Subject: Re: converting 8 bytes to a double Posted by sterner on Thu, 28 Jul 1994 16:36:17 GMT

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stl@sma.ch (Stephen Strebel) writes:

- > Hi again,
- > sorry about that. COnverting 4 bytes to a long (as in the lasting
- > posting) isn't really what I wanted to find out about. I really need to
- > convert 8 bytes into a double.
- > Any ideas? Or any libraries that already do this?

What you want to do is called field extraction and is discussed in Chapter 4 of the IDL User's Guide in the secion on Type Conversion Functions.

If you have a byte array b you can extract doubles from it as follows:

d = double(b,s,n)

where s is the starting element in array b, and n is the number of doubles to extract. n is actually the size of the first dimension of the extracted array and could be followed by other dimensions to extract multidimensional arrays.

An example:

a=dblarr(5)+!dpi; Create a 5 element double array. b=byte(a,0,8,5); Convert it to an 8 x 5 byte array.

print.b : Look at it.

64 9 33 251 84 68 45 24

64 9 33 251 84 68 45 24

64 9 33 251 84 68 45 24

64 9 33 251 84 68 45 24

64 9 33 251 84 68 45 24

print,double(b,0,5); Extract & print the original values.

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Subject: Re: converting 8 bytes to a double

Posted by Geoff. Sobering on Thu, 04 Aug 1994 01:25:50 GMT

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In article <318lqdlNN5n5@i32.sma.ch>, stl@sma.ch (Stephen Strebel) wrote:

- > sorry about that. COnverting 4 bytes to a long (as in the lasting
- > posting) isn't really what I wanted to find out about. I really need to
- > convert 8 bytes into a double.

Should work the same as with byte->long.

new_double = double(existing_byte_array, 0, 1)

and the reverse operation:

new_byte_array = byte(existing_double, 0, 8)

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