Subject: List of called subprograms
Posted by on Wed, 24 Jul 2013 11:54:54 GMT
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We are putting together a data pipeline written in IDL and we are struggling to make it self-contained. As soon as we find that it calls a subprogram that is not within the same directory or within the IDL distribution, we make a local copy and rename it to a local namespace.

Everybody involved in the coding have lots of stuff in their idl path, so it is difficult to know that we caught everything. One could make a test user with nothing private in the idl path but that would be cumbersome and would require us to write a test suite that actually runs all of the code.

So. Is there a tool that can analyze the idl code in a directory (without actually running it) and list all the subprograms (with their paths) that would potentially be loaded and complied? (I guess it might help if we stuck to using [] for arrays everywhere but we could live with false positives for that.)

It would not have to be recursive once it finds something outside the current directory (although that would be nice too).

Subject: Re: List of called subprograms
Posted by Heinz Stege on Wed, 24 Jul 2013 14:37:42 GMT
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Hi Mats,

I'm not sure, if I get it right...

After compiling the main program(s) within a fresh IDL session you can
find the names of all subprograms with
  names=routine_info(/unresolved,functions=i) ; with i=0,1
Then compile all subprograms with
  resolve_routine,names,is_function=i
and continue with the first step to find all the subsubprograms and so
on.

This gives you the names of all programs. The pathes can be found with
  path=routine_info(names[j],/source) ; with j=0,1,...
or, if all subprograms reside within a file with one of the names of
all the subprograms with the file_which() routine.

HTH, Heinz

Subject: Re: List of called subprograms
Posted by on Wed, 24 Jul 2013 18:40:59 GMT

Den onsdagen den 24:e juli 2013 kl. 16:37:42 UTC+2 skrev Heinz Stege:
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> all the subprograms with the file_which() routine.
>
> HTH, Heinz

That's exactly what I need. Thank you!