
Subject: Re: Do netCDF Files Have a DataType of INT?
Posted by [Paul Van Delst\[1\]](#) on Mon, 03 Jun 2013 14:23:37 GMT
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From the netCDF docs:

<quote>

A variable external data type is one of a small set of netCDF types. In classic and 64-bit offset files, only the original six types are available (byte, character, short, int, float, and double).

</quote>

That indicates to me that the netCDF "int" is equivalent to the IDL "long", i.e. a 4-byte integer.

Similarly, the netCDF "short" is equivalent to the IDL "int"

From netcdf.h:

```
/*  
 * The netcdf external data types  
 */  
#define NC_NAT    0  
#define NC_BYTE   1  
#define NC_CHAR   2  
#define NC_SHORT  3  
#define NC_INT    4  
#define NC_LONG   NC_INT  
#define NC_FLOAT  5  
#define NC_DOUBLE 6  
#define NC_UBYTE  7  
#define NC_USHORT 8  
#define NC_UINT   9  
#define NC_INT64  10  
#define NC_UINT64 11  
#define NC_STRING 12  
#define NC_MAX_ATOMIC_TYPE NC_STRING
```

cheers,

paulv

On 06/02/13 22:36, David Fanning wrote:

```
> Folks,  
>  
> I've run into a problem with a netCDF file and I need a sanity check.  
>  
> I define a variable attribute "colortable" with an integer value, say  
> 33. As far as I know netCDF files don't have a datatype named "INT", so
```

> I use the datatype "SHORT" when I create the attribute:
>
> NCDF_ATTPUT, fileID, self.ID, 'colortable', 33, /SHORT
>
> Now, I want to read this attribute out of the file and copy it to
> another file. To learn something about this attribute I use the IDL
> routine NCDF_ATTINQ:
>
> attrInfo = NCDF_Attnq(fileID, GLOBAL=1, 'colortable')
>
> But, the datatype field of this attribute structure is inexplicably set
> to INT:
>
> IDL> Print, attrInfo.datatype
> INT
>
> Does that make *any* sense to anyone?
>
> Cheers,
>
> David
>
>
