

integration

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Exploiting video games to test AV

How many integration type we have ?

- So far, we have three types of integration.

- The first type is adding the whole operation to DeepJanus. Putting the random amount for operation and get the result. In every test will be a new type of road.

Mutate

Generating road

Fix

Operation

- The second one is adding the amount also to mutation. It will find the frontier for the operation as well. In every test, the road will be the same.

Fix

Generating road

Mutate

Operation

- The third type will mutate the road and the operation together and find the new frontier when they are together.

Mutate

Generating road

Mutate

Operation

First type

- In this phase, the system implement whole operations on DeepJanus and then start to run the DeepJanus with new environment.

Choose your operation to test in main.py

- The whole system starts with main.py, which is defined in the root package of DeepJanus.
- With the chosen from the list of operation that you want to run
- `list_operation = ["wet_foam", "wet_ripple", "rain", "fog", "default", "add_obstacle", "changing_illumination", "add_bump"]`.

Two types of operation for integrating

- As I mentioned in the las slide ,so far there are two type of operation
- The he first group `["wet_foam", "wet_ripple", "rain", "fog", "default"]` are considered as a type one .
- And the other type has `["add_obstacle", "changing_illumination", "add_bump"]`

Frist type

- The class Operation is defined for these groups.
- At first, it has a new class named operation. It deletes the last version of the level and puts the new version.
- Benefit: It is fast, and docent needs a lot for computation.
- Drawback: after using this operation, and at the end, the user has to use the default operation to clean the level.

Time
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Second type

- It has ["add_obstacle", "changing_illumination", "add_bump"]
- Its modification happens in the brewer class.
- Benefit: it does not change any file. Furthermore, down need run other operation for cleaning.
- Drawback: it has a considerable computation—furthermore, its test is slow.

Time

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Outcome

- In this class simulation-data which make the outcome and reports for whole program . It also add one file = “type of operation”+.txt”
- In the txt file it shows the type of operation that the user chooses . And the amount of the operation . For example if the user choose the fog the amount will be amount of fog density

