

System.Globalization.DateTimeFormatInfo Class

```
[ILASM]
.class public sealed serializable DateTimeFormatInfo
extends System.Object implements System.ICloneable,
System.IFormatProvider

[C#]
public sealed class DateTimeFormatInfo: ICloneable,
IFormatProvider
```

Assembly Info:

- *Name:* mscorlib
- *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00]
- *Version:* 1.0.x.x
- *Attributes:*
 - CLSCompliantAttribute(true)

Implements:

- **System.ICloneable**
- **System.IFormatProvider**

Summary

Defines culture-specific formats and patterns for **System.DateTime** values.

Inherits From: System.Object

Library: BCL

Thread Safety: This type is safe for multithreaded operations.

Description

System.DateTime values are formatted by the **System.DateTime.ParseExact** and **System.DateTime.ToString** methods according to standard or custom patterns stored in the properties of a **System.Globalization.DateTimeFormatInfo** instance. The standard patterns can be accessed and modified through the associated **System.Globalization.DateTimeFormatInfo** properties. [Note: The format patterns and properties of a read-only **System.Globalization.DateTimeFormatInfo** instance cannot be changed. To determine whether a

System.Globalization.DateTimeFormatInfo instance is read-only, use the **System.Globalization.DateTimeFormatInfo.IsReadOnly** property.]

Date and time format patterns are specified using strings called *format specifiers*. A string is interpreted as standard format specifier if it contains exactly one standard format specifier character. If the string contains a single character and that character is not one of the standard format specifiers, an exception is thrown. If the string contains two or more characters, even if the extra characters are white spaces, the string is interpreted as a custom format specifier. Format specifiers and format patterns are case-sensitive; for example, 'g' and 'G' represent different patterns.

The following table shows the standard format specifiers and the associated format pattern defined for the invariant culture. The exact pattern produced by a format specifier is influenced by culture-specific date and/or time settings on the current system; computers with different date and time settings might display different patterns. The asterisk at the end of a format pattern indicates that the preceding character may be repeated without changing the meaning of the pattern. For example, the pattern "HH*" indicates that the strings "HH", "HHH", "HHHH", and "HHHHH" produce the same result when used with **System.DateTime.ParseExact** and **System.DateTime.ToString** methods.

Format Specifier	Format Pattern	Description
d	MM/dd/yyyy	The full date in numeric format (System.Globalization.DateTimeFormatInfo.ShortDatePattern)
D	dddd*, MMMM* dd, yyyy	The full date including the day of the week and the name of the month (System.Globalization.DateTimeFormatInfo.LongDatePattern)
f	dddd*, MMMM* dd, yyyy HH*:mm*	The full date and time, including the day of the week and the name of the month (System.Globalization.DateTimeFormatInfo.LongDatePattern) combined with System.Globalization.DateTimeFormatInfo.ShortTimePattern
F	dddd*, MMMM* dd, yyyy HH*:mm*:ss*	The full date and time, including the seconds (System.Globalization.DateTimeFormatInfo.FullDateTimePattern) equivalent to System.Globalization.DateTimeFormatInfo.LongDatePattern combined with System.Globalization.DateTimeFormatInfo.LongTimePattern
g	MM/dd/yyyy HH*:mm*	A general date pattern including the short time form (System.Globalization.DateTimeFormatInfo.ShortDatePattern) combined with System.Globalization.DateTimeFormatInfo.ShortTimePattern
G	MM/dd/yyyy HH*:mm*:ss*	A general date pattern including the long time form (System.Globalization.DateTimeFormatInfo.ShortDatePattern) combined with System.Globalization.DateTimeFormatInfo.LongTimePattern

		combined with System.Globalization.DateTimeFormatInfo.LongTimePattern
m, M	MMMM* dd	The full name of the month and the date (System.Globalization.DateTimeFormatInfo.MonthDayPattern)
t	HH*:mm*	The time in short format (System.Globalization.DateTimeFormatInfo.ShortTimePattern)
T	HH*:mm*:ss*	The time in long format (System.Globalization.DateTimeFormatInfo.LongTimePattern)
U	dddd*, MMMM* dd, yyyy HH*:mm*:ss*	The full date and time, including the seconds, in the Gregorian calendar (System.Globalization.DateTimeFormatInfo.FullDateTimePattern)
y, Y	YYYY MMMM*	The full name of the month and the year in four-digit format (System.Globalization.DateTimeFormatInfo.YearMonthPattern)

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The following table lists custom format specifiers that can be combined to construct custom patterns. If the custom pattern contains white space characters, characters enclosed in single or double quotation marks, or characters not defined in the following table, these characters are considered literals and are included in the output string unchanged. [Note: See the **System.String** class for the list of white space characters.]

