How to find physical dimensions of .b8 images

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How to find physical dimensions of .b8 images

by **potto216** » Mon Mar 24, 2014 6:50 pm

Hi ,

We need to find the physical dimensions for frames being read from .b8 files using RPRead like code.

Currently we can read the header and successfully display the image but the way we are computing the pixel dimensions is:

```
====CODE START===
lateralTotalWidth_mm=header.probeInfo.elementPitch_mm*header.probeInfo.elementCount;

%The lateral size in relation to the header is the total elements times
%each pitch then divided by the header size listed
scale.lateral.value=lateralTotalWidth_mm/(header.ur(1)-header.ul(1)+1);
scale.lateral.units='mm';

%the pixels are square
scale.axial.value=scale.lateral.value;
scale.axial.units='mm';
```

====CODE END===

In the code "header.probeInfo.elementPitch_mm", and "header.probeInfo.elementCount" are variables we populate based on the header.probe number from the data file.

Is this the proper way to do this?

Also does the header.extra field mean anything for .b8 values?

Thanks,
Paul

potto216

Posts: 21
Joined: Thu Feb 18, 2010 4:52 am

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Re: How to find physical dimensions of .b8 images

by **Ali** » Wed Mar 26, 2014 9:28 pm

For linear probes, your calculation seems right to me. If it's a curved probe, it's more complicated...
Ali Baghani, PhD
Research Scientist
Ultrasonix Medical Corp.

Ali

Posts: 240
Joined: Mon Jun 11, 2007 6:30 pm

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Re: How to find physical dimensions of .b8 images

by **potto216** » Mon Mar 31, 2014 6:21 pm

Thanks, does the header.extra field mean anything for .b8 values?

potto216

Posts: 21
Joined: Thu Feb 18, 2010 4:52 am

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Re: How to find physical dimensions of .b8 images

by **Ali** » Wed Apr 02, 2014 5:22 pm

It is the micron per pixel of the image.

So you can use it to convert to actual physical distances from the pixels in the image.
Ali Baghani, PhD
Research Scientist
Ultrasonix Medical Corp.

Ali

Posts: 240
Joined: Mon Jun 11, 2007 6:30 pm

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