

Namespace SnowflakeID

Classes

[Snowflake](#)

This class represents the Snowflake object. [Wikipedia article about SnowflakeId](#) 

[SnowflakeIDGenerator](#)

Generator class for [SnowflakeID](#).

This keeps track of time, machine number and sequence.

[SnowflakeIDGeneratorOptions](#)

Option object for [SnowflakeIDGenerator](#)

[SnowflakeIDGeneratorServiceCollectionExtensions](#)

Extension method to register [SnowflakeIDGenerator](#)

Interfaces

[ISnowflakeIDGenerator](#)

Generator class for [Snowflake](#).

This keeps track of time, machine number and sequence.

[ISnowflakeIDGeneratorClsCompliant](#)

Generator class for [SnowflakeID](#).

This keeps track of time, machine number and sequence.

Interface ISnowflakeIDGenerator

Namespace: [SnowflakeID](#)

Assembly: SnowflakeIDGenerator.dll

Generator class for [Snowflake](#).

This keeps track of time, machine number and sequence.

```
[CLSCompliant(false)]  
public interface ISnowflakeIDGenerator
```

Properties

ConfiguredEpoch

Date configured as epoch for the generator

```
DateTime ConfiguredEpoch { get; }
```

Property Value

[DateTime](#)

ConfiguredMachineId

Configured instance id for the generator

```
int ConfiguredMachineId { get; }
```

Property Value

[int](#)

Methods

GetCode()

Gets next Snowflake as number ()

```
ulong GetCode()
```

Returns

[ulong](#)[↗]

GetCodeString()

Gets next Snowflake as

```
string GetCodeString()
```

Returns

[string](#)[↗]

GetSnowflake()

Gets next Snowflake id

```
Snowflake GetSnowflake()
```

Returns

[Snowflake](#)

Interface

ISnowflakeIDGeneratorClsCompliant

Namespace: [SnowflakeID](#)

Assembly: SnowflakeIDGenerator.dll

Generator class for [SnowflakeID](#).

This keeps track of time, machine number and sequence.

```
public interface ISnowflakeIDGeneratorClsCompliant
```

Properties

ConfiguredEpoch

Date configured as epoch for the generator

```
DateTime ConfiguredEpoch { get; }
```

Property Value

[DateTime](#)

ConfiguredMachineId

Configured instance id for the generator

```
int ConfiguredMachineId { get; }
```

Property Value

[int](#)

Methods

GetCodeString()

Gets next Snowflake as

```
string GetCodeString()
```

Returns

[string](#)

GetSnowflake()

Gets next Snowflake id

```
Snowflake GetSnowflake()
```

Returns

[Snowflake](#)

Class Snowflake

Namespace: [SnowflakeID](#)

Assembly: SnowflakeIDGenerator.dll

This class represents the Snowflake object. [Wikipedia article about SnowflakeID](#)

```
public class Snowflake : IEquatable<Snowflake>, IComparable<Snowflake>, IComparable
```

Inheritance

[object](#) ← Snowflake

Implements

[IEquatable](#) <[Snowflake](#)>, [IComparable](#) <[Snowflake](#)>, [IComparable](#)

Inherited Members

[object.Equals\(object, object\)](#), [object.GetType\(\)](#), [object.MemberwiseClone\(\)](#),
[object.ReferenceEquals\(object, object\)](#)

Constructors

Snowflake()

Class constructor using default epoch (UNIX time 1-1-1970)

```
public Snowflake()
```

Snowflake(DateTime)

Class constructor using a custom date as epoch.

```
public Snowflake(DateTime epoch)
```

Parameters

epoch [DateTime](#)

Date to use as epoch

Fields

MaxMachineId

Max number of machines / servers allowed. Range from 0 to MaxMachineId-1

```
public const long MaxMachineId = 1024
```

Field Value

[long](#)

MaxSequence

The amount of codes generated per millisecond. Sequence value is set to 0 when this value is reached.

```
public const long MaxSequence = 4096
```

Field Value

[long](#)

