

signUserOperationHashWithECDSA

Signs the hash of the User Operation with the standard ECDSA signature scheme (used by all EOAs and most smart wallets).

Can take in either the hash of the User Operation or a combination of the User Operation, chain ID and entry point address (calculating the hash internally).

Requires either a walletClient or a localAccount to be passed in that will be used to sign the hash.

Import

```
...  
  
import{ signUserOperationHashWithECDSA }from"permissionless"  
...
```

Usage

The function can take in either a combination of userOperation and chainId or userOperationHash , or alternatively a hash can be passed in directly.

```
...  
  
import{ signUserOperationHashWithECDSA, ENTRYPOINT_ADDRESS_V07 }from"permissionless"  
  
constsignature=awaitsignUserOperationHashWithECDSA({ account: localAccount,// or client: walletClient userOperation:..., chainId:5,  
entryPoint:ENTRYPOINT_ADDRESS_V07 }) //  
"0x2d9420e06e41603c60ce395cfab6821f09c3c2461734dd785f24084a8ee138774f5d1910fb6d2d560934b21946a9667ada6077b5ac143c0d6a5d93e903c172101b"  
  
// or  
  
constsignature=awaitsignUserOperationHashWithECDSA({ account: localAccount,// or client: walletClient  
hash:"0xf0d56baa398828898360589d5ef75b24b12be0829ef1e1037013d1b6d9dda1f2" }) //  
"0x2d9420e06e41603c60ce395cfab6821f09c3c2461734dd785f24084a8ee138774f5d1910fb6d2d560934b21946a9667ada6077b5ac143c0d6a5d93e903c172101b"  
...
```

Returns

Hex

The 65-byte ECDSA signature of the hash of the User Operation.

Parameters

account (mutually exclusive with client)

- Type:
- LocalAccount

The account to sign the hash with.

client (mutually exclusive with account)

- Type:
- WalletClient

The client to sign the hash with.

hash (mutually exclusive with userOperation, entryPoint and chainId)

- Type:
- Hex

The hash of the User Operation to sign.

userOperation (mutually exclusive with hash)

- Type:
- UserOperation

The User Operation to hash.

chainId (mutually exclusive with hash)

- Type:
- number

The chain ID of the chain on which the User Operation is being executed.

entryPoint (mutually exclusive with hash)

- Type:
- Address

The entry point address.