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Subject: How to give values as a range in array?

Posted by [Sonu Tabitha](#) on Tue, 28 Jun 2016 14:02:49 GMT

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I need to fill an array with values say,0 to 100.Is there keyword to do that(without using any loops)?

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Subject: Re: How to give values as a range in array?

Posted by on Tue, 28 Jun 2016 14:23:22 GMT

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Den tisdag 28 juni 2016 kl. 16:02:54 UTC+2 skrev Meegle\_Jade:

> I need to fill an array with values say,0 to 100.Is there keyword to do that(without using any loops)?

array = indgen(101)

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Subject: Re: How to give values as a range in array?

Posted by [Sonu Tabitha](#) on Tue, 28 Jun 2016 14:30:40 GMT

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On Tuesday, June 28, 2016 at 7:32:54 PM UTC+5:30, Meegle\_Jade wrote:

> I need to fill an array with values say,0 to 100.Is there keyword to do that(without using any loops)?

What if the values are from 100 to 700 or so? How can I do it?

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Subject: Re: How to give values as a range in array?

Posted by [Helder Marchetto](#) on Tue, 28 Jun 2016 14:45:14 GMT

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On Tuesday, June 28, 2016 at 3:30:42 PM UTC+1, Meegle\_Jade wrote:

> On Tuesday, June 28, 2016 at 7:32:54 PM UTC+5:30, Meegle\_Jade wrote:

>> I need to fill an array with values say,0 to 100.Is there keyword to do that(without using any loops)?

>

> What if the values are from 100 to 700 or so? How can I do it?

from IDL 8.3 onwards:

findgen(600, start=100, increment=1)

Increment keyword is not needed... I just put it in in case you ask for it...

Otherwise

findgen(600)+100

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cheers

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Subject: Re: How to give values as a range in array?  
Posted by [Sonu Tabitha](#) on Tue, 28 Jun 2016 14:50:50 GMT  
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On Tuesday, June 28, 2016 at 7:32:54 PM UTC+5:30, Meegle\_Jade wrote:  
> I need to fill an array with values say, 0 to 100. Is there keyword to do that (without using any loops)?

In fact, I need to plot flux values for frequencies ranging from 100GHz to say 2000GHz. The frequencies need not be integers. I have IDL version 7. What to do?

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Subject: Re: How to give values as a range in array?  
Posted by [Helder Marchetto](#) on Tue, 28 Jun 2016 16:41:40 GMT  
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On Tuesday, June 28, 2016 at 3:50:53 PM UTC+1, Meegle\_Jade wrote:  
> On Tuesday, June 28, 2016 at 7:32:54 PM UTC+5:30, Meegle\_Jade wrote:  
>> I need to fill an array with values say, 0 to 100. Is there keyword to do that (without using any loops)?  
>  
> In fact, I need to plot flux values for frequencies ranging from 100GHz to say 2000GHz. The frequencies need not be integers. I have IDL version 7. What to do?

I would expect that the frequency corresponding to each flux is in some data file and that you should use as an array. However, if you have to generate the frequencies, the exact command depends on what you want to achieve.

I would drop the "giga" and mention that on the axis so that you're plotting values between 100 and 2000 and the axis is something like "Frequency (GHz)".

How many values do you have and how are they spaced?

Let's say you have 201 values, then you need an array with 201 elements:

```
freq = findgen(201)
```

This is now an array like this: 0, 1, 2, ..., 199, 200

If these have to be spaced equally between 2000 and 100, then you have a delta of  $1900/200=9.5$ . So you need to multiply the array freq by 9.5 and add 100:

```
freq = freq * 9.5 + 100
```

and you get an array like this: 100, 109.5, 119, ..., 1990.5, 2000.

I hope that makes sense.

Cheers

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Subject: Re: How to give values as a range in array?  
Posted by [Sonu Tabitha](#) on Wed, 29 Jun 2016 03:16:47 GMT  
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On Tuesday, June 28, 2016 at 7:32:54 PM UTC+5:30, Meegle\_Jade wrote:

> I need to fill an array with values say,0 to 100.Is there keyword to do that(without using any loops)?

Thanks a lot!! It solved the issue... :)

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