NumberOfDigits

Total number of digits for the generated code

```
public static readonly int NumberOfDigits
```

Field Value

[int](#)

Properties

Code

Gets snowflakeId from string

```
public string Code { get; }
```

Property Value

[string](#)

Epoch

Current epoch being used

```
public DateTime Epoch { get; }
```

Property Value

[DateTime](#)

Id

Gets snowflakeId.

```
[CLSCompliant(false)]  
public virtual ulong Id { get; }
```

Property Value

[ulong](#)

MachineId

Gets / Sets machine / server number


```
[CLSCompliant(false)]  
public ulong MachineId { get; set; }
```

Property Value

[ulong](#)

Exceptions

[ArgumentOutOfRangeException](#)

MachineIdInt32

Gets / Sets machine / server number

```
public int MachineIdInt32 { get; set; }
```

Property Value

[int](#)

Exceptions

[ArgumentOutOfRangeException](#)

Sequence

Gets / Sets sequence

```
[CLSCompliant(false)]  
public ulong Sequence { get; set; }
```

Property Value

[ulong](#)

Exceptions

[ArgumentOutOfRangeException](#)

SequenceInt32

Gets / Sets machine / server number

```
public int SequenceInt32 { get; set; }
```

Property Value

[int](#)

Exceptions

[ArgumentOutOfRangeException](#)

Timestamp

Gets / Sets timeStamp as number of milliseconds since selected epoch

```
[CLSCompliant(false)]  
public ulong Timestamp { get; set; }
```

Property Value

[ulong](#)

TimestampInt64

Gets / Sets timeStamp as number of milliseconds since selected epoch

```
public long TimestampInt64 { get; set; }
```

Property Value

[long](#)

Exceptions

[ArgumentOutOfRangeException](#)↗

UtcDateTime

Sets the timeStamp portion of the snowflake based on current time and selected epoch.
Gets real time of the snowflake based on selected epoch.

```
public DateTime UtcDateTime { get; set; }
```

Property Value

[DateTime](#)↗

Methods

ChangeEpoch(DateTime)

Changes the snowflake's epoch keeping the code intact. This changes the represented [Utc DateTime](#).

```
public void ChangeEpoch(DateTime newEpoch)
```

Parameters

newEpoch [DateTime](#)↗

CompareTo(Snowflake)

Implements of [CompareTo\(T\)](#)↗

```
public int CompareTo(Snowflake other)
```

Parameters

other [Snowflake](#)

Returns

[int](#)

Exceptions

[SnowflakesUsingDifferentEpochsException](#)

When comparing ids generated using different epochs, since there's not an order in that case

CompareTo(object)

Implements of [CompareTo\(object\)](#)

```
public int CompareTo(object obj)
```

Parameters

obj [object](#)

Returns

[int](#)

Exceptions

[SnowflakesUsingDifferentEpochsException](#)

When comparing ids generated using different epochs, since there's not an order in that case

Equals(Snowflake)

Checks equality between two SnowflakeId objects

```
public virtual bool Equals(Snowflake other)
```

Parameters

other [Snowflake](#)

Returns

[bool](#)

Equals(object)

Checks equality between two SnowflakeId objects

```
public override bool Equals(object obj)
```


Parameters

obj [object](#)

Returns

[bool](#)

FromString(string)

Explicit cast from [string](#)

```
public static Snowflake FromString(string s)
```

Parameters

s [string](#)

Returns

[Snowflake](#)

FromUInt64(ulong)

Explicit cast from [ulong](#)

```
[CLSCompliant(false)]  
public static Snowflake FromUInt64(ulong s)
```

Parameters

s [ulong](#)

Returns

[Snowflake](#)

GetHashCode()

Serves as the default hash function. Override of [GetHashCode\(\)](#)

```
public override int GetHashCode()
```

Returns

[int](#)

Parse(string)

Creates a SnowflakeId object from a SnowflakeId code

```
public static Snowflake Parse(string s)
```

Parameters

s [string](#)

Code

Returns

[Snowflake](#)

Parse(string, DateTime)

