
Subject: Re: Help with SVDFIT (newbe)

Posted by [Christian Soeller](#) on Thu, 12 Sep 1996 07:00:00 GMT

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"H.Greeley" <hal_greeley@valley.net> writes:

>

> I am trying to fit an exponential using SVDFIT. Could someone give me a

> fairly detailed example of how to use the FUNCT parameter .

Instead of supplying an example I would suggest you had a look at the relevant chapter about Modelling of Data in NUMERICAL RECIPES in C(FORTRAN, PASCAL, etc). Section 15.4 (General Linear Least Squares) and subsection Solution by Use of Singular Value Decomposition therein explain what the user supplied function (FUNC in IDL) should do, namely evaluate the M basis functions (e.g. polynomials, cosines, etc) at the supplied N input points and return an (N,M) array of results. See also the documentation at the beginning of the idl source code (i.e., type DOC_LIBRARY,'SVDFIT' at the IDL prompt).

Regards,

Christian

PS. Are you sure you want to do a multidimensional fit? Otherwise you're better off using the function CURVEFIT for your fitting problem. I can send you an example of using curvefit if required.

Christian Soeller mailto: csoelle@sghms.ac.uk
St. Georges Hospital Medical School Dept. of Pharmacology
Cranmer Terrace London SW17 0RE
