
Subject: Re: What subprogram? What parameters and keywords?

Posted by on Fri, 23 Aug 2013 15:09:40 GMT

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Den fredagen den 23:e augusti 2013 kl. 15:57:32 UTC+2 skrev Mats Löfdahl:

> Den fredagen den 23:e augusti 2013 kl. 14:52:28 UTC+2 skrev David Fanning:

>> Mats Löfdahl writes:

>

>>> Let's say IDL has just entered a subroutine or function. Is any of the following information available?

>

>>> 1. The name of the subprogram (like \$0 in bash)

>>> 2. The parameters as an array or struct or similar (kind of like \$*), preferably including keywords.

>

>> You can find two useful programs in the Coyote Library. WhoAml returns

>> the name of the program module the WhoAml program is called in, and

>> WhoCalledMe identifies the name of the program module that called the

>> routine you are now in.

>

>> There is no parameter stack that I am aware of, although it wouldn't

>> surprise me if the Scope_*** routines could figure it out.

>

> Thanks, that solves the first part of the problem! I'll read up on scope_*** and see if I can figure something out for the second part.

I didn't give much detail in my original post, but what I'm trying to do is make a subroutine that writes a log file with as much info as possible about the subprogram it was called from, without having been explicitly told very much. So David's WhoCalledMe is actually better than what I asked for.

And reading up on scope_*** and related routines was good advice, too. Looks like I could do something like this:

- * Get the subprogram name from name=WhoCalledMe()
- * Get the names of parameters and keywords from routine_info(name,/parameters)
- * Get the level of the calling function from scope_level()-1
- * Get the current values of the parameters and keywords from scope_varfetch

I haven't tried all the steps yet but it looks promising.
