# GUI

**configuration\_data[128]**

st\_#### is formatted data for GUI math.

d\_st\_#### is same data shown in GUI Text Boxes. st\_#### and cf\_#### variables are used to write back the configuration to the part firmware (if enabled).

**profile\_data[32]**

Most variables that aren’t prefixed by st\_ or d\_st\_ contain formatted data from here

So the way the GUI works is it has to juggle several copies of the same variable and deal with harmonizing what is displayed with what is being used in the GUI and the firmware at the same time. So the textboxes are loaded with the contents of d\_st\_#### which are properly sized copies of st\_####. The st\_#### data is loaded into the top half of the configuration\_data array. But that data is just sand box for helping out the GUI later and isn’t used by the firmware for anything. The lower part of the configuration\_data array is copies of the cf\_variables. And the cf\_#### variables are derived from the information in the text boxes. So there is a routine in the GUI to pre-load all of the d\_st\_#### variables so they’ll display in the text boxes and then make it to the cf\_####.Firmware

**cs.###** from the charger\_settings\_t struct

**cd.###** from the charger\_data\_t struct and includes the charger\_status\_t word struct and the eoc\_charger\_status\_t wodr struct.

gsdf

gsdf

gsd

gsd

fda

fasdNotes

Everthing but cs.endian and cs.fwrev are stored in 128B of flash at address 0xE80.