Subject: Re: Getting generic routine to call function. Posted by thompson on Fri, 19 Nov 1993 15:13:26 GMT

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black@signal.dra.hmg.gb (John Black) writes:

- > Ooops, Sorry managed to somehow post a zero length message
- > OK that message again.
- > Here's the situation. I have a generic numerical routine such as a numerical
- > integration routine, or a Newton-Raphson routine. Ideally I'd like to write
- > them so that they can operate on any routine that evaluates a function.
- > However IDL/WAVE doesn't seem to allow you to pass the name of the routine
- > that evaluates a function into the generic routine, so that the generic
- > routine can use it. This situation is obviously best if it can be achieved,
- > because it means that you don't have to have multiple copies of the generic
- > routine all caled something different, but only differ in detail in that they
- > call a different function evaluating routine
- > So has anyone come up with a way to do this or a way to structure code to
- > get around this problem?
- Thanks in advance,

Yeah, that's easy. :^) Simply pass the name of the function as a character string to the routine and then use EXECUTE to evaluate the function. Here are the relevant lines from one of my own routines that uses this technique:

```
PRO LSTSQR,X,Y,FNAME,PARAM,PERR
TEST = EXECUTE('F = ' + FNAME + '(X,PARAM,FDER)')
```

Bill Thompson