
Subject: Re: Convert Integer to Text
Posted by [m.hadfield](#) on Sun, 13 May 2001 22:06:11 GMT
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From: "Emmler, Oliver" <Oliver.Emmler@med.uni-heidelberg.de>

> I want to convert Integer to Text to produce indexed filenames.
> Is there any help ?
>
> Files are like this:
>
> MC023.dcm
> MC024.dcm
> MC025.dcm
>
> I want to set up like: 'MC'+text+'.dcm'

Use formatted output. The "In.n" format descriptor will produce a string n characters wide, padded with zeros.

You can add the prefix and suffix via the "+" operator like this...

```
name = 'MC'+string(index,format='(I3.3)')+'.dcm'
```

or within the format specifier like this...

```
name = string(index,format='("MC",I3.3,".dcm")')
```

Mark Hadfield
m.hadfield@niwa.cri.nz <http://katipo.niwa.cri.nz/~hadfield>
National Institute for Water and Atmospheric Research

--
Posted from clam.niwa.cri.nz [202.36.29.1]
via Mailgate.ORG Server - <http://www.Mailgate.ORG>

Subject: Re: Convert Integer to Text
Posted by [m.hadfield](#) on Sun, 13 May 2001 22:13:46 GMT
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From: ""Mark Hadfield"" <m.hadfield@niwa.cri.nz>

> You can add the prefix and suffix via the "+" operator like this...

```
>
> name = 'MC'+string(index,format='(I3.3)')+'.dcm'
>
> or within the format specifier like this...
>
> name = string(index,format=('"MC",I3.3,".dcm"'))
```

Of course you can also use printf-style format codes (new to IDL 5.4) like this

```
name = string(index,format=('%"MC%3.3d.dcm"'))
```

I suppose there must be somebody out there who actually *uses* this stuff?

Mark Hadfield
m.hadfield@niwa.cri.nz <http://katipo.niwa.cri.nz/~hadfield>
National Institute for Water and Atmospheric Research

--

Posted from clam.niwa.cri.nz [202.36.29.1]
via Mailgate.ORG Server - <http://www.Mailgate.ORG>

Subject: Re: Convert Integer to Text
Posted by [Dan Blair](#) on Mon, 14 May 2001 03:05:58 GMT
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Mark Hadfield wrote:

```
> From: ""Mark Hadfield"" <m.hadfield@niwa.cri.nz>
>
>> You can add the prefix and suffix via the "+" operator like this...
>>
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>>
>> or within the format specifier like this...
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>
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```

>
> ---
> Mark Hadfield
> m.hadfield@niwa.cri.nz <http://katipo.niwa.cri.nz/~hadfield>
> National Institute for Water and Atmospheric Research
>
> --
> Posted from clam.niwa.cri.nz [202.36.29.1]
> via Mailgate.ORG Server - <http://www.Mailgate.ORG>

A freind of mine wrote a nice thing for just this application. It's a function called
padnumstring.pro

here it is

copy all below this line

```
-----  
  
; Pad 0's at the beginning of a string to make it a  
; certain number of characters.  
;  
; Meant only for integers !  
;
```

```
function padnumstring, number, length
```

```
numstring = strcompress(string(number),/r)
```

```
if strlen(numstring) gt length then begin  
  print,'number is too big !'  
  stop  
end
```

```
repeat begin  
  if strlen(numstring) lt length then numstring='0'+numstring  
  endrep until strlen(numstring) eq length
```

```
return, numstring
```

```
end
```

```
-----  
to above this line
```

just copy this and name it what I called it.

to make it work put it in a place where you can read idl files
usage:

to get a string from a two digit integer with 5 digits padded with zeros

```
idl> num = 10
idl> a = padnumstring(num,5)
idl> print,a
    a = 00010
```

Best Dan

--

```
=====
Daniel Blair                                Clark University
Nonlinear Dynamics Lab                    508-793-7707
950 Main Street                           blair@nls1.clarku.edu
Worcester, MA 01610-1477                 http://nls1.clarku.edu/~blair
=====
```

Subject: Re: Convert Integer to Text

Posted by [Martin Schultz](#) on Mon, 14 May 2001 12:24:30 GMT

[View Forum Message](#) <> [Reply to Message](#)

Dan Blair <vze2p88d@verizon.net> writes:

```
> Mark Hadfield wrote:
>
>> From: ""Mark Hadfield"" <m.hadfield@niwa.cri.nz>
>>
>>> You can add the prefix and suffix via the "+" operator like this...
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>>
>> ---
```

```
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> padnumstring.pro
>
> here it is
>
> repeat begin
>   if strlen(numstring) lt length then numstring='0'+numstring
>   endrep until strlen(numstring) eq length
```

Martin

```
--
[[ Dr. Martin Schultz  Max-Planck-Institut fuer Meteorologie  [[
[[ Bundesstr. 55, 20146 Hamburg  [[
[[ phone: +49 40 41173-308  [[
[[ fax: +49 40 41173-298  [[
[[ martin.schultz@dkrz.de  [[
--
```

Subject: Re: Convert Integer to Text
Posted by [Emmler, Oliver](#) on Sat, 26 May 2001 14:15:06 GMT
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Great, thanx to all.

Marks hit works fine.

Special Thanx to Mark

Oliver

"Martin Schultz" <martin.schultz@dkrz.de> schrieb im Newsbeitrag news:ylwiti4uni9.fsf@faxaelven.dkrz.de...

> Dan Blair <vze2p88d@verizon.net> writes:

 $\succ$

>> Mark Hadfield wrote:

```

>>
>>> From: ""Mark Hadfield"" <m.hadfield@niwa.cri.nz>
>>>
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>>> ---
>>> Mark Hadfield
>
>> A freind of mine wrote a nice thing for just this application.
>> It's a function called
>> padnumstring.pro
>>
>> here it is
>> [...]
>> repeat begin
>>   if strlen(numstring) lt length then numstring='0'+numstring
>>   endrep until strlen(numstring) eq length
>
> Not to blame you or your friend, but Mark's solution using the
> format qualifier is far superior and faster, too. You shouldn't use
> a loop in IDL when you can avoid it as easily as here.
>
> Martin
>
>
> --
> [
> [[ Dr. Martin Schultz   Max-Planck-Institut fuer Meteorologie  [[
> [[           Bundesstr. 55, 20146 Hamburg           [[
> [[           phone: +49 40 41173-308           [[
> [[           fax: +49 40 41173-298           [[
> [[ martin.schultz@dkrz.de           [[
> [
  [

```

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