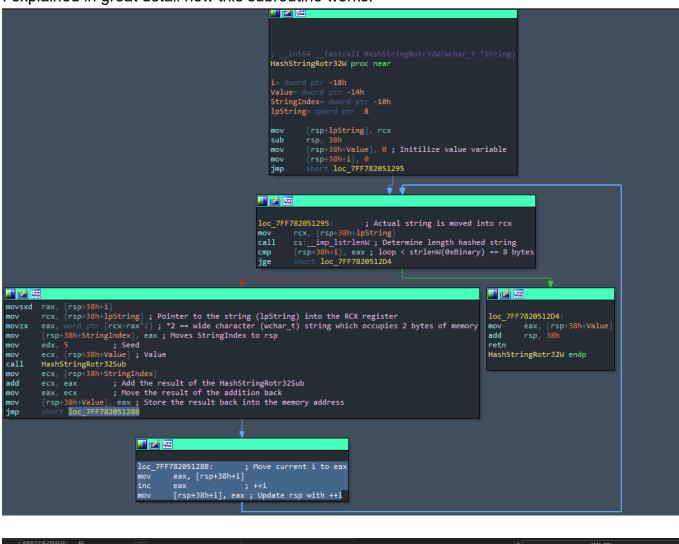
ROTR 32 Hashing Algorithm

ROTR 32 Subroutine

I explained in great detail how this subroutine works.





HashStringRotr32Sub

This subroutine performs a rotation operation on the input Value by Count positions to the right while ensuring that the count stays within the valid bit range.

This code block rotates the bits of Value to the right by Count positions (Value >> Count). It then rotates the bits of Value to the left by the complement of Count (effectively rotating left by

32 - Count positions) and masks the result with Mask to ensure it stays within the valid bit range. Finally, it combines the two results using bitwise OR (1).

```
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HashStringRotr32Sub proc near
mask= dword ptr -18h
arg 0= dword ptr 8
arg_8= dword ptr 10h
        [rsp+16], edx
mov
        [rsp+arg_0], ecx
mov
        rsp, 18h
sub
       [rsp+18h+mask], 31
mov
        eax, [rsp+18h+mask]
mov
        ecx, [rsp+18h+arg_8]
mov
        ecx, eax
and
        eax, ecx
mov
mov
       [rsp+18h+arg_8], eax
        eax, [rsp+18h+arg 8]
mov
        ecx, al
movzx
        eax, [rsp+18h+arg_0]
mov
        eax, cl
shr
        ecx, [rsp+18h+arg_8]
mov
        ecx
neg
and
        ecx, [rsp+18h+mask]
        edx, [rsp+18h+arg_0]
mov
shl
        edx, cl
        ecx, edx
mov
        eax, ecx
or
add
        rsp, 18h
HashStringRotr32Sub endp
```