Format Pattern	Description	Exam
d	The day of the month as a value in the range 1-31, inclusive. Single-digit days do not have a leading zero.	1 22
dd	The day of the month as a value in the range 1-31, inclusive. Single-digit days have a leading zero.	01 22
ddd	The abbreviated name of the day of the week, as defined in System.Globalization.DateTimeFormatInfo.AbbreviatedDayNames .	Mon
dddd*	The full name of the day of the week, as defined in System.Globalization.DateTimeFormatInfo.DayNames .	Monday
M	The numeric month as a value in the range 1-12, inclusive. Single-digit months do not have a leading zero.	2 11
MM	The numeric month as a value in the range 1-12, inclusive. Single-digit months have a leading zero.	02 11
MMM	The abbreviated name of the month, as defined in	Feb

	System.Globalization.DateTimeFormatInfo.AbbreviatedMonthNames.	
MMMM*	The full name of the month, as defined in System.Globalization.DateTimeFormatInfo.MonthNames.	Febru
y	The year without the century (two-digit). If the value is less than 10, the year is displayed with no leading zero.	0 3
yy	The year without the century (two-digit). If the year without the century is less than 10, the year is displayed with a leading zero.	00 03
yyyy	The year including the century in four digits.	2000 2003
g*	The name of a period or era (such as "A.D." or "B.C."). This pattern is ignored if the date to be formatted does not have an associated period or era string.	A.D.
h	The hour within a 12-hour range as a value in the range 1-12, inclusive. Single-digit hours do not have a leading zero. [Note: The value represents whole hours passed since either midnight (12) or noon (12). To distinguish between values occurring before and after noon, include the "t" or "tt*" custom format specifier.]	3 11
hh*	The hour within a 12-hour range as a value in the range 1-12, inclusive. Single-digit hours have a leading zero. [Note: The value represents whole hours passed since either midnight (12) or noon (12). To distinguish between values occurring before and after noon, include the "t" or "tt*" custom format specifier.]	03 11
H	The hour as a value in the range 0-23, inclusive. Single-digit hours do not have a leading zero. [Note: The value represents whole hours passed since midnight.]	3 13
HH*	The hour as a value in the range 0 and 23, inclusive. Single-digit hours have a leading zero. [Note: The value represents whole hours passed since midnight.]	03 13
m	The minute as a value in the range 0-59, inclusive. Single-digit minutes do not have a leading zero. [Note: The value represents whole minutes passed since the last hour.]	5 15
mm*	The minute as a value in the range 0-59, inclusive. Single-digit minutes have a leading zero. [Note: The value represents whole minutes passed since the last hour.]	05 15
s	The second as a value in the range 0-59, inclusive. Single-digit seconds do not have a leading zero. [Note: The value represents whole seconds passed since the last minute.]	1 30

ss*	The second as a value in the range 0-59, inclusive. Single-digit seconds have a leading zero. [Note: The value represents whole seconds passed since the last minute.]	01 30
f	Displays fractional seconds represented in one digit.	1
ff	Displays fractional seconds represented in two digits.	01
fff	Displays fractional seconds represented in three digits.	001
ffff	Displays fractional seconds represented in four digits.	0001
fffff	Displays fractional seconds represented in five digits.	00001
ffffff	Displays fractional seconds represented in six digits.	000001
fffffff	Displays fractional seconds represented in seven digits.	0000001
t	The first character of the AM/PM designator defined in the System.Globalization.DateTimeFormatInfo property System.Globalization.DateTimeFormatInfo.AMDesignator or System.Globalization.DateTimeFormatInfo.PMDesignator . [Note: If the total number of hours passed since midnight is less than 12, the A.M. designator is used; otherwise the P.M. designator is used.]	A P
tt*	The AM/PM designator defined in the System.Globalization.DateTimeFormatInfo property System.Globalization.DateTimeFormatInfo.AMDesignator or System.Globalization.DateTimeFormatInfo.PMDesignator . [Note: If the total number of hours passed since midnight is less than 12, the A.M. designator is used; otherwise the P.M. designator is used.]	AM PM
z	The time zone offset (hour only) from the universal time coordinate (UTC) time (Greenwich Mean Time) as a value in the range -12 to +13, inclusive. Single-digit hours do not have a leading zero. [Note: The value always includes a leading sign (zero is '+0'), indicating hours ahead of UTC time (+) or hours behind UTC time (-). The offset takes Daylight Savings Time into account.]	-8
zz	The time zone offset (hour only) from the UTC time (Greenwich Mean Time) as a value in the range -12 to +13, inclusive. Single-digit hours have a leading zero. [Note: The value always includes a leading sign (zero is '+0'), indicating hours ahead of UTC time (+) or hours behind UTC time (-). The offset takes Daylight Savings Time into account.]	-08
zzz*	The full time zone offset (hour and minutes) from the UTC time (Greenwich Mean Time) as a value in the range -12:00 to +13:00, inclusive. Single-digit hours and minutes have leading zeros. [Note: The value always includes a leading sign (zero is '+0'), indicating hours ahead of UTC time (+) or hours behind UTC time (-). The offset takes Daylight Savings Time into account.]	-08:0
:	The invariant culture time separator defined in System.Globalization.DateTimeFormatInfo.TimeSeparator .	:
/	The invariant culture date separator defined in the System.Globalization.DateTimeFormatInfo.DateSeparator .	/
%c	c represents a single custom format character. Produces the custom format pattern associated with the format character c. The %c specifier provides a mechanism for specifying a single custom format character and having it recognized as a custom specifier. This format is intended for characters that	"%y" produ a two year

