

---

Subject: SAVE/RESTORE problems

Posted by [R.Balthazor](#) on Thu, 19 Mar 1998 08:00:00 GMT

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

---

Hello,

I have a pair of routines that worked fine in IDL4.0. The first essentially read in some large arrays from a number of datasets, and then performed a SAVE,/VARIABLES. The second then performed a RESTORE and proceeded to perform various graphical plottings on them. The reason it was split into two was that the first routine, reading in the variables, took around 15 minutes to read everything in (the many source datafiles are HUGE) and I wanted to experiment in the second routine with different ways of plotting the output. The size of the idlsave.dat file is around 23 Mbytes.

First I compiled the routines under IDL5.0.2 and ran them. The first routine ran fine, loading up the data from the huge datafiles. The second crashed out in the following manner.

```
IDL> TUBEREAD4
```

```
Starting restore...
```

```
% Stopped on unknown instruction(0) at 538298664.
```

```
% Execution halted at: TUBEREAD4          1 tuberead4.pro
```

The diagnostic "Starting restore..." is a PRINT command immediately before the RESTORE, and it doesn't reach the "Ending restore..." immediately afterwards so I guess the problem is in RESTORE, even if it claims it crashes out at line 1 (which is not the case).

Second try, I simply appended the second routine to the first, removed the SAVE,/VARIABLES and the RESTORE (and the spurious END and PRO lines), and compiled the whole thing. This ran perfectly, but is less than useful because of the time taken to read in before I get any useful image/data processing and output done.

I'd be very grateful if anyone can offer any suggestions for how to get around this problem.

thanks in advance,  
Richard

--

Dr. Richard Balthazor  
[r.balthazor@sheffield.ac.uk](mailto:r.balthazor@sheffield.ac.uk)

Tel: (+44 114) 222 3711

Fax: (+44 114) 222 3739

<http://www.shef.ac.uk/~ms/staff/balthazor>

Upper Atmosphere Modelling Group  
School of Mathematics and Statistics  
University of Sheffield  
Sheffield S3 7RH