Subject: Multiple parameters for ZEROFCN Posted by Rick Walton on Mon, 02 Jan 2012 22:41:04 GMT View Forum Message <> Reply to Message

I would like to find the root of a function f(x) that depends on the values from an array. Using th IMSL function ZEROFCN appears to only allow a single parameter to be defined, which is x. But I would like to vary one of the constants in the function but when I try to use a userdefined expression for this it causes an error. To demonstrate what I'm trying to acheive see the function and code below. If anyone has a simple solution to this I would really appreciate the help. Thanks in advance.

FUNCTION f, x, y RETURN, ((sinh((1.4 +x-0.25)/(0.4))/(sinh((x-0.25)/0.4)))-y END

;array containing data for constant y Y=fltarr(252)

;new file to input zeros zero=fltarr(252)

;function to determine zeros in f(x) FOR i=0, 251 DO BEGIN zero(i)=ZEROFCN("f", y(i))