Subject: Re: Speedy way to get compare array elements. . .
Posted by Craig Markwardt on Thu, 14 Nov 2002 04:28:55 GMT
View Forum Message <> Reply to Message

"Sean Raffuse" <sean@me.wustl.edu> writes:
> Exalted newsgroup,
>
> What is the fastest way to compare two adjacent values in an array?
>
> Something like:
>
> whoa_huge_jump = where(A[i+1]-A[i] GT 500)

I usually use this little bit of magic,

  whoa_huge_jump = where(A[1:*]-A GT 500)

Now, if you are a goody goody, the correct way to do the subtraction
is A[1:*]-A[0:N-2], but that can get annoying, especially if you have
to figure out N first.  The cool thing about the trick is that IDL
*automatically* truncates the vector A so that it matches the length
of A[1:*].

Some people on the newsgroup thing it is too obscure, but heck, I have
to have something to distinguish my own style.

Craig

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