

## RE: Attribute Expression Must be a Constant – Problem

**Source:**

<http://www.derkeiler.com/Newsgroups/microsoft.public.dotnet.framework.aspnet.security/2004-02/0362.html>

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Hello,

Thanks for posting in the group.

Based on the description, now you are adding attributes like `FileIOPermissionAttribute( SecurityAction.RequestMinimum, Read=System.IO.Directory.GetCurrentDirectory() )` into `assemblyinfo.cs` file. When you build the project, the compiler gives error message "An attribute argument must be a constant expression, typeof expression or array creation expression". Please feel free to post here if I have misunderstood the problem.

I am afraid it is impossible to use a runtime expression in Attribute arguments.

The instance of an attribute class is constructed by the compiler when the compile detects an attribute applied to a target, and at this time the assembly hasn't been completed yet. And then the compiler initializes any public fields and properties have been specified. After that, the instance of the attribute is serialized to the target's metadata table entry.

Please Note: all these are done by the compiler and there is not a way to get any runtime variable. Even if you use `typeof` keyword, you can only get those Types can be retrieved at compile time. To obtain the run-time type of an expression, you can use the .NET Framework method `GetType`.

In order to achieve what you want, we need to do it programmatically, not declaratively. Please refer to the following article on how to do it: "Security in .NET: Enforce Code Access Rights with the Common Language Runtime "  
<http://msdn.microsoft.com/msdnmag/issues/01/02/CAS/default.aspx>

Hope that helps.

Best regards,

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