
Subject: Re: adding up consecutive elements
Posted by [rivers](#) on Fri, 20 Jan 1995 01:52:51 GMT
[View Forum Message](#) <> [Reply to Message](#)

In article <3fk5ps\$emd@itssrv1.ucsf.edu>, aki@scifi.ucsf.edu (Andreas Kiefer) writes:
> I need to add consecutive elements of an array. total() doesn't do it because it gives me the sum
of the hole array or at least the sum over the different rows/columns if the dimension keyword is
used.
> I could use a loop like
>
> for i=0,n_elements(array)-1 do sum(i)=sum(i-1)+array(i)
>
> But this is really slow for large arrays.
>

I have asked RSI for a this function in the past.

A simple derivative function in IDL is just

```
IDL> d = array - shift(array, 1)
```

What we are asking for is the inverse of this, i.e. a simple integral or running
total.

Mark Rivers	(312) 702-2279 (office)
CARS	(312) 702-9951 (secretary)
Univ. of Chicago	(312) 702-5454 (FAX)
5640 S. Ellis Ave.	(708) 922-0499 (home)
Chicago, IL 60637	rivers@cars3.uchicago.edu (Internet)