	define both a custom and a standard format. Note that a format string containing exactly one such character will be interpreted as a standard format specifier unless prefaced with the %. [Note: For example, for the invariant culture, "%d" produces the single or double digit date, while "d" produces the date in "MM/dd/yyyy" format. Without the %, a format string containing one character would have to include leading or trailing white space to be interpreted as a custom specifier because custom formats are required to have two or more characters.]	witho leadir zero, not th "MMM yyyy" patter
\c	c represents any character predefined as part of a format specifier. Prevents the character from being interpreted as a format specifier (the character is treated as a literal). [Note: In programming languages where the backslash ('\') character is used to specify control sequences such as newline (\n), the backslash character is required to be specified twice. For example, in C#, "\d" is coded as "\\d".]	"\d" produ the chara 'd', ar not th day o montl
'xx' or "xx"	xx represents a string of characters of any length. The characters are treated as literals.	"'d'" produ the chara 'd', ar not th day o montl

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1 DateTimeFormatInfo() Constructor

```
2 [ILASM]  
3 public rtspecialname specialname instance void .ctor()  
4 [C#]  
5 public DateTimeFormatInfo()
```

6 Summary

7 Constructs and initializes a new instance of the
8 **System.Globalization.DateTimeFormatInfo** class that is culture-
9 independent (invariant).

10 Description

11 The new instance of **System.Globalization.DateTimeFormatInfo** is
12 not read-only, and its properties can be modified with user-defined
13 patterns.

14

1 DateTimeFormatInfo.Clone() Method

```
2 [ILASM]  
3 .method public final hidebysig virtual object Clone()  
4 [C#]  
5 public object Clone()
```

6 Summary

7 Creates a copy of the current instance.

8 Return Value

9

10 A new **System.Globalization.DateTimeFormatInfo** instance with
11 property values equal to the property values of the original
12 **System.Globalization.DateTimeFormatInfo** instance.

13 Description

14 The **System.Globalization.DateTimeFormatInfo.Clone** method
15 creates a new instance of the same type as the current instance, and
16 then copies the contents of each of the current instance's non-static
17 fields.

18
19 The new instance is not read-only, and its properties can be modified
20 with user-defined patterns.

21
22 [*Note:* This method is implemented to support the
23 **System.ICloneable** interface.]

24

1 DateTimeFormatInfo.GetAbbreviatedMonthName(System.Int32) Method

```
3 [ILASM]
4 .method public hidebysig instance string
5 GetAbbreviatedMonthName(int32 month)
6
7 [C#]
8 public string GetAbbreviatedMonthName(int month)
```

8 Summary

9 Gets the abbreviated name of the specified month based on the
10 culture of the current thread.

11 Parameters

12
13

Parameter	Description
<i>month</i>	A System.Int32 from 1 through 13 representing the month name to retrieve.

14
15
16

15 Return Value

17 A **System.String** containing the abbreviated name of the month
18 represented by *month*. For cultures with 12-month calendars, the
19 empty string is returned as the name of the 13th month.

20 Description

21 For the default (culture-invariant)
22 **System.Globalization.DateTimeFormatInfo** instance, this method
23 returns one of the following strings:

	Return Value
1	"Jan"
2	"Feb"
3	"Mar"
4	"Apr"
5	"May"
6	"Jun"
7	"Jul"
8	"Aug"
9	"Sep"

10	"Oct"
11	"Nov"
12	"Dec"
13	""

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[*Note:* This method supports calendars with 13 months.]

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Exceptions

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Exception	Condition
System.ArgumentOutOfRangeException	<i>month</i> is less than 1 or greater than 13.

