
Subject: Re: Again an FFT question

Posted by [lecacheux.alain](#) on Wed, 27 Jun 2012 16:45:14 GMT

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On 27 juin, 18:33, David Fanning <n...@idlcoyote.com> wrote:

> alx writes:

>> You can use the /CENTER keyword in FFT function since IDL7.1

>

> Well, it was *present* in IDL 7.1. I don't think

> it actually worked until later.

>

> Cheers,

>

> David

>

> --

> David Fanning, Ph.D.

> Fanning Software Consulting, Inc.

> Coyote's Guide to IDL Programming:<http://www.idlcoyote.com/>

> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

>

>

?

```
IDL> print,fft(cos(2*!pi*findgen(16)/16*3))
```

```
( 5.06635e-008,  0.000000)( 8.06580e-008, 3.52675e-008)
```

```
(-9.04610e-009, 2.63418e-008)(  0.500000, 1.28007e-007)
```

```
(-9.08976e-008, 1.49012e-008)
```

```
(-2.65443e-008,-1.35536e-008)( 1.20273e-008, 2.63418e-008)
```

```
(-7.60014e-008,-9.51177e-008)( 1.25169e-007, -0.000000)
```

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```

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```

```
( 8.06580e-008,-3.52675e-008)
```

```
IDL> print,fft(cos(2*!pi*findgen(16)/16*3),/CENTER)
```

```
( 1.25169e-007, -0.000000)(-7.60014e-008, 9.51177e-008)
```

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```

Both statements give expected results: i.e. non zero values at positions 3 and 13 (CENTER=0) or 5 and 11 (CENTER=1).

alx.
