Subject: Re: Looking for more ideas on code ...
Posted by jeyadev on Tue, 01 Oct 2002 20:11:20 GMT
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In article <onr8fbugea.fsf@cow.physics.wisc.edu>,
Craig Markwardt <craigmnet@cow.physics.wisc.edu> wrote:
>
> jeyadev@wrc.xerox.bounceback.com (Surendar Jeyadev) writes:
>
>>   ....
>>
>> --
>>
>> function sinc, y
>>
>>
>> if(n_elements(y) eq 1) then begin   ; y is a scalar
>>   if(y eq 0.0) then profile = 1.0 else begin
>>   profile = sin(y)/y
>>   endelse
>>   endif else begin   ; y is a vector
>>   zeros = where(y eq 0.0, ind)
>>   if(ind gt 0) then y(zeros) = 1.0e-10   ; set zeroes to a small quantity
>>   profile = sin(y)/y
>> endelse
>>
>> profile = profile*profile/a0

My mistake there. I am actually after sinc^2 ..... but it
has not caused any harm!

>> return, profile
>>
>> end
>>
>
> Second of all, you can simplify your logic a little, by pre-filling
> the array with the "special case:"
>
>   profile = y*0 + 1.   ;; Tricky way to get array filled with zeroes
>   wh = where(y NE 0, ct)
>   profile(wh) = sin(y(wh))/y(wh)

Nice one that, when the only exceptional value is the same for
all "problem" points.

thanks
--

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