

ERC 2646 basic calculation

```
deposit ()
```

```
function withdraw(uint256 _shares) public {

uint256 r = (balance().mul(_shares)).div(totalSupply());
    _burn(msg.sender, _shares);

uint b = ioken.balanceOf(address(this));

if (b < r) {

    uint _withdraw = r.sub(b);

    IStrategy(strategy).withdraw(_withdraw);

    uint _after = token.balanceOf(address(this));

    uint _diff = _after.sub(b);

    if (_diff < _withdraw) {

        r = b.add(_diff);
    }
}</pre>
```

```
1USDC = 1-000-000
For 1st deposit
```

```
10 USDC 1:1
aproit() 1:1
10_000_000 = Vault tokens
```

```
withdraw() total supply (CUSDC)
```

```
10-000-000 x 10-000:000 = 10 CUSDO
```

Atlack
If an attacker is somehow able to increase
if an attacker is somehow increasing

	tal Sup	., X	fotal	otal Supply			
	• •	· W	wind x	Contro	ict bal	unce	
	· Pom	10 U.S	SDC depol	ited.			•
٠	. \.	i noò	900 x.		= Q		٠
۰	• •			1000,001	•		0
٠							0
	cken Front to 1 0.000	ool USDC	VAULT				
FR2	FRI du	900	bal=10.00000	050,	10_000.	.000 x i	= 0
USCH	1003	ipc if()	Supply =!	Shakes	10.0	00.001	
(USC)	(1400)		• •	•		. 15 . 1	٠.
	· alpos	ackedu and	at this t	fime has	, all M with	ne share	
	· Atto	ackeru and ba	at this to can ru lance.			ne share	٠

Canoni	. deposited			X+	x total supply balance				٠	٠
mount				. ~				1Cl		
Open	2e	p.li	η							٠
· Mou	nt	dos	001	ited	X	tot	at s	upp (y. +	- [
· Man				•	•		bal	an ce	+ 	•
	. 10.	_000.	- 00	x. c	2	•	= 1			٠
	•	٠	٠	•	10-000		=	IVT		٠
	AH	ackl	H	10-0	000.	<i>0</i> 00	•	IVT	٠	۰
			٠		٠	٠	٠			٠
Sunario	.	٠	٠	٠		υĊ	٠			٠
Amache		20 - 10 - 1	000 000	000	0	ντ	•		•	•
• •	٠		71	Bur	ned	K	Vav	1t b	olan	ce
	1	+ 7	019	1 31	oppo	1	٠	٠	٠	٠
	•	•	•	1 ×	30	_00	0 - 00		15-0	00