Subject: Linking two or more IDL programs
Posted by Baro on Sat, 16 Jun 2012 23:52:36 GMT
View Forum Message <> Reply to Message

Dear All

I have four different programs written in IDL, each program gives me one or two parameters.I want to use the out put of this programs, as an input for one single equation, in the fifth one (that i am writing). I am facing difficulty in linking this programs into one last program. Can you help please?

Cheers
Guta

Subject: Re: Linking two or more IDL programs
Posted by k_ghreep on Sun, 17 Jun 2012 17:22:12 GMT
View Forum Message <> Reply to Message

On Sunday, June 17, 2012 1:52:36 AM UTC+2, gutewaqi wrote:
> Dear All
>
> I have four different programs written in IDL, each program gives me one or two parameters.I want to use the out put of this programs, as an input for one single equation, in the fifth one (that i am writing). I am facing difficulty in linking this programs into one last program. Can you help please?
>
> Cheers
> Guta

It is easy to do this like that

first, write a main program say XC to add two numbers a and b

a= 3. and b = 6.

the first command line result_adda=adda(a,b)
call a subroutine namely adda to calculate a+b which is written in a separate file as follows

```
FUNCTION adda, a,b  ;   in the first line  write FUNCTION adda which is
                    ;   written in the first line command follow by a comma
                    ;    and the variables names separated by comma a, b
                    ;    please note that the variables a and b are the same
                    ;   characters in the first line command in the main
                    ;   program
```

```
d= a+b            ;   sum a and b and put the result in a new
                  ;   variable namely d

return, {d:d}       ; before ending the subroutine please set the variable d
                  ;  in the following  command as follows
END                 ; finally end subroutine
```

the second command line result_mult=mult(a,b)
call a subroutine namely mult to calculate a*b which is also written in a separate file as follows

```
FUNCTION mult, a,b  ;   in the first line  write FUNCTION mult follow by a
                  ;    comma and the variables names separated by comma a, b
                  ;    please note that the variables a and b are the same
                  ;   characters in the second line command in the main
                  ;   program

d= a*b            ;    multipli a and b and put the result in a new
                  ;   variable namely d with out problem

return, {d:d}       ; before ending the subroutine please set the variable d
                  ;  in the following  command as follows
END                 ; finally write end subroutine
```

if you run the following main program

```
??????????????????????
pro xc
a=3.
b=6.

result_adda=adda(a,b)         ; addation a+b
result_mult=mult(a,b)  ; multiplications a*b

print, a, b, result_adda.d
print, a, b, result_mult.d

end
??????????????????????
```

you will get the following results

```
3.00000      6.00000      9.00000
3.00000      6.00000      18.0000
```

finally you can write the both subroutines in one as follows

```
FUNCTION all, a,b
```

```
d1= a+b
d2=a*b
return, {d:d, d1:d1}
END
```
please note that the variables d and d1 are the sum and multiply a and b respectively.
and the main program as follows
```
 pro XC
a=3.
b=6.

result=all(a,b)
print, a, b, result.d, result.d1
end
```

you will get the following results
3.00000 6.00000 9.00000 18.0000

My Best Wishes

Subject: RE: Linking two or more IDL programs
Posted by Baro on Mon, 18 Jun 2012 17:56:43 GMT
View Forum Message <> Reply to Message

Thank you very much!!!!!!!!!!!!

IT IS WORKING

Guta
