
Subject: Re: landscan data

Posted by [Paolo Grigis](#) on Tue, 17 Jan 2006 13:09:27 GMT

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matthias.demuzere@geo.kuleuven.be wrote:

> Thanks for the reply David.

>

> I tried again to read in the whole dataset with 43200x20880 fields on

> another PC, but that didn't work either. So I probably have to look to

> see if I can expand my memory capacity....

The problem with the 32-bit versions of IDL is that no matter how much *memory* you have in the system, you cannot allocate more than 2GB for *one* array (the reason is likely due to the fact that internal array indexing is done with a long signed integer, ranging up to $2^{31}-1$).

So the maximal numbers of *elements* in one array is approximately $2^{31}/\text{size}$, where size is the byte-size of your data type (1 for byte, 2 for int, 4 for longs etc.).

Possible solutions: break up the array in smaller chunks or switch to 64-bit IDL versions.

Ciao,
Paolo

>

> Cheers,

> Matthias

>
