## Subject: Re: IDL Procedure to read/write USGS DEMs Posted by Kelly Dean on Wed, 29 Sep 1999 07:00:00 GMT

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Reading DEMs are pretty simple. Below is an sample of a routine I used to read the GTOPO30 Elevation data from the CD. Swapping is required if you are on a PC.

Kelly Dean CSU/CIRA

## PRO COLsm

; \_

Retrieve an area around Colorado

•

topo = INTarr(4800,6000)

OpenR, 1, 'e:\w140n90\w140n90.dem', /swap\_endian; Swapping required on PCs

ReadU, 1, topo Close, 1

; Rotating not really required, IDL displays from bottom to top. Just my preferred method.

topo = ROTATE(TEMPORARY(topo),7)

toposmall = topo(4150:4249, 0:99); Retrieve Colorado

SHADE\_Surf, toposmall, shades = BYTscl(toposmall), ax=83, az=0 LoadCT, 11

## **END**

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John Brock wrote:

- > I am working on integrating topographic data at various spatial
- > resolutions within a single
- > USGS 7.5 minute DEM. This requires changing the data structure for a
- > DEM to
- > handle sections of variable resolution.

>

- > Does anyone know of an existing IDL procedure that reads or writes USGS
- > DEMs?
- > (DEM = digital elevation model). If so, I would like to use it as a
- > starting point.

>

- > Thanks,
- > John Brock