
Subject: Re: Philips Gyroscan ACS-NT: Raw data format
Posted by [Bill Wahlberg](#) on Tue, 14 Sep 1999 07:00:00 GMT
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In article <7pj827\$55u\$1@news.lth.se>,
"Jonas" <jonas_2@hotmail.com> wrote:
> I have some MR image raw data exported from a Philips Gyroscan ACS-NT
MRI
> scanner.
> I have never worked with images from Philips MR scanners before,
therefore
> having trouble opening the images. Has anyone out there any experience
of
> the file format used?
> The images are acquired using a 3-D sequence and the whole image
volume (50
> images) are stored in one single file, 42,025,472 bytes large.
> I do not really understand the size of the file, since the images have
a
> resolution of 256*256, and I suppose that each pixel is a complex
number
> (4+4 byte), i.e. the file size should be 256*256*8*50+header =
> 26,214,400+header byte. A 16 MB large header???
> I would appreciate any info on header size, position of image data
within
> file, how the image data is stored, big/little-endian etc....
>

Hi Jonas,

I looked at the chunk of the file that you sent. As you had mentioned it
is raw (k-space) data, and not reconstructed image data.

This is my guess:

The format is 16 bit little endian.
The data starts at an offset of 1536.
There is 1 data set of 640x64 (81,920 bytes)
This is followed by 256 640x128 (163,840 bytes) data sets for a total of
41,943,040 bytes.

So $41,943,040 + 81,920 + 1,536 = 42,026,496$.

This works out to be 1024 bytes more than your reported file size. If
the offset is 512 then the math works out, but the data sets don't align
properly (when displayed graphically).

I will follow up by sending you some plots and pictures of what I see.

Bill

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