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8

1 DateTimeFormatInfo.GetEra(System.String) Method

```
3 [ILASM]
4 .method public hidebysig instance int32 GetEra(string
5 eraName)
6
7 [C#]
8 public int GetEra(string eraName)
```

8 Summary

9 Gets a **System.Int32** representing the specified era.

10 Parameters

11
12

Parameter	Description
<i>eraName</i>	A System.String containing the name of the era.

13
14
15

14 Return Value

16 A **System.Int32** representing the era. If *eraName* is invalid, returns -
17 1.

18 Description

19 The value specified for *eraName* is case-insensitive.

20
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[*Note:* An era name is a culturally specific name for a period of time marked by distinctive character or reckoned from a fixed point or event. For example "A.D." and "B.C." are two eras of the Gregorian calendar.]

25 Exceptions

26
27

Exception	Condition
System.ArgumentNullException	<i>eraName</i> is a null reference.

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29
30

1 DateTimeFormatInfo.GetEraName(System 2 .Int32) Method

```
3 [ILASM]  
4 .method public hidebysig instance string GetEraName(int32  
5 era)  
  
6 [C#]  
7 public string GetEraName(int era)
```

8 Summary

9 Gets the **System.String** containing the name of the specified era.

10 Parameters

11
12

Parameter	Description
<i>era</i>	A System.Int32 representing the era.

13

14 Return Value

15

16 A **System.String** containing the name of the era.

17 Description

18 [Note: An era name is a culturally specific name for a period of time
19 marked by distinctive character or reckoned from a fixed point or
20 event. For example "A.D." and "B.C." are two eras of the Gregorian
21 calendar.]

22 Exceptions

23

24

Exception	Condition
System.ArgumentOutOfRangeException	<i>era</i> does not represent a valid era in calendar for the current thread.

25

26

27

1 DateTimeFormatInfo.GetFormat(System.Type) Method

```
3 [ILASM]  
4 .method public final hidebysig virtual object  
5 GetFormat(class System.Type formatType)  
  
6 [C#]  
7 public object GetFormat(Type formatType)
```

8 Summary

9 Returns an object of the specified type that provides
10 **System.DateTime** formatting services.

11 Parameters

12
13

Parameter	Description
<i>formatType</i>	The System.Type of the formatting object to be returned.

14
15
16

Return Value

17 A formatting object of the specified **System.Type**. If no formatting
18 object of the specified type is available, or *formatType* is a null
19 reference, returns the formatting object for the current culture.

20 Description

21 [Note: This method is implemented to support the
22 **System.IFormatProvider** interface.]

23

1 DateTimeFormatInfo.GetMonthName(System.Int32) Method

```
3 [ILASM]  
4 .method public hidebysig instance string GetMonthName(int32  
5 month)  
  
6 [C#]  
7 public string GetMonthName(int month)
```

8 Summary

9 Gets the full name of the specified month based on the culture of the
10 current thread.

11 Parameters

12
13

Parameter	Description
<i>month</i>	A System.Int32 from 1 through 13 representing the month name to retrieve.

14
15
16

15 Return Value

17 A **System.String** containing the full name of the month represented
18 by *month*. For cultures with 12-month calendars the empty string is
19 returned as the name of the 13th month.

20 Description

21 For the default (culture invariant)
22 **System.Globalization.DateTimeFormatInfo** instance, this method
23 returns one of the following strings:

	Return Value
1	"January"
2	"February"
3	"March"
4	"April"
5	"May"
6	"June"
7	"July"
8	"August"
9	"September"

10	"October"
11	"November"
12	"December"
13	""

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[*Note:* This method supports calendars with 13 months.]

3 **Exceptions**

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Exception	Condition
System.ArgumentOutOfRangeException	<i>month</i> is less than 1 or greater than 13.

6
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8

1 DateTimeFormatInfo.ReadOnly(System.Globalizati 2 on.Globalization.DateTimeFormatInfo) Method

```
3 [ILASM]  
4 .method public hidebysig static class  
5 System.Globalization.DateTimeFormatInfo ReadOnly(class  
6 System.Globalization.DateTimeFormatInfo dtfi)  
  
7 [C#]  
8 public static DateTimeFormatInfo  
9 ReadOnly(DateTimeFormatInfo dtfi)
```

10 Summary

11 Returns a read-only copy of the specified instance of
12 **System.Globalization.DateTimeFormatInfo**.

13 Parameters

14
15

Parameter	Description
<i>dtfi</i>	The System.Globalization.DateTimeFormatInfo to copy.

