Subject: Re: Rotating with T3D and !P.T
Posted by B.C. Hamans on Sat, 15 Sep 2001 12:35:32 GMT
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Hi,

I'm trying to match MIBI-Spect heart images to another set of SPECT heart images (99mTc-Annexin-V).
The images are stored in an a 64x64x64 array containing values ranging from 0 to 255. Is it possible to use the !P.T matrix to transform (rigid body) one of the images accordingly? I tried to download the MIM or MIM2 package but the server these package are on is unavailable. To calculate the !P.T matrix I now use external programs like MIRIT of FSL-FLIRT.
Can anybody help me with this problem?

Thanx in advance,

Bob (Student, Biomedical Engineering)

Subject: Re: Rotating with T3D and !P.T
Posted by gogosgogos on Sat, 15 Sep 2001 22:57:49 GMT
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I have been involved in similar problems..

and IDL does allow you to rotate with the !p.t
but then you have to interpolate yourself
and then make sure the edges of your images,
volumes i suppose you mean, do not reach outside
your borders...

i had been busy with this for almost 3 months and
finally i gave up and used the transformation matrix
values to reslice using AIR 3. (loni.ucla.edu i think).

AIR has source code, so you could write a DLM and link it
directly to IDL, but i am lazy so i just spawned it to call
manual_reslice directly...

there is definetely a way of rotating 3D volumes with !p.t
but you always have to calculate how much time that would
take to master compared to grabbing a ready executable
from the web.

cheers, GB

Subject: Re: Rotating with T3D and !P.T
Posted by B.C. Hamans on Sun, 16 Sep 2001 08:35:15 GMT
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Yes, i did mean volumes. Thank you very much. I will certainly have a look
at AIR 3. But at the moment i'm considering using the CONVERT_COORD, [/T3D]
function. I did not know about this function until this morning. Together
with the functions PROJECT_VOL or VOXEL_PROJ, i think i can program a
solution to my problem.

Bob