# Base Language - Bug #5613

## 4GL built-in functions throw IllegalArgumentException

08/20/2021 10:50 AM - Greg Shah

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|---|---|---|---|---|
| **Status:** | New | | **Start date:** | |
| **Priority:** | Normal | | **Due date:** | |
| **Assignee:** | | | **% Done:** | 0% |
| **Category:** | | | **Estimated time:** | 0.00 hour |
| **Target version:** | | | | |
| **billable:** | No | | **case_num:** | |
| **vendor_id:** | GCD | | **version:** | |
| **Description** | | | | |
| | | | | |

## History

**#1 - 08/20/2021 10:50 AM - Greg Shah**

From Igor:

> Some Java counterparts of 4GL functions which are called directly from the converted code can throw IllegalArgumentException. In particular, this results in broken NO-ERROR clause support. For example, Functions.toString(Date value, String fmt) (4GL DATE counterparts) calls date.toString(String fmt) which can throw IllegalArgumentException.

**#3 - 08/20/2021 10:52 AM - Greg Shah**

Igor: Let's avoid using the term "UDF" here since that is specific to database WHERE clause execution.  The problem here is with the STRING() 4GL built-in function.  Please show a testcase that recreates the problem.

**#4 - 08/20/2021 11:32 AM - Igor Skornyakov**

Greg Shah wrote:

> Igor: Let's avoid using the term "UDF" here since that is specific to database WHERE clause execution.  The problem here is with the STRING() 4GL built-in function.  Please show a testcase that recreates the problem.

For example 4GL  DATETIME(NOW, " t").

The corresponding code in the datatime.toString(String fmt):

```
    if (datePartFormat.isEmpty() || timePartFormat.isEmpty())
    {
      throw new IllegalArgumentException("Invalid datetime format: " + saveFmt);
    }
```

**#5 - 08/20/2021 12:07 PM - Greg Shah**

*- Subject changed from STRING() throws IllegalArgumentException to 4GL built-in functions throw IllegalArgumentException*


Please make a list of all of the cases you have found.  It is OK to just list the names of the 4GL programs in the testcases project which are affected.