
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 Interger 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

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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>
>
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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

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Dan Blair <vze2p88d@verizon.net> writes:

```
> Mark Hadfield wrote:
>
>> From: ""Mark Hadfield"" <m.hadfield@niwa.cri.nz>
>>
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>> ---
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> repeat begin
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> 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 [[  
[[[
```

Subject: Re: Convert Integer to Text

Posted by [Emmler, Oliver](#) on Sat, 26 May 2001 14:15:06 GMT

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Hash: SHA1

Great, thanx to all.

Marks hit works fine.

Special Thanx to Mark

Oliver

"Martin Schultz" <martin.schultz@dkrz.de> schrieb im Newsbeitrag

news:yIwItj4uni9.fsf@faxaelven.dkrz.de...

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

>

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>
>
> --
> ██████████████████████████████████████████████████████████████
> [[ 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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