
Subject: Re: Integer - decimal help

Posted by [Maarten\[1\]](#) on Tue, 25 Aug 2009 09:28:29 GMT

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

On Aug 25, 11:14 am, Nusret Sevinç <nusretsev...@gmail.com> wrote:

> I don't know how to read the integer and decimal parts of a number
> separately . For example:
>
> I have a number: x=34.75
>
> I would like to read the integer part and decimal part separately:
> a=34, b=75(or .75)

Many possibilities:

; read x as float, and peel parts apart:

```
x = 34.75
```

```
a = floor(x)
```

```
b = x - a
```

; read x as string, and use strsplit:

```
x = '34.75'
```

```
parts = strsplit(x, ".", /extract)
```

```
a = long(parts[0])
```

```
b = long(parts[1])
```

Maarten

Subject: Re: Integer - decimal help

Posted by _____ on Tue, 25 Aug 2009 10:31:12 GMT

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

> On Aug 25, 11:14 am, Nusret Sevinç <nusretsev...@gmail.com> wrote:

>
>> I don't know how to read the integer and decimal parts of a number
>> separately . For example:
>
>> I have a number: x=34.75
>
>> I would like to read the integer part and decimal part separately:
>> a=34, b=75(or .75)
>

Thanks for your answer Marteen. But these solutions didn't work, I think I missed to say that my 'x' number is a float array with size of 1461.

```
> Many possibilities:
>
> ; read x as float, and peel parts apart:
> x = 34.75
> a = floor(x)
> b = x - a
```

When I tried this one, it gives both a and b zero.

```
>
> ; read x as string, and use strsplit:
> x = '34.75'
> parts = strsplit(x, ".", /extract)
> a = long(parts[0])
> b = long(parts[1])
>
> Maarten
```

When I tried to use this one, I changed my float array 'x' into string array, and here is the error I got:

```
IDL> parts=strsplit(nu, ".", /extract)
% Compiled module: STRSPLIT.
% STRTOK: Expression must be a scalar or 1 element array in this
context: STRINGIN.
% Error occurred at: STRSPLIT      32 /usr/local/rsi/idl_6.3/lib/
strsplit.pro
%          $MAIN$
```

Is there any other way for arrays?
Thanks in advance,
Nusret

Subject: Re: Integer - decimal help
Posted by _____ on Tue, 25 Aug 2009 10:37:41 GMT
[View Forum Message](#) <> [Reply to Message](#)

Uh, I see that I made a mistake with my 'for loop'. Now the first solution works. Thank you very much Marteen.

Nusret

Subject: Re: Integer - decimal help

Posted by [Jean H.](#) on Tue, 25 Aug 2009 12:07:00 GMT

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

Nusret Sevinç wrote:

> Uh, I see that I made a mistake with my 'for loop'. Now the first
> solution works. Thank you very much Marteen.

>

> Nusret

You don't need a for loop here:

```
IDL> a = [1.2, 3.4, 5.6]
```

```
IDL> b = floor(a)
```

```
IDL> c = a-b
```

```
IDL> print,b
```

```
      1      3      5
```

```
IDL> print,c
```

```
0.200000  0.400000  0.600000
```

Jean

Subject: Re: Integer - decimal help

Posted by _____ on Tue, 25 Aug 2009 15:24:31 GMT

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

Thanks for your answer Jean, but the for loop I mentioned is a part of my program and I have to use that solution inside the for loop. At my first trial, I used that solution outside the for loop and I got both a and b zero.

Nusret

wrote:

> Nusret Sevinç wrote:

>> Uh, I see that I made a mistake with my 'for loop'. Now the first
>> solution works. Thank you very much Marteen.

>

>> Nusret

>

> You don't need a for loop here:

>

```
> IDL> a = [1.2, 3.4, 5.6]
```

```
> IDL> b = floor(a)
```

```
> IDL> c = a-b
```

```
> IDL> print,b
```

```
>      1      3      5
```

```
> IDL> print,c
>    0.200000  0.400000  0.600000
>
> Jean
```
