Help Sourcecode SmartPI

The main sourcecode is the "**all_rrd.c**".
This code is written in C.

If the program started, the Raspberry Pi connected to the SmartPI via i²c.
All values (current, voltage, power, cos, frequenzy) are measured.

The sourcecode "**smartpi_web.py**" (written in python) calls the c-program (all_rrd.c) every 20 seconds and stores the measured data in a text file (Smartpi_Value.txt).

The stored values are separated with an ":".

current_1:current_2:current_3:current_N:voltage_1:voltage_2:voltage_3:power_1:power_2: power_3:cosphi_1:cosphi_2:cosphi_3:frequenz_1:frequenz_2:frequenz_3

The measured values are stored in an rrd-database also.
The name is "smartpi.rrd".

The data for the graphics of the web-frontend (http://192.168.2.22/smartpi/)

are from this database (smartpi.rrd)!

The diagrams are also generated in the program "smartpi_web.py" (rrd-tool).

The sourcecode, "**webserver.py**", realizes the REST-API.

In this python-code other c-programs are called like current.c, voltage.c, etc.
The c-programs get the data from the text file "Smartpi_Value.txt".