Subject: Re: multi-dimensional SVDFIT?
Posted by thompson on Fri, 30 Jan 1998 08:00:00 GMT
View Forum Message <> Reply to Message

khayat@enp.umd.edu writes:

- > Hi,
- > Does anyone know of a .pro which contains the generalized multi-dimensional
- > SVDFIT routine? The standard SVDFIT in IDL is in one dimension, y=f(x).
- > I am looking for a y=f(x1,x2) SVDFIT.
- > Thanks
- > M. Khayat

Here's a technique that should work. Define x to be a structure with N elements, and have x1 and x2 be tags of that structure. For example,

```
X = {X1: 0.0, X2: 0.0}

X = REPLICATE(X, N_ELEMENTS(X1))

X.X1 = X1

X.X2 = X2
```

Then, simply define the function being passed to SVDFIT such that it extracts x1 and x2 from the structure array x.

Bill Thompson