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 :-)

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