Creates a SnowflakeId object from a SnowflakeId code using a custom epoch

```
public static Snowflake Parse(string s, DateTime customEpoch)
```

Parameters

s [string](#)

Code

customEpoch [DateTime](#)

Date to use as epoch

Returns

[Snowflake](#)

Parse(ulong)

Creates a SnowflakeId object from a SnowflakeId code

```
[CLSCompliant(false)]  
public static Snowflake Parse(ulong b)
```

Parameters

b [ulong](#)

Code

Returns

[Snowflake](#)

Parse(ulong, DateTime)

Creates a SnowflakeId object from a SnowflakeId code using a custom epoch

```
[CLSCompliant(false)]  
public static Snowflake Parse(ulong b, DateTime customEpoch)
```

Parameters

b [ulong](#)

Code

customEpoch [DateTime](#)

Date to use as epoch

Returns

[Snowflake](#)

RebaseEpoch(DateTime)

Rebase the Snowflake to a new epoch CHANGING THE GENERATED CODE but keeping the same date and time.

```
public void RebaseEpoch(DateTime newEpoch)
```

Parameters

newEpoch [DateTime](#)

ToString()

Gets code as string

```
public override string ToString()
```


Returns

[string](#)

SnowflakeId code

ToUInt64()

Implicit cast to [ulong](#)

```
[CLSCompliant(false)]  
public ulong ToUInt64()
```

Returns

[ulong](#)

Operators

operator ==(Snowflake, Snowflake)

Equality operator

```
public static bool operator ==(Snowflake s1, Snowflake s2)
```

Parameters

s1 [Snowflake](#)

s2 [Snowflake](#)

Returns

[bool](#)

explicit operator Snowflake(string)

Explicit cast from [string](#)

```
public static explicit operator Snowflake(string s)
```

Parameters

s [string](#)

Returns

[Snowflake](#)

explicit operator Snowflake(ulong)

Explicit cast from [ulong](#)

```
[CLSCompliant(false)]  
public static explicit operator Snowflake(ulong s)
```

Parameters

s [ulong](#)

Returns

[Snowflake](#)

operator >(Snowflake, Snowflake)

Greater than operator

```
public static bool operator >(Snowflake s1, Snowflake s2)
```

Parameters

s1 [Snowflake](#)

s2 [Snowflake](#)

Returns

[bool](#) 

Exceptions

[SnowflakesUsingDifferentEpochsException](#)

When comparing ids generated using different epochs, since there's not an order in that case

operator >=(Snowflake, Snowflake)

Greater than or equal to operator

```
public static bool operator >=(Snowflake s1, Snowflake s2)
```

Parameters

s1 [Snowflake](#)

s2 [Snowflake](#)

Returns

[bool](#) 

Exceptions

[SnowflakesUsingDifferentEpochsException](#)

When comparing ids generated using different epochs, since there's not an order in that case

implicit operator string(Snowflake)

Implicit cast to [string](#) 

```
public static implicit operator string(Snowflake s)
```

Parameters

s [Snowflake](#)

Returns

[string](#)

implicit operator ulong(Snowflake)

Implicit cast to [ulong](#)

```
[CLSCompliant(false)]  
public static implicit operator ulong(Snowflake s)
```

Parameters

s [Snowflake](#)

Returns

[ulong](#)

operator !=(Snowflake, Snowflake)

Inequality operator

```
public static bool operator !=(Snowflake s1, Snowflake s2)
```

Parameters

s1 [Snowflake](#)

s2 [Snowflake](#)

Returns

[bool](#)

operator <(Snowflake, Snowflake)

Less than operator

```
public static bool operator <(Snowflake s1, Snowflake s2)
```

Parameters

s1 [Snowflake](#)

s2 [Snowflake](#)

Returns

[bool](#)

Exceptions

[SnowflakesUsingDifferentEpochsException](#)

When comparing ids generated using different epochs, since there's not an order in that case

operator <=(Snowflake, Snowflake)

Less than or equal to operator

```
public static bool operator <=(Snowflake s1, Snowflake s2)
```

Parameters

s1 [Snowflake](#)

s2 [Snowflake](#)

Returns

[bool](#)

Exceptions

[SnowflakesUsingDifferentEpochsException](#)

When comparing ids generated using different epochs, since there's not an order in that case

Class SnowflakeIDGenerator

Namespace: [SnowflakeID](#)

Assembly: SnowflakeIDGenerator.dll

Generator class for [SnowflakeID](#).

