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Subject: Re: Variable undefined after while-cycle?

Posted by [Pavel A. Romashkin](#) on Wed, 19 Sep 2001 15:01:02 GMT

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Olaf Stetzer wrote:

```
>
> while not EOF(lun) do begin
>   readf, lun, line
>   line=strjoin(strsplit(line,',',/extract),/single)
>   Lasttime=double(values(1))
```

From the code snippet I see, VALUES[0] is not defined yet. Switch the line above with the next line that defines VALUES.

```
>   values=strsplit(line,',',/extract)
>   msdate=double(values(0))
>   mstime=double(values(1))
>   if (Lasttime ne mstime) then begin
>     print," Lasttime, mstime, ' Zeiten sind ungleich!'
>     Zeitpunkt=mstime2sqlts(msdate,mstime)
>     insertstr='INSERT INTO ' + table + ' VALUES (' +
> sqlts2datetimestr(Zeitpunkt) + ''
>
> ...
```

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Subject: Re: Variable undefined after while-cycle?

Posted by [R.Bauer](#) on Wed, 19 Sep 2001 15:46:32 GMT

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Olaf Stetzer wrote:

```
>
> Hello,
>
> I have a strange problem which may be related to the
> way IDL frees variables in/after subroutines. In the
> following example I want to compare a value with the
> one from the last while-cycle, however the Variable
> to store the Value for the next cycle (Lasttime)
> seems to be empty even at the end of the cycle
> (at point ;;;XX). When I define the Variable Lasttime
> before the while not EOF.... then the behaviour is
> still the same, the comparison (Lasttime ne mstime)
> is always true, even if it should not!
>
> Thanks,
>
> Olaf
>
```

```

> -----
> while not EOF(lun) do begin
>   readf, lun, line
>   line=strjoin(strsplit(line,"",/extract),/single)
>   Lasttime=double(values(1))
>   values=strsplit(line,',',/extract)
>   msdate=double(values(0))
>   mstime=double(values(1))
>   if (Lasttime ne mstime) then begin
>     print," Lasttime, mstime, ' Zeiten sind ungleich!'
>     Zeitpunkt=mstime2sqlts(msdate,mstime)
>     insertstr='INSERT INTO ' + table + ' VALUES (' +
> sqlts2datetimestr(Zeitpunkt) + "'
>       for i=2,(n_elements(fields)-1) do insertstr=insertstr + ', ' +
> values(i)
>       insertstr=insertstr+ ' ) ;'
>       ;;XX
>       ;dbobj->ExecuteSQL,insertstr
>   endif else begin
>     print," Lasttime, mstime, ' Zeiten sind gleich!'
>   endelse
> endwhile
>

```

Dear Olaf,

you should use () only for functions  
[] should be used for arrays.

I agree to Pavels solution.

regards

Reimar

--

Reimar Bauer

Institut fuer Stratosphaerische Chemie (ICG-1)  
Forschungszentrum Juelich  
email: R.Bauer@fz-juelich.de  
<http://www.fz-juelich.de/icg/icg1/>

=====

a IDL library at ForschungsZentrum Juelich

[http://www.fz-juelich.de/icg/icg1/idl\\_icglib/idl\\_lib\\_intro.html](http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.html)

<http://www.fz-juelich.de/zb/text/publikation/juel3786.html>

=====  
read something about linux / windows  
<http://www.suse.de/de/news/hotnews/MS.html>

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Subject: Re: Variable undefined after while-cycle?  
Posted by [David Fanning](#) on Wed, 19 Sep 2001 16:16:50 GMT  
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Reimar Bauer (r.bauer@fz-juelich.de) writes:

> you should use () only for functions  
> [] should be used for arrays.

Please, let's not get started on proper programming technique.

It was my "pleasure" yesterday to work with some IDL programs distributed with TRMM data. Yikes!

Let's just say there are probably a few more people out there who ought to help Liam and me get rich by buying an IDL programming book. :-)

Cheers,

David

P.S. In the TRMM folks defense, these programs were fairly old by software standards. But still, let's try to avoid writing programs that work only on the computer the programmer happens to have on his/her desk. Long live device/color/computer independence!!

--  
David W. Fanning, Ph.D.  
Fanning Software Consulting  
Phone: 970-221-0438, E-mail: [david@dfanning.com](mailto:david@dfanning.com)  
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>  
Toll-Free IDL Book Orders: 1-888-461-0155

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Subject: Re: Variable undefined after while-cycle?

