Subject: Re: Convert a byte array to a structure? Posted by Bhautik Joshi on Thu, 17 Jan 2002 22:57:34 GMT View Forum Message <> Reply to Message

- > Does IDL have a simple and/or elegant way to convert a byte array
- > into a structure?
- > .
- > But is there a better, platform independent, way?
- > (Windows NT/2K, Linux, and Solaris)

I wouldn't mind finding this out myself (its a nifty trick). However, from what I can see, a simple method is not possible? Please, correct me if I'm wrong.

There is a newsgroup post from a while back here (from JD Smith): http://groups.google.com/groups?q=converting+type+struct+group:comp.lang.idl-pvwave++group:comp.lang.idl-pvwave&hl=e n&selm=3BAF6CAD.CFB19104%40astro.cornell.edu&rnum=3

The structure of a structure in memory is something like:

So what you have is data, stored as bytes in an array, that is the data that fills out the structure fields, all concatenated together. Then there is the 'context', which defines the data types of the fields and how many bytes each field takes up. So, if you could extract the data and context blocks (I haven't tried this before, but using pointers and stuff, just like good old C) and then play with it from there...

Another option would be to use the READS command and use explicitly formatted I/O to format the data into fields. I'm having a look at that now, and I'll get back to you on that one:)

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cheers,
Bhautik
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| nbj@imag.wsahs.nsw.gov.au | phone: 0404032617 |..|--\ -moo |
| ICQ #: 2464537 | http://cow.mooh.org | |--| |
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| international |
| roast. my sanity has gone |
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