

# record BigDecimal

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## Unit

[bigdecimalmath](#)

## Declaration

```
type BigDecimal = record
```

## Description

Big Decimal type

Consisting of an bcd integer times a decimal [exponent](#) ([integer [digits](#)] \* 10 ^ ([DIGITS\\_PER\\_ELEMENT](#) \* [exponent](#)))  
It can be used like a normal floating point number. E.g:

```
var bd: BigDecimal;  
bd := 12.34;  
bd := bd * 1000 - 42; // bd = 12298  
bd := bd / 7.0;      // bd = 1756.85714285714286  
bd := StrToBigDecimal('123456789012345678901234567890123456789') + 1;  
// bd = 123456789012345678901234567890123456790
```

It has an arbitrary precision (up to 18 billion [digits](#)), and can be converted to a decimal string without loss of precision, since it stores decimal [digits](#) (up to 9 [digits](#) / array element, depending on compiler define).

## Overview

### Fields

```
digits: array of BigDecimalBin;  
exponent: integer;  
signed: ByteBool;  
lastDigitHidden: ByteBool;
```

## Description

### Fields

```
digits: array of BigDecimalBin;
```

**exponent:** integer;

**signed:** ByteBool;

**lastDigitHidden:** ByteBool;

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