## 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 <5q2uvg\$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 (Marguardt'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 systax for these residuals, but IDL can address any array as if it were 1-D.

Mark Rivers (773) 702-2279 (office)
CARS (773) 702-9951 (secretary)
Univ. of Chicago (773) 702-5454 (FAX)
5640 S. Ellis Ave. (708) 922-0499 (home)

Chicago, IL 60637 rivers@cars.uchicago.edu (e-mail)

or:

Argonne National Laboratory (630) 252-0422 (office)

Building 434A (630) 252-0405 (lab)

9700 South Cass Avenue (630) 252-1713 (beamline)

Argonne, IL 60439 (630) 252-0443 (FAX)