(3.60)

- A) x is in rdi, n is in esi and ecx, result is in rax, and mask is in edx.
- B) The initial value of result is 0 and the initial value of mask is 1.
- C) The test condition is that mask is non-zero.
- D) Mask is left-shifted by n.
- E) Resulted is ored with the x masked with mask.

```
long loop(long x, long n) {
    long result = 0;
    long mask;
    for (mask = 1; mask != 0; mask = mask << n) {
       result |= mask & x;
    }
    return result;
}</pre>
```

(3.63)

```
long switch prob(long x, long n) {
    long result = x;
    switch (n) {
        case 60:
        case 62:
            result = 8*x;
            break;
        case 63:
            result = x \gg 3;
            break;
            result = 15*x;
            x = result;
        case 65:
            x \star = x;
        default:
            result = x + 75;
    return result;
```