![A picture containing drawing, table

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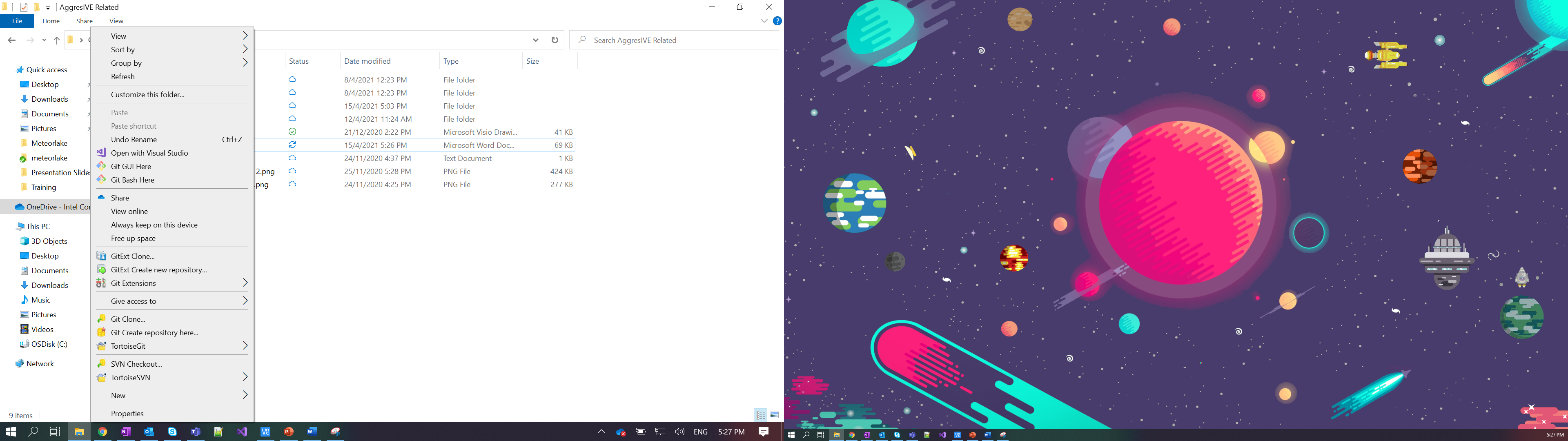
# Section 1.1 – How to call the script of AggressiVE?

AggressiVE project folders can be found in gitlab. The link below will bring you to the AggressiVE github.

Link: <https://github.com/David-lck/AggressiVE>

To clone the AggressiVE folders into your host, all you need to do is:

1. Open “Git Bash” here from right click.



1. $ git clone <https://github.com/David-lck/AggressiVE>

**Import the script in PythonSV:**

>> import sys

>> sys.path.append(r’the\_path\_where\_you\_cloned\_the\_aggressive’)

>> import aggressive as ags

**Call the sub-functions:**

>> ags.list\_all\_cmd()

A black screen with white text

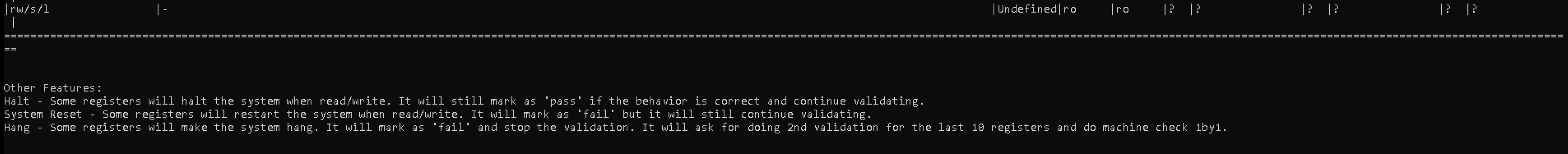
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List\_all\_cmd() will show user all the available commands AggressiVE has and the features of every functions.

>> ags.theory()

A black screen with white lines

Description automatically generated



Theory() will show user the validation steps and feedback for every different attributes (write values and expected read values).

>> ags.badname\_regs(input\_reg, validate=False)



Badname\_regs() will show user all the registers in the listed log which has the unacceptable name. Registers which has unacceptable name will not be able to read value, write value, and also read the information.

