Subject: Linked List
Posted by Nigel Helliwell on Thu, 20 Mar 1997 08:00:00 GMT

Hi all,
 I'm trying to create a linked list structure in IDL, it is a list of
records(structures) which I need to create dynamically.

POINTER TO record
record = {NAME,VAR1,VAR2,..,(POINTER TO NEXT RECORD)}
etc.
If anymone has any idea how to go about this please could you give me a
few ideas.
 Thankyou,
 Nigel.
 <nih@pml.ac.uk>

Subject: Re: Linked List
Posted by martin on Sat, 22 Mar 1997 08:00:00 GMT

In article <333118AC.41C67EA6@pml.ac.uk>, Nigel Helliwell <nih@pml.ac.uk> wrote:

> Hi all,
>   I'm trying to create a linked list structure in IDL, it is a list of
> records(structures) which I need to create dynamically.
>
> POINTER TO record
> record = {NAME,VAR1,VAR2,..,(POINTER TO NEXT RECORD)}
> etc.
> If anymone has any idea how to go about this please could you give me a
> few ideas.
>   Thankyou,
>   Nigel.
>   <nih@pml.ac.uk>

I think you can do it with handles. IDL version 5 is supposed to have
pointers. If this is the case then you may want to wait until you get V5.

Charles Martin
University of Texas

Subject: Re: Linked List
Posted by peter on Tue, 25 Mar 1997 08:00:00 GMT

Nigel Helliwell (nih@pml.ac.uk) wrote:
: Hi all,
: I'm trying to create a linked list structure in IDL, it is a list of
: records(structures) which I need to create dynamically.

: POINTER TO record
: record = {NAME,VAR1,VAR2,..,(POINTER TO NEXT RECORD)}
: etc.
: If anymone has any idea how to go about this please could you give me a
: few ideas.
: Thankyou,
:   Nigel.
:   <nih@pml.ac.uk>

Have a look at the HANDLES examples in the manual.

peter

Subject: Re: Linked List
Posted by hto on Wed, 26 Mar 1997 08:00:00 GMT
View Forum Message <> Reply to Message

On 22 Mar 1997 03:56:28 GMT, martin@uthscsa.edu (Charles Martin)
wrote:

> In article <333118AC.41C67EA6@pml.ac.uk>, Nigel Helliwell <nih@pml.ac.uk> wrote:
>
>> Hi all,
>>   I'm trying to create a linked list structure in IDL, it is a list of
>> records(structures) which I need to create dynamically.
>>
>> POINTER TO record
>> record = {NAME,VAR1,VAR2,..,(POINTER TO NEXT RECORD)}
>> etc.
>> If anymone has any idea how to go about this please could you give me a
>> few ideas.
>>   Thankyou,
>>   Nigel.
>>   <nih@pml.ac.uk>
>
> I think you can do it with handles. IDL version 5 is supposed to have
> pointers. If this is the case then you may want to wait until you get V5.
>
> Charles Martin
> University of Texas

IDL has builtins to create and manage linked lists. Use

Page 2 of 3 ---- Generated from   comp.lang.idl-pvwave archive

handle_create, handle_info, etc. It's very straightforward and
elegant. You do not have (or need) direct access to the link
pointers. All links are accessed via link id's. You can explicitly
access the first record and then succeeding records until the list is
exhausted (id of -1 returned). Therefore you can create while loops
to operate on the entire list without needing to know the number of
elements in the list (although that is readily available). You can
also deallocate individual elements or the entire list (with one line
of code) and I believe that the memory is returned to the IDL pool for
reuse.

Howard Onishi

Subject: Re: Linked List
Posted by Gilles Ratel on Thu, 27 Mar 1997 08:00:00 GMT
View Forum Message <> Reply to Message

look HANDLE... attn. obsolete in IDL 5.0

Nigel Helliwell <nih@pml.ac.uk> wrote in article
<333118AC.41C67EA6@pml.ac.uk>...
> Hi all,
> I'm trying to create a linked list structure in IDL, it is a list of
> records(structures) which I need to create dynamically.
>
> POINTER TO record
> record = {NAME,VAR1,VAR2,..,(POINTER TO NEXT RECORD)}
> etc.
> If anymone has any idea how to go about this please could you give me a
> few ideas.
> Thankyou,
>   Nigel.
>   <nih@pml.ac.uk>
>