
Subject: IDL User's Library routine ROT

Posted by [fireman](#) on Wed, 12 Aug 1992 22:25:00 GMT

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Hello, IDL users -

I've been trying to figure out the IDL User's Library routine ROT, and am now pretty confused. It seems to me that a 90-degree rotation should have the same result for both ROT and the built-in function ROTATE, at least for square matrices, and that interpolation should have no effect. This is not the case. Even or odd array sizes make no difference. Am I missing something obvious? Is there a better routine for doing array rotations in non-multiples of 90 degrees?

```
a=indgen(4,4)
print,a
;   0   1   2   3
;   4   5   6   7
;   8   9  10  11
;  12  13  14  15
print,rotate(a,1)
;  12   8   4   0
;  13   9   5   1
;  14  10   6   2 <-- so far, so good...
;  15  11   7   3
print,rot(a,90,missing=-1)
;  -1   3   7  11
;  -1   2   6  10
;   1   5   9  13 <-- yuckadoo!
;   0   4   8  12
b=indgen(5,5)
print,b
;   0   1   2   3   4
;   5   6   7   8   9
;  10  11  12  13  14
;  15  16  17  18  19
;  20  21  22  23  24
print,rotate(b,1)
;  20  15  10   5   0
;  21  16  11   6   1
;  22  17  12   7   2
;  23  18  13   8   3
;  24  19  14   9   4
print,rot(b,90,missing=-1)
;  -1   3   8  13  18
;  -1   2   7  12  17
;  -1   1   6  12  17
;   0   5  10  15  21
```

; -1 -1 -1 -1 20

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