>> ags.attr\_all(input\_regs, validate=False)

A black and white rectangular object with white lines

Description automatically generated

A black and white striped background

Description automatically generated

Attr\_all() will categorize the registers into “with attribute” and “without attribute”. It will ignore the registers without attribute and continue storing the registers which have attribute into a list. By referring to the figure above, it will also identify which attributes are supported on AggressiVE.

“Ready” = Support. Will validate in ags.aggressive() and results are correct.

“Partial” = Support but still more clarification. Will validate in ags.aggressive() but results are just our own assumption.

“Undefined” = Not support. Will not validate in ags.aggressive().

>> ags.invalidate(input\_reg, validate=False)

A black and white background with white lines

Description automatically generated

>> ags.set\_access\_method(input\_reg)

A black and white screen with white lines

Description automatically generated

Set\_access\_method() will show a table of access methods which is supported in that current level of register. If user press “Enter” key, default access method will be chosen. This function will also do the badname\_regs(), invalidate(), and attr\_all(). After that, it will display which IPs have been set to that access method successfully (blue colour) and which one have not (red colour).

>> ags.log()

A black and white image of a computer screen

Description automatically generated

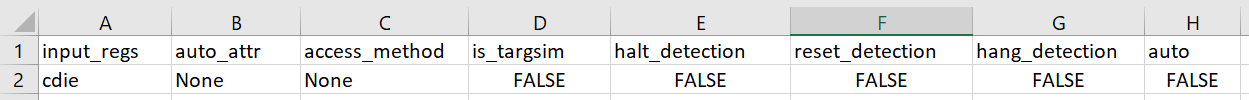
Log() will list out all the log files that will be dumped by AggressiVE.

**Call the main functions:**

>> ags.aggressive(r'C:\AggressiVE\_GITHUB\AggressiVE\input\_parameters.xlsx')

>> ags.aggressive\_cont(r'C:\AggressiVE\_GITHUB\AggressiVE\input\_parameters.xlsx')

Due to too many input parameters needed for automation purposes, input parameters.xlsx excel file in the repo will be the input file that the main functions will refer to.



Example above is the excel tab for the aggressive().

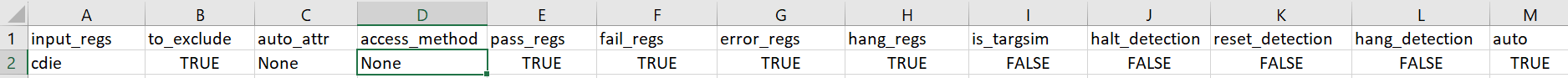
Input\_regs can be in any level such as soc, soc.north, soc.north.ngu\_pma, soc.north.ngu\_pma.ngu\_pma\_cr\_top , or soc.north.ngu\_pma.ngu\_pma\_cr\_top.ngu\_nclk\_cfg.ngu\_nclk\_ratio.

Auto\_attr is the attribute of the registers user want to validate. If user wants to validate the registers with r/w attribute only, user can replace ‘None’ to ‘r/w’. ‘None’ means aggressive() will validate all the available attribute type registers.

For is\_targsim, set to False when we executed in the real platform. Set to True when we executed in the targsim.

Halt\_detection, reset\_detection, and hang\_detection can set to True when user wants the aggressive() to take halting, system reset, and system hang into consideration. Otherwise, it will ignore them.

When ‘auto’ is set to True, aggressive() will automatically validate all the registers non-stop. When it is set to False, aggressive() will stop and ask user for number of registers they would like to validate. For more info, please refer to the “Validation” section below.



Example above is the excel tab for the aggressive\_cont().



Example above is the excel tab.

Section 2 – PRE-TEST

We have seperated the functions of AggressiVE into three sections which are Pre-test, Execution, and Post-test.

Pre-test is a section before we do the validation. AggressiVE will ask user for require information in this section. Those require information are name of IP/die, access method, attribute, and export log file. This section is to prepare everything to make the validation process go smoother, faster, and bug-free. In this section, AggressiVE will also detect the unacceptable name of registers and invalidate fields which will explain in the next part.

