# Tech Info Library

## DAL: Floating Point Result from Division of Two Integers

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TOPIC -------------------------------------------------------------

This article tells how to get a floating point number from the division of
two integers.

DISCUSSION --------------------------------------------------------

If you simply divide two integers, you get an integer as the result.  The
following sample shows how to attain a float result.  This is the correct
format to force decimal places in the number resulting from the division of
two integers.  Page 47 of the Programmer's Reference lists all the data
types that you can use in this kind of conversion.

This example was done in DB2, but this has been tested against Rdb on the
VAX also.

```
1: Connected to host 'vtami'.
1: Execution begins...
1:  The Host is DAL version 1.3 !
1: Execution completed successfully.

1: begin> op;
1: more>  go
1: Execution begins...
1: Execution completed successfully.

1: begin> describe columns of cl1.orders; printall;
1: more>  go
1: Execution begins...
1:  1 1 ORDER_NR 3 4 0 $TRUE $FALSE 0 0 0 $TRUE
1:  2 1 ORD_DATE 9 8 0 $TRUE $FALSE 0 0 0 $TRUE
1:  3 1 CUST_NR 3 4 0 $TRUE $FALSE 0 0 0 $TRUE
1:  4 1 ORD_AMOUNT 10 6 2 $TRUE $FALSE 0 0 0 $TRUE
1:  5 1 REQ_DATE 9 8 0 $TRUE $FALSE 0 0 0 $TRUE
1:  6 1 SALESREP 2 2 0 $TRUE $FALSE 0 0 0 $TRUE
1:  7 1 OFFICE 2 2 0 $TRUE $FALSE 0 0 0 $TRUE
```

```
1:   8 1 COMMENTS 9 30 0 $TRUE $FALSE 0 0 0 $TRUE
1:   9 1 TERMS 9 6 0 $TRUE $FALSE 0 0 0 $TRUE
1: Execution completed successfully.
```

This is the part that is really important -- see the "print..." line

```
1: begin> select order_nr, cust_nr from cl1.orders into x;
1: more>  fetch next of x;
1: more>  print x->1, x->2, float x->1 / x->2;
1: more>  go
1: Execution begins...
1:  7485943 5050 1482.364950495049
1: Execution completed successfully.
```
(The resulting line is order_nr, cust_nr and the result of the division.)

Keywords:  <None>


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