



NMEA 2000 Software

The NMEA 2000 protocol stack was designed to meet the demanding needs of the high speed Controller Area Network (CAN). The NMEA 2000 source code uses a high performance modular design and has a simple API. It is written entirely in the C programming language and can be used on any platform with a 8/16/32 bit microcontroller, either with or without an operating system. Benchmarks have shown the stack to be 600% more efficient than other commercially

Features

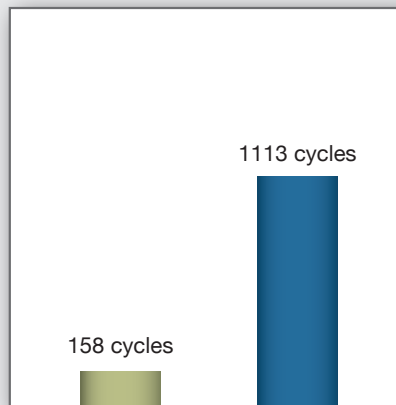
The NMEA 2000 source code allows for:

- Sending and receiving of messages
- Message filtering
- Request message processing
- Diagnostic message processing
- BAM and CM transport protocol processing
- Static and arbitrary address claim
- Fast packet support
- PGN list group functions

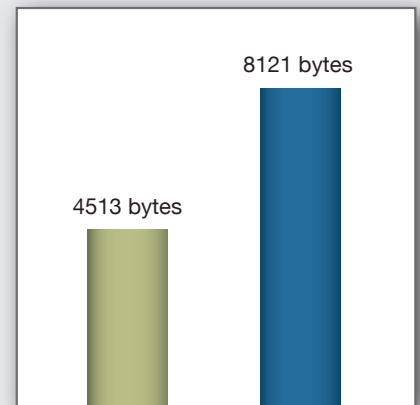
Deliverables

Deliverables include the NMEA 2000 protocol stack, well documented source code, a complete user's manual, and examples showing how to send and receive NMEA 2000 messages.

CPU Cycles per Msg (approx. for C2000 CPU)



Code Size Comparison (approx. for C2000 CPU)



Simma Software Competitors

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Simma Software, Inc. specializes in real-time embedded software for the automotive industry. Products and services include protocol stacks, bootloaders, device drivers, training, and consultation on the following technologies: J1939, CAN, J1587, J1708, J2497, J1922, J1850, J1979, ISO 15765, OBD-II, NMEA 2000, ISO 14229, ISO 14230.

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