

# 第八次课后作业

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- 实现的算法      缺页率置换算法 PFF
- 使用的语言      python
- 程序代码      pff.py
- 参考了示例 page-replacement-policy.py 代码

## 测试样例

访问页面

```
1 | 3, 3, 4, 2, 3, 5, 3, 5, 1, 4
```

初始逻辑页面

```
1 | 1, 4, 5
```

时间间隔 T(串口大小)

```
1 | 2
```

## 测试结果

```
python ./pff.py -a 3,3,4,2,3,5,3,5,1,4 -i 1,4,5 -w 2 -c
ARG policy PFF
ARG addresses 3,3,4,2,3,5,3,5,1,4
ARG initial memory 1,4,5
ARG window 2
ARG seed 0
ARG notrace False

Solving...

Access: 3 MISS PFF -> [1, 3, 4, 5] <- Replaced: - [Hits: 0 Misses: 1]
Access: 3 HIT PFF -> [1, 3, 4, 5] <- Replaced: - [Hits: 1 Misses: 1]
Access: 4 HIT PFF -> [1, 3, 4, 5] <- Replaced: - [Hits: 2 Misses: 1]
Access: 2 MISS PFF -> [3, 4] <- Replaced: - [Hits: 2 Misses: 2]
Access: 3 HIT PFF -> [3, 4] <- Replaced: - [Hits: 3 Misses: 2]
Access: 5 MISS PFF -> [3, 4, 5] <- Replaced: - [Hits: 3 Misses: 3]
Access: 3 HIT PFF -> [3, 4, 5] <- Replaced: - [Hits: 4 Misses: 3]
Access: 5 HIT PFF -> [3, 4, 5] <- Replaced: - [Hits: 5 Misses: 3]
Access: 1 MISS PFF -> [3, 5] <- Replaced: - [Hits: 5 Misses: 4]
Access: 4 MISS PFF -> [3, 4, 5] <- Replaced: - [Hits: 5 Misses: 5]

FINALSTATS hits 5 misses 5 hitrate 50.00
```

## 代码参数说明

```
Usage: pff.py

this is a program about PFF Page-Fault-Frequency

Options:
--version           show program's version number and exit
-h, --help          show this help message and exit
-a ADDRESSES, --addresses=ADDRESSES
                   a set of comma-separated pages to access; -1 means
                   randomly generate
-i INITMEM, --initial memory=INITMEM
                   a set of comma-separated initial memory pages; -1 means
                   randomly generate
-w WINDOW, --window=WINDOW
                   size of T time window
-N, --notrace       do not print out a detailed trace
-c, --compute        compute answers for me
```