Chapter22

> 1．使用以下参数生成随机地址：-s 0 -n 10，-s 1 -n 10 和-s 2 -n 10。将策略从 FIFO 更改为 LRU，并将其更改为 OPT。计算所述地址追踪中的每个访问是否命中或未命中。

-s 0 -n 10：

```
./paging-policy.py -s 0 -n 10 -p FIFO -c

ARG addresses -1
ARG addressfile
ARG numaddrs 10
ARG policy FIFO
ARG clockbits 2
ARG cachesize 3
ARG maxpage 10
ARG seed 0
ARG notrace False

Access: 8  Hit/Miss? MISS        [8]
Access: 7  Hit/Miss? MISS     [8, 7]
Access: 4  Hit/Miss? MISS  [8, 7, 4]
Access: 2  Hit/Miss? MISS  [7, 4, 2]
Access: 5  Hit/Miss? MISS  [4, 2, 5]
Access: 4  Hit/Miss? HIT   [4, 2, 5]
Access: 7  Hit/Miss? MISS  [2, 5, 7]
Access: 3  Hit/Miss? MISS  [5, 7, 3]
Access: 4  Hit/Miss? MISS  [7, 3, 4]
Access: 5  Hit/Miss? MISS  [3, 4, 5]


./paging-policy.py -s 0 -n 10 -p LRU -c

ARG addresses -1
ARG addressfile
ARG numaddrs 10
ARG policy LRU
ARG clockbits 2
ARG cachesize 3
ARG maxpage 10
ARG seed 0
ARG notrace False

Access: 8  Hit/Miss? MISS        [8]
Access: 7  Hit/Miss? MISS     [8, 7]
Access: 4  Hit/Miss? MISS  [8, 7, 4]
Access: 2  Hit/Miss? MISS  [7, 4, 2]
Access: 5  Hit/Miss? MISS  [4, 2, 5]
Access: 4  Hit/Miss? HIT   [2, 5, 4]
```

```
Access: 7  Hit/Miss? MISS  [5, 4, 7]
Access: 3  Hit/Miss? MISS  [4, 7, 3]
Access: 4  Hit/Miss? HIT   [7, 3, 4]
Access: 5  Hit/Miss? MISS  [3, 4, 5]


./paging-policy.py -s 0 -n 10 -p OPT -c

ARG addresses -1
ARG addressfile
ARG numaddrs 10
ARG policy OPT
ARG clockbits 2
ARG cachesize 3
ARG maxpage 10
ARG seed 0
ARG notrace False

Access: 8  Hit/Miss? MISS        [8]
Access: 7  Hit/Miss? MISS     [8, 7]
Access: 4  Hit/Miss? MISS  [8, 7, 4]
Access: 2  Hit/Miss? MISS  [7, 4, 2]
Access: 5  Hit/Miss? MISS  [7, 4, 5]
Access: 4  Hit/Miss? HIT   [7, 4, 5]
Access: 7  Hit/Miss? HIT   [7, 4, 5]
Access: 3  Hit/Miss? MISS  [4, 5, 3]
Access: 4  Hit/Miss? HIT   [4, 5, 3]
Access: 5  Hit/Miss? HIT   [4, 5, 3]
```

