

Re: Is this script safe?

Source: <http://coding.derkeiler.com/Archive/Perl/perl.beginners/2005-10/msg00720.html>

- *From:* dermot@xxxxxxxxxxxxxxxxxx (Dermot Paikkos)
 - *Date:* Fri, 28 Oct 2005 16:10:29 +0100
-

On 28 Oct 2005 at 10:05, Jay Savage wrote:

```
> On 10/27/05, John W. Krahn <krahnj@xxxxxxxx> wrote:
>> Dermot Paikkos wrote:
>>> Hi,
>>>
>>> I wanted a script that would rename files from lower to upper case. I
>>> have something but I am a bit worried about going live with it as I
>>> can imagine there is plenty of room for error and I really don't want
>>> to knacker my filesystem.
>>>
>>> Could I get any comments of suggestion on what I have. I want
>>> something safe/secure.
>>>
>>> I am not sure about what would happen if it was passed more than one
>>> argument. Should I allow more than one argument?
>>>
>>> Are the any gotcha's to watch out for?
>>> Thanx,
>>> Dp.
>>>
>>>
>>> ===== upper.pl=====
>>>
>>> #!/usr/bin/perl -Tw
>>> # upper.pl
>>>
>>> # Upper case all lowercase file in a given directory.
>>>
>>>
>>> use File::Copy;
>>> use strict;
>>>
>>> my $dir = shift;
>>> my $found = 0;
>>>
>>> opendir(DIR,$dir) or die "Can't open $dir: $!\n";
>>> foreach my $name (sort grep !/^\./, readdir DIR) { # Credit Randal L.
>>> Schwartz
```

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```
>>> if ($name =~ /[a-z]/) { # Look for lc file. Wot about
>>> files
>>> # with numbers??
>>>
>>> ++$found;
>>> if ($dir !~ /\$/ ) { # Add a slash if there is'nt
>>> one
>>> $dir = "$dir"."./";
>>> }
>>> (my $new = $name) =~ tr/[a-z]/[A-Z]/; # trans the
>>> name
>>> $name = "$dir"."$name";
>>> $new = "$dir"."$new";
>>> #mv("$name","$new") or die "Can't upper $name: $!\n";
>>> print "$name -> $new\n";
>>> }
>>> }
>>> print "Found $found lowercase files\n"
>>
>> You probably want something like this:
>>
>> opendir DIR $dir or die "Can't open $dir: $!\n";
>>
>> for my $name ( readdir DIR ) {
>> my $new = uc $name;
>> next if $new eq $name;
>> next if -e "$dir/$new";
>> mv "$dir/$name", "$dir/$new" or die "Can't rename $dir/$name: $!\n";
>> ++$found;
>> }
>>
>
> First things first: apparently my fingers didn't want to work
> yesterday. The loop invocation I really meant to write was:
>
> foreach my $name (grep {/^[^.]([a-z]+.*)$/, $_ = $1} readdir(DIR)) {
>
> But John's response has me wondering about that, since he usually
> picks up on the little things. The OP is setting the -T switch.
> readdir() returns tainted data, and rename()—and so I assume
> File::Copy::mv—won't accept tainted data and fails with "insecure
> dependencies" if passed files directly from readdir(). But none of the
> advice here has untainted $name. Is there some magic in uc() that I
> don't know about? Or is there something else I'm missing?
```

Thanx jay,

I wasn't sure if it was me getting it wrong but what I am got with

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```
foreach my $name (grep {/^[^.]([a-z+].*)$/ , $_ = $1 } readdir (DIR)
)
```

was:

....snip

```
/usr/local/spl/ -> /usr/local/spl/
```

```
/usr/local/spl/ -> /usr/local/spl/
```

```
/usr/local/spl/ -> /usr/local/spl/
```

```
/usr/local/spl/ -> /usr/local/spl/
```

Found 39 lowercase files

/usr/local/spl is a dir, not a file, so I've really broken something.

Yes the T switch was giving me errors in the scripts former state. I can't run it now as I can't see what the files are...perhaps I should test it to see!

I have never used the taint switch before and it doesn't seem listed in the pragmas. Is there somewhere I can get some additional info about it?

Incidentally mv doesn't work, its move.

Should I throw out any additional arguments?

===== Here what I have now =====

```
#!/usr/bin/perl -Tw
```

```
# upper.pl
```

```
# Upper case all lowercase file in a given directory.
```

```
use File::Copy;
```

```
use strict;
```

```
my $dir = shift;
```

```
my $found = 0;
```

```
opendir(DIR,$dir) or die "Can't open $dir: $!\n";
```

```
if ($dir !~ /\$/ ) { # Add a slash if there isn't one
```

```
$dir = "$dir"."/";
```

```
}
```

```
# foreach my $name (grep {/^[^.]([a-z+].*)$/ , $_ = $1 } readdir (DIR) ) {
```

```
foreach my $name (grep {/^[^.]([a-z+].*)$/ , $_ = $1 } readdir(DIR)) {
```

```
$name = uc($1);
```

```
++$found;
```

```
(my $new = $name) =~ tr/[a-z]/[A-Z]/; # trans the name
```

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```
$name = "$dir"."$name";  
$new = "$dir"."$new";  
if (-w $new) {  
#move("$name","$new") or die "Can't upper $name: $!\n";  
}  
else {  
print "$name isn't writable\n";  
}  
print "$name -> $new\n";  
}  
print "Found $found lowercase files\n";
```

• **References:**

◆ **Re: Is this script safe?**

◇ *From:* John W. Krahn

- Prev by Date: **Re: How to put brackets in a string given substrings**
- Next by Date: **How to write a nested if-statement**
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