Subject: Re: 10 bytes real

Posted by Craig Markwardt on Thu, 26 Oct 2000 15:31:05 GMT

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Thierry Wannier <thierry.wannier@unifr.ch> writes:

- > I want to analyse with IDL data obtained in the lab.
- > For this, I have to transfer and read on my PC the data which were
- > generated by a "home made" software running on a Mac.
- > Transfer: OK
- > Read with IDL:
- > I first fought successfully against a tribe a big-endians integer, then
- > found a way to cope with Booleans but now "I feel like a motherless
- > child" in front of a bunch of 10 bytes reals (IEEE).

>

- > Some suggestions?
- > Thanks: T.Wannier

Ten-byte reals. Ughh. Are you sure you can use something normal like 8-byte reals? IDL doesn't do 10-byte.

For 4- and 8-byte reals I am personally hooked on using IEEE_TO_HOST and HOST_TO_IEEE from the IDL Astronomy Library. It has the nifty benefit converting any standard network-order type, including integers, into the host-specific endianness. Here is how I use it with floating point numbers.

bb = bytarr(8) ;; Read ten bytes of data readu, unit, bb

ff = double(bb, 0) ;; Cast to double, but still with the wrong byte order

ieee_to_host, ff ;; Convert to host byte order

Craig

P.S. You will have to download at least where_negzero.pro conv_unix_vax.pro as well.

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