
Subject: Re: passing functions as arguments in IDL?
Posted by [davidf](#) on Tue, 29 Feb 2000 08:00:00 GMT
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Benno Puetz (puetz@mpipsykl.mpg.de) writes:

> David Fanning wrote:
>
>> Rick Baer (baer@hpl.hp.com) writes:
>>
>>> Is there any way to pass functions as arguments in IDL? I would
>>> like to be able to do something like this:
>>> ...
>>> IDL> print, tf1, f1, 4
>>
>> You can do this:
>>
>> function f1, x
>> return, x*x
>> end
>>
>> function tf1, func, arg
>> IF Size(func, /Type) NE 7 THEN BEGIN
>> Print, 'String argument required'
>> RETURN, -1
>> ENDIF
>> RetVal = Call_Function(func, arg)
>> return, RetVal
>> end
>>
>> IDL> print, tf1('f1', 4)
>>
>> Cheers,
>>
>> David
>> --
>
> Would it also be possible to pass argument lists of variable length,
> depending on the function to be called?
>
> I've tried the _EXTRA keyword but to no avail ...

If those arguments are *keywords* I should imagine _Extra
will work: :-)

```
function f1, x, Multi=multi
    if n_elements(multi) eq 0 then multi=2
    return, x*multi
```

```
end

function tf1, func, arg, _Extra=extra
IF Size(func, /Type) NE 7 THEN BEGIN
    Print, 'String argument required'
    RETURN, -1
ENDIF
RetVal = Call_Function(func, arg, _Extra=extra)
return, retVal
end
```

```
IDL> print, tf1('f1', 4, Multi=3)
```

```
12
```

```
IDL> print, tf1('f1', 4, Multi=6)
```

```
24
```

Cheers,

David

--

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