Subject: Re: Insert row in structure
Posted by davidf on Wed, 10 Mar 1999 08:00:00 GMT
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Joe Means (means@fsl.orst.edu) writes:

> Howdy, I would like an effecient way to insert a row or observation in a
> structure. The structure is simple like:
> data = {data1,num:0L,x:0.0,y:0.0,z0.0}
> dataout = Replicate(data,100000L)
>
> I will have to insert, and at other times append, rows into dataout.

I don't think I understand what you are looking for.
Is a "row" or "observation" another DATA1 structure?
Or do you want to add another field to each DATA1 structure?

Or does "insert a row" mean to add another DATA1
structure into the middle of the dataout array of
structures?

I'm confused. :-(

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting
Phone: 970-221-0438 E-Mail: davidf@dfanning.com
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: Insert row in structure
Posted by Joe[2] on Thu, 11 Mar 1999 08:00:00 GMT
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Yeah, I agree - very confusing. I guess that I would make dataout
big enough to hold the longest possible set of data's and just
append. Then after it is all done resort dataout to the desired order.
Otherwise, you are going to have to move large blocks of data
around every time you do an 'insert'. you are obviously sorting
these data by some criteria. Either add that info to the data's or
keep it as a separate array.

Joe Zawodny

> Joe Means (means@fsl.orst.edu) writes:
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Subject: Re: Insert row in structure
Posted by davidf on Thu, 11 Mar 1999 08:00:00 GMT
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Whoops, I wrote:

> Well, then. How about something like this:
>
> data = {data1,num:0L,x:0.0,y:0.0,z0.0}
> dataout = Replicate(data, 100000L)
>
> Insert new DATA1 structure into position 98 in the array:
>
> newdata = {DATA1}
> dataout = dataout[0:96, newdata, 97:*]

And people who look out for me gently point out that
I meant this:

```
  dataout = [dataout[0:96], newdata, dataout[97:*]]
```

Cheers,

David

--
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Subject: Re: Insert row in structure
Posted by davidf on Thu, 11 Mar 1999 08:00:00 GMT
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Joe Means (means@fsl.orst.edu) writes:

> David, My answers to your questions are inserted in CAPS.
> Joe
>
> David Fanning wrote:
>
>> Joe Means (means@fsl.orst.edu) writes:
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>> I don't think I understand what you are looking for.
>> Is a "row" or "observation" another DATA1 structure? --YES--
>> Or do you want to add another field to each DATA1 structure? --NO--
>>
>> Or does "insert a row" mean to add another DATA1
>> structure into the middle of the dataout array of
>> structures? --YES--

Well, then. How about something like this:

```
  data = {data1,num:0L,x:0.0,y:0.0,z0.0}
```

```
  dataout = Replicate(data, 100000L)
```

Insert new DATA1 structure into position 98 in the array:

```
  newdata = {DATA1}
  dataout = dataout[0:96, newdata, 97:*]
```

Cheers,

David

--
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Subject: Re: Insert row in structure
Posted by Joe Means on Thu, 11 Mar 1999 08:00:00 GMT
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Joe

David Fanning wrote:

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--

From:
Joseph E. Means, Assistant Professor
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Oregon State University 541-750-7351 Fax 541-750-7329
Corvallis, OR 97331 USA www.fsl.orst.edu/~means/means.htm

Subject: Re: Insert row in structure
Posted by David Foster on Fri, 12 Mar 1999 08:00:00 GMT
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Joe Means wrote:
>
> Howdy, I would like an effecient way to insert a row or observation in a
> structure. The structure is simple like:
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> dataout = Replicate(data,100000L)
>
> I will have to insert, and at other times append, rows into dataout.
>
> thanks for any ideas,
> Joe
> --

Joe -

I surely might be missing something, but this problem looks like
it could be solved very effectively by using a linked list of
structures. This would make it very easy to insert or append
nodes, and you could "sort" your nodes by keeping an array of
pointers to the nodes, and just sort the pointers (instead of
the structures, which is inefficient).

Dave
--

~~~~~~ ~~~~~~
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(619) 622-5892 8950 Via La Jolla Drive, Suite 2240
La Jolla, CA 92037
~~~~~~ ~~~~~~