
Subject: Re: Need help combining LSODE with newton
Posted by [Chris Lee](#) on Wed, 26 Jan 2005 21:51:32 GMT
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In article <3404f51b.0501260535.3f5886ca@posting.google.com>, "Morten Stejner" <msp@phys.au.dk> wrote:

> Hi
> My local guru can't help me with this, so I was hoping one of you could.
> I am trying to solve a set of differential equations using the "newton"
> procedure to solve for the proper boundary conditions and LSODE to
> advance the solution (shooting to a fitting point).
>
> % NEWTON: File expression not allowed in this context: <No name>.
> Can anyone explain why this happens and how to avoid it. Any help at all

I get a different error

```
!version={ x86 linux unix linux 6.1.1 Oct 11 2004    32    64}
```

Internal error: Bad variable type encountered in no_name_var()

Which only happens if LSODE is called within NEWTON. Since both functions are dealing with pointers to functions (presumably, IDL doesn't use CALL_FUNCTION internally) I'm guessing there's either a bug in there or a shared global variable. The error happens in NEWTON after the call to the call to the user function.

You should probably tell RSI. Your code is small enough for them to run quickly and hopefully find a solution.

Chris.

>
> Thanks
> Morten Stejner
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