-s 1 -n 10：

```
./paging-policy.py -s 1 -n 10 -p FIFO -c

ARG addresses -1
ARG addressfile
ARG numaddrs 10
ARG policy FIFO
ARG clockbits 2
ARG cachesize 3
ARG maxpage 10
ARG seed 1
ARG notrace False

Access: 1  Hit/Miss? MISS        [1]
Access: 8  Hit/Miss? MISS     [1, 8]
Access: 7  Hit/Miss? MISS  [1, 8, 7]
Access: 2  Hit/Miss? MISS  [8, 7, 2]
Access: 4  Hit/Miss? MISS  [7, 2, 4]
Access: 4  Hit/Miss? HIT   [7, 2, 4]
```

```
Access: 6  Hit/Miss? MISS  [2, 4, 6]
Access: 7  Hit/Miss? MISS  [4, 6, 7]
Access: 0  Hit/Miss? MISS  [6, 7, 0]
Access: 0  Hit/Miss? HIT   [6, 7, 0]
```

```
./paging-policy.py -s 1 -n 10 -p LRU -c

ARG addresses -1
ARG addressfile
ARG numaddrs 10
ARG policy LRU
ARG clockbits 2
ARG cachesize 3
ARG maxpage 10
ARG seed 1
ARG notrace False

Access: 1  Hit/Miss? MISS        [1]
Access: 8  Hit/Miss? MISS     [1, 8]
Access: 7  Hit/Miss? MISS  [1, 8, 7]
Access: 2  Hit/Miss? MISS  [8, 7, 2]
Access: 4  Hit/Miss? MISS  [7, 2, 4]
Access: 4  Hit/Miss? HIT   [7, 2, 4]
Access: 6  Hit/Miss? MISS  [2, 4, 6]
Access: 7  Hit/Miss? MISS  [4, 6, 7]
Access: 0  Hit/Miss? MISS  [6, 7, 0]
Access: 0  Hit/Miss? HIT   [6, 7, 0]
```

```
./paging-policy.py -s 1 -n 10 -p OPT -c

ARG addresses -1
ARG addressfile
ARG numaddrs 10
ARG policy OPT
ARG clockbits 2
ARG cachesize 3
ARG maxpage 10
ARG seed 1
ARG notrace False

Access: 1  Hit/Miss? MISS        [1]
Access: 8  Hit/Miss? MISS     [1, 8]
Access: 7  Hit/Miss? MISS  [1, 8, 7]
Access: 2  Hit/Miss? MISS  [1, 7, 2]
Access: 4  Hit/Miss? MISS  [1, 7, 4]
Access: 4  Hit/Miss? HIT   [1, 7, 4]
Access: 6  Hit/Miss? MISS  [1, 7, 6]
Access: 7  Hit/Miss? HIT   [1, 7, 6]
Access: 0  Hit/Miss? MISS  [1, 7, 0]
```

```
Access: 0  Hit/Miss? HIT   [1, 7, 0]
```

-s 2 -n 10 :

```
./paging-policy.py -s 2 -n 10 -p FIFO -c

ARG addresses -1
ARG addressfile
ARG numaddrs 10
ARG policy FIFO
ARG clockbits 2
ARG cachesize 3
ARG maxpage 10
ARG seed 2
ARG notrace False

Access: 9  Hit/Miss? MISS        [9]
Access: 9  Hit/Miss? HIT         [9]
Access: 0  Hit/Miss? MISS     [9, 0]
Access: 0  Hit/Miss? HIT      [9, 0]
Access: 8  Hit/Miss? MISS  [9, 0, 8]
Access: 7  Hit/Miss? MISS  [0, 8, 7]
Access: 6  Hit/Miss? MISS  [8, 7, 6]
Access: 3  Hit/Miss? MISS  [7, 6, 3]
Access: 6  Hit/Miss? HIT   [7, 6, 3]
Access: 6  Hit/Miss? HIT   [7, 6, 3]


./paging-policy.py -s 2 -n 10 -p LRU -c

ARG addresses -1
ARG addressfile
ARG numaddrs 10
ARG policy LRU
ARG clockbits 2
ARG cachesize 3
ARG maxpage 10
ARG seed 2
ARG notrace False

Access: 9  Hit/Miss? MISS        [9]
Access: 9  Hit/Miss? HIT         [9]
Access: 0  Hit/Miss? MISS     [9, 0]
Access: 0  Hit/Miss? HIT      [9, 0]
Access: 8  Hit/Miss? MISS  [9, 0, 8]
Access: 7  Hit/Miss? MISS  [0, 8, 7]
Access: 6  Hit/Miss? MISS  [8, 7, 6]
Access: 3  Hit/Miss? MISS  [7, 6, 3]
Access: 6  Hit/Miss? HIT   [7, 3, 6]
```

```
Access: 6  Hit/Miss? HIT   [7, 3, 6]


./paging-policy.py -s 2 -n 10 -p OPT -c

ARG addresses -1
ARG addressfile
ARG numaddrs 10
ARG policy OPT
ARG clockbits 2
ARG cachesize 3
ARG maxpage 10
ARG seed 2
ARG notrace False

Access: 9  Hit/Miss? MISS        [9]
Access: 9  Hit/Miss? HIT         [9]
Access: 0  Hit/Miss? MISS     [9, 0]
Access: 0  Hit/Miss? HIT      [9, 0]
Access: 8  Hit/Miss? MISS  [9, 0, 8]
Access: 7  Hit/Miss? MISS  [9, 0, 7]
Access: 6  Hit/Miss? MISS  [9, 0, 6]
Access: 3  Hit/Miss? MISS  [9, 6, 3]
Access: 6  Hit/Miss? HIT   [9, 6, 3]
Access: 6  Hit/Miss? HIT   [9, 6, 3]
```