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Subject: Re: How to produce N members between a and b with a determined spacing?

Posted by [David Fanning](#) on Mon, 16 Nov 2009 14:40:34 GMT

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ali mozafari writes:

- > I need to produce N members between a and b with a determined spacing.
- > In MATLAB it is work like this:
- > Data=a:spacing:b
- > How can we do this in IDL?

Something like this, I would imagine:

```
FUNCTION SpaceIT, a, b, spacing
  number = Abs(a - b) / spacing
  RETURN, Findgen(number+1) * spacing + (a < b)
END
```

Cheers,

David

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David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

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

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Subject: Re: How to produce N members between a and b with a determined spacing?

Posted by [Steve Eddins](#) on Mon, 16 Nov 2009 14:43:24 GMT

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ali mozafari wrote:

- > Hi there
- > I need to produce N members between a and b with a determined spacing.
- > In MATLAB it is work like this:
- > Data=a:spacing:b
- > How can we do this in IDL?
- > Any help highly would be appreciated
- > A.

If you specify both N and the spacing then you've overconstrained your problem. The MATLAB syntax you gave spacing the spacing but not N. This MATLAB function call specifies N but not the spacing:

```
Data = linspace(a, b, N);
```

If you really want to specify both N and the spacing then the last element of Data might not be exactly b.

Say which one you want and then the IDL folks here can tell you how to do it.

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Steve Eddins

<http://blogs.mathworks.com/steve/>

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