

## Auto Multiple Choice - Bug # 516: latex error when processing automultiplechoice.dtx

|                 |                 |                  |        |
|-----------------|-----------------|------------------|--------|
| <b>Status:</b>  | Closed          | <b>Priority:</b> | Normal |
| <b>Author:</b>  | Hiroto Kagotani | <b>Category:</b> |        |
| <b>Created:</b> | 11/27/2017      | <b>Assignee:</b> |        |
| <b>Updated:</b> | 04/09/2018      | <b>Due date:</b> |        |

**Description:** After changeset commit:f540cd2af512, pdflatex stops when processing automultiplechoice.dtx to produce the sty file.

The log is as follows.

<pre>

```
This is pdfTeX, Version 3.14159265-2.6-1.40.16 (Web2C 2015) (preloaded format=pdflatex 2016.10.11) 27 NOV 2017 23:20
```

```
entering extended mode
```

```
restricted \write18 enabled.
```

```
%&-line parsing enabled.
```

```
**automultiplechoice.dtx
```

```
(./automultiplechoice.dtx
```

```
LaTeX2e <2015/01/01> patch level 2
```

```
Babel <3.9l> and hyphenation patterns for 79 languages loaded.
```

```
(/usr/local/share/texmf-dist/tex/latex/base/docstrip.tex
```

```
...
```

```
...
```

```
LaTeX Warning: Reference `s:separate' on page 13 undefined on input line 807.
```

```
\openout9 = `pexa-src.tex'.
```

```
\openout13 = `pexa-sam.tex'.
```

```
(./pexa-src.tex)
```

```
\c@chapter=\count321
```

```
(./pexa-sam.texpdfTeX warning (ext4): destination with the same identifier (name{AMCquestionaff.1}) has been already used, duplicate ignored
```

```
<to be read again>
```

```
\relax
```

```
I.1 \begin{question}{simplesum}
```

```
( FP-EVAL ( FP-UPN ( FP-RANDOM ( FP-DIV ) )
```

```
( FP-MUL ) ( FP-ADD ) ( FP-TRUNC ) ) ) ( FP-EVAL ( FP-UPN ( FP-RANDOM ( FP-DIV
```

```
) ) ( FP-MUL ) ( FP-ADD ) ( FP-TRUNC ) ) ) ( FP-EVAL ( FP-UPN ( FP-ADD )
```

```
( FP-CLIP ) ) ) ( FP-EVAL ( FP-UPN ( FP-ADD ) ( FP-SUB ) ( FP-CLIP ) ) )
```

```
( FP-EVAL ( FP-UPN ( FP-MUL ) ( FP-CLIP ) ) ) ( FP-EVAL ( FP-UPN ( FP-SUB )
```

```
( FP-CLIP ) ) ) ) (./pexa-src.tex) [13]pdfTeX warning (ext4): destination with t
```

```
he same identifier (name{AMCquestionaff.1}) has been already used, duplicate ig
```

```
nored
```

```
<to be read again>
```

```
\relax
```

```
I.887 % }
```

```
} ( FP-EVAL ( FP-UPN ( FP-RANDOM ( FP-DIV ) ) ( FP-MUL ) ( FP-ADD )
```

```
( FP-TRUNC ) ) ) ( FP-EVAL ( FP-UPN ( FP-RANDOM ( FP-DIV ) ) ( FP-MUL )
```

```
( FP-ADD ) ( FP-TRUNC ) ) ) ( FP-EVAL ( FP-UPN ( FP-ADD ) ( FP-DIV ) ) )pdfTeX
```

```
warning (ext4): destination with the same identifier (name{AMCquestionaff.2}) h
```

```
as been already used, duplicate ignored
```

```

<to be read again>
      \relax
I.923 % }
      } ( FP-EVAL ( FP-UPN ( FP-RANDOM ( FP-DIV ) ) ( FP-MUL ) ( FP-ADD )
( FP-TRUNC ) ) ) ( FP-EVAL ( FP-UPN ( FP-POW ) ) )
! Undefined control sequence.
<argument> \LaTeX3 error:
      round() expects between 1 and 2 arguments.

I.923 % }
      }
? x

</pre>

I am using an older TeXLive (2015) distribution, which is the default version in FreeBSD.

Thanks.

