
Subject: Passing arguments at runtime

Posted by [Daniel Peduzzi](#) on Mon, 22 Jul 2002 15:56:54 GMT

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My understanding is that the common (only?) method of passing parameters to an IDL program, restored at runtime using the IDL -rt option, is to read them from a temporary file (e.g. "input.dat".) I've been using this technique for years, and it works well for cases where there is no chance of the same "sav" file being restored by multiple processes.

However, dangers arise when multiple processes restore the same "sav" file, since the uniquely-named "input.dat" file is in danger of being read or changed by the wrong process.

As an example: I have a c-shell script which is kicked off whenever a data file appears in a directory. This can happen several times per hour. The script takes the data file name, writes it to the temporary "input.dat" file, and starts the IDL program which reads the data file name from "input.dat" and immediately deletes "input.dat".

To further protect against cases where the IDL program is restored by parallel processes, I've tried to name the temporary file something unique, such as "input.\$\$" (where \$\$ denotes the process ID). Within the IDL program, I get the most recently created input.* file via SPAWN, 'ls -1t input.*'. But this can still fail when 2 or more processes are started at the same time.

I was wondering how other folks have handled this situation, and if maybe there are other solutions which are not file-based and therefore prone to synchronization problems.

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