

---

Subject: Re: Getting generic routine to call function.  
Posted by [thompson](#) on Fri, 19 Nov 1993 15:13:26 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

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 called 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

---