

## Ссылка на репозиторий

<https://www.repository.cam.ac.uk/handle/1810/300136>

## Подготовка к работе

Выполнить шаги из README.md, заменив первые 2 команды:

```
sudo apt-get install linux-tools-common linux-tools-generic patchelf python  
pip install numpy pandas "networkx>=2.0" matplotlib
```

Нужен python 2 !!!

```
sudo apt-add-repository universe  
sudo apt update  
sudo apt install python2-minimal  
sudo update-alternatives --install /usr/bin/python python /usr/bin/python2.7 1  
sudo update-alternatives --config python 1  
sudo apt install curl  
curl https://bootstrap.pypa.io/pip/2.7/get-pip.py --output get-pip.py  
python2 get-pip.py  
pip2 install numpy pandas "networkx>=2.0" matplotlib  
sudo apt-get install python-tk  
sudo apt-get install linux-tools-common linux-tools-generic linux-tools-`uname -r` patchelf
```

Команда для работы с новым терминалом:

```
cd cgo2020-halo && export LIBHALO_PATH="$(pwd)/libhalo" && cd llvm_build && export  
PATH="$PATH:$(pwd)/bin" && cd .. && export PATH="$PATH:$(pwd)/$(echo pin-*)" && cd  
pin-*/source/tools/halo-prof && export HALO_PROF_PATH="$(pwd)" && export  
PATH="$PATH:$(pwd)/utils" && cd ../../../../ && cd jemalloc-* && export  
LD_LIBRARY_PATH="$LD_LIBRARY_PATH:$(pwd)/build/lib" && cd .. && cd test && sudo  
sysctl -w kernel.perf_event_paranoid=1
```

## Изменения в коде halo

```
# +-46  
def execute(cmds, cwd=None, shell=False):  
    if isinstance(cmds, list):  
        cmds = [str(cmd) for cmd in cmds]  
        print ' '.join(cmds)  
    else:  
        print cmds  
    output = None  
    try:  
        output = subprocess.check_output(cmds, cwd=cwd, shell=shell,  
                                         stderr=subprocess.STDOUT)  
    except subprocess.CalledProcessError as e:  
        print("error code", e.returncode, e.output)  
  
    return output  
  
# +91  
match = ".join([x for x in match if ord(x) >= 32 and ord(x) <= 126])
```