
Subject: No. of variables allowed?

Posted by [Med Bennett](#) on Wed, 09 Aug 2000 07:00:00 GMT

[View Forum Message](#) <> [Reply to Message](#)

Greetings,

I am having a rather severe problem with IDL 5.0.2. I have a IDL data file with a lot of variables, currently about 250. When I ran a program that created som new variables, I found to my horror that IDL was replacing variable contents with the contents of other variables, i.e. a variable called 'AREAD', instead of being a string array of size 16, was now a float[193], etc. This was occuring without any warnings or error messages being given; only when some of my routines begin failing due to data having been overwritten did I realize what was going on. It appears that when I attempted to create variables in excess of 255 (a guess) , IDL began to randomly reassign existing variables with new contents. This is very disturbing, as the integrity of a lot of my data is now in question. Some questions: Is there an absolute limit on the number of variables in a .sav file? Do later versions of IDL have this limit? Why is there no warning of a limit being reached? I realize now that I need to compartmentalize my data and reduce the number of variables in a single session, but I'm curious if others have had this problem or have any suggestions. Thanks in advance-

A slightly panicked
Med Bennett

Subject: Re: No. of variables allowed?

Posted by [Kristian Kjaer](#) on Thu, 10 Aug 2000 07:00:00 GMT

[View Forum Message](#) <> [Reply to Message](#)

Med Bennett wrote:

> Greetings,
>
> I am having a rather severe problem with IDL 5.0.2. I have a IDL data
> file with a lot of variables, currently about 250. When I ran a program
> that created som new variables, I found to my horror that IDL was
> replacing variable contents with the contents of other variables, i.e. a
> variable called 'AREAD', instead of being a string array of size 16, was
> now a float[193], etc. This was occuring without any warnings or error
> messages being given; only when some of my routines begin failing due
> to data having been overwritten did I realize what was going on. It
> appears that when I attempted to create variables in excess of 255 (a
> guess) , IDL began to randomly reassign existing variables with new
> contents. This is very disturbing, as the integrity of a lot of my data
> is now in question. Some questions: Is there an absolute limit on the
> number of variables in a .sav file? Do later versions of IDL have this

> limit? Why is there no warning of a limit being reached? I realize now
> that I need to compartmentalize my data and reduce the number of
> variables in a single session, but I'm curious if others have had this
> problem or have any suggestions. Thanks in advance-
>
> A slightly panicked Med Bennett

I think we once saw something similar in IDL 5.0.
Using a batch file we created lots of variables at main level. 257
variables, say, even thousands of variables. Everything was fine. Then
we got into a house-keeping mood and decided to DELVAR those variables
that we did not need any more. (The reason being, I think, that in IDL4,
which we were also using, there were more stringent limits on the number
of variables you could have.) After that the IDL symbol table was
completely screwed up, just as Med describes. It seemed that if you had
more than 256 variables at main level and if you DELVAR'd one of them,
then chaos would result.
Note: We did not, as I recall, try to save and restore anything.

- Kristian

PS: I just tried something similar in IDL5.2. That seems to work OK.

Kristian Kjær, Risø Nat'l. Laboratory, Denmark
