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Subject: Proper use of assoc

Posted by [abbotta](#) on Fri, 13 Dec 2002 17:34:04 GMT

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Hi. I'm having a problem using associated i/o. I have a series of files that contain arrays of uints. I'm trying to use assoc to be able to access the arrays, but I so far have had no luck in getting it to work.

The error that I'm getting is: "File expression not allowed in this context:<UINT FILE>". I get this error when I try to execute the assoc statement. I've checked for an error when the file is opened, but have detected none.

Can anybody point out what I'm doing wrong?

```
pro fileSet::createAssociation, filename,samples
```

```
    openu,1,filename, ERROR = err
    IF (err NE 0) then PRINTF, -2, !ERROR_STATE.MSG
    self.sonarData = assoc(1,uintarr(samples))
end
```

samples = the number of uints.

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Subject: Re: Proper use of assoc

Posted by [abbotta](#) on Mon, 16 Dec 2002 12:55:03 GMT

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Thanks for the help. I got it working late friday afternoon.

Jeff Guerber <jguerber@icesat2.gsfc.nasa.gov> wrote in message news:<Pine.GHP.4.32.0212131840001.9782-100000@icesat2.gsfc.nasa.gov>...

```
> I think David identified the cause of your problem; something that
> _does_ work, however, is to make the associated variable the target of a
> pointer:
>
> pro fileSet::createAssociation, filename,samples
>   openu, lun, filename, /GETLUN, ERROR = err
>   IF (err NE 0) then PRINTF, -2, !ERROR_STATE.MSG
>   self.sonarData = ptr_new( assoc(lun,uintarr(samples)) )
>   self.lun = lun
>   return
> end
>
```

```

> ;; An example of using self.sonarDatap:
> pro fileSet::dumpFile
>   n = 0L
>   while not eof(self.lun) do begin
>     print, n, (*self.sonarDatap)[n]
>     n = n + 1L
>   endwhile
>   return
> end
>
> pro fileSet__define
>   void = { lun:0L, $
>     sonarDatap: ptr_new() } ; Plus whatever else goes in your object
>   return
> end
>
> Note that the parentheses in "(*self.sonardatap)[n]" are required;
> otherwise IDL will try to take what the Nth element of self.sonardatap
> (which isn't an array) points to, instead of taking the Nth element of
> what self.sonardatap points to. I.e., *self.sonardatap[n] is equivalent to
> *(self.sonardatap[n]). (The prefix syntax and precedence for pointer
> dereferencing appears to have come straight from C. No less an authority
> on C than Dennis Ritchie has indicated that in retrospect, this may have
> been a mistake! (http://cm.bell-labs.com/who/dmr/chist.pdf, in the section
> "Critique".) )
>
> Also note that EOF() still works with associated variables, or rather
> their unit numbers. Oh, and it's a good idea to open files with /GETLUN
> in cases like this, in case you someday want to have more than one fileSet
> object at the same time. And don't forget a cleanup method that does a
> "freelun, self.lun" (which also closes the file) and frees the pointer!
>
> I think probably, an associated array basically boils down to a
> function call that masquerades as a array, and that's why it has so many
> peculiarities. (Here's another: n_elements() always returns 1.) Hope
> this helps,
>
>
> Jeff Guerber
>
> On Fri, 13 Dec 2002, David Fanning wrote:
>
>> Arthur (abbotta@annapolis.nssc.ns.ca) writes:
>>
>>> Hi. I'm having a problem using associated i/o. I have a series of
>>> files that contain arrays of uints. I'm trying to use assoc to be
>>> able to access the arrays, but I so far have had no luck in getting
>>> it to work.
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```

```
>>> The error that I'm getting is: "File expression not allowed in this
>>> context:<UINT  FILE>". I get this error when I try to execute the
>>> assoc statement. I've checked for an error when the file is opened,
>>> but have detected none.
>>>
>>> Can anybody point out what I'm doing wrong?
>>>
>>> pro fileSet::createAssociation, filename,samples
>>>
>>>   openu,1,filename, ERROR = err
>>>   IF (err NE 0) then PRINTF, -2, !ERROR_STATE.MSG
>>>   self.sonarData = assoc(1,uintarr(samples))
>>> end
>>
>> The problem here is that whatever it is that ASSOC
>> returns, can't be stored in whatever type field
>> self.sonarData is. :-(
>>
>> The return variable from ASSOC is a funny thing,
>> really. Not any type of IDL variable, as far as
>> I can see. Which pretty much eliminates it being
>> stored in any kind of a structure.
>>
>> What I have done before is passed around the logical
>> unit number I want to have associated with the filename
>> (and maybe the filename itself) so that I can always
>> create a LOCAL associated variable in the program module
>> where I need it. I think that is the best you can do.
>>
>> Cheers,
>>
>> David
```

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