16
17
18

17 Return Value

19 A read-only instance of **System.Globalization.DateTimeFormatInfo**
20 that is a copy of *dtfi*.

21 Description

22 [Note: Use a read-only **System.Globalization.DateTimeFormatInfo**
23 copy to prevent modifications to the specified instance.]

24 Exceptions

25
26

Exception	Condition
System.ArgumentNullException	<i>dtfi</i> is a null reference.

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29

1 DateTimeFormatInfo.AbbreviatedDayNames Property

```
3 [ILASM]
4 .property class System.String[] AbbreviatedDayNames {
5 public hidebysig specialname instance class System.String[]
6 get_AbbreviatedDayNames() public hidebysig specialname
7 instance void set_AbbreviatedDayNames(class System.String[]
8 value) }
9
10 [C#]
11 public string[] AbbreviatedDayNames { get; set; }
```

11 Summary

12 Gets or sets a one-dimensional array of type **System.String**
13 containing the culture-specific abbreviated names of the days of the
14 week.

15 Property Value

17 A one-dimensional array of type **System.String** containing the
18 culture-specific abbreviated names of the days of the week.

19 Description

20 The array specified in a set operation is required to be one-
21 dimensional and have exactly seven elements. The first element of the
22 array is the abbreviated day name for Sunday, and the last element is
23 the name for Saturday.

24
25 The property value of the culture invariant
26 **System.Globalization.DateTimeFormatInfo.AbbreviatedDayNames**
27 is a **System.String** array that contains "Sun", "Mon", "Tue",
28 "Wed", "Thu", "Fri" and "Sat".

29 Exceptions

30
31

Exception	Condition
System.ArgumentNullException	The value specified for a set operation is a null reference.
System.ArgumentException	The value specified for a set operation is not an array with exactly 7 elements.
System.InvalidOperationException	The current instance is read-only and a set operation was attempted.

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1 DateTimeFormatInfo.AbbreviatedMonthNames Property

```
3 [ILASM]
4 .property class System.String[] AbbreviatedMonthNames {
5 public hidebysig specialname instance class System.String[]
6 get_AbbreviatedMonthNames() public hidebysig specialname
7 instance void set_AbbreviatedMonthNames(class
8 System.String[] value) }
9
10 [C#]
11 public string[] AbbreviatedMonthNames { get; set; }
```

11 Summary

12 Gets or sets a one-dimensional array of type **System.String**
13 containing the culture-specific abbreviated names of the months.

14 Property Value

16 A one-dimensional array of type **System.String** containing the
17 abbreviated names of the months. For cultures with 12-month
18 calendars the 13th element of the array is an empty string.

19 Description

20 The **System.Array** specified in a set operation is required to be one-
21 dimensional and have exactly 13 elements.

22
23 The property value of the culture invariant
24 **System.Globalization.DateTimeFormatInfo.AbbreviatedMonthNames**
25 is a **System.String** array that contains "Jan", "Feb", "Mar",
26 "Apr", "May", "Jun", "Jul", "Aug", "Sep", "Oct", "Nov", "Dec" and "".

27
28 [Note: The array returned by this property has 13 elements to support
29 calendars with 13 months.]

30 Exceptions

31
32

Exception	Condition
System.ArgumentNullException	The value specified for a set operation is a null reference.
System.ArgumentException	The value specified for a set operation is not an array with exactly 13 elements.
System.InvalidOperationException	The current instance is read-only and a set operation was attempted.

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1 DateTimeFormatInfo.AMDesignator 2 Property

```
3 [ILASM]  
4 .property string AMDesignator { public hidebysig  
5 specialname instance string get_AMDesignator() public  
6 hidebysig specialname instance void set_AMDesignator(string  
7 value) }  
  
8 [C#]  
9 public string AMDesignator { get; set; }
```

10 Summary

11 Gets or sets the **System.String** culture-specific designator for hours
12 that are "ante meridiem" (before noon).

13 Property Value

14

15 The **System.String** designator for hours that are before noon.

16 Description

17 The property value of the culture invariant
18 **System.Globalization.DateTimeFormatInfo.AMDesignator**
19 returns the **System.String** "AM".

20 Exceptions

21

22

Exception	Condition
System.ArgumentNullException	The value specified for a set operation is a null reference.
System.InvalidOperationException	The current instance is read-only and a set operation was attempted.

23

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1 DateTimeFormatInfo.CurrentInfo Property

```
2 [ILASM]
3 .property class System.Globalization.DateTimeFormatInfo
4 CurrentInfo { public hidebyref static specialname class
5 System.Globalization.DateTimeFormatInfo get_CurrentInfo() }
6
7 [C#]
8 public static DateTimeFormatInfo CurrentInfo { get; }
```

8 Summary

9 Gets a read-only **System.Globalization.DateTimeFormatInfo**
10 instance that formats values based on the current culture.

