
Subject: Re: Need 2-dimensional Y versus X curve fit routine

Posted by [rivers](#) on Thu, 10 Jul 1997 07:00:00 GMT

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In article <5q2uvvg\$9vh\$1@coyote.dres.dnd.ca>, jmcfee@dres.dnd.ca (John McFee) writes:

>

>

> CURVEFIT in the IDL built-in library which performs a nonlinear fit of a 1-D data vector
> Y to a function of a 1-D vector X and a parameter vector A. I am looking for a routine
> similar except that Y and X are two dimensional (time versus depth). CURVEFIT is based
> on Bevington's CURVFIT (Marquardt's method). I extended a fortran CURVFIT routine to 2-D
> some years ago, but hate to repeat the effort in IDL. Has anybody got a 2-D version? >
> I've already checked the searchable IDL library website with no luck.

CURVEFIT is not restricted to 1-D data, it simply minimizes an array of residuals as a function of the fit parameters. It can be used to fit 2-D or n-D data as well. It uses 1-D syntax for these residuals, but IDL can address any array as if it were 1-D.

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