
Subject: Re: [Q] removing undefined variables automatically/rename

Posted by [Phil Williams](#) on Wed, 06 Nov 1996 08:00:00 GMT

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Iarla Kilbane-Dawe wrote:

>
> Hello,
>
> does anybody know if there's a handy routine for deleting undefined
> variables in IDL? Occasionally lots of them are setup accidentally and
> it's annoying to have deleting individually. Does anyone have a
> suggestion for dealing with this?
>

The attached pro file should do the trick. However, it may not work nicely w/ common blocks.

> Also, does anyone know if it's possible to rename a variable? If you have
> a large array is can be tricky doing
>
> a = temporary(b)
> delvar,b
>
> Any suggestions?
>
> Thanks,
>
> Iarla.
>
> --

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/*****
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```
/*****
```

```
;+
; NAME: CLEAN.PRO
;
; PURPOSE: Delete all undefined variables
;
; CATEGORY: Utility Functions
;
; CALLING SEQUENCE: IDL> clean
;
; INPUTS: none
;
; OPTIONAL INPUTS: none
;
; KEYWORD PARAMETERS: none
;
; OUTPUTS: none
;
; OPTIONAL OUTPUTS: none
;
; COMMON BLOCKS: none
;
; SIDE EFFECTS: none
;
; RESTRICTIONS: Only works on variables in the Main program space.
;               Most likely will crash w/ common blocks. Must be run
;               as $MAIN$.
;
; PROCEDURE: Straightforward
;
; MODIFICATION HISTORY:
;   v1.0 written by Phil Williams 11/6/1996
;       williams@irc.chmcc.org
;-
```

```
;--- Get the Help Data
HelpData = gethelp(/fullstring)
```

```
vars = ""
for i = 0,n_elements(HelpData)-1 do begin
;--- Find the undefined ones
    pos = strpos(HelpData(i), 'UNDEFINED')

;--- if undefined add to the list
    if pos ne -1 then begin
        pos = strpos(HelpData(i), ' ')
        vars = vars + strmid(HelpData(i),0,pos) + ', '
    end
end
```

```
endif
endfor

;--- Chop off the last ,
vars = strmid(vars, 0, strlen(vars) - 2)

;--- Make the DELVAR command
cmd = 'DELVAR, ' + vars

;--- Execute it!
r = execute(cmd)

end
```

File Attachments

1) [clean.pro](#), downloaded 117 times
