

# Table of Contents

**Calculate in bash** ..... 3



# Calculate in bash

- If you want to calculate with an integer it's possible without using other programs.
- For example  $34+23=57$

```
COUNT1="34"  
COUNT2="23"  
echo $[COUNT1 + COUNT2]
```

- If you want to move the decimal point one digit to the left than you will have to use modulo.
- For example  $34/10=3.4$

```
COUNT1="34"  
COUNT2="10"  
echo "$[COUNT1 / COUNT2].${COUNT1 % COUNT2}"
```

- To calculate with float or more complex thing use "bc"

```
echo "2.5 + 3.2" | bc -l  
5.7
```

- If you want to cut digits after the decimal point you can use scale (It's **no** rounding like you see in the example)

```
echo "scale = 4; 2.5 / 1.9 " | bc -l  
1.3157  
echo "scale = 2; 2.5 / 1.9 " | bc -l  
1.31
```

- The remaining Problem is:

```
echo "scale = 2; 2.5 / 3.1 " | bc -l  
.8064
```

- The leading zero is lost
- You can search and replace using "sed"

```
echo "scale = 3; 2.5 / 3.1 " | bc -l | sed -r 's/^\./0./g'  
0.806
```

From:  
<https://www.eandalx.org/> - EanderAlx.org

Permanent link:  
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Last update: **23.03.2013 18:24**

