Subject: Re: Q: IDL and endianness issues
Posted by John-David T. Smith on Tue, 11 Apr 2000 07:00:00 GMT
View Forum Message <> Reply to Message

Ossi Vaananen wrote:
>
> Hi! >
 Let's say I have a binary file with known structure, and the file is written on a little-endian machine. Then I want to read it again on a big-endian machine. How do I do it?
 If endianness was no problem, I could do this simply by creating a structure with contents that match the alignment of the different data types in the binary file, and then read data to it from the file with READU.
 In Matlab, files can be opened with the endianness of the file explicitly given as an argument to fopen. In IDL manuals I saw no reference to such a feature in IDL.
 The question is, does there exist a built-in feature in IDL that somehow allows endianness-specified file I/O?
Take a look at byteorder() or swap_endian(). For best results, use the nasa routines ieee_to_host and host_to_ieee.
Good luck,
JD
J.D. Smith * WORK: (607) 255-5842 Cornell University Dept. of Astronomy * (607) 255-6263 304 Space Sciences Bldg. * FAX: (607) 255-5875 Ithaca, NY 14853 *