

# MakerTraitsLib

```
type MakerTraits is uint256;
```

## Functions

### hasExtension

```
function hasExtension(  
    MakerTraits makerTraits  
) internal pure returns (bool)
```

### Parameters:

Name	Type	Description
<code>makerTraits</code>	MakerTraits	

### Return values

Type	Description
bool	

### isAllowedSender

```
function isAllowedSender(  
    MakerTraits makerTraits,  
    address sender  
) internal pure returns (bool)
```

### Parameters:

Name	Type	Description
<code>makerTraits</code>	MakerTraits	

Name	Type	Description
sender	address	

## Return values

Type	Description
bool	

## isExpired

```
function isExpired(  
    MakerTraits makerTraits  
) internal view returns (bool)
```

## Parameters:

Name	Type	Description
makerTraits	MakerTraits	

## Return values

Type	Description
bool	

## nonceOrEpoch

```
function nonceOrEpoch(  
    MakerTraits makerTraits  
) internal pure returns (uint256)
```

## Parameters:

Name	Type	Description
makerTraits	MakerTraits	

## Return values

Type	Description
uint256	

# series

```
function series(  
    MakerTraits makerTraits  
) internal pure returns (uint256)
```

## Parameters:

Name	Type	Description
<code>makerTraits</code>	MakerTraits	

## Return values

Type	Description
uint256	

# allowPartialFills

```
function allowPartialFills(  
    MakerTraits makerTraits  
) internal pure returns (bool)
```

## Parameters:

Name	Type	Description
<code>makerTraits</code>	MakerTraits	

## Return values

Type	Description
bool	

# allowImproveRateVialInteraction

```
function allowImproveRateVialInteraction(  
    MakerTraits makerTraits  
) internal pure returns (bool)
```

## Parameters:

Name	Type	Description
makerTraits	MakerTraits	

## Return values

Type	Description
bool	

## needPreInteractionCall

```
function needPreInteractionCall(  
    MakerTraits makerTraits  
) internal pure returns (bool)
```

## Parameters:

Name	Type	Description
makerTraits	MakerTraits	

## Return values

Type	Description
bool	

## needPostInteractionCall

```
function needPostInteractionCall(  
    MakerTraits makerTraits  
) internal pure returns (bool)
```

## Parameters:

Name	Type	Description
makerTraits	MakerTraits	

## Return values

Type	Description
bool	

# allowMultipleFills

```
function allowMultipleFills(  
    MakerTraits makerTraits  
) internal pure returns (bool)
```

## Parameters:

Name	Type	Description
makerTraits	MakerTraits	

## Return values

Type	Description
bool	

# useBitInvalidator

```
function useBitInvalidator(  
    MakerTraits makerTraits  
) internal pure returns (bool)
```

## Parameters:

Name	Type	Description
makerTraits	MakerTraits	

## Return values

Type	Description
bool	

# needCheckEpochManager

```
function needCheckEpochManager(  
    MakerTraits makerTraits  
) internal pure returns (bool)
```

## Parameters:

Name	Type	Description
makerTraits	MakerTraits	

## Return values

Type	Description
bool	

## usePermit2

```
function usePermit2(  
    MakerTraits makerTraits  
) internal pure returns (bool)
```

## Parameters:

Name	Type	Description
makerTraits	MakerTraits	

## Return values

Type	Description
bool	

## unwrapWeth

```
function unwrapWeth(  
    MakerTraits makerTraits  
) internal pure returns (bool)
```

## Parameters:

Name	Type	Description
makerTraits	MakerTraits	

## Return values

Type	Description
bool	

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