
Subject: Re: fixing DICOM read issues

Posted by [dorth](#) on Sat, 12 Dec 2009 19:22:48 GMT

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On Dec 11, 6:21 am, David Fanning <n...@dfanning.com> wrote:

> Dorth Wildenschild writes:

>> I am trying to read a stack of DICOM images (.ima format) with IDL and
>> can read in the values just fine (-1054 to 3000), but the voxel
>> scaling is wrong, so my cylindrical object becomes oval. I tried
>> saving the volume from another program and that works well for meshing
>> the slices together and getting the correct data range, but I loose
>> the voxel scaling, so that once I read that simple binary data file
>> into IDL it is stretched incorrectly.
>> My array is 512,512,478, and the scaling in the DICOM file is
>> 0.43,0.43,0.5 in the three dimensions. How do I fix this in IDL so the
>> image has the right shape. Rebin only works for integers of the
>> original size...

>

> This seems more like an image **display** problem to me,
> but if you want to change the size of the data array,
> use CONGRID.

>

> Cheers,

>

> David

>

> --

> David Fanning, Ph.D.

> Fanning Software Consulting, Inc.

> Coyote's Guide to IDL Programming:<http://www.dfanning.com/>

> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

hey, but wait a minute....., what resolution (or voxel size) do I end up with then? I measure areas of some features in the image later (using another program), but what is the size of the congridded pixel, then? Say I congrid from (370x400x354) to (361x400x354).I save the congridded volume and use the voxel dimensions to turn a marching cubes estimated area into a physical value using the voxel size.
