

X-CubeSat Controller language documentation

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Introduction

In this file you will be able to find the definitions of the language used in the X-CubeSat Controller.

Types:

- **string**
 - **data**
 - **bool**
 - **int**
-

SEND()

bool SEND(string)

- **Params:** string to be sent to the interface (often the modem).
- **Return:** boolean value indicating if the send process was successfully accomplished (true) or not (false).

RECEIVE()

data RECEIVE(string)

- **Params:** string with the name of the format that will be received.
- **Return:** read data from the interface (modem) with the right format associated.

SAVE()

bool SAVE(data, string)

- **Params:**

1. data with the data to be saved.
2. string with the file name that the data will be saved.

- **Return:** boolean indicating if the save was successful (true) or not (false).

IF()

bool IF (bool)

- **Params:** if true to run what is inside of , else to continue.

- **Return:** true if it should run the or false if it should continue.

DECLARE()

bool DECLARE(type, string)

- **Params:**

1. the type of the new variable.
2. the name of the new variable.

- **Return:** true if the declaration was successful, false otherwise.

EQ()

bool EQ(int, int)

- **Params:**

1. first element to compare.
2. second element to compare.

- **Return:** true if first element equals the second one, false otherwise.

LL()

bool LL(int, int)

- **Params:**

1. first element to compare.
2. second element to compare.

- **Return:** true if first element is less than the second one, false otherwise.

LEQ()

bool LEQ(int, int)

- **Params:**

1. first element to compare.
2. second element to compare.

- **Return:** true if first element is less or equal the second one, false otherwise.

FILE()

string FILE(string)

- **Params:** string with the name of the file to be opened.
- **Return:** string with the content of the file.

FILEDATE()

string FILEDATE(string)

- **Params:** string.
- **Return:** the parameter appended with the date (dd/mm/yyyy:hh:mm:ss) of execution of this function.

FORMAT()

`string FORMAT(string)`

- **Params:** string with the name of the format.
- **Return:** string with the name of the format.