```

## History

**11/27/2017 05:18 pm - Alexis Bienvenüe**

- File *round.diff* added

The 3-parameters variant of @round@ must have been defined after your LaTeX version...

Can you try with the attached patch applied?

**11/28/2017 04:03 am - Hiroto Kagotani**

Thank you.

Using the patch, build and install processes finished successfully.

But, the following test fails:

```

<pre>
.../tests/ # t/tex_arithm/test.pl
[>] Installed in /tmp/JCTSp3ZY9Z
[E] latex error: ! Undefined control sequence.
</pre>

```

```

<pre>
.../tex_arithm/ # pdflatex arithm.tex
...
...
SECTION(Significant::base10)
! Undefined control sequence.
<argument> \char_generate:nn
      {e}{12}
I.12 \test{1.2345}{2}{12}

? x
</pre>

```

**11/28/2017 09:32 am - Alexis Bienvenüe**

Can you try replacing @\char\_generate:nn { `e } { 12 }@ with @\catcode`e=12 e@ in @automultiplechoice.dtx.in@? Line 3416 becomes

```
<pre>
\tl_replace_once:Nxn \amc_ee_tl { \catcode`e=12 e } { e }
</pre>
```

**11/28/2017 10:25 am - Hiroto Kagotani**

I get the following message by the replacement, although pdflatex itself finished successfully.

```
<pre>
/tests # t/tex_arithm/test.pl
[>] Installed in /tmp/lXxnYOd_4w
[E] Significant::base10 [2] : '0' should be '34'
</pre>
```

**11/28/2017 10:36 am - Hiroto Kagotani**

The following is displayed by pdflatex.

```
<pre>
SECTION(Significant::base10)
```

TEST(12,12)

TEST(0,34)

TEST(10789.5,11)

TEST(-256785.6,-257)

TEST(0,6)

TEST(-0,-6)

TEST(0,8)

TEST(-0,-8)

TEST(10,10)

TEST(-1,-1)

TEST(0,0)

```
</pre>
```

**02/06/2018 09:14 pm - Alexis Bienvenüe**

- Status changed from New to Feedback

- File *catcode.diff* added

- File *automultiplechoice.dtx* added

- File *automultiplechoice.sty* added

Can you give a try to the following patch, to be applied on commit:9592fa9f3258 for example?  
Also attached is the resulting DTX and STY files.

**04/06/2018 07:21 am - Hiroto Kagotani**

Thank you very much. This patch completely works with commit:9592fa9f3258.

Now, when I try commit:7cf54b35be4c, I get another error:

```
<pre>  
! Undefined control sequence.  
l.2147 \sys_if_engine luatex:TF  
</pre>
```

Thanks a lot.

**04/06/2018 07:32 am - Hiroto Kagotani**

Sorry, I found the repository was moved to GitLab.com and \sys\_if\_engine luatex:TF was removed.

I'll test it later.

Thanks.

**04/09/2018 06:31 am - Hiroto Kagotani**

The latest commit git:c96ff32 works completely. (I don't know how to refer to a gitlab commit)

Thank you very much!

**04/09/2018 08:01 am - Alexis Bienvenüe**

Good. Thanks for testing!

> (I don't know how to refer to a gitlab commit)  
just type @git:c96ff32@ and the link will appear.

**04/09/2018 08:03 am - Alexis Bienvenüe**

- *Status changed from Feedback to Closed*

- *% Done changed from 0 to 100*

## Files

---

|                        |          |            |                  |
|------------------------|----------|------------|------------------|
| round.diff             | 1.3 kB   | 11/27/2017 | Alexis Bienvenüe |
| catcode.diff           | 1.2 kB   | 02/06/2018 | Alexis Bienvenüe |
| automultiplechoice.dtx | 174.9 kB | 02/06/2018 | Alexis Bienvenüe |
| automultiplechoice.sty | 74.1 kB  | 02/06/2018 | Alexis Bienvenüe |