
Subject: Re: Cumulative sum

Posted by [mchinand](#) on Thu, 16 Jan 2003 20:14:02 GMT

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In article <b072o8\$6j0\$1@SonOfMaze.dpo.uab.edu>,

R. Kyle Justice <rkj@dukebar.crml.uab.edu> wrote:

> Is there a function for computing the cumulative sum of

> an array (similar to matlab's cumsum)?

>

> For instance: cumsum(indgen(5)) = [1,3,6,10,15]

>

> Kyle J.

>

>

Yes, use the /CUMULATIVE keyword to TOTAL. With the optional DIMENSION argument can set over which dimension is summed over.

--Mike

--

Michael Chinander

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Department of Radiology

University of Chicago

Subject: Re: Cumulative sum

Posted by [Liam E. Gumley](#) on Thu, 16 Jan 2003 20:14:23 GMT

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"R. Kyle Justice" <rkj@dukebar.crml.uab.edu> wrote in message news:b072o8\$6j0\$1@SonOfMaze.dpo.uab.edu...

> Is there a function for computing the cumulative sum of

> an array (similar to matlab's cumsum)?

>

> For instance: cumsum(indgen(5)) = [1,3,6,10,15]

>

> Kyle J.

See the CUMULATIVE keyword for the TOTAL function:

"If this keyword is set, the result is an array of the same size as the input, with each element, i, containing the sum of the input array elements 0 to i. This keyword also works with the Dimension parameter, in which case the sum is performed over the given dimension."

Cheers,
Liam.
Practical IDL Programming
<http://www.gumley.com/>

Subject: Re: Cumulative sum
Posted by [rkj](#) on Thu, 16 Jan 2003 20:33:11 GMT
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Thanks for the quick replies. However, I am using
PV-Wave and the TOTAL function does not have a
Cumulative keyword. I guess I will be looping . . .

Kyle

Subject: Re: Cumulative sum
Posted by [Craig Markwardt](#) on Thu, 16 Jan 2003 21:26:48 GMT
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rkj@dukebar.crml.uab.edu (R. Kyle Justice) writes:

> Thanks for the quick replies. However, I am using
> PV-Wave and the TOTAL function does not have a
> Cumulative keyword. I guess I will be looping . . .

Yes, and it's a fairly new keyword even in IDL. This is one area
where I have resorted to looping unfortunately.

Craig

--

Craig B. Markwardt, Ph.D. EMAIL: craigmnet@cow.physics.wisc.edu
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response

Subject: Re: Cumulative sum
Posted by [graves](#) on Thu, 16 Jan 2003 23:01:33 GMT
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> Is there a function for computing the cumulative sum of
> an array (similar to matlab's cumsum)?

> For instance: `cumsum(indgen(5)) = [1,3,6,10,15]`

The IDL equivalent is to use the `total` function with the `cumulative` keyword, so your example would be `total(indgen(5), /cumulative)`.

Ted
