

NAME

bgcnv – blood glucose converter

SYNOPSIS

bgcnv [-q] [-p *precision*] [--] *value*

DESCRIPTION

Bgcnv converts the specified blood glucose *value* into its mmol/L or mg/dL approximate equivalent and writes them to the standard output as follows. If *value* is a decimal (base-10) double, convert it from mmol/L to mg/dL. If *value* is a decimal (base-10) long, convert it from mg/dL to mmol/L. **Bgcnv** writes *value* and its approximate equivalent conversion with the mmol/L and mg/dL units.

The default precision (the number of digits after the decimal point) for mmol/L blood glucose values is 1.

The options are as follows:

- q Causes **bgcnv** to be quiet. It writes the specified blood glucose *value* and its approximate equivalent conversion to the standard output without the mmol/L and mg/dL units.
- p *precision* Causes mmol/L blood glucose values to be written with the specified decimal *precision* instead of the default of 1. It may be a value between 2 and 9, inclusive.
- Causes **bgcnv** to stop further option processing, forcing it to treat the following argument as *value*.

EXIT STATUS

The **bgcnv** command exits with one of the following values:

- 0 The conversion was successful.
- 1 An error was detected.

EXAMPLES

The following **bgcnv** invocations write to the standard output in the standard output format.

```
% bgcnv -p3 100 ; bgcnv -p3 5.556
100 mg/dL (~ 5.556 mmol/L)
5.556 mmol/L (~ 100 mg/dL)
```

```
% bgcnv -p2 100 ; bgcnv -p2 5.56
100 mg/dL (~ 5.56 mmol/L)
5.56 mmol/L (~ 100 mg/dL)
```

```
% bgcnv 100 ; bgcnv 5.6
100 mg/dL (~ 5.6 mmol/L)
5.6 mmol/L (~ 100 mg/dL)
```

The following **bgcnv** invocations write to the standard output in the quiet output format.

```
% bgcnv -qp3 100 ; bgcnv -qp3 5.556
100 (~ 5.556)
5.556 (~ 100)
```

```
% bgcnv -qp2 100 ; bgcnv -qp2 5.56
100 (~ 5.56)
5.56 (~ 100)
```

```
% bgcnv -q 100 ; bgcnv -q 5.6
100 (~ 5.6)
5.6 (~ 100)
```

SEE ALSO

strtod(3), strtol(3)

Bgcnv home page: <http://bgcnv.betespora.org/>

AUTHOR

This implementation of **bgcnv** is written by Jeffrey Allen Neitzel.

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