
Subject: Re: no backwards compatibility in IDL 5.6
Posted by [Pavel Romashkin](#) on Fri, 28 Feb 2003 17:25:43 GMT
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Why is EXECUTE used in this program? Why can't the value just be returned from each CASE? Execute will slow it down and as far as I can tell, does nothing special. There is no code that follows the CASE to prevent you from returning at any point. Will it not compile in 5.4 with the extra keyword? I thought keyword mismatches are runtime errors. Am I missing something?
Pavel

David Fanning wrote:

```
>  
> FUNCTION ATAN_COMPLEX_WRAPPER, complexNum  
>  
>   returnValue = 0.0  
>   version = Float(!VERSION.Release)  
>   CASE 1 OF  
>     (version LE 5.4): ok = Execute('returnValue = ATAN(complexNum)')  
>     (version EQ 5.5): BEGIN  
>       realpart = Real_Part(complexNum)  
>       imgpart = Imaginary(complexNum)  
>       ok = Execute('returnValue = ATAN(realpart, imgpart)')  
>       END  
>     (version GE 5.6): ok = Execute('returnValue = ' + $  
>       'ATAN(complexNum, /Phase)')  
>   ENDCASE  
>   RETURN, returnValue  
>   END
```
