
Subject: Re: no backwards compatibility in IDL 5.6
Posted by [thompson](#) on Fri, 28 Feb 2003 20:12:17 GMT
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Pavel Romashkin <pavel_romashkin@hotmail.com> writes:

> 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

Yes, without the execute statement, it will not compile in versions earlier than 5.4. You get the error message

```
IDL> .run atan_complex_wrapper
```

```
(version GE 5.6): returnValue = ATAN(complexNum, /Phase)
                        ^
```

```
% Keyword parameters not allowed in call.
```

```
At: /disk1/thompson/atan_complex_wrapper.pro, Line 12
```

```
% 1 Compilation errors in module ATAN_COMPLEX_WRAPPER.
```

However, only the last execute statement is actually required. The first two, without the new keyword, can be direct statements.

Bill Thompson

> 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
```