This keeps track of time, machine number and sequence.

```
public class SnowflakeIDGenerator : ISnowflakeIDGenerator,  
ISnowflakeIDGeneratorClsCompliant
```

Inheritance

[object](#) ← SnowflakeIDGenerator

Implements

[ISnowflakeIDGenerator](#), [ISnowflakeIDGeneratorClsCompliant](#)

Inherited Members

[object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.GetType\(\)](#), [object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

Constructors

SnowflakeIDGenerator(int)

Creates a SnowflakeIDGenerator for a given machine number

```
public SnowflakeIDGenerator(int machineId)
```

Parameters

machineId [int](#)

Machine number

Exceptions

[ArgumentOutOfRangeException](#)

`machineId` must be less than `Snowflake.MaxMachineId`

SnowflakeIDGenerator(int, DateTime)

Creates a `SnowflakeIDGenerator` for a given machine number using a custom date as epoch

```
public SnowflakeIDGenerator(int machineId, DateTime customEpoch)
```

Parameters

`machineId` [int](#)

Machine number

`customEpoch` [DateTime](#)

Date to use as epoch

Exceptions

[ArgumentOutOfRangeException](#)

`machineId` must be less than `Snowflake.MaxMachineId`

SnowflakeIDGenerator(ulong)

Creates a `SnowflakeIDGenerator` for a given machine number

```
[CLSCompliant(false)]  
public SnowflakeIDGenerator(ulong machineId)
```

Parameters

`machineId` [ulong](#)

Machine number

Exceptions

[ArgumentOutOfRangeException](#)

`machineId` must be less than `Snowflake.MaxMachineId`

SnowflakeIDGenerator(ulong, DateTime)

Creates a `SnowflakeIDGenerator` for a given machine number using a custom date as epoch

```
[CLSCompliant(false)]  
public SnowflakeIDGenerator(ulong machineId, DateTime customEpoch)
```

Parameters

`machineId` [ulong](#)

Machine number

`customEpoch` [DateTime](#)

Date to use as epoch

Exceptions

[ArgumentOutOfRangeException](#)

`machineId` must be less than `Snowflake.MaxMachineId`

Properties

ConfiguredEpoch

Date configured as epoch for the generator

```
public DateTime ConfiguredEpoch { get; }
```

Property Value

[DateTime](#)

ConfiguredMachineId

Configured instance id for the generator

```
public int ConfiguredMachineId { get; }
```

Property Value

[int](#)

Methods

GetCode()

Gets next Snowflake as number ()

```
[CLSCompliant(false)]  
public ulong GetCode()
```

Returns

[ulong](#)

GetCode(ulong)

Static method Gets next Snowflake as for a given

```
[CLSCompliant(false)]  
public static ulong GetCode(ulong machineId)
```

Parameters

machineId [ulong](#)

Machine number

Returns

[ulong](#)

GetCode(ulong, DateTime)

Static method Gets next Snowflake as for a given using a custom date as epoch

```
[CLSCompliant(false)]  
public static ulong GetCode(ulong machineId, DateTime customEpoch)
```

Parameters

machineId [ulong](#)

Machine number

customEpoch [DateTime](#)

Date to use as epoch

Returns

[ulong](#)

GetCodeString()

Gets next Snowflake as

```
public string GetCodeString()
```

Returns

[string](#)

GetCodeString(int)

Gets next Snowflake as for a given

```
public static string GetCodeString(int machineId)
```

Parameters

machineId [int](#)

Returns

[string](#)

GetCodeString(int, DateTime)

