Subject: EXTRACT SLICE

Posted by amin farhang on Sun, 29 Nov 2015 15:20:09 GMT

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Dear All,

Is there anyone to know that, how extract a slice from volume where is perpendicular to xy plane and then rotated around z by 45 degree? i.e. passing through the diagonal of xy square

The normal EXTRACT_SLICE first rotate around z-axis then rotate about x-axis:

slice = EXTRACT SLICE(vol,30,30, 15.0,15.0,15.0, 90.0,0.0,45.0, OUT VAL=0B)

Therefore in practice it just rotate the xz plane about its center 45 degree and do not return the desired plane.

Example:

In this example the xy plane is rotated around its center every 5 degree and do not rotate around z axis:

vol = RANDOMU(34752, 40, 40, 40) FOR i=0, 10 DO vol = SMOOTH(vol, 3) vol = BYTSCL(vol(3:37, 3:37, 3:37)) xvolume,vol cgloadct,33

for i=0,120,5 do begin &\$ slice = EXTRACT_SLICE(vol,30,30, 15.0,15.0,15.0, 90.0,0.0,i, OUT_VAL=0B) &\$ cgcontour,slice,/fill &\$; for seeing the sequence images just enter a number read,a

Best regards,