# Section 2.1 – Unacceptable Registers

What is unacceptable registers? It is the type of error that will be shown when we want to read the information or do the read and write on the registers/fields which have the unacceptable name. Unacceptable registers are not able to read and write the registers and read the information.

In this part, AggressiVE will exclude those registers/fields out of the list. The name of those unacceptable registers will be exported to a log file called ‘bad\_name\_regs.log’ and will not do the validation afterward. Figure 1 below are the examples of the registers which have unacceptable name. For some of the registers which have special symbol in it, they are not able to be exported to the log files, so those fields will only display in PythonSV which is shown in Figure 2 below.

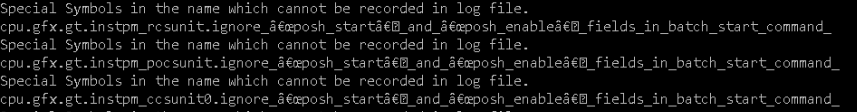
Unacceptable registers detection has its own function. If user wants to observe only the unacceptable name instead of doing validation, user can call the function like:

>> ags.badname\_regs(‘soc.north’)

A screen shot of a computer code

Description automatically generated

*Figure 1 – Unacceptable name*



*Figure 2 – Unacceptable Name of Fields which contain special symbol.*

# Section 2.2 - Invalidate Fields

What are invalidate fields? Invalidate fields are the fields which are not able to do the validation due to no information about attribute. When there is no information about the attribute, we cannot expect what value we get is correct because we don’t know the behaviour of that fields.

It is a function to check for the valid(attr\_fields) and invalid(no\_attr\_fields) fields. The valid and invalid fields can also be displayed in IP form. For example, if the fields soc.north.ngu\_pma.xxx.xxx is invalid/valid, it will display the invalid/valid IP in soc.north.ngu\_pma in separate log files respectively.

All the name of valid fields/IPs will be exported to the log file called ‘attr\_fields.log’. All the name of invalid fields/IPs will be exported to the log file called ‘no\_attr\_fields.log’.

If user runs AggressiVE, it will run this function and get the information of valid registers/fields only. Then, it will take all these registers/fields to do the validation.

This part has its own function. If user wants to observe only the numbers and name of invalid/valid fields/IPs instead of doing validation, user can call the function like:

>> ags.invalidate(‘soc’) /or/ ags.invalidate(‘soc.north.ngu\_pma’)

# Section 2.3 – Access Method Request

Once the user executes the AggressiVE, the first thing it will request is the access method. It is shown in *Figure 3* below.

It will show the available access methods which are supported for all the levels of the IP that user chosen. For example, if the user inputs ‘soc.north.ngu\_pma’ as the focus IP, AggressiVE will show the status of the current access in every levels of IP as shown in *Figure 3* below.

If one of the IP level is failed to set the chosen access method, it will display out the message and stay at the previous chosen access.

A black and white background with white lines

Description automatically generated*Figure 3 – Available Access Method*

# Section 2.4 – Attribute Request

Every fields in the registers have their own attribute. Different attribute of field has different behaviour. Different attribute has different expected value and algorithm that needed in AggressiVE to do the validation. In this part, firstly, it will detect all the available attributes in the die/IP that user inserted at the beginning.

AggressiVE will request for the attribute. This request is to filter out which specific attribute of the register that user wants to validate. It will first show all the attributes that are available in the registers of the chosen IP/die. The example is shown in *Figure 4* below.

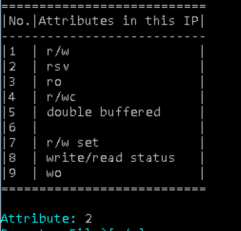
Currently, there are only a few basics attributes which are supported in AggressiVE. Those attributes are ‘RO’, ‘WO’, ‘R/W’, ‘R/W Set’ or ’RW/S’, ‘RW/L’, ‘RW/L’, ‘RW/O’, ‘RW/1C’, ‘RW/1L’, ‘RW/1S’, ‘R/WC’, ‘RO/SWC’, and ‘RSV’. The functions or behaviours of the attributes are shown in Figure 5 below. If you’re lazy to open this user guide whenever you want to check for the functions we set for our validation, user can just call the function ags.theory() as shown in *Figure 5* below.

