
Subject: Re: How to make a .Dat file from DICOM series?

Posted by [davidf](#) on Fri, 01 Dec 2000 08:00:00 GMT

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Paolo Marcheschi (paolo@ifc.pi.cnr.it) writes:

> Hi I am new at programming in IDL.
>
> I'd like to make a .dat file from a series of DICOM images , is there a
> simple way to do it ?
> I wanto use slicer3 to analyze them.

Finally! A new user who wants to do something simple!

OK, I'll handle this one. :-)

Create a 3D array the same size as your images. The third dimension will be the number of "frames" you are going to have. Say each image is 300 by 400 and you will have 10 of them. (I assume your DICOM images are integer arrays.)

```
dataArray = IntArr(300, 400, 10)
```

Read each DICOM image and load it into the data array:

```
FOR j=0,9 DO BEGIN  
  filename = 'myfile' + StrTrim(j,2) + '.dcm'  
  image = Read_Dicom(filename)  
  dataArray[*,* ,j] = image  
ENDFOR
```

Send the whole mess to Slicer3:

```
ptr = Ptr_New(dataArray, /No_Copy)  
Slicer3, ptr
```

If you want to save it out to a file:

```
OpenW, 'myfile.dat', lun, /Get_Lun  
WriteU, lun, *ptr  
Free_Lun, lun
```

That's it. Pretty simple. :-)

Cheers,

David

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