

Entry



X

```
{ v0_1      :=  $\phi$  [v0, Entry] [v0_2, Z]
  v1_1      :=  $\phi$  [v1, Entry] [v1_2, Z]
  i         :=  $\phi$  [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

```
tmp        := v1_1 << 4
tmp1       := tmp + k0_read
tmp2       := v1_1 >> 5
tmp3       := tmp2 + k1_read
tmp4       := v1_1 + next_mul
```



Z

```
tmp5       := tmp3 xor tmp4
tmp6       := tmp5 xor tmp1
v0_2       := tmp6 + v0_1
tmp7       := v0_2 << 4
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
Go to X
```



Exit