To choose the attribute, user can input the short-form of the attribute or the index of the attribute that is shown in the table of *Figure 4*. User can only choose one attribute at the same time. If user doesn’t want to specify the register and plan to validate the registers with all types of attributes, all you need to do is *enter (without choosing anything)*.

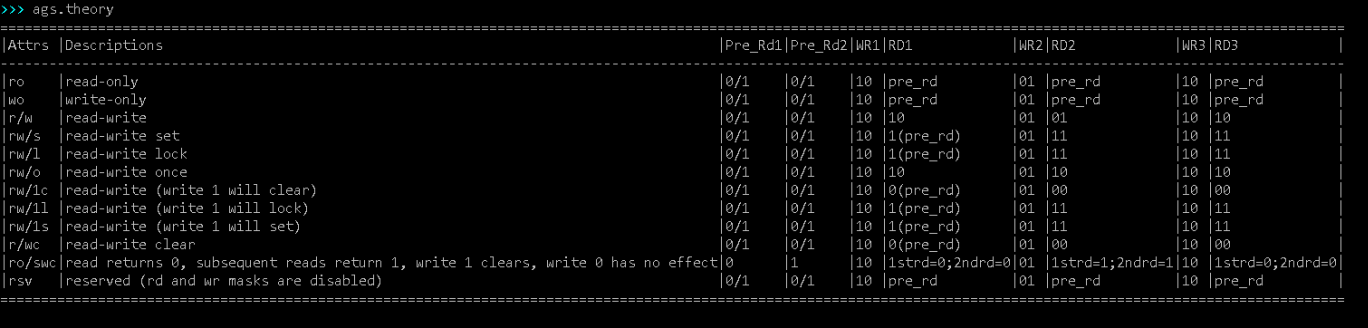
All the available attributes will be exported to the log file called ‘attr\_all.log’.

It has its own function. If user just wants to observe the available attribute in certain IP or die, user can enter:

>> ags.attr\_all(‘cpu.gfx.display’) /or/ ags.attr\_all(‘cpu’)



*Figure 4 – Available Attributes in the chosen IP*



*Figure 5 – Functions/Behaviours of Attributes in AggressiVE*

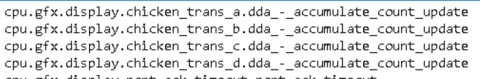
# Section 2.5 – Dump Log File Request

After attribute request, AggressiVE will request for the functionality of dumping log files. In AggressiVE, there are seven different log files that will be generated which are ‘AggressiVE\_all’, ‘AggressiVE\_fail’, ‘invalid\_token’, ‘valid\_fields’, ‘invalid\_fields’, ‘error’ and ‘attr\_all’. ‘AggressiVE\_all’ and ‘AggressiVE\_fail’ are the one that will only be generated if user choose ‘yes’. For the other log files, it is independent to user choice, which means it will be generated all the time.

‘AggressiVE\_all’ log file is used to receive and store all the validation information that was displayed as the table form.

‘AggressiVE\_fail’ log file is used to receive and store only the validation information of the fail registers that was displayed as the table form.

‘Invalid\_token’ log file is used to receive and store the full name of the sub-registers (also known as field) which has unacceptable symbol or digit in the part of the name which cause PythonSV not able to read or write the information. *Figure 6 below* shows the example of the unacceptable name.



*Figure 6 – invalid\_token.log*

‘valid\_fields’ log file is used to receive and store all the name of the valid fields which have the information of attribute.

‘invalid\_fields’ log file is used to receive and store all the name of the invalid fields which have no information of attribute.

‘error’ log file is used to receive ad store all the name of the fields which are not able to do the validation due to some error.

‘attr\_all’ log file is used to receive and store all the available attributes in the die/IP that user wants to validate.

Section 3 – EXECUTION

This section is to do the validation only.

# Section 3.1 – Validation (Background Works)

After dump log file request, the AggressiVE will start to do the validation for every fields in the chosen IP/die. Firstly, it will request for the number of fields that user want to validate and display with the total number of fields we can validate in this IP/die with the attribute that user chosen. By asking user for the number of fields will make user easier to check the validation information fields by fields and it will also time saving. Due to some external table function that AggressiVE used in the script, the higher the number of fields and its information stored, the longer the time that table function will use to store one information.

