Output:

Instruction: Read

Address: 5

At that byte, the value is 5 (Cache Miss)

Instruction: Read

Address: 6

At that byte, the value is 6 (Cache Hit)

Instruction: Read

Address: 7

At that byte, the value is 7 (Cache Hit)

Instruction: Read

Address: 14c

At that byte, the value is 4c (Cache Miss)

Instruction: Read

Address: 14d

At that byte, the value is 4d (Cache Hit)

Instruction: Read

Address: 14e

At that byte, the value is 4e (Cache Hit)

Instruction: Read

Address: 14f

At that byte, the value is 4f (Cache Hit)

Instruction: Read

Address: 150

At that byte, the value is 50 (Cache Miss)

Instruction: Read

Address: 151

At that byte, the value is 51 (Cache Hit)

Instruction: Read

Address: 3a6

At that byte, the value is a6 (Cache Miss)

Instruction: Read

Address: 4c3

At that byte, the value is c3 (Cache Miss)

Instruction: Display

Slot Valid Dirty Tag Data

0 1 0 0 0 1 2 3 4 5 6 7 8 9 a b c d e f

1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

4 1 0 1 40 41 42 43 44 45 46 47 48 49 4a 4b 4c 4d 4e 4f

5 1 0 1 50 51 52 53 54 55 56 57 58 59 5a 5b 5c 5d 5e 5f

6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

a 1 0 3 a0 a1 a2 a3 a4 a5 a6 a7 a8 a9 aa ab ac ad ae af

b 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

c 1 0 4 c0 c1 c2 c3 c4 c5 c6 c7 c8 c9 ca cb cc cd ce cf

d 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

e 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

f 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Instruction: Write

Address: 14c

New Value: 99

At that byte, the value 99 has been written (Cache Hit)

Instruction: Write

Address: 63b

New Value: 7

At that byte, the value 7 has been written (Cache Miss)

Instruction: Read

Address: 582

At that byte, the value is 82 (Cache Miss)

Instruction: Display

Slot Valid Dirty Tag Data

0 1 0 0 0 1 2 3 4 5 6 7 8 9 a b c d e f

1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

3 1 1 6 30 31 32 33 34 35 36 37 38 39 3a 7 3c 3d 3e 3f

4 1 1 1 40 41 42 43 44 45 46 47 48 49 4a 4b 99 4d 4e 4f

5 1 0 1 50 51 52 53 54 55 56 57 58 59 5a 5b 5c 5d 5e 5f

6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

8 1 0 5 80 81 82 83 84 85 86 87 88 89 8a 8b 8c 8d 8e 8f

9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

a 1 0 3 a0 a1 a2 a3 a4 a5 a6 a7 a8 a9 aa ab ac ad ae af

b 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

c 1 0 4 c0 c1 c2 c3 c4 c5 c6 c7 c8 c9 ca cb cc cd ce cf

d 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

e 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

f 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Instruction: Read

Address: 348

Conflict Miss: Block in slot written back to Main Memory starting at address 140

At that byte, the value is 48 (Cache Miss)

Instruction: Read

Address: 3f

Conflict Miss: Block in slot written back to Main Memory starting at address 630

At that byte, the value is 3f (Cache Miss)

Instruction: Display

Slot Valid Dirty Tag Data

0 1 0 0 0 1 2 3 4 5 6 7 8 9 a b c d e f

1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

3 1 0 0 30 31 32 33 34 35 36 37 38 39 3a 3b 3c 3d 3e 3f

4 1 0 3 40 41 42 43 44 45 46 47 48 49 4a 4b 4c 4d 4e 4f

5 1 0 1 50 51 52 53 54 55 56 57 58 59 5a 5b 5c 5d 5e 5f

6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

8 1 0 5 80 81 82 83 84 85 86 87 88 89 8a 8b 8c 8d 8e 8f

9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

a 1 0 3 a0 a1 a2 a3 a4 a5 a6 a7 a8 a9 aa ab ac ad ae af

b 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

c 1 0 4 c0 c1 c2 c3 c4 c5 c6 c7 c8 c9 ca cb cc cd ce cf

d 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

e 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

f 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Instruction: Read

Address: 14b

At that byte, the value is 4b (Cache Miss)

Instruction: Read

Address: 14c

At that byte, the value is 99 (Cache Hit)

Instruction: Read

Address: 63f

At that byte, the value is 3f (Cache Miss)

Instruction: Read

Address: 83

At that byte, the value is 83 (Cache Miss)

Instruction: Display

Slot Valid Dirty Tag Data

0 1 0 0 0 1 2 3 4 5 6 7 8 9 a b c d e f

1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

3 1 0 6 30 31 32 33 34 35 36 37 38 39 3a 7 3c 3d 3e 3f

4 1 0 1 40 41 42 43 44 45 46 47 48 49 4a 4b 99 4d 4e 4f

5 1 0 1 50 51 52 53 54 55 56 57 58 59 5a 5b 5c 5d 5e 5f

6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

8 1 0 0 80 81 82 83 84 85 86 87 88 89 8a 8b 8c 8d 8e 8f

9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

a 1 0 3 a0 a1 a2 a3 a4 a5 a6 a7 a8 a9 aa ab ac ad ae af

b 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

c 1 0 4 c0 c1 c2 c3 c4 c5 c6 c7 c8 c9 ca cb cc cd ce cf

d 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

e 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

f 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0