Subject: Re: Combinatorial

Posted by K. Bowman on Fri, 27 Aug 2004 13:51:29 GMT

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In article <e8ecd642.0408270539.19ddd96a@posting.google.com>, andrade_bahia@yahoo.com.br (Adilson) wrote:

- > Dear all,
- > Would like to know as I make to effect combinations in the IDL I have
- > a problem where I want to execute a fixed combination of elements
- > contained in a vector. EX: A=[0,1,2,3,4,5] --> six elements I want
- > to make combinations 3x3 of the elements contained in. The formed
- > vector is of 6!/3!*(6-3)! = 20 elements. Example of the vector to be
- > formed->[0,1,2],[0,1,3]... [3,4,5]. In the total of 20 combinations.
- > Which the best form to execute this operation? If you to be able to
- > help me would be grateful.
- > I subscribe myself with the highest consideration.
- > Thanks in advance for your help.

> Adilson

Not elegant, but I think this does what you want.

```
IDL > n = 6
IDL> comb = lonarr(3)
IDL> for i = 0, n-1 do for j = i+1, n-1 do for k = j+1, n-1 do comb =
[[comb], [i,j,k]]
```

IDL>

IDL>

comb = comb[*,1:*]		
print, comb		
0	1	2
0	1	3
0	1	4
0	1	5
0	2	3
0	2	4
0 0 0 0 0 0 0	2 2 2 3	3 4 5 4 5 5
0	3	4
0	3 4 2 2 2 3	5
	4	5
1	2	3
1	2	4
1	2	5
1	3	3 4 5 4
1	3	5
1	4	5
2	3	5 4 5 5
2 2 2	3	5
2	4	5

3 4 5

Ken Bowman

Page 2 of 2 ---- Generated from comp.lang.idl-pvwave archive