
Subject: what is the upper limit for IDL array?
Posted by [Hu](#) on Thu, 21 May 2009 15:09:42 GMT
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Hi,there

I want to know the upper limit number of a 1-D/2-D array (say, Array),
Is there anybody knows the answer?

I mean, how many elements that I can write into this 1-D/2-D array?

Thanks

Subject: Re: what is the upper limit for IDL array?
Posted by [David Fanning](#) on Thu, 21 May 2009 15:19:52 GMT
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Hu writes:

- > I want to know the upper limit number of a 1-D/2-D array (say, Array),
- > Is there anybody knows the answer?
- >
- > I mean, how many elements that I can write into this 1-D/2-D array?

Do you want this as a number (probably not possible),
or do you want the novella version (probably about the
size of War and Peace by now)?

Cheers,

David

--

David Fanning, Ph.D.
Coyote's Guide to IDL Programming (www.dfanning.com)
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: what is the upper limit for IDL array?
Posted by [Jean H.](#) on Thu, 21 May 2009 15:52:04 GMT
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Hu wrote:

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- >
- > I want to know the upper limit number of a 1-D/2-D array (say, Array),

> Is there anybody knows the answer?
>
> I mean, how many elements that I can write into this 1-D/2-D array?
>
> Thanks

here is an answer from Paolo he sent on this topic a few years ago.
Jean

Jean H. wrote:

> Hi all,
>
> I can't remember this... what is the type of the variable used to
index an array? ... in other words, what is the max number of elements
an array can hold, provided the memory is available? Is there a way to
change that, so I can use, let's say, an unsigned long 64?

In the 32-bits version, signed longs are used.
Thus the max number of elements of a byte array is $(2^{31}-\text{offset})$,
where offset is a small number (around 10).

IDL 64 bit uses signed double precision longs, and the max number
of elements in a byte array is $(2^{63}-\text{offset})$ [here the offset seems
to be around 512].

For other numeric types, divide the above numbers by the size in
bytes of one element.

Ciao,
Paolo

>
> Thanks,
>
> Jean

Subject: Re: what is the upper limit for IDL array?
Posted by [natha](#) on Thu, 21 May 2009 17:32:11 GMT
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On May 21, 11:19 am, David Fanning <n...@dfanning.com> wrote:

> Hu writes:
>> I want to know the upper limit number of a 1-D/2-D array (say, Array),
>> Is there anybody knows the answer?
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>> I mean, how many elements that I can write into this 1-D/2-D array?

>
> Do you want this as a number (probably not possible),
> or do you want the novella version (probably about the
> size of War and Peace by now)?
>

COYOTE'S HUMOR

Subject: Re: what is the upper limit for IDL array?

Posted by [David Fanning](#) on Thu, 21 May 2009 18:03:10 GMT

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nata writes:

> On May 21, 11:19 am, David Fanning <n...@dfanning.com> wrote:
>>> I want to know the upper limit number of a 1-D/2-D array (say, Array),
>>> Is there anybody knows the answer?
>>
>>> I mean, how many elements that I can write into this 1-D/2-D array?
>>
>> Do you want this as a number (probably not possible),
>> or do you want the novella version (probably about the
>> size of War and Peace by now)?
>>
>
> COYOTE'S HUMOR

This was actually a poor translation. When I finally found the Coyote to English dictionary under the pile of dirty tennis clothes, and cleaned the note up for distribution in a public forum, it read more like this:

Do you want this as a number (a bald-faced lie!) or do you want the Coyote version (total gibberish, but the gospel truth)?

Cheers,

David

--

David Fanning, Ph.D.

Coyote's Guide to IDL Programming (www.dfanning.com)

Sepore ma de ni thui. ("Perhaps thou speakest truth.")
