## Subject: IDL and FITSIO library Posted by Jeffrey Newmark on Thu, 05 Sep 1996 07:00:00 GMT View Forum Message <> Reply to Message

Hi,

I am using the CFITSIO library to read FITS binary tables. I am linkimage'ing this into IDL and therefore am taking advantage of the IDL internals. Below is a fragment of my code where the "\*\*\*" is the offending line. The column data I want to read is of type long. In the RSI Advanced Development Guide it recommends the use of IDL\_TYP\_LONG for machine independence of long type, i.e. so long is 32-bits always whereas on 64-bit machines C uses long as 64-bits.

Therein lies my problem, at least I think. When I compile the code I do get a compiler WARNING of incompatible pointer types for the input of the CFITSIO routine ffgcvj (fits\_read\_col\_lng). When I run this to read the data into pointer pix it blows up with a segmentation violation. I believe the memory address is not large enough but what why?

I tried using "long" instead of "IDL\_LONG" but that didn't seem to work any better. Has anyone else tried this sought of thing before? Are there any C/IDL gurus out there who can recognize quickly my mistake????

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