Entry

```
v0_1        := v0
v1_1        := v1
i           := 0
phi_mul     := 0
exitcond    := ( i == 32)
i_1         := i + 1
next_mul    := phi_mul + 0x9e3779b9
next_reg    := next_mul
```

```
tmp         := v1_1 << 4
tmp1        := tmp + k0_read
tmp2        := v1_1 >> 5
tmp3        := tmp2 + k1_read
tmp4        := v1_1 + next_reg
next_reg2   := next_reg
```

```
i           := i_1
phi_mul     := next_mul
exitcond    := ( i == 32)
i_1         := i + 1
next_mul    := phi_mul + 0x9e3779b9
next_reg    := next_mul
```

P_{pre}

```
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_reg2
tmp12       := tmp11 xor tmp8
tmp13       := tmp12 + tmp10
v1_2        := tmp13 + v1_1
v0_1        := v0_2
v1_1        := v1_2
```

```
tmp         := v1_1 << 4
tmp1        := tmp + k0_read
tmp2        := v1_1 >> 5
tmp3        := tmp2 + k1_read
tmp4        := v1_1 + next_reg
next_reg2   := next_reg
```

```
i           := i_1
phi_mul     := next_mul
exitcond    := ( i == 32)
i_1         := i + 1
next_mul    := phi_mul + 0x9e3779b9
next_reg    := next_mul
```

P_{loop}

```
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_reg2
tmp12       := tmp11 xor tmp8
tmp13       := tmp12 + tmp10
v1_2        := tmp13 + v1_1
v0_1        := v0_2
v1_1        := v1_2
```

```
tmp         := v1_1 << 4
tmp1        := tmp + k0_read
tmp2        := v1_1 >> 5
tmp3        := tmp2 + k1_read
tmp4        := v1_1 + next_reg
next_reg2   := next_reg
```

```
i           := i_1
phi_mul     := next_mul
exitcond    := ( i == 32)
i_1         := i + 1
```

$S_{preExit}$

```
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_reg2
tmp12       := tmp11 xor tmp8
tmp13       := tmp12 + tmp10
v1_2        := tmp13 + v1_1
v0_1        := v0_2
v1_1        := v1_2
```

P_{post}

Exit