
Subject: Re: POLY_FIT 5.0: inaccurate results. use 4.0 if possible.

Posted by [davidf](#) on Fri, 27 Mar 1998 08:00:00 GMT

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Russ Welti (on mapper) (rwelti@mapper.mbt.washington.edu) writes:

> The 5.0 POLY_FIT has accuracy problems.
>
> My app uses POLY_FIT extensively to solve a problem
> which can be expressed as "choosing the very best of
> many possible curve fittings".
>
> I noticed the app was producing some wrong results, after
> upgrading to IDL 5.0.

I submitted this problem to the RSI technical support staff to see what they knew about it. Here is their response. This is one of those "nice things to do" that cause confusion because the change is not communicated carefully enough. I'm not sure how to solve this "upgrade" problem, but I do know it causes grief from time to time.

To obtain similar results for the POLY_FIT procedure from IDL 4.0.1 to IDL 5.0, please set (/DOUBLE) the DOUBLE keyword when using POLY_FIT in

internal computations are performed on double precision variables. However, because of timing feature requests, these routines were changed

keyword was added to these routines to force double precision

inconvenience this change may have caused.

Cheers,

David

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