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CANtrace

CAN bus Analyzer software



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- TK Engineering CANtrace is an advanced but easy to use CAN monitoring tool, which can use both Kvaser, Vector, Peak or Softing CAN interface as interface to the CAN-bus.
- CANtrace provides easy configuration that lets you trace, decode and plot CAN messages and signals in real-time, or log everything for post processing in the comfort of your office.
- CANtrace supports now also Python scripting and CAN FD
- CANtrace additionally also offers time stamping of all messages.

The screenshot shows the CANtrace software interface. At the top, there's a menu bar (File, CAN, View, Log, Help) and a toolbar with icons for Trace, Send, Data, Graph, and Statistics. Below this is a table of CAN messages with columns for Id, Ch, Dlc, Data, Time, Count, Dir, Name, and Interpretation. The table lists several messages, including c000003x, c00000bx, cf00203x, cf00300x, and cf00400x. Below the table is a section for CAN-Interfaces Settings, showing software CAN channels and CAN Channels configuration. The bottom part of the screenshot displays a graph window with multiple data series plotted over time, including AMUGE0360_ANGLE, AMUGE0360_DEBUG, and AMUGE0360_GyroAutocallOk.

- Trace, Data, Plot, Send and Statistics tab
- Log all CAN messages to Vector ASC compatible log file
- Works with 11 and 29 bit identifiers
- Works with bus-speeds up to 1 Mbit/s
- Supports Kvaser, Vector, Peak and Softing hardware
- Database support
- Data Window using Database(s)
- Graph Window using Database(s)
- Native J1939 and CANopen support
- Bus statistics (busload, peak load, frames cnt...)
- Replay log files to trace and graph windows
- Sending of messages from DBC-file



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Python scripting

Users can use additional Python scripts inside the program to extend the default functionality of CANtrace. Scripts can be used to create, filter, and modify signals dynamically for different uses.

CANtrace support CAN FD

CAN FD is now supported when using Kvaser CAN FD. Long CAN FD messages can be received and displayed in the trace window, signals from long CAN FD messages can be decoded and shown in the data and graph tabs. There is also full support for logging and playback of CAN FD messages in ASC format.

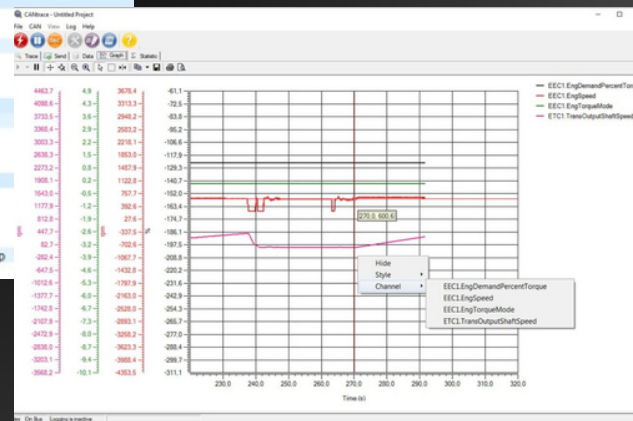
Graph Plots Signals Based on Database (DBC)

CANtrace can display signals also graphically by using the Graph-window. Using databaseconnection (DBC) the user has a possibility to show signals in graph-format. The graphs can also be cut and pasted to reports done e.g. n Microsoft MS-Office.

Logging and playback log file

CANtrace supports Vector ASCII format CAN log files. In addition to recording log data from multiple channels. CANtrace can also play back log files to the CAN bus. Any log file in ASC format can be used to generate data on the CAN bus.

ID	Ch	Dlc	Data	Time	Count	Dir	Name	Interpretation
0	1	2	01 01	9.2140	1	Tx		NMT request set node: 0x1 Operational
81	1	8	00 00 00 00 00 00 00 00	5.2490	1	Rx		EMCY nodeid: 0x1
181	1	4	65 09 01 00	37.7760	273	Rx	AMUGE0360_ANGLE	
OutputStatus								
Angle360								
281	1	6	2d 03 b2 fd 1f 1f	37.7750	273	Rx	AMUGE0360_ACC	
Accel Mode								
AccX					24.05		deg	
AccY					0.813		q	
AccZ					-0.59		q	
2c1	1	8	ed 03 00 00 02 00 5a 09	37.7760	273	Rx	AMUGE0360_DEBUG	
381	1	6	14 00 4f ff ff ff	37.7730	273	Rx	AMUGE0360_ANGVEL	
AngVel_X								
AngVel_Y								
AngVel_Z								
481	1	8	90 0f 01 cf 74 f6 c9 00	37.7740	273	Rx	AMUGE0360_GYROANGLE	
Temperature								
GyroAngleX					20.1		C	
GyroAngleY					39.84		deg	
GyroAngleZ					-125.43		deg	
701	1	1	00	5.2410	1	Rx		Node: 0x1 Boot Up



Send CAN Messages based on Database

The new and improved Send window now offers the opportunity to choose messages from the attached DBC-file and change the physical values of the signals in the messages.

CANopen and J1939 Protocol Support

In the trace view CANopen messages and J1939 PGNs are decoded to human readable format. CANtrace also supports the long J1939 transport layer frames, and can both send and receive signals embedded in transport layer framers.

The included CANopen node scanner gives you an overview of what CANopen nodes are on the bus, lets you see their status, and start, stop or reset individual nodes.