
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 <onr8fbuga.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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