FCMkIV Profile Data Specification

Attribute Default value	* Chaser tolerance (decimal for $\%$)0.02
• Core	* Fan frequency (For PWM, in Hz)
− Name "Unnamed FC Profile" − Description empty string − Platform UNKNOWN • Network 65000	* Counter counts
- Broadcast period (ms)	
 Max. timeouts	 Default module rows
- Broadcast queue size 2 - Listener queue size 3 - MISO queue size 2 - Printer queue size 3 - Passcode "CT" - Default slave values (tuple) "Module" * Name "Module"	- Fan arrays (tuple) empty tuple * Name "Unnamed fan array" * Description empty string * Rows 0 * Columns 0 * Layers (fan mode) Def. fan mode * Modules (tuple tuple) empty tuple • Slave index -1 • Row in array -1 • Column in array -1 • Number of rows 0 • Number of columns 0 • Number of fans max fans • Fan assignment (tuple tuple) empty tuple
* MAC	

Notes

- Profile data will be kept in memory as a Python dictionary, and distributed using deep copies.
- In MkIV revisions that use the MkIII Communicator, the relevant parameters must be adjusted to be compatible with the MkIII Archiver.
- Fan assignments are represented as tuples of tuples, where each inner tuple represents, as integers (fan indices) the fans that correspond to a particular grid cell. Grid cells may be empty (use an empty tuple), and the length of inner tuples must be consistent with the "fan mode" that is, they must be at most singletons for single fans and at most pairs for double fans. For example, the following is the fan assignment that corresponds to a module from the CAST wind tunnel:

```
((0, 1), (2, 3), (4, 5), (6, 7), (8, 9), (10, 11), (12, 13), (14, 15), (16, 17))
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