
Subject: Bugs in IDL HDF routines

Posted by [rivers](#) on Mon, 09 Oct 1995 07:00:00 GMT

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I have found a number of serious bugs in IDL's HDF routines. I have informed RSI about these, but I am posting them here for 2 reasons:

- To prevent others from wasting time tracking down and document these same bugs.
- To solicit reports of any other bugs other people have found in the HDF routines so that RSI can fix them all at once.

- 1) Routine HDF_VG_ADDTR does not work at all. It always generates an error. This routine is used to add various entities (SDS, other Vgroups, etc.) to a Vgroup.
- 2) Routine HDF_SD_IDTOREF() is not documented. It is required to be able to use HDF_VG_ADDTR.
- 3) Routine HDF_SD_GETDATA crashes IDL when reading an SDS whose data type is DFNT_CHAR8. The technical support people at NCSA have stated that DFNT_CHAR8 is a valid data type for an SDS.
- 4) Routine HDF_SD_ATTRINFO returns corrupted strings when the attribute is of type DFNT_CHAR8 (character data). The returned strings have a trailing NULL character which renders them useless in IDL programs.
- 5) An error occurs under the following conditions:
 - Create a Scientific Data Set with HDF_SD_CREATE, specifying a data type.
 - Write data to that SDS with HDF_SD_ADDDATA, but pass it an array of a different data type than that specified in HDF_SD_CREATE.
 - HDF_SD_ADDDATA appears to work, but the error message
 % Temporary variables are still checked out - cleaning up...
occurs when HDF_SD_END is called.

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