wiki:AdvancedCommands

VZClusterMod Advanced commands

Warning: these commands are for advanced users who know what they're doing. If you brick your cluster, this tool will not help you.

unlock

This command unlocks the EEPROM security on the cluster to allow reads and writes using the readmem and writemem commands.

readmem

Format: `readmem [mem_location]`
This reads a memory location from the cluster using a mode 20 command. The cluster seems to return the length of the entire data structure, so to read the next item, use the next memory location returned. This command will attempt to decode known memory locations. It's not known if these memory locations match up well to the EEPROM layout.

writemem

Format: `writemem [mem_location]=[mem_byte_0],[mem_byte_1],...`
This writes to a memory location, with a comma separated list of values. The function does check to see if the data length is the same as what was read from that location, to prevent accidental overruns. A writemem_unsafe may be coming soon.

custom

Format: `custom [aldl_module]=[aldl_mode],[msg_byte_0],...`
This writes a custom ALDL frame to the serial port, useful for fuzzing devices. This automatically calculates the message length and checksum, do not include them.
Don't just put random garbage into this, especially in the car!

readmemALL

Format: `readmemALL [output_file]`
This reads all memory locations in the cluster from 0x01 to 0x138, and dumps to a easy to read text format. No decoding is done. If a file name is specified after readmemALL, the file is truncated and written to in excel-friendly CSV.

mode4set

Sends a custom mode 4 message useful for controlling the inputs/outputs of the cluster. Would not recommend doing this in-car.

mode4clear

Clears all the bits set during a mode 4 operation.

heartbeat

Waits for a heartbeat from the car bus, and prints a '.' for each message recv'd before the heartbeat.

buffer

Shows the number of bytes in the buffer that have not been processed.

clearbuffer

Clears the input buffer of data.

chat

Sends a mode 9 message on the bus to the BCM to enable chatter

nochat

Sends a mode 8 message on the bus to the BCM to disable chatter

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