11 Property Value

12

13 A **System.Globalization.DateTimeFormatInfo** instance based on
14 the culture of the current thread.

15 Description

16 This property is read-only.

17

1 DateTimeFormatInfo.DateSeparator 2 Property

```
3 [ILASM]  
4 .property string DateSeparator { public hidebysig  
5 specialname instance string get_DateSeparator() public  
6 hidebysig specialname instance void  
7 set_DateSeparator(string value) }  
  
8 [C#]  
9 public string DateSeparator { get; set; }
```

10 Summary

11 Gets or sets the culture-specific **System.String** to use to separate the
12 year, month, and day components of a date.

13 Property Value

15 The **System.String** to use to separate the year, month and day
16 components of a date.

17 Description

18 The property value of the culture invariant
19 **System.Globalization.DateTimeFormatInfo.DateSeparator** is "/".

20 Exceptions

21
22

Exception	Condition
System.ArgumentNullException	The value specified for a set operation is a null reference.
System.InvalidOperationException	The current instance is read-only and a set operation was attempted.

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25

DateTimeFormatInfo.DayNames Property

```
[ILASM]
.property class System.String[] DayNames { public hidebysig
specialname instance class System.String[] get_DayNames()
public hidebysig specialname instance void
set_DayNames(class System.String[] value) }

[C#]
public string[] DayNames { get; set; }
```

Summary

Gets or sets a one-dimensional array of type **System.String** containing the culture-specific full names of the days of the week.

Property Value

A one-dimensional array of type **System.String** containing the full names of the days of the week.

Description

The array specified in a set operation is required to be one-dimensional and have exactly seven elements. The first element of the array is the abbreviated day name for Sunday, and the last element is the name for Saturday.

The property value of the culture invariant **System.Globalization.DateTimeFormatInfo.DayNames** is a **System.String** array that contains "Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday" and "Saturday".

Exceptions

Exception	Condition
System.ArgumentNullException	The value specified for a set operation is a null reference.
System.ArgumentException	The value specified for a set operation is not an array with exactly 7 elements.
System.InvalidOperationException	The current instance is read-only and a set operation was attempted.

1 DateTimeFormatInfo.FullDateTimePattern

2 Property

```
3 [ILASM]
4 .property string FullDateTimePattern { public hidebysig
5 specialname instance string get_FullDateTimePattern()
6 public hidebysig specialname instance void
7 set_FullDateTimePattern(string value) }
8
9 [C#]
10 public string FullDateTimePattern { get; set; }
```

10 Summary

11 Gets or sets the format pattern for a long date and long time value.

12 Property Value

13

14 A **System.String** containing the format pattern for a long date and
15 long time value.

16 Description

17 The **System.DateTime.ParseExact** and
18 **System.DateTime.ToString** methods associate the format pattern
19 returned by this property with the 'F' format character.
20

21 The property value of the culture invariant
22 **System.Globalization.DateTimeFormatInfo.FullDateTimePattern**
23 is "dddd, dd MMMM yyyy HH:mm:ss".

24 Exceptions

25

26

Exception	Condition
System.ArgumentNullException	The value specified for a set operation is a null reference.
System.InvalidOperationException	The current instance is read-only and a set operation was attempted.

27

28

29

1 DateTimeFormatInfo.InvariantInfo 2 Property

```
3 [ILASM]  
4 .property class System.Globalization.DateTimeFormatInfo  
5 InvariantInfo { public hidebysig static specialname class  
6 System.Globalization.DateTimeFormatInfo get_InvariantInfo()  
7 }  
8  
9 [C#]  
10 public static DateTimeFormatInfo InvariantInfo { get; }
```

10 Summary

11 Gets a culture invariant instance of
12 **System.Globalization.DateTimeFormatInfo** that is read-only.

13 Property Value

14

15 A read-only **System.Globalization.DateTimeFormatInfo** instance.

16 Description

17 This property is read-only.

18

1 DateTimeFormatInfo.IsReadOnly Property

```
2 [ILASM]  
3 .property bool IsReadOnly { public hidebysig specialname  
4 instance bool get_IsReadOnly() }  
5 [C#]  
6 public bool IsReadOnly { get; }
```

7 Summary

8 Gets a **System.Boolean** value indicating whether the current
9 **System.Globalization.DateTimeFormatInfo** instance is read-only.

10 Property Value

11

12 **true** if the **System.Globalization.DateTimeFormatInfo** is read-
13 only; otherwise, **false**.

