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Subject: Re: POLY\_FIT 5.0: inaccurate results. use 4.0 if possible.

Posted by [davidf](#) on Mon, 30 Mar 1998 08:00:00 GMT

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Hi Folks,

Just to keep you up to date on this inaccurate POLY\_FIT 5 saga, I now hear from RSI technical support people that there is a bug in the DOUBLE implementation. So, just to summarize.

Russ Welti reported that IDL 5 POLY\_FIT gave different (and apparently inaccurate) results compared to the IDL 5 POLY\_FIT. RSI reports that in the interest of execution speed, they now make the calculation in single precision and to get the same results as before we should set the DOUBLE keyword. (I agree with Peter, by the way, that a SINGLE keyword would have made more sense here.) But there is apparently still a bug in the DOUBLE implementation, so the result is perhaps even worse than doing it in single precision.

The work-around is to make the \*data\* a double precision value before passing it to POLY\_FIT. I'm told this will be fixed before the final release of 5.1.

This reminds me of one of those times when I tried to do something nice for my wife and it gets all fouled up and she ends up not speaking to me for a week. :-)

Cheers,

David

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