```
Entry
X
    v0_1
            = v0
    v1 1
              = v1
              := 0
    phi_mul := 0
    exitcond := (i == 32)
    i 1
          := i + 1
    next_mul := phi_mul + 0x9e3779b9
Y
              := v1 1 << 4
    tmp
              := tmp + k0 read
    tmp1
            = v1 1 >> 5
    tmp2
              := tmp2 + k1 read
    tmp3
              := v1 1 + next mul
    tmp4
Z
    tmp5
              := tmp3 xor tmp4
              := tmp5 xor tmp1
    tmp6
    v0 2
              := tmp6 + v0 1
              = v0 2 << 4
    tmp7
    tmp8
              := tmp7 + k2 read
          = v0 2 >> 5
    tmp9
    tmp10 := tmp9 + k3\_read
    tmp11 := v0_2 + next_mul
    tmp12 := tmp11 xor tmp8
    tmp13
              := tmp12 + tmp10
    v1 2
              := tmp13 + v1 1
    v0 1
               = v0 2
\mathbf{X}
    v1 1
         = v1 2
               :=i 1
    phi_mul := next_mul
    exitcond := (i == 32)
              := i + 1
    i 1
    next mul := phi mul + 0x9e3779b9
Y
               := v1 1 << 4
    tmp
    tmp1
              := tmp + k0 read
                                                      S_{loop}
              := v1 1 >> 5
    tmp2
    tmp3
              := tmp2 + k1 read
              := v1 1 + next mul
    tmp4
Z
              := tmp3 xor tmp4
    tmp5
    tmp6
               := tmp5 xor tmp1
    v0 2
              := tmp6 + v0 1
              = v0 2 << 4
    tmp7
    tmp8
              := tmp7 + k2 read
    tmp9
              = v0 2 >> 5
    tmp10
              := tmp9 + k3 read
    tmp11
              := v0 2 + next mul
    tmp12 := tmp11 xor tmp8
    tmp13 := tmp12 + tmp10
    v1 2
              := tmp13 + v1 1
    v0 1
               := v0 2
    v1_1
              = v1 2
              :=i 1
    phi mul := next_mul
    exitcond := (i == 32)
               := i + 1
                                                      S_{\text{preExit}}
    i 1
```

Exit