```
Entry
X |{ v0_1
               := \phi [v0, Entry] [v0 2, Z]
    v1_1
               := \phi [v1, Entry] [v1_2, Z]
               := \phi [0, Entry] [i_1, Z]
    phi_mul := \phi [0, Entry] [next_mul, Z] }
    exitcond := ( i == 32)
               := i + 1
    i 1
    if (exitcond) then goto Exit else goto Next step
    next_mul := phi_mul + 0x9e3779b9
Y
               := v1 1 << 4
    tmp
               := tmp + k0 read
    tmp1
               := v1 1 >> 5
    tmp2
    tmp3
               := tmp2 + k1 read
               := v1 1 + next mul
    tmp4
Z
    tmp5
               := tmp3 xor tmp4
    tmp6
               := tmp5 xor tmp1
     v0 2
               := tmp6 + v0 1
               = v0 2 << 4
    tmp7
               := tmp7 + k2 read
    tmp8
               = v0 2 >> 5
    tmp9
    tmp10 := tmp9 + k3 read
    tmp11 := v0 2 + next mul
    tmp12
             := tmp11 xor tmp8
    tmp13 := tmp12 + tmp10
           := tmp13 + v1_1
    v1 2
     Go to X
```

Exit