Posted by [Martin Downing](#) on Wed, 19 Sep 2001 16:28:40 GMT

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I think Pavels solution will always be true as Lasttime is now defined identical to this time (ie mstime)

try these changes (marked by ;\*\*)#

cheers

Martin

```
;** add
Lasttime = -1 ; dummy value which should always be different from mstime
;**
while not EOF(lun) do begin
  readf, lun, line
  line=strjoin(strsplit(line,'"','/extract'),/single)
;** delete Lastline here
  values=strsplit(line,',','/extract)
  msdate=double(values(0))
  mstime=double(values(1))
;** modify below so that you dont detect the first loop as changed
  if (Lasttime ne -1) and (Lasttime ne mstime) then begin
    **
    print," Lasttime, mstime, ' Zeiten sind ungleich!'
      Zeitpunkt=mstime2sqlts(msdate,mstime)
      insertstr='INSERT INTO ' + table + ' VALUES ("
+sqlts2datetimestr(Zeitpunkt) + "'
      for i=2,(n_elements(fields)-1) do insertstr=insertstr + ',' + values(i)
      insertstr=insertstr+ ' ) ;'
      ;;XX
      ;dbobj->ExecuteSQL,insertstr
    endif else begin
      print," Lasttime, mstime, ' Zeiten sind gleich!'
    endelse
    **
    Lasttime = mstime ; now set to mstime ready for next loop
    **
  endwhile
```

--

-----  
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Orthopaedic RSA Research Centre,  
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Fax. 01224 556662

m.downing@abdn.ac.uk

"Pavel A. Romashkin" <pavel.romashkin@noaa.gov> wrote in message news:3BA8B32E.9BE43C7B@noaa.gov...

> Olaf Stetzer wrote:

```
>>
>> while not EOF(lun) do begin
>>     readf, lun, line
>>     line=strjoin(strsplit(line,',',/extract),/single)
>>     Lasttime=double(values(1))
>
```

> From the code snippet I see, VALUES[0] is not defined yet. Switch the  
> line above with the next line that defines VALUES.

```
>
>>     values=strsplit(line,',',/extract)
>>     msdate=double(values(0))
>>     mstime=double(values(1))
>>     if (Lasttime ne mstime) then begin
>>         print,', Lasttime, mstime, ' Zeiten sind ungleich!'
>>         Zeitpunkt=mstime2sqlts(msdate,mstime)
>>         insertstr='INSERT INTO ' + table + ' VALUES (' +
>> sqlts2datetimestr(Zeitpunkt) + ''
> ...
```

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Subject: Re: Variable undefined after while-cycle?

Posted by [Craig Markwardt](#) on Thu, 20 Sep 2001 01:11:29 GMT

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David Fanning <david@dfanning.com> writes:

> Reimar Bauer (r.bauer@fz-juelich.de) writes:

```
>
>> you should use () only for functions
>> [] should be used for arrays.
>
> Please, let's not get started on proper programming
> technique.
```

And, as far as I'm concerned, round parentheses are accepted by IDL by default for array indexing, so they must be correct :- ) (as are the square brackets too of course).

This same wisdom can be found in the ancient text of \_EXTRAmasutra, whose IDL-ku is almost a lost form of expression today. The guru says it in an obscure way, but the meaning is clear:

index, NOT careless

to, slice AND dice (arrays), a  
round (blade) = sharper

I still do not yet use a "square blade" for my array indexing, it is  
too dull. :-)

Craig

[ For those uninitiated in IDL-ku, it reads like a 5-7-5 syllable  
haiku, but is a compileable IDL program. The equals sign "=" can  
either be silent or the single syllable "is". ]

--

-----  
Craig B. Markwardt, Ph.D.      EMAIL:  craigmnet@cow.physics.wisc.edu  
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response  
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Subject: Re: Variable undefined after while-cycle?  
Posted by [R.Bauer](#) on Thu, 20 Sep 2001 07:19:57 GMT  
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Craig Markwardt wrote:

>  
> David Fanning <david@dfanning.com> writes:  
>  
>> Reimar Bauer (r.bauer@fz-juelich.de) writes:  
>>  
>>> you should use () only for functions  
>>> [] should be used for arrays.  
>>  
>> Please, let's not get started on proper programming  
>> technique.  
>  
> And, as far as I'm concerned, round parentheses are accepted by IDL by  
> default for array indexing, so they must be correct :-) (as are the  
> square brackets too of course).  
>  
> This same wisdom can be found in the ancient text of \_EXTRAmasutra,  
> whose IDL-ku is almost a lost form of expression today. The guru says  
> it in an obscure way, but the meaning is clear:  
>  
> index, NOT careless  
> to, slice AND dice (arrays), a  
> round (blade) = sharper  
>  
> I still do not yet use a "square blade" for my array indexing, it is

> too dull. :-)

Dear Craig,

a lot of my old code is using () too. But [] gets some code better readable. So everytime I add a new keyword or something else to an old script I correct the () into [].

In the past I got some problems with funtions named as arrays both are with (). This problem is solved by using [] for arrays. For me this is a good idea.

How did you switch of this option:  
COMPILE\_OPT STRICTARR

I have no idea.

regards  
Reimar

>  
> Craig  
>  
> [ For those uninitiated in IDL-ku, it reads like a 5-7-5 syllable  
> haiku, but is a compileable IDL program. The equals sign "=" can  
> either be silent or the single syllable "is". ]  
>  
> --  
> -----  
> Craig B. Markwardt, Ph.D.      EMAIL: craigmnet@cow.physics.wisc.edu  
> Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response  
> -----

--

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a IDL library at ForschungsZentrum Juelich

[http://www.fz-juelich.de/icg/icg1/idl\\_icglib/idl\\_lib\\_intro.html](http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.html)

<http://www.fz-juelich.de/zb/text/publikation/juel3786.html>

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read something about linux / windows

<http://www.suse.de/de/news/hotnews/MS.html>