PEAK LIN LTRC File Format

Contents

Version 1.0 (PLIN-View Pro 1.0)

Example

```
;$FILEVERSION=1.0
;$STARTTIME=8708618495
;
;   C:\TraceFile.ltrc
;
;   Start time: 26.03.2010 11:06:08
;   PLIN-Net:
;
;   Direction description:
;   ~~~~~~~~~~~~~~~~~~
;     Pub   = Publisher Frame
;     Sub   = Subscriber Frame
;     SubAL = Subscriber Auto Length Frame
;
;   Checksum Type description:
;   ~~~~~~~~~~~~~~~~~~
;     CL = Classic
;     EH = Enhanced
;     AU = Auto
;
;   Error Code description:
;   ~~~~~~~~~~~~~~~~~~
;     CK = Checksum Error
;     GS = GroundShort Error
;     P0 = IdParityBit0 Error
;     P1 = IdParityBit1 Error
;     IS = InconsistentSynch Error
;     SR = SlaveNOtResponding Error
;     SD = SlotDelay Error
;     TO = Timeout Error
;     VS = VBatShort Error
;
;   Columns decription:
;   ~~~~~~~~~~~~~~~~~~~
;   +Frame Number
;   |           +Timestamp (microseconds)
;   |           |           +Direction
;   |           |           |    +Frame-ID (hex)
;   |           |           |    |   +Frame Length
;   |           |           |    |   |   +Data bytes (hex)
;   |           |           |    |   |   |                       +Checksum
;   |           |           |    |   |   |                       |   +Checksum Type
;   |           |           |    |   |   |                       |   |     +Error Code
;   |           |           |    |   |   |                       |   |     |
;---+--   ------+-------  --+--  +-  +  -+ -- -- -- -- -- -- --  +-  +-  -+----------
     1)            11307   Pub   05  2  00 00                     7A  EH
     2)            36305   Sub   02  2  -- --                     00  EH  SR/TO
     3)            61305   Sub   07  8  -- -- -- -- -- -- -- --  00  EH  SR/TO
     4)            86305   Pub   05  2  00 00                     7A  EH
     5)           111304   Sub   02  2  -- --                     00  EH  SR/TO
     6)           136303   Sub   07  8  C1 38 FE FF 3F F0 3E 6D  FC  EH  Ck
     7)           161304   Pub   05  2  00 00                     7A  EH
     8)           186302   Sub   02  2  FC 7F                     41  EH
```

General

Comment lines prefixed with a semicolon, except $-keywords.

$STARTTIME keyword stores the start timestamp of the trace file.

Columns are separated with blanks.

One frame with or without error codes per line.

Columns

1) Index of recorded frame.

2) Time offset since start of the trace ($STARTTIME). Resolution: 1 microsecond.
3) Frame direction:

   “Pub”: Publisher Frame

   “Sub”: Subscriber Frame

   “SubAL”: Subscriber Auto Length Frame
4) Frame-ID (Hex):

   2 digits for Frame-IDs (00 – 3F).
5) Data Length of frame (1-8).
6) Data Bytes (1-8):
   For any error codes: All data bytes filled with “--”.
7) Checksum:

   Checksum of the frame’s data bytes.
8) Checksum Type:

   “CL”: Classic Checksum

   “EH”: Enhanced Checksum

   “AU”: Auto Checksum
9) Error Code:

   “CK”: Checksum invalid

   “GS”: Bus shorted to ground

   “P0”: Wrong parity bit 0

   “P1”: Wrong parity bit 1

   “IS”: Error regarding synchronization field

   “SR”: Slave doesn’t answer in time

   “SD”: A slot time (delay) was too small

   “TO”: A message timeout was reached

   “VS”: Bus shorted to Vbat

Version 1.1 (PLIN-View Pro 1.1.4)

Example

```
;$FILEVERSION=1.1
;$STARTTIME=40694.6971444676
;
;   C:\TraceFile.ltrc
;
;   Start time: 2011-05-31 16:43:53.282
;
;   Direction description:
;   ~~~~~~~~~~~~~~~~~~
;     Pub   = Publisher Frame
;     Sub   = Subscriber Frame
;     SubAL = Subscriber Auto Length Frame
;
;   Checksum Type description:
;   ~~~~~~~~~~~~~~~~~~
;     CL = Classic
;     EH = Enhanced
;     AU = Auto
;
;   Error Code description:
;   ~~~~~~~~~~~~~~~~~~
;     CK = Checksum Error
;     GS = GroundShort Error
;     P0 = IdParityBit0 Error
;     P1 = IdParityBit1 Error
;     IS = InconsistentSynch Error
;     SR = SlaveNOtResponding Error
;     SD = SlotDelay Error
;     TO = Timeout Error
;     VS = VBatShort Error
;
;   Columns decription:
;   ~~~~~~~~~~~~~~~~~~~~
;   +Frame Number
;   |           +Timestamp (microseconds)
;   |           |           +Direction
;   |           |           |    +Frame-ID (hex)
;   |           |           |    |   +Frame Length
;   |           |           |    |   |   +Data bytes (hex)
;   |           |           |    |   |   |                         +Checksum (hex)
;   |           |           |    |   |   |                         |   +Checksum Type
;   |           |           |    |   |   |                         |   |    +Error Code
;   |           |           |    |   |   |                         |   |    |
;---+--   ------+-------  --+--  +-  +  -+ -- -- -- -- -- -- --  +-  +-  -+----------
     1)          756186   Sub   02  2  -- --                      00  EH  SR/TO
     2)          781185   Sub   01  8  -- -- -- -- -- -- -- --  00  EH  SR/TO
     3)          806186   Pub   05  2  00 00                      7A  EH
     4)          831184   Sub   02  2  -- --                      00  EH  SR/TO
     5)          856183   Sub   01  8  C1 38 FE FF 3F F0 3E 6D  FC  EH  CK
     6)          881183   Pub   05  2  00 00                      7A  EH
     7)          906182   Sub   02  2  FC 7F                      41  EH
     8)          931181   Sub   01  8  C1 38 FE FF 3F F0 E6 6A  C3  EH
```

General

Comment lines prefixed with a semicolon, except $-keywords.

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One frame with or without error codes per line.

Changes compared to Version 1.0

1) $STARTTIME keyword now stores the absolute start time of the trace:

   Format: Floating point, decimal separator is a point.

   Value: Integral part = Number of days that have passed since 12/30/1899.

Fractional Part = Fraction of a 24-hour day that has elapsed, resolution is 1 millisecond.

2) Comment “Start time” now stored in ISO 8601:2004 format.
3) Comment “PLIN-Net:” removed.
4) Wrong error code label “Ck” in recorded frames replaced with “CK”.

Columns

1) Index of recorded frame.
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3) Frame direction:

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   “SubAL”: Subscriber Auto Length Frame
4) Frame-ID (Hex):

   2 digits for Frame-IDs (00 – 3F).
5) Data Length of frame (1-8).
6) Data Bytes (1-8):
   For any error codes: All data bytes filled with “--”.
7) Checksum:

   Checksum of the frame’s data bytes.
8) Checksum Type:

   “CL”: Classic Checksum

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   “AU”: Auto Checksum
9) Error Code:

   “CK”: Checksum invalid

   “GS”: Bus shorted to ground

   “P0”: Wrong parity bit 0

   “P1”: Wrong parity bit 1

   “IS”: Error regarding synchronization field

   “SR”: Slave doesn’t answer in time

   “SD”: A slot time (delay) was too small

   “TO”: A message timeout was reached

   “VS”: Bus shorted to Vbat