Gets next Snowflake as for a given using a custom date as epoch

```
public static string GetCodeString(int machineId, DateTime customEpoch)
```

Parameters

machineId [int](#)

customEpoch [DateTime](#)

Date to use as epoch

Returns

[string](#)

GetCodeString(ulong)

Gets next Snowflake as for a given

```
[CLSCompliant(false)]  
public static string GetCodeString(ulong machineId)
```

Parameters

machineId [ulong](#)

Returns

[string](#)

GetCodeString(ulong, DateTime)

Gets next Snowflake as for a given using a custom date as epoch

```
[CLSCompliant(false)]  
public static string GetCodeString(ulong machineId, DateTime customEpoch)
```

Parameters

machineId [ulong](#)

customEpoch [DateTime](#)

Date to use as epoch

Returns

[string](#)

GetSnowflake()

Gets next Snowflake id

```
public Snowflake GetSnowflake()
```

Returns

[Snowflake](#)

GetSnowflake(int)

Static method Gets next Snowflake id for a given

```
public static Snowflake GetSnowflake(int machineId)
```

Parameters

machineId [int](#)

Machine number

Returns

[Snowflake](#)

GetSnowflake(int, DateTime)

Static method Gets next Snowflake id for a given using a custom date as epoch

```
public static Snowflake GetSnowflake(int machineId, DateTime customEpoch)
```

Parameters

machineId [int](#)

Machine number

customEpoch [DateTime](#)

Date to use as epoch

Returns

[Snowflake](#)

GetSnowflake(ulong)

Static method Gets next Snowflake id for a given

```
[CLSCompliant(false)]  
public static Snowflake GetSnowflake(ulong machineId)
```

Parameters

machineId [ulong](#)[↗]

Machine number

Returns

[Snowflake](#)

GetSnowflake(ulong, DateTime)

Static method Gets next Snowflake id for a given using a custom date as epoch

```
[CLSCompliant(false)]
```

```
public static Snowflake GetSnowflake(ulong machineId, DateTime customEpoch)
```

Parameters

machineId [ulong](#)[↗]

Machine number

customEpoch [DateTime](#)[↗]

Date to use as epoch

Returns

[Snowflake](#)

Class SnowflakeIdGeneratorOptions

Namespace: [SnowflakeID](#)

Assembly: SnowflakeIDGenerator.DependencyInjection.dll








Option object for [SnowflakeIDGenerator](#)

```
public class SnowflakeIdGeneratorOptions
```

Inheritance

[object](#)  ← SnowflakeIdGeneratorOptions

Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  ,
[object.GetType\(\)](#)  , [object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  ,
[object.ToString\(\)](#) 

Properties

Epoch

String representing date to use as epoch Use this in options

```
public string Epoch { get; set; }
```

Property Value

[string](#) 

MachineId

Machine number

```
public int MachineId { get; set; }
```

Property Value

Class

SnowflakeIdGeneratorServiceCollectionExtensions

Namespace: [SnowflakeID](#)

Assembly: SnowflakeIDGenerator.DependencyInjection.dll








Extension method to register [SnowflakeIDGenerator](#)

```
public static class SnowflakeIdGeneratorServiceCollectionExtensions
```

Inheritance

[object](#)  ← [SnowflakeIdGeneratorServiceCollectionExtensions](#)

Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  , [object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

Methods

AddSnowflakeIdGeneratorService(IServiceCollection)

Registers a [SnowflakeIDGenerator](#) in [ISnowflakeIDGenerator](#)

```
public static IServiceCollection AddSnowflakeIdGeneratorService(this  
IServiceCollection serviceCollection)
```

Parameters

serviceCollection [IServiceCollection](#) 

The [IServiceCollection](#)  to add services to.

