Subject: Rotten behavior with rot command
Posted by Michael Baca on Thu, 17 Aug 2000 07:00:00 GMT
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I have been experiencing a problem using the rot command. After reading through some code to find an error with a rotated array, I checked the data created by the rot command. If I create a simple array, and then rotate it, this is what I find:

```
a=findgen(3,3)
print, a
0.000000      1.00000      2.00000
3.00000      4.00000      5.00000
6.00000      7.00000      8.00000

print, rot(a,180,/interp)
8.00000      7.00000      6.00000
5.00000      4.00000      3.00000
1.00000     0.000000     0.000000
```

This is obviously not the answer I wanted, let alone the correct answer. In all cases, the arrays I am rotating are odd-by-odd squares, so at 180 degrees, I should see an array that has been flipped horizontally and vertically. Defining the point of rotation does not appear to help. I have tried the above example on multiple arrays with different sizes and always see this occur.

Has anyone else experienced this problem and had any success working around it? Right now, the only way I can work around this problem is to find when a rotation is done in a 90 degree interval and then use the rotate command instead. But, this will not help when I need to rotate something, say, 170 degrees. Then the same error than causes the problem at 180 degrees still lingers. This problem also appears at other 90 degree intervals:

```
print, rot(a, 90, /interp)
1.00000      5.00000      8.00000
0.000000      4.00000      7.00000
0.000000      3.00000      6.00000
```

Thanks for any thoughts.

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