

# Package: go2bigq (via r-universe)

September 7, 2024

**Type** Package

**Title** Convert Large Numbers to Bigq Format

**Version** 2.0.1

**Date** 2023-08-28

**Description** This function converts mfpr, numeric, or character strings representing numbers to bigq format without loss of precision.

**License** LGPL-3

**Imports** Rmpfr, gmp, methods

**NeedsCompilation** no

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**Repository** CRAN

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go2bigq-package	<i>Convert Large Numbers to Bigq Format</i>
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## Description

This function converts mfpr, numeric, or character strings representing numbers to bigq format without loss of precision.

**Details**

Package: go2bigq  
 Type: Package  
 Version: 2.0  
 Date: 2022-06-02  
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**Author(s)**

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 go2bigq

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*Function to convert various numerics to bigq with full precision.*


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**Description**

Convert a numeric, a character string representing a numeric, or various mpfr classes to a bigq fraction. The output has the same precision as the input.

**Usage**

```
go2bigq(x, ...)
```

**Arguments**

`x` A value of class numeric, mpfr, mpfr1, or character. A list containing any one of these classes is allowed. See Details for various limitations

`...` Parameters which could be used to modify the default behavior of formatMpfr. See Details for more information.

**Details**

The input `x`, if a list, must contain only one of the allowed classes. Character strings which represent numbers must be of the form `[+,-]X[.]Y[e,E[+,-]Z]`, where X, Y, and Z are strictly limited to the numerals `[0:9]`. None of the other character options listed are required (except of course `"[+,-]Z"` is disallowed unless `"[e,E]"` exists.) The function `formatMpfr` accepts several arguments to adjust the output character string (number of digits precision, e.g.). `go2bigq` passes the `...` objects to `formatMpfr`.

**Value**

A bigq object containing a vector of bigq fractions .

**Author(s)**

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**See Also**

[.bigq2mpfr](#), [.bigz2mpfr](#), [as.bigq](#)

**Examples**

```
library(Rmpfr)
(go2bigq(0.17 + 1:5))
(go2bigq(as.character(0.17 + 1:5)))
(go2bigq(mpfr(0.17 + 1:5, 100)))
as.numeric(go2bigq('017.3200e-10')[1] - go2bigq(0017.3200e-10)[1])
```

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