Returns

[IServiceCollection](#) 

AddSnowflakeIdGeneratorService(IServiceCollection, SnowflakeIdGeneratorOptions)

Registers a [SnowflakeIdGenerator](#) in [ISnowflakeIdGenerator](#)

```
public static IServiceCollection AddSnowflakeIdGeneratorService(this  
IServiceCollection serviceCollection, SnowflakeIdGeneratorOptions options)
```

Parameters

serviceCollection [IServiceCollection](#) 

The [IServiceCollection](#)  to add services to.

options [SnowflakeIdGeneratorOptions](#)

Option object. Useful when obtaining from IConfigurationSection

Returns

[IServiceCollection](#) 

AddSnowflakeIdGeneratorService(IServiceCollection, int)

Registers a [SnowflakeIdGenerator](#) in [ISnowflakeIdGenerator](#)

```
public static IServiceCollection AddSnowflakeIdGeneratorService(this  
IServiceCollection serviceCollection, int machineId)
```

Parameters

serviceCollection [IServiceCollection](#) 

The [IServiceCollection](#)  to add services to.

machineId [int](#) 

Machine number

Returns

[IServiceCollection](#)

AddSnowflakeIdGeneratorService(IServiceCollection, int, DateTime)

Registers a [SnowflakeIdGenerator](#) in [ISnowflakeIdGenerator](#)

```
public static IServiceCollection AddSnowflakeIdGeneratorService(this  
IServiceCollection serviceCollection, int machineId, DateTime customEpoch)
```

Parameters

`serviceCollection` [IServiceCollection](#)

The [IServiceCollection](#) to add services to.

`machineId` [int](#)

Machine number

`customEpoch` [DateTime](#)

Date to use as epoch

Returns

[IServiceCollection](#)

AddSnowflakeIdGeneratorService(IServiceCollection, long, DateTime)

Registers a [SnowflakeIdGenerator](#) in [ISnowflakeIdGenerator](#)

```
public static IServiceCollection AddSnowflakeIdGeneratorService(this  
IServiceCollection serviceCollection, long machineId, DateTime customEpoch)
```

Parameters

`serviceCollection` [IServiceCollection](#)

The [IServiceCollection](#) to add services to.

`machineId` [long](#)

Machine number

`customEpoch` [DateTime](#)

Date to use as epoch

Returns

[IServiceCollection](#)

AddSnowflakeIdGeneratorService(IServiceCollection, ulong)

Registers a [SnowflakeIdGenerator](#) in [ISnowflakeIdGenerator](#)

```
public static IServiceCollection AddSnowflakeIdGeneratorService(this  
IServiceCollection serviceCollection, ulong machineId)
```

Parameters

`serviceCollection` [IServiceCollection](#)

The [IServiceCollection](#) to add services to.

`machineId` [ulong](#)

Machine number

Returns

[IServiceCollection](#)

AddSnowflakeIdGeneratorService(IServiceCollection, ulong, DateTime)

Registers a [SnowflakeIdGenerator](#) in [ISnowflakeIdGenerator](#)

```
public static IServiceCollection AddSnowflakeIdGeneratorService(this  
IServiceCollection serviceCollection, ulong machineId, DateTime customEpoch)
```

Parameters

`serviceCollection` [IServiceCollection](#) 

The [IServiceCollection](#)  to add services to.

`machineId` [ulong](#) 

Machine number

`customEpoch` [DateTime](#) 

Date to use as epoch

Returns

[IServiceCollection](#) 

Namespace SnowflakeID.Exceptions

Classes

[SnowflakesUsingDifferentEpochsException](#)

When trying to compare Ids using different epochs

Class

SnowflakesUsingDifferentEpochsException





Namespace: [SnowflakeID.Exceptions](#)

Assembly: SnowflakeIDGenerator.dll

When trying to compare Ids using different epochs

```
[Serializable]  
public class SnowflakesUsingDifferentEpochsException : ArgumentException,  
ISerializable
```




















Inheritance

[object](#)  ← [Exception](#)  ← [SystemException](#)  ← [ArgumentException](#)  ←
SnowflakesUsingDifferentEpochsException

Implements

[ISerializable](#) 

