

Expression Reference Information

Last Modified on 01/17/2018 2:52 am EST

This section includes reference information about the Cora SeQUENCE Expression language.

Expressions and .NET Types

Cora SeQUENCE expressions support the following types.

Nullable Types

Nullable types represent value-type variables that you can assign a *null* value.

Numeric Types

Integral Types

- SByte
- Byte
- Int16
- Int32
- Int64
- UInt16
- UInt32
- UInt 64

Real Types

- Single
- Double
- Decimal

Enums and Arrays

Enum Types

In the expression language, access to the enum member is defined as a string that represents a member of that enum type.

```
act.Status = "Completed"
```

Array Type

The expression language supports creating and initializing an array instance.

```
new DateTime[] { }
```

Accessible Types

Accessible types are types that you can reference in expressions.

Access Rules

- The type is primitive.
- The type member is public.
- The type is exclusively added to the collection of the well-known types of the expression parse context.
- The type is member of the built-in predefined types.

Constants

- The predefined constants *true* and *false* define the two values of the boolean type.
- The predefined constant *null* defines a null reference.
- The *null* constant is of Object type, but is also implicitly convertible to any reference type.

Expression Parsing

Expression parsing is a process that converts a string that represents an expression into an expression tree.

Expression Normalization

Expression normalization is an ability to modify an expression tree during the parsing process.

Default Member Lookup

Uses *DefaultMemberAttribute* to locate a type member when it is not found on the type itself.

Custom Member Lookup

Uses *CustomMemberProviderAttribute* to locate a type member when it is not found on the type itself.

The underlined compiled expression is a delegate generated by the .NET `LambdaExpression.Compile` method.

Activities and Activity Views

Variable Name	Description
<ul style="list-style-type: none"> • Start • End • IfElse • Empty 	ActivityView
<ul style="list-style-type: none"> • Message • Split Or • Join And • Switch • Store Procedure • Database Listener • Assign 	DataBoundActivityView

Variable Name	Description
• FormActivity	FormActivityView
• TaskActivity	TaskActivityView
• External Service Consumer • WCF Consumer • Web Service Consumer • Web Service Listener	DynamicMethodActivityView
• Error Handler	ErrorHandlerActivityView
• Sub Workflow	SubWorkflowActivityView
SharePoint Listener	SharePointActivityView