1:

0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000

2:

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3:

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4:

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5:

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6:

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7:

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8:

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9:

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11:

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17:

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21:

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24:

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30:

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31:

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Results Verification:

C1

LI !1  4 $2 ->

0001000000000000010000010

0001000000000100000000010

2: 0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000-0100-0000

7 6 5 4 3 2 1 0 .

0:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

1:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

2:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000100-0000000000000000

3:

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C2

LI !5 10 $1

0101000000000000101000001

1: 0000000000000000-0000000000000000-0000000000000000-0000000000001010-0000000000000000-0000000000000000-0000000000000000-0000000000000000

7 6 5 4 3 2 1 0 .

0:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

1:

0000000000000000-0000000000000000-0000000000001010-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

2:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000100-0000000000000000

3:

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C3 NOP → 11 00000000000000000000000

C4

SHRHI i2 $1 $5

1100000001000100000100101

0000000000001010 shifted twice is 0000000000000010

7 6 5 4 3 2 1 0 .

0:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

1:

0000000000000000-0000000000000000-0000000000001010-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

2:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000100-0000000000000000

3:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

4:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

5:

0000000000000000-0000000000000000-0000000000000010-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

6:

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7:

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31:

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C5

CNT1H $0 $5 $6

1100000011000000010100110

Count 1s in reg 5 , only 1 in index 5. Place in r6.

7 6 5 4 3 2 1 0 .

0:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

1:

0000000000000000-0000000000000000-0000000000001010-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

2:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000100-0000000000000000

3:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

4:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

5:

0000000000000000-0000000000000000-0000000000000010-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

6:

0000000000000000-0000000000000000-0000000000000001-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

7:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

8:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

9:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

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31:

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C6 NOP

C7 NOP

C8 NOP

C9

LI !1 35000 $3

0001100010001011100000011

7 6 5 4 3 2 1 0 .

0:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

1:

0000000000000000-0000000000000000-0000000000001010-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

2:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000100-0000000000000000

3:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-1000100010111000-0000000000000000

4:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

5:

0000000000000000-0000000000000000-0000000000000010-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

6:

0000000000000000-0000000000000000-0000000000000001-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

7:

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31:

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C10

LI !3 4000 $4

0011000011111010000000100

7 6 5 4 3 2 1 0 .

0:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

1:

0000000000000000-0000000000000000-0000000000001010-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

2:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000100-0000000000000000

3:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-1000100010111000-0000000000000000

4:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000111110100000-0000000000000000-0000000000000000-0000000000000000

5:

0000000000000000-0000000000000000-0000000000000010-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

6:

0000000000000000-0000000000000000-0000000000000001-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

7:

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31:

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C11

LI !5 -32400 $7

0101100000010111000000111

7 6 5 4 3 2 1 0 .

0:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

1:

0000000000000000-0000000000000000-0000000000001010-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

2:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000100-0000000000000000

3:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-1000100010111000-0000000000000000

4:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000111110100000-0000000000000000-0000000000000000-0000000000000000

5:

0000000000000000-0000000000000000-0000000000000010-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

6:

0000000000000000-0000000000000000-0000000000000001-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

7:

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31:

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Nops…

MAH $4 $1 $7 $11

1000000100000010011101011

7 6 5 4 3 2 1 0 .

0:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

1:

0000000000000000-0000000000000000-0000000000001010-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

2:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000100-0000000000000000

3:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-1000100010111000-0000000000000000

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MSH $4 $7 $1 $15

1001100100001110000101111

7 6 5 4 3 2 1 0 .

0:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

1:

0000000000000000-0000000000000000-0000000000001010-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000

2:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000100-0000000000000000

3:

0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-0000000000000000-1000100010111000-0000000000000000

4:

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LI !2 25 $17

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LI !1 50 $18

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CNT1H $0 $17 $19

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CNT1H $0 $18 $20

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0 011 1111111111100010 10101

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MAH $17 $21 $4 $22

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