
Subject: Bug in 5.3 read_binary template ?

Posted by [ignore_this_adress](#) on Wed, 01 Aug 2001 22:00:43 GMT

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Dear reader,

I came across something, that appears as a bug to me :

When reading in some material of our GE MR scanner, I need to have some information about the imaging parameters that are set in the proprietary file format. Using the (very useful) read_binary template I have defined 16- and 32bit ints, longs and floats, big endian. When running the read_binary function with the template, I receive well defined ints, but not longs and floats. Running the same program on an IRIX workstation (IDL 5.4), the results are fine.

The resulting values should be the following

Property	Value	Offset
Sizeof() IDL 5.3		
Exam number for this image:	1246	0x890 2
1246		
Series Number for this image:	12	0x892
2 12		
Image Number:	284	0x894
2 284		
Slice Thickness (mm):	8.00	0x8a4
4 2.33e-041		
Image matrix size - X:	512	0x8a8
2 512		
Image matrix size - Y:	512	0x8aa
2 512		
Display field of view - X (mm):	340.00	0x8ac 4
2.42e-041		
Display field of view - Y (if different):	272.00	0x8b0 4
2.42e-041		
Image dimension - X: 256.00		0x8b4
4 2.41e-041		
Image dimension - Y: 192.00		0x8b8
4 2.41e-041		
etc...		

To me it seems that IDL does not do the endian swapping on the float data type... Please share your thoughts :-)

M. Vogel
