
Subject: Re: Simple task manager for parallel processing in IDL
Posted by [wita](#) on Mon, 10 Mar 2008 15:44:15 GMT
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Small addition to the previous post: In order to have complete functionality, I added some routines to the zip archive that come from the libraries of David Fanning and Craig Markwardt. If you already have these in your IDLPATH you can delete them.

Allard

Subject: Re: Simple task manager for parallel processing in IDL
Posted by [devin.white](#) on Tue, 11 Mar 2008 15:38:35 GMT
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Nice! Here's one way you can use the IDL-IDL Bridge with ENVI:

```
IDL> r -> execute, 'envi, /restore_base_save_files & message, /reset'
```

That kills the problematic error messages in the child process and allows you to proceed with sending tasks over the bridge. You might still run into issues as various ENVI functionality is automatically restored during calls to documented routines, so try adding "& message, /reset" to the end of every call you make that involves one of those routines. Example:

```
IDL> r -> execute, 'envi_convert_file_coordinates, fid, xfile, yfile,  
xmap, ymap, /to_map & message, /reset'
```

Seems to work pretty well.

```
> Now some of you may be wondering "why isn't this guy using the  
> IDL_IDLbridge?". The point is that many of the work I do involves ENVI  
> functionality and so far I had some problems to get ENVI to initialize  
> on an IDL_IDLBridge session (although the IDLPATH settings on the  
> bridge are OK):  
>  
> IDL> r = obj_new('idl_idlbridge')  
> % Loaded DLM: IDL_IDLBRIDGE.  
> IDL> r -> execute, 'envi, /restore_base_save_files'  
> % IDL_IDLBRIDGE Error: Attempt to call undefined procedure/function:  
> 'ENVI_IOW'.  
> % Execution halted at: $MAIN$  
> IDL> r -> execute, 'envi_batch_init'  
> % IDL_IDLBRIDGE Error: Attempt to call undefined procedure/function:  
> 'ENVI_RV'.
```

> % Execution halted at: \$MAIN\$
>
> It needs some further testing whether ENVI is initialized properly on
> the bridge (despite the error messages) as some functionality seems to
> work properly.
>
> Cheers,
>
> Allard

Subject: Re: Simple task manager for parallel processing in IDL
Posted by [wita](#) on Thu, 13 Mar 2008 09:14:20 GMT
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On Mar 11, 4:38 pm, "devin.wh...@gmail.com" <devin.wh...@gmail.com>
wrote:

> Nice! Here's one way you can use the IDL-IDL Bridge with ENVI:

Dear Devin,

Thanks for the suggestions, I will try to implement a new version of
the process manager using the IDL_IDLbridge when I find some time.
Using the IDL_IDLbridge would eliminate the startup time of IDL which
could become significant when each task involves only a relatively
small amount of processing time.

Cheers

Allard
