Subject: Problem using sav files.
Posted by Theo Brauers on Thu, 21 Sep 2000 07:00:00 GMT

Hi experts:

I am stuck with a problem using a sav file:

My program is an widget driven i/o interface for FACSIMILE. It
consists of about 400 functions/routines. When I compile the
whole thing using resolve_all it works fine in this IDL session.
However, when I save the thing (easy.sav) and restart IDL using
the easy.sav file it worked fine for a while, then the thing
crashes IDL totally during operation even when I use the same
input data. Restarting IDL with sav file: crash. Restarting
IDL with source compiled: OK. Save and restart: Crash. Rebooting
and repeating gives the same result. I can also reproduce this
behaviour on a different machine, with different user profile.
I had the same behaviour with a previous version of the program
which crashed in the same way at a different location in the
program but I cannot reproduce this again :-|

Does anybody have similar problems? Is there any possibility
to catch an error before IDL crashes?
I am using: { x86 Win32 Windows 5.3.1 Feb 23 2000}

Best regards

Theo

--

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Subject: Re: Problem using sav files.
Posted by promashkin on Fri, 22 Sep 2000 07:00:00 GMT

I would not expect 5.4 to solve this. I was able so far to use restored
routines just as fine as compiled ones in 5.3 and would not be surprised

if the problem carriad over into 5.4. I think it needs to be tracked down.
Leave it alone for a while. At a later time, it might become obvious why
did it do this. This approach worked for me a couple of times.
Cheers,
Pavel

Subject: Re: Problem using sav files.
Posted by Theo Brauers on Fri, 22 Sep 2000 07:00:00 GMT
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Liam Gumley wrote:
>
>
> The next step would be to reproduce the problem with the fewest lines of
> code.
>
> Cheers,
> Liam.
>
Sounds like hours or days of work. I'll sneak off .... friday 4:30pm,
weekend, ... When does IDL 5.4 (not beta) show up?

Thanks for your help.

Theo

Subject: Re: Problem using sav files.
Posted by R.Bauer on Wed, 04 Oct 2000 07:00:00 GMT
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Theo Brauers wrote:
>
> Hi experts:
>
> I am stuck with a problem using a sav file:
>
> My program is an widget driven i/o interface for FACSIMILE. It
> consists of about 400 functions/routines. When I compile the
> whole thing using resolve_all it works fine in this IDL session.
> However, when I save the thing (easy.sav) and restart IDL using

...

Some routines gave different results in runtime specially

HELP,CALL=CALL

In development it returns the filename and its location.
During runtime it's the uppercased routine name.

If this is used as input to another routine it is possible thats
an empty string is passed.

regards
Reimar

Subject: Re: Problem using sav files.
Posted by Theo Brauers on Thu, 05 Oct 2000 07:00:00 GMT
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Theo Brauers wrote:
>
> Hi experts:
>
> I am stuck with a problem using a sav file:
>
> My program is an widget driven i/o interface for FACSIMILE. It
> consists of about 400 functions/routines. When I compile the
> whole thing using resolve_all it works fine in this IDL session.
> However, when I save the thing (easy.sav) and restart IDL using
> the easy.sav file it worked fine for a while, then the thing
> crashes IDL totally during operation even when I use the same
> input data. Restarting IDL with sav file: crash. Restarting
> IDL with source compiled: OK. Save and restart: Crash. Rebooting
> and repeating gives the same result. I can also reproduce this
> behaviour on a different machine, with different user profile.
> I had the same behaviour with a previous version of the program
> which crashed in the same way at a different location in the
> program but I cannot reproduce this again :-|
>
> Does anybody have similar problems? Is there any possibility
> to catch an error before IDL crashes?
> I am using: { x86 Win32 Windows 5.3.1 Feb 23 2000}
>
> Best regards
>
> Theo
>
Problem solved! Thanks to all contributors and to Reimar
Bauer. :-)

What was wrong? We use an external routine (dll using fstat) determining the modification date of files. When we called this routine with a not existing filename IDL crashes. However, the reason for invalid filenames was the HELP, CALL=c procedure giving different results when called from compiled code or from a sav file.

Try this one:
```
;- test2.pro  ------------
FUNCTION testfunc
  HELP, CALL=c
  r = DIALOG_MESSAGE(c, /INFO)
  RETURN, c
END

PRO test2
  c = testfunc()
END
-------------
```

```
IDL> .COMPILE test2
IDL> test2
IDL> SAVE, /ROUT, FILE='test2.sav'
IDL> RESTORE, /ROUT, FILE='test2.sav'
IDL> test2
```

Showing me that SAVE and RESTORE do not exactly restore the previous session.

Best Theo