In article <TILE3.1538$%4.33531@news6.giganews.com>,
  "<none>" <slett@holisticmath.com> wrote:
> It is actually based on LSODAR, also from ODEPACK. I think this fact
is in
> IDL's documentation.
>

i'm sure you're right about their routine being based on LSODAR.
However, i just scanned the on-line help for LSODE again, in it does not
mention LSODAR **anywhere**. it just refers to the general documentation
for ODEPACK.

> however, because I don't know that RSI ever exposed the rootfinding
> capability of LSODAR to the user. Even so, since LSODAR can return

besides not exposing rootfinding, they also hardcoded just one choice
of error control (atol and rtol) out of the many possibilities present
in the original ODEPACK.

> possible, and may even be documented. If it isn't documented, it may
be
> proprietary information. If so, I'm not allowed to divulge it. :(

well, i looked through their external development guide, and it's not
there..

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