Subject: Re: Octals
Posted by Jaco van Gorkom on Thu, 11 Oct 2001 14:40:12 GMT

Steve Cole wrote:
> ...
> (I am trying to put a multiplication sign in the title of a plot)

 ... , title = TeXtoIDL('\cdot')
or
 ... , title = TeXtoIDL('\times')

TeXtoIDL can be found at http://physweb.mnstate.edu/mcraig/TeXtoIDL/ .

Cheers,
  Jaco

Subject: Re: Octals
Posted by Martin Downing on Thu, 11 Oct 2001 15:11:29 GMT

Steve,

Lookup the values you want in the charsets, eg "*" is octal 52, which is
written in IDL as '52'OB. To use it in a string use STRING():

```
IDL> print, string('52'Ob)
*
IDL> title = "frequency " + string('52'Ob) + " wavelength"
IDL> print, title
frequency * wavelength
; eg usage in a plot title
IDL> plot, indgen(10), title=title
```


Martin

"Steve Cole" <s.j.cole@ex.ac.uk> wrote in message
news:3BC5A7F1.718B0997@ex.ac.uk...
> Does anybody know how to print a character or symbol by its octal value?
>
> (I am trying to put a multiplication sign in the title of a plot)
>
> Any help would be gratefully recieved.
>
> Thanks
>

> Steve Cole
> University of Exeter
>

Subject: Re: Octals
Posted by Steve Cole on Thu, 11 Oct 2001 15:48:35 GMT

Cheers guys thanks for the help.

Steve

Subject: Re: Octals
Posted by R.Bauer on Thu, 11 Oct 2001 15:59:17 GMT

Martin Downing wrote:
>
> Steve,
>
> Lookup the values you want in the charsets, eg "*" is octal 52, which is
> written in IDL as '52'OB. To use it in a string use STRING():
>
> IDL> print, string('52'Ob)
> *
> IDL> title = "frequency " + string('52'Ob) + " wavelength"

Normaly we should always use ' for strings.

Because " with numbers gives an octal number, e.g.

IDL> print, "10
      8

regards
Reimar

> IDL> print, title
> frequency * wavelength
> ; eg usage in a plot title
> IDL> plot, indgen(10), title=title
>
> Martin
>
> "Steve Cole" <s.j.cole@ex.ac.uk> wrote in message

> news:3BC5A7F1.718B0997@ex.ac.uk...
>> Does anybody know how to print a character or symbol by its octal value?
>>
>> (I am trying to put a multiplication sign in the title of a plot)
>>
>> Any help would be gratefully recieved.
>>
>> Thanks
>>
>> Steve Cole
>> University of Exeter
>>

--
Reimar Bauer

Institut fuer Stratosphaerische Chemie (ICG-1)
Forschungszentrum Juelich
email: R.Bauer@fz-juelich.de
http://www.fz-juelich.de/icg/icg1/
== ======
a IDL library at ForschungsZentrum Juelich
 http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.h tml

http://www.fz-juelich.de/zb/text/publikation/juel3786.html
== ======

read something about linux / windows
http://www.suse.de/de/news/hotnews/MS.html

Subject: Re: Octals
Posted by R.Bauer on Thu, 11 Oct 2001 16:01:11 GMT
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Steve Cole wrote:
>
> Does anybody know how to print a character or symbol by its octal value?
>
> (I am trying to put a multiplication sign in the title of a plot)

I like to understand why do want to print the '*' by it's octal value?

regards
Reimar

>

> Any help would be gratefully recieved.

>

> Thanks

>

> Steve Cole

> University of Exeter

--

Reimar Bauer

Institut fuer Stratosphaerische Chemie (ICG-1)

Forschungszentrum Juelich

email: R.Bauer@fz-juelich.de

http://www.fz-juelich.de/icg/icg1/

== ======

a IDL library at ForschungsZentrum Juelich

 http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.h tml

http://www.fz-juelich.de/zb/text/publikation/juel3786.html

== ======

read something about linux / windows

http://www.suse.de/de/news/hotnews/MS.html

Subject: Re: Octals
Posted by Martin Downing on Thu, 11 Oct 2001 18:37:31 GMT
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"Reimar Bauer" <r.bauer@fz-juelich.de> wrote in message
news:3BC5C1D5.9FB46B1C@fz-juelich.de...
> Martin Downing wrote:
>>
>> IDL> title = "frequency " + string('52'Ob) + " wavelength"
>
> Normaly we should always use ' for strings.
>
> Because " with numbers gives an octal number, e.g.
>
> IDL> print, "10
>   8

Well if anyone reading my code misread "frequency" as an octal number,
then I humbly appollogise!
Your right though, but Im afraid use of double quotes for strings is deep
seated
for me from C/C++. NOw we are on the topic, I've got to say that

interpreting "01 as shorthand for
octal 01 was just a daft overload of the language, it really seems
half-baked, look at these examples for illustration:

IDL> help, "1034
<Expression> INT = 540
; OK....

