
Subject: Re: Differences between IDL's floats and Java's floats - a problem

Posted by [Nigel Wade](#) on Fri, 14 Nov 2003 09:41:17 GMT

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R.G. Stockwell wrote:

> "Neil Crosby" <necr@pml.ac.uk> wrote in message

> news:3eda43e9.0311130409.5ee02334@posting.google.com...

>

>> I am currently porting some IDL code across to java, and I've run into

>> a couple of snags with the different ways IDL and Java deal with

>> numbers. Most of these I have sorted, with trips to the APIs and a

>> fair bit of googling. However, there is one I haven't managed to sort

>> out yet.

>

> ...

>

>> If I run the float code on these same four bytes though, IDL will give

>> me 412.50 (the value I want), while Java will give 5.951465E-39 -

>> clearly not the number I'm looking for!

>

> ...

>

>> Neil

>

>

>

> Hi Neil,

> as David said, this looks like a endian problem. Check out

> <http://www.ibiblio.org/javafaq/books/javaio/ioexamples/07/in dex.html>

>

> and there are some classes that deal with little endian inputs.

>

>

> Cheers,

> bob

>

>

It is. Java DataStreams read in network byte order (big endian).

To read little endian data I read it into a byte[] array and then wrap it in

a ByteBuffer set to ByteOrder.LITTLE_ENDIAN. There's probably a thousand

other ways to to it, I just find that the most straight forward.

--

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