Subject: what is the upper limit for IDL array?
Posted by Hu on Thu, 21 May 2009 15:09:42 GMT
View Forum Message <> Reply to Message

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
View Forum Message <> Reply to Message

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
View Forum Message <> Reply to Message

Hu wrote:
> 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

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-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-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
View Forum Message <> Reply to Message

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?
>
>> 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
View Forum Message <> Reply to Message

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.")

---