Task Description For GUI Users

A new pull request adds a `grub_mini_cmd_rmmod` function for the **Grub module Manager**. Also, it comes with a small unit test that reads some "insmod" / "rmmod" commands from stdin and executes them.

Function grub_mini_cmd_insmod (char *name, char *deps): check its dependencies and insert a module with name.

- This name should not exist and all its dependencies should already be inserted.
- if same name module existed, this function will return GRUB_ERR_BAD_MODULE
- if any dependence is missed, this function will return GRUB_ERR_NO_DEP.
- `deps` is a string list split by a null char and ends with a empty string. e.g "A\0B\0C\0\0" = ["A", "B", "C"]

Function grub_mini_cmd_rmmod (char *name): remove a module with name.

- This module should exist and no others depend on it.
- if no module is found with name, this function will return GRUB_ERR_BAD_ARGUMENT
- if any other depends on it, this function will print a warning and do nothing.

Function grub_mini_cmd_lsmod(): display the list of inserted modules and their reference counter.

Your task is to review the new code and add some input to complete this unit test./p>

If any input will cause any crash or memory error, please report it.

Compile Instruction

To compile the source code: (keep flags unchanged to help SeDBG analyze the debug symbol)

gcc main.c -g -Wall -gdwarf-4 -o main_sedbg

Tools Allowed

SeDBG

Task Description For API Users

A new pull request adds a `grub_mini_cmd_rmmod` function for the **Grub module Manager**. Also, it comes with a small unit test that reads some "insmod" / "rmmod" commands from stdin and executes them.

Function grub_mini_cmd_insmod (char *name, char *deps): check its dependencies and insert a module with name.

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- `deps` is a string list split by a null char and ends with a empty string. e.g "A\0B\0C\0\0" = ["A", "B", "C"]

Function grub_mini_cmd_rmmod (char *name): remove a module with name.

- This module should exist and no others depend on it.
- if no module is found with name, this function will return GRUB_ERR_BAD_ARGUMENT
- if any other depends on it, this function will print a warning and do nothing.

Function grub_mini_cmd_lsmod(): display the list of inserted modules and their reference counter.

Your task is to review the new code and add some input to complete this unit test./p>

If any input will cause any crash or memory error, please report it.

Compile Instruction

To compile the source code: (you can add more compiler flags if you need)

gcc main.c -g -Wall -gdwarf-4 -o main_angr

Tools Allowed

Write a python script with angr or your preferred symbolic execution tool to solve the task. SeDBG is NOT allowed

Angr python virtual environment are avalible at /opt/.virtualenvs/angr/bin/"

To active venv: source /opt/.virtualenvs/angr/bin/activate