Subject: Re: Binary (0s and 1s) output

Posted by David Faming on Tuo, 07 Dec 2004 1

Posted by David Fanning on Tue, 07 Dec 2004 16:20:08 GMT

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josegomez@gmx.net writes:

- > I'm very new to IDL, and I'm trying to convert 5 integers into a series
- > of 40 logical (0/1) values. I have done this in fortran in the past
- > using an internal write, and then converting each element in the output
- > string into a 0 or 1. Given my limited knowledge of IDL, I tried to use
- > print with a format specifier, as follows:
- > IDL> print,format='(2B8.8)',0,255
- > % Unexpected text in format.
- > "(2B8.8)"
- > ^
- > % Execution halted at: \$MAIN\$

>

- > According to my notes, the B format is there and can be used (this is
- > IDL 6.0).

>

- > The other problem is how to convert the (potentially!) resulting test
- > string into an array of integers.

Well, this is new to me, but it seems to work here on IDL 6.1.1 in Windows:

IDL> print,format='(2B8.8)',0,255 000000011111111

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Covote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: Binary (0s and 1s) output

Posted by Benjamin Hornberger on Tue, 07 Dec 2004 16:20:10 GMT

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josegomez@gmx.net wrote:

- > Hi!
- > I'm very new to IDL, and I'm trying to convert 5 integers into a series
- > of 40 logical (0/1) values. I have done this in fortran in the past
- > using an internal write, and then converting each element in the output
- > string into a 0 or 1. Given my limited knowledge of IDL, I tried to use

- > print with a format specifier, as follows: > IDL> print,format='(2B8.8)',0,255 > % Unexpected text in format. > "(2B8.8)" > % Execution halted at: \$MAIN\$ > According to my notes, the B format is there and can be used (this is > IDL 6.0). >
- > The other problem is how to convert the (potentially!) resulting test

> string into an array of integers.

>

> Many thanks

I think the "B" format code was introduces in IDL 6.1.

Benjamin

Subject: Re: Binary (0s and 1s) output Posted by David Fanning on Tue, 07 Dec 2004 16:21:46 GMT View Forum Message <> Reply to Message

David Fanning writes:

- > Well, this is new to me, but it seems to work here
- > on IDL 6.1.1 in Windows:

- > IDL> print,format='(2B8.8)',0,255
- > 0000000011111111

Oh, right. It does cause an error in IDL 6.0. Probably wasn't ready for prime time then. :-(

Cheers.

David

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: Binary (0s and 1s) output

Posted by josegomez on Tue, 07 Dec 2004 17:15:58 GMT

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David Fanning wrote:
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> David Fanning writes:

>

- >> Well, this is new to me, but it seems to work here
- >> on IDL 6.1.1 in Windows:

>>

- >> IDL> print,format='(2B8.8)',0,255
- >> 0000000111111111

>

- > Oh, right. It does cause an error in IDL 6.0. Probably
- > wasn't ready for prime time then. :-(

Hmmmm... That's what I thought. I guess I'll need to do this in 6.1, and I can just then use the READS command to convert to an integer array.

Many thanks for your help, all who replied! Jose

Subject: Re: Binary (0s and 1s) output Posted by marc schellens[1] on Wed, 08 Dec 2004 05:57:24 GMT View Forum Message <> Reply to Message

josegomez@gmx.net wrote:

- > Hi!
- > I'm very new to IDL, and I'm trying to convert 5 integers into a series
- > of 40 logical (0/1) values. I have done this in fortran in the past
- > using an internal write, and then converting each element in the output
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- > % Execution halted at: \$MAIN\$

>

- > According to my notes, the B format is there and can be used (this is
- > IDL 6.0).

>

- > The other problem is how to convert the (potentially!) resulting test
- > string into an array of integers.

I think this printing/reading is quite ugly.

Better do something like: bytln = [your byte value array] nIn = n_elements(bytIn) boolOut = bytarr(8, nln) for bit=0,7 do begin boolOut[bit, *] = (bytIn and 2^bit) gt 0 endfor boolOut[bitnumber, inputIntegerNumber] contains now your result HDH, marc