IDL> help, "1034r
help, "1034r
^
% Syntax error.
; fair enough

IDL> help, "10349673
<Expression> INT = 540
; *&*&*??????
IDL> help, "910349673
<Expression> STRING = '910349673'

IDL LOGIC: "Digits 8 or 9 indicate that the string is indeed a string if
they appear first, if they appear later on then let's just discard them -
surely the programmer didnt want them anyway..."

cheers

Martin

Subject: Re: Octals
Posted by george.mccabe on Thu, 11 Oct 2001 19:48:12 GMT
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steve,

will byte value do? try string(42B) -

IDL> plot,indgen(1),title=string(42B)+" <- steve's muliplication symbol"

george, george.mccabe@gsfc.nasa.gov

Steve Cole <s.j.cole@ex.ac.uk> wrote in message news:<3BC5A7F1.718B0997@ex.ac.uk>...
> Does anybody know how to print a character or symbol by its octal value?
>
> (I am trying to put a multiplication sign in the title of a plot)
>
> Any help would be gratefully recieved.
>

> Thanks
>
> Steve Cole
> University of Exeter

Subject: Re: Octals
Posted by Craig Markwardt on Fri, 12 Oct 2001 05:20:44 GMT

"Martin Downing" <martin.downing@ntlworld.com> writes:

> "Reimar Bauer" <r.bauer@fz-juelich.de> wrote in message
> news:3BC5C1D5.9FB46B1C@fz-juelich.de...
>> Martin Downing wrote:
>>>
>>> IDL> title = "frequency " + string('52'Ob) + " wavelength"
>>
>> Normaly we should always use ' for strings.
>>
>> Because " with numbers gives an octal number, e.g.
>>
>> IDL> print, "10
>>   8
>
>
> Well if anyone reading my code misread "frequency" as an octal number,
> then I humbly appollogise!
> Your right though, but Im afraid use of double quotes for strings is deep
> seated
> for me from C/C++. NOw we are on the topic, I've got to say that
> interpreting "01 as shorthand for
> octal 01 was just a daft overload of the language, it really seems
> half-baked, look at these examples for illustration:
> ... deleted ...

I wholeheartedly agree, the double-quotes-is-octal thing is definitely
a loser. The single-quotes-is-hexadecimal works for me, but somehow I
am pretty used to it. While I am always pretty much aligned with 100%
backwards compatibility, octal constants are one thing that I
definitely feel should be removed (except for the Mac OS X version?).

If you see them in new code, run, don't hide. If you see them in old
code, change them fast! They can be achieved much more reliably with
single quotes.

Craig

--
```
 ------------------------------------------------------------ --------------
```
Craig B. Markwardt, Ph.D.   EMAIL: craigmnet@cow.physics.wisc.edu
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
```
 ------------------------------------------------------------ --------------
```

Subject: Re: Octals
Posted by Steve Cole on Fri, 12 Oct 2001 09:07:31 GMT
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Yes that is great problem is now sorted, thanks very much for your helpful comments.

George McCabe wrote:

> steve,
>
> will byte value do? try string(42B) -
>
> IDL> plot,indgen(1),title=string(42B)+" <- steve's muliplication symbol"
>
> george, george.mccabe@gsfc.nasa.gov
>
> Steve Cole <s.j.cole@ex.ac.uk> wrote in message news:<3BC5A7F1.718B0997@ex.ac.uk>...
>> Does anybody know how to print a character or symbol by its octal value?
>>
>> (I am trying to put a multiplication sign in the title of a plot)
>>
>> Any help would be gratefully recieved.
>>
>> Thanks
>>
>> Steve Cole
>> University of Exeter

Subject: Re: Octals
Posted by Steve Cole on Fri, 12 Oct 2001 09:20:28 GMT
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Well I wanted a 'x' type symbol and didn't realise that it was actually in
the Math and Special font, also I was curious to find out how to print other
symbols by their octal numbers for future reference as I have only just
started using IDL and couldn't find it in the manuals that we have got. Hope
this clears it up for you!!!

Cheers

Steve Cole

Reimar Bauer wrote:

> Steve Cole wrote:
>>
>> Does anybody know how to print a character or symbol by its octal value?
>>
>> (I am trying to put a multiplication sign in the title of a plot)
>
> I like to understand why do want to print the '*' by it's octal value?
>
> regards
> Reimar
>
>>
>> Any help would be gratefully recieved.
>>
>> Thanks
>>
>> Steve Cole
>> University of Exeter
>
> --
> Reimar Bauer
>
> Institut fuer Stratosphaerische Chemie (ICG-1)
> Forschungszentrum Juelich
> email: R.Bauer@fz-juelich.de
> http://www.fz-juelich.de/icg/icg1/
> == ======
> a IDL library at ForschungsZentrum Juelich
> http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.h tml
>
> http://www.fz-juelich.de/zb/text/publikation/juel3786.html
> == ======
>
> read something about linux / windows
> http://www.suse.de/de/news/hotnews/MS.html