Pkt TT=0000116FEE45]
MSG# 0000080: Abs Time 06/05/2009, H:M:S:ms.us=04:47:40:812.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=000010F3FA20, Data Pkt RTC=0000117F3085, Intra Pkt TT=0000117F3085]
MSG# 0000081: Abs Time 06/05/2009, H:M:S:ms.us=04:47:40:912.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=000010F3FA20, Data Pkt RTC=0000117F3085, Intra Pkt TT=0000118E72C5]
MSG# 0000082: Abs Time 06/05/2009, H:M:S:ms.us=04:47:40:1012.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
*** Global Time=2009060504474100, 06/05/2009, H:M:S=04:47:41:00, Relative Time
Cntr=294424736, (delta=1000000), Source: Internal
```

```
[Time Pkt RTC=0000118C90A0, Data Pkt RTC=0000119DB505, Intra Pkt TT=0000119DB505]
MSG# 0000083: Abs Time 06/05/2009, H:M:S:ms.us=04:47:41:112.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=0000118C90A0, Data Pkt RTC=0000119DB505, Intra Pkt TT=000011ACF745]
MSG# 0000084: Abs Time 06/05/2009, H:M:S:ms.us=04:47:41:212.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=0000118C90A0, Data Pkt RTC=000011BC3985, Intra Pkt TT=000011BC3985]
MSG# 0000085: Abs Time 06/05/2009, H:M:S:ms.us=04:47:41:312.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=0000118C90A0, Data Pkt RTC=000011BC3985, Intra Pkt TT=000011CB7BC5]
MSG# 0000086: Abs Time 06/05/2009, H:M:S:ms.us=04:47:41:412.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=0000118C90A0, Data Pkt RTC=000011DABE05, Intra Pkt TT=000011DABE05]
MSG# 0000087: Abs Time 06/05/2009, H:M:S:ms.us=04:47:41:512.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=0000118C90A0, Data Pkt RTC=000011DABE05, Intra Pkt TT=000011EA0045]
MSG# 0000088: Abs Time 06/05/2009, H:M:S:ms.us=04:47:41:612.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
Dev-0: 4 pkts/sec or 45 pkts in 10 seconds. Total 45 pkts, 89 msgs.
```

```
[Time Pkt RTC=0000118C90A0, Data Pkt RTC=000011F94285, Intra Pkt TT=000011F94285]
MSG# 0000089: Abs Time 06/05/2009, H:M:S:ms.us=04:47:41:712.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=0000118C90A0, Data Pkt RTC=000011F94285, Intra Pkt TT=0000120884C5]
MSG# 0000090: Abs Time 06/05/2009, H:M:S:ms.us=04:47:41:812.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=0000118C90A0, Data Pkt RTC=00001217C705, Intra Pkt TT=00001217C705]
MSG# 0000091: Abs Time 06/05/2009, H:M:S:ms.us=04:47:41:912.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=0000118C90A0, Data Pkt RTC=00001217C705, Intra Pkt TT=000012270945]
MSG# 0000092: Abs Time 06/05/2009, H:M:S:ms.us=04:47:41:1012.343
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
*** Global Time=2009060504474200, 06/05/2009, H:M:S=04:47:42:00, Relative Time
Cntr=304374800, (delta=9950064), Source: External (IRIG)
```

```
[Time Pkt RTC=000012246410, Data Pkt RTC=000012364B85, Intra Pkt TT=000012364B85]
MSG# 0000093: Abs Time 06/05/2009, H:M:S:ms.us=04:47:42:117.337
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=000012246410, Data Pkt RTC=000012364B85, Intra Pkt TT=000012458DC5]
MSG# 0000094: Abs Time 06/05/2009, H:M:S:ms.us=04:47:42:217.337
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=000012246410, Data Pkt RTC=00001254D005, Intra Pkt TT=00001254D005]
MSG# 0000095: Abs Time 06/05/2009, H:M:S:ms.us=04:47:42:317.336
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=000012246410, Data Pkt RTC=00001254D005, Intra Pkt TT=000012641245]
MSG# 0000096: Abs Time 06/05/2009, H:M:S:ms.us=04:47:42:417.336
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=000012246410, Data Pkt RTC=000012735485, Intra Pkt TT=000012735485]
```

```
MSG# 0000097: Abs Time 06/05/2009, H:M:S:ms.us=04:47:42:517.336
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=000012246410, Data Pkt RTC=000012735485, Intra Pkt TT=0000128296C5]
MSG# 0000098: Abs Time 06/05/2009, H:M:S:ms.us=04:47:42:617.336
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
```

```
[Time Pkt RTC=000012246410, Data Pkt RTC=00001291D905, Intra Pkt TT=00001291D905]
MSG# 0000099: Abs Time 06/05/2009, H:M:S:ms.us=04:47:42:717.336
BSW:0x9300    GAP:0x0000    LEN:0x16    ERROR: BSW & 0x0600 != 0!
CMD/DATA/STAT: 0x082a 0x1111 0x2222 0x3333 0x4444 0x1111 0x2222 0x3333
0x4444 0x1111 0x2222
Dev-0: 0 pkts/sec or 6 pkts in 10 seconds. Total 51 pkts, 100 msgs.
Dev-0: No pkts read in the last 10 seconds.
Dev-0: No pkts read in the last 10 seconds.
```

Dev-0: No pkts read in the last 10 seconds.

MTi Demo closed.

```
-----
MTi Device Number: 0
Total Ch10 Packets: 51
Total Messages:    100
-----
```

```
Press <ENTER> to continue...
[root@fedora bin]#
```