14 Description

15 This property is read-only.

16

1 DateTimeFormatInfo.LongDatePattern 2 Property

```
3 [ILASM]  
4 .property string LongDatePattern { public hidebysig  
5 specialname instance string get_LongDatePattern() public  
6 hidebysig specialname instance void  
7 set_LongDatePattern(string value) }  
  
8 [C#]  
9 public string LongDatePattern { get; set; }
```

10 Summary

11 Gets or sets the format pattern for a long date value.

12 Property Value

13

14 A **System.String** containing the format pattern for a long date value.

15 Description

16 The **System.DateTime.ParseExact** and
17 **System.DateTime.ToString** methods associate the format pattern
18 returned by this property with the 'D' format character.

19

20 The property value of the culture invariant
21 **System.Globalization.DateTimeFormatInfo.LongDatePattern** is
22 "dddd, dd MMMM yyyy".

23 Exceptions

24

25

Exception	Condition
System.ArgumentNullException	The value specified for a set operation is a null reference.
System.InvalidOperationException	The current instance is read-only and a set operation was attempted.

26

27

28

1 DateTimeFormatInfo.LongTimePattern

2 Property

```
3 [ILASM]
4 .property string LongTimePattern { public hidebysig
5 specialname instance string get_LongTimePattern() public
6 hidebysig specialname instance void
7 set_LongTimePattern(string value) }

8 [C#]
9 public string LongTimePattern { get; set; }
```

10 Summary

11 Gets or sets the format pattern for a long time value.

12 Property Value

13

14 A **System.String** containing the format pattern for a long time value.

15 Description

16 The **System.DateTime.ParseExact** and
17 **System.DateTime.ToString** methods associate the format pattern
18 returned by this property with the 'T' format character.

19

20 The property value of the culture invariant
21 **System.Globalization.DateTimeFormatInfo.LongTimePattern** is
22 "HH:mm:ss".

23 Exceptions

24

25

Exception	Condition
System.ArgumentNullException	The value specified for a set operation is a null reference.
System.InvalidOperationException	The current instance is read-only and a set operation was attempted.

26

27

28

1 DateTimeFormatInfo.MonthDayPattern

2 Property

```
3 [ILASM]
4 .property string MonthDayPattern { public hidebysig
5 specialname instance string get_MonthDayPattern() public
6 hidebysig specialname instance void
7 set_MonthDayPattern(string value) }
8
9 [C#]
10 public string MonthDayPattern { get; set; }
```

10 Summary

11 Gets or sets the format pattern for a month and day value.

12 Property Value

13

14 A **System.String** containing the format pattern for a month and day
15 value.

16 Description

17 The **System.DateTime.ParseExact** and
18 **System.DateTime.ToString** methods associate the format pattern
19 returned by this property with the 'm' and 'M' format characters.
20

21 The property value of the culture invariant
22 **System.Globalization.DateTimeFormatInfo.MonthDayPattern** is
23 "MMMM dd".

24 Exceptions

25

26

Exception	Condition
System.ArgumentNullException	The value specified for a set operation is a null reference.
System.InvalidOperationException	The current instance is read-only and a set operation was attempted.

27

28

29

1 DateTimeFormatInfo.MonthNames

2 Property

```
3 [ILASM]
4 .property class System.String[] MonthNames { public
5 hidebysig specialname instance class System.String[]
6 get_MonthNames() public hidebysig specialname instance void
7 set_MonthNames(class System.String[] value) }

8 [C#]
9 public string[] MonthNames { get; set; }
```

10 Summary

11 Gets or sets a one-dimensional array of type **System.String**
12 containing the culture-specific full names of the months.

13 Property Value

14
15 A one-dimensional array of type **System.String** containing the full
16 names of the months. For cultures with 12-month calendars the 13th
17 element of the array is an empty string.

18 Description

19 The array specified in a set operation is required be one-dimensional
20 and have exactly 13 elements.

21
22 The property value of the culture invariant
23 **System.Globalization.DateTimeFormatInfo.MonthNames** is a
24 **System.String** array that contains "January", "February", "March",
25 "April", "May", "June", "July", "August", "September", "October",
26 "November", "December" and "".

27
28 [*Note:* The array returned by this property has 13 elements to support
29 calendars with 13 months.]

30 Exceptions

31
32

Exception	Condition
System.ArgumentNullException	The value specified for a set operation is a null reference.
System.ArgumentException	The value specified for a set operation is not an array with exactly 13 elements.
System.InvalidOperationException	The current instance is read-only and a set operation was attempted.

