Subject: Re: estimation matrix elements in a vector
Posted by kghreep21 on Sat, 01 Apr 2017 17:12:57 GMT
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On Monday, March 27, 2017 at 9:00:39 AM UTC+2, Yngvar Larsen wrote:
> On Sunday, 26 March 2017 23:59:26 UTC+2, kghr...@gmail.com wrote:
>> On Sunday, March 26, 2017 at 3:37:54 PM UTC+2, Yngvar Larsen wrote:
>>> https://www.harrisgeospatial.com/docs/VALUE_LOCATE.html
>>
>> Thanks Yngvar.
>> I am already solve my problem
>
> Good!
>
> As a courtesy to other readers, maybe you can post your code to solve this problem? This is a rather typical kind of IDL array juggling problem that others might be interested in.
>
> --
> Yngvar

Pro Inter_Data

; we have a measured wind speed as a string like this:
acutal_w= [5.5, 6.4, 8.9, 10.3, 8.2, 7.7, 6.8, 5.9, 5.4, 6.6, 6.1, 6.5]

In laboratory, we have measured a wind power Coor_P corresponding to laboratory wind speed w_t

w_t =[0.0, 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0,
9.0,10.0,11.0,12.0,13.0,14.0,15.0,16.0,17.0,18.0,19.0,20.0,2
1.0,22.0,23.0,24.0,25.0,26.0,27.0,28.0,29.0,30.0]

coor_P=[0.00,0.00,0.00,5.00,25.00,60.00,118.00,154.00,269.00 ,411.00,538.00,600.00,600.00,$
600.00,600.00,600.00,600.00,600.00,600.00,600.00,600.00,600.
00,600.00,600.00,600.00,600.00,0.00,0.00,0.00,0.00,0.00]
; we would like to estimate a wind power corresponding a measured wind speed ;acutal_w. first, we have locate value of acutal_w in W_t via Value_locate ;function

R = VALUE_LOCATE (w_t ,acutal_w, /L64)

; the estimated wind power as function in acutal_w, W_t and coor_P as follows:-

pow_est=dblarr(n_elements(r))

for j = 0, n_elements(r)-1 do begin

pow_est(j) = coor_P (r(j)+1) - (coor_P(r (j) + 1) - coor_P(r(j))) * ((w_t (r(j)+1) - acutal_w(j)) / (w_t (r(j)+1)- w_t(r(j))))

```
endfor


print, pow_est, format=' (12(F9.2,3x))'

end
```