```c
void encipher(unsigned int num_rounds, uint32_t v[2], uint32_t const key[4])
{
        unsigned int i;
        uint32_t v0=v[0],
        v1=v[1],
        sum=0,
        delta=0x9E3779B9;
        for (i=0; i < num_rounds; i++)
                { v0 += (((v1 << 4) ^ (v1 >> 5)) + v1) ^ (sum + key[sum & 3]);
                sum += delta;
                v1 += (((v0 << 4) ^ (v0 >> 5)) + v0) ^ (sum + key[(sum>>11) & 3]);
        }
        v[0]=v0;
        v[1]=v1;  }
```