For validation, we separated into 4 stages which are Pre-read and 3 read-write.

Pre-read is to read the value of the fields before we do the write, which means we get the default value of the fields. It will do two pre-read. This is because some attributes which require two pre-read and will get two different default value. The example of that attribute is RO/SWC. For those fields which have attributes that doesn’t need to do two pre-read will also do two pre-read (no harm to do so).

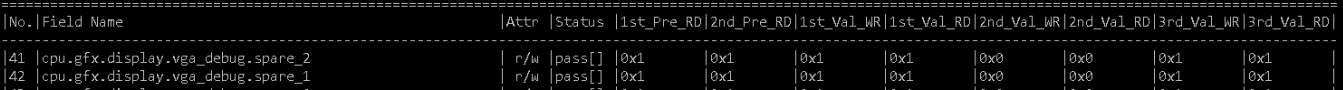
3 read-write. First read-write will write the fields in ‘0xA5’ formation. Second read-write will write the fields in ‘0x5A’ formation. Third read-write will write the fields in ‘0xA5’ formation. Third read-write is similar as first read-write. The reason why we do third read-write is because the moment we the third read-write and the moment we do the first read-write, the previous value before they write may be different. To see the availability of changes due to previous value, third read-write is necessary.

After every stop for displaying table, it will also show the number of pass, fail, unknown, and error. Unknown is for the fields which have the attributes that is not ready yet (no algorithm).

# Section 3.2 – Feedback System

In AggressiVE, the feedback system we have is the ability to compare the read values from 1st, 2nd, and 3rd read-write with the expected value that already set as the algorithm in the AggressiVE script which can be check in ags.theory().

Not only that, its also has the ability to detect the location of where it fails such as ‘1st\_stage\_val’, ‘2nd\_stage\_val’, or ‘3rd\_stage\_val’. The example is shown in *Figure 7* below.

*Figure 7 – Validation.*

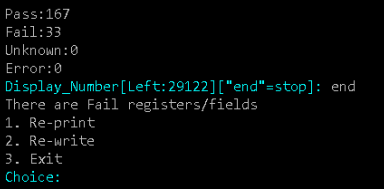
Section 4 – POST-TEST

This section is for the fail fields. All the fail fields can be reprint and rewrite in this section.