1
2
3

1 DateTimeFormatInfo.PMDesignator 2 Property

```
3 [ILASM]  
4 .property string PMDesignator { public hidebysig  
5 specialname instance string get_PMDesignator() public  
6 hidebysig specialname instance void set_PMDesignator(string  
7 value) }  
  
8 [C#]  
9 public string PMDesignator { get; set; }
```

10 Summary

11 Gets or sets the culture-specific **System.String** designator for hours
12 that are "post meridiem" (after noon).

13 Property Value

14

15 The **System.String** designator for hours that are after noon.

16 Description

17 The property value of the culture invariant
18 **System.Globalization.DateTimeFormatInfo.PMDesignator** is
19 "PM".

20 Exceptions

21

22

Exception	Condition
System.ArgumentNullException	The value specified for a set operation is a null reference.
System.InvalidOperationException	The current instance is read-only and a set operation was attempted.

23

24

25

1 DateTimeFormatInfo.ShortDatePattern

2 Property

```
3 [ILASM]
4 .property string ShortDatePattern { public hidebysig
5 specialname instance string get_ShortDatePattern() public
6 hidebysig specialname instance void
7 set_ShortDatePattern(string value) }

8 [C#]
9 public string ShortDatePattern { get; set; }
```

10 Summary

11 Gets or sets the format pattern for a short date value.

12 Property Value

13

14 A **System.String** containing the format pattern for a short date value.

15 Description

16 The **System.DateTime.ParseExact** and
17 **System.DateTime.ToString** methods associate the format pattern
18 returned by this property with the 'd' format character.

19
20 The property value of the culture invariant
21 **System.Globalization.DateTimeFormatInfo.ShortDatePattern** is
22 "MM/dd/yyyy".

23 Exceptions

24

25

Exception	Condition
System.ArgumentNullException	The value specified for a set operation is a null reference.
System.InvalidOperationException	The current instance is read-only and a set operation was attempted.

26

27

28

1 DateTimeFormatInfo.ShortTimePattern

2 Property

```
3 [ILASM]
4 .property string ShortTimePattern { public hidebysig
5 specialname instance string get_ShortTimePattern() public
6 hidebysig specialname instance void
7 set_ShortTimePattern(string value) }

8 [C#]
9 public string ShortTimePattern { get; set; }
```

10 Summary

11 Gets or sets the format pattern for a short time value.

12 Property Value

13

14 A **System.String** containing the format pattern for a short time value.

15 Description

16 The **System.DateTime.ParseExact** and
17 **System.DateTime.ToString** methods associate the format pattern
18 returned by this property with the 't' format character.

19

20 The property value of the culture invariant
21 **System.Globalization.DateTimeFormatInfo.ShortTimePattern** is
22 "HH:mm".

23 Exceptions

24

25

Exception	Condition
System.ArgumentNullException	The value specified for a set operation is a null reference.
System.InvalidOperationException	The current instance is read-only and a set operation was attempted.

26

27

28

1 DateTimeFormatInfo.TimeSeparator

2 Property

```
3 [ILASM]
4 .property string TimeSeparator { public hidebysig
5 specialname instance string get_TimeSeparator() public
6 hidebysig specialname instance void
7 set_TimeSeparator(string value) }
8
9 [C#]
10 public string TimeSeparator { get; set; }
```

10 Summary

11 Gets or sets the culture-specific **System.String** to use to separate the
12 components of time values (hour, minutes, seconds).

13 Property Value

15 The **System.String** to use to separate the components of time; that
16 is, the hour, the minutes and the seconds.

17 Description

18 The property value of the culture invariant
19 **System.Globalization.DateTimeFormatInfo.TimeSeparator** is ":".

20 Exceptions

21
22

Exception	Condition
System.ArgumentNullException	The value specified for a set operation is a null reference.
System.InvalidOperationException	The current instance is read-only and a set operation was attempted.

23
24
25

1 DateTimeFormatInfo.YearMonthPattern

2 Property

```
3 [ILASM]
4 .property string YearMonthPattern { public hidebysig
5 specialname instance string get_YearMonthPattern() public
6 hidebysig specialname instance void
7 set_YearMonthPattern(string value) }

8 [C#]
9 public string YearMonthPattern { get; set; }
```

10 Summary

11 Gets or sets the format pattern for a year and month value.

12 Property Value

13

14 The format pattern for a year and month value.

15 Description

16 The **System.DateTime.ParseExact** and
17 **System.DateTime.ToString** methods associate the format pattern
18 returned by this property with the 'y' and 'Y' format character.

19

20 The property value of the culture invariant
21 **System.Globalization.DateTimeFormatInfo.YearMonthPattern** is
22 "yyyy MMMM".

23 Exceptions

24

25

Exception	Condition
System.ArgumentNullException	The value specified for a set operation is a null reference.
System.InvalidOperationException	The current instance is read-only and a set operation was attempted.

26

27