Inherited Members

[ArgumentException.GetObjectData\(SerializationInfo, StreamingContext\)](#)  ,
[ArgumentException.Message](#)  , [ArgumentException.ParamName](#)  ,
[Exception.GetBaseException\(\)](#)  , [Exception.GetType\(\)](#)  , [Exception.ToString\(\)](#)  ,
[Exception.Data](#)  , [Exception.HelpLink](#)  , [Exception.HResult](#)  , [Exception.InnerException](#)  ,
[Exception.Source](#)  , [Exception.StackTrace](#)  , [Exception.TargetSite](#)  ,
[Exception.SerializeObjectState](#)  , [object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  ,
[object.GetHashCode\(\)](#)  , [object.MemberwiseClone\(\)](#)  ,
[object.ReferenceEquals\(object, object\)](#) 

Constructors

SnowflakesUsingDifferentEpochsException()

Initializes a new instance of the [SnowflakesUsingDifferentEpochsException](#) class.

```
public SnowflakesUsingDifferentEpochsException()
```


SnowflakesUsingDifferentEpochsException(SerializationInfo, StreamingContext)

Initializes a new instance of the [SnowflakesUsingDifferentEpochsException](#) class with serialized data.

```
protected SnowflakesUsingDifferentEpochsException(SerializationInfo  
    serializationInfo, StreamingContext streamingContext)
```

Parameters

serializationInfo [SerializationInfo](#) 

The object that holds the serialized object data.

streamingContext [StreamingContext](#) 

The contextual information about the source or destination.

SnowflakesUsingDifferentEpochsException(string)

Initializes a new instance of the [SnowflakesUsingDifferentEpochsException](#) class with a specified error message.

```
public SnowflakesUsingDifferentEpochsException(string message)
```

Parameters

message [string](#) 

The error message that explains the reason for the exception.

SnowflakesUsingDifferentEpochsException(string, Exception)

Initializes a new instance of the [SnowflakesUsingDifferentEpochsException](#) class with a specified error message and a reference to the inner exception that is the cause of this exception.


```
public SnowflakesUsingDifferentEpochsException(string message,  
Exception innerException)
```

Parameters

message [string](#) 

The error message that explains the reason for the exception.

innerException [Exception](#) 

The exception that is the cause of the current exception. If the **innerException** parameter is not a null reference, the current exception is raised in a [catch](#)  block that handles the inner exception.

SnowflakesUsingDifferentEpochsException(string, string)

Initializes a new instance of the [SnowflakesUsingDifferentEpochsException](#) class with a specified error message and the name of the parameter that causes this exception.

```
public SnowflakesUsingDifferentEpochsException(string message, string paramName)
```

Parameters

message [string](#) 

The error message that explains the reason for the exception.

paramName [string](#) 

The name of the parameter that caused the current exception.

SnowflakesUsingDifferentEpochsException(string, string, Exception)

Initializes a new instance of the [SnowflakesUsingDifferentEpochsException](#) class with a specified error message, the parameter name, and a reference to the inner exception that is the cause of this exception.

```
public SnowflakesUsingDifferentEpochsException(string message, string paramName,
Exception innerException)
```

Parameters

message [string](#)

The error message that explains the reason for the exception.

paramName [string](#)

The name of the parameter that caused the current exception.

innerException [Exception](#)

The exception that is the cause of the current exception. If the **innerException** parameter is not a null reference, the current exception is raised in a [catch](#) block that handles the inner exception.

Fields

DefaultMessage

Default message

```
public const string DefaultMessage = "When comparing SnowflakeIds, both should be
using the same epoch for the comparison to make sense."
```

Field Value

[string](#)

Namespace SnowflakeID.Helpers

Classes

[GlobalConstants](#)

Global constants.

Class GlobalConstants


Namespace: [SnowflakeID.Helpers](#)

Assembly: SnowflakeIDGenerator.dll








Global constants.

```
public static class GlobalConstants
```

Inheritance

[object](#)  ← GlobalConstants

Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  ,
[object.GetType\(\)](#)  , [object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  ,
[object.ToString\(\)](#) 

Fields

DefaultEpoch

Default date used as epoch if not configured

```
public static readonly DateTime DefaultEpoch
```

Field Value

[DateTime](#) 