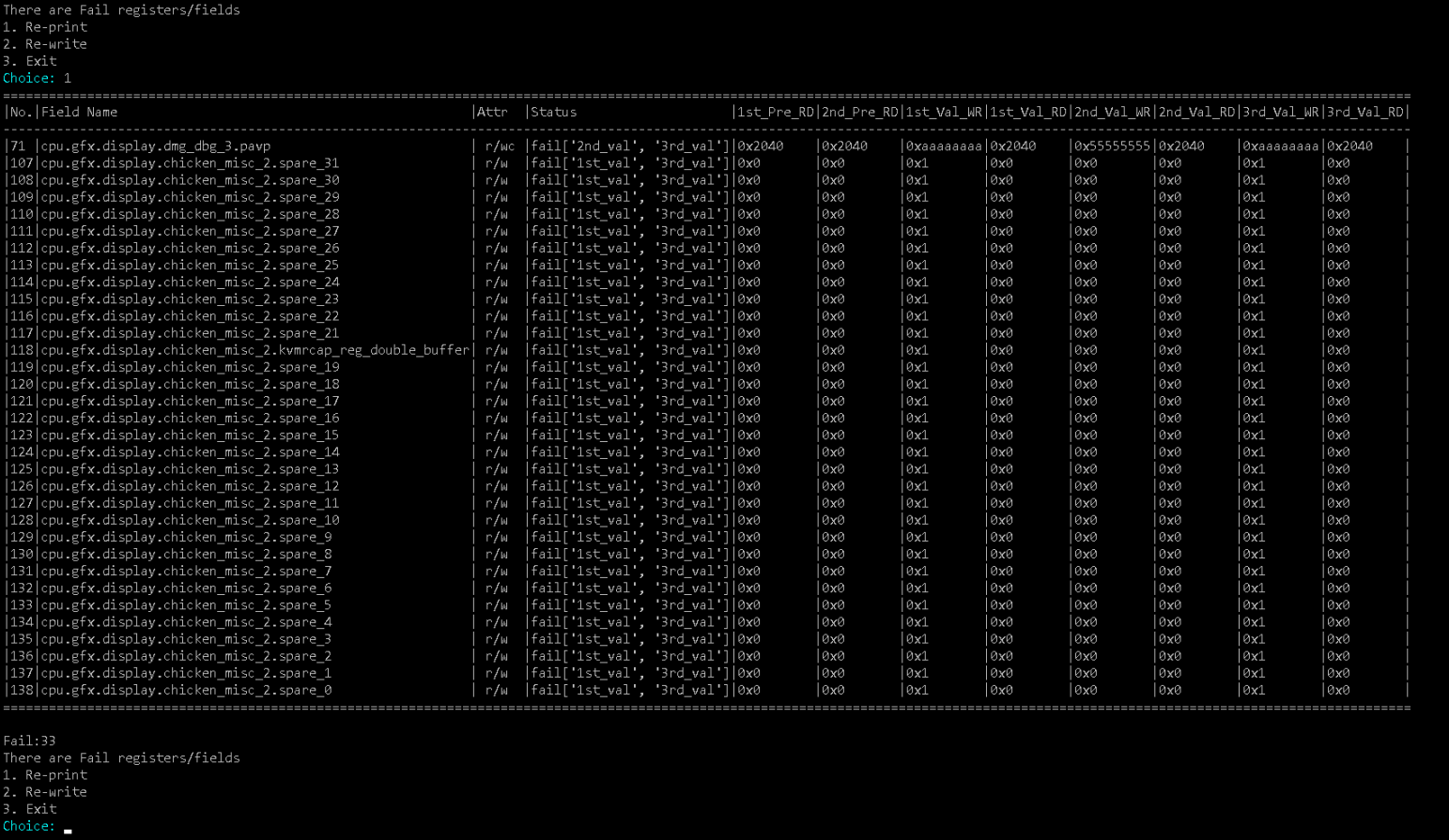
# Section 4.1 – Fail Register

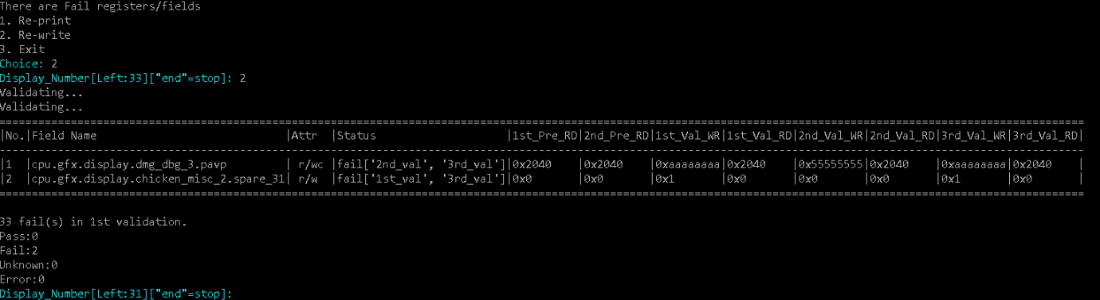
After the validation, AggressiVE will give user another chance to deal with the fields which are fail in the validation. User can choose to reprint or rewrite the fail fields as shown in *Figure 8* below. If user choose to reprint the fail fields, all the fail fields will be display once again in a table form to see all the previous validation information. After that, AggressiVE will ask user again for reprint or rewrite. It will stop asking user this question if user choose to rewrite the fail fields or exit (third choice). The example of reprint is shown in the *Figure 9* below.

Re-write means user can do the validation second time for the fail fields only. The reason why we want to do second validation for the fail fields is because we want to ensure that the root cause is just the value we read is not as the expected one. The example of rewrite is shown in the *Figure 10* below.



*Figure 8 – Way to deal with fail fields.*

*Figure 9 – Reprint fail fields.*



*Figure 10 – Rewrite fail fields*

Overall

