tabcalc

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Abstract

Perform arbitrary math with columns in a table. Part of the dscalc package.

1 Instruments/Modes

Instrument	Mode
n/a	n/a

2 Use

pipeline processing	no (?)
interactive analysis	yes

3 Description

tabcalc performs arbitrary calculations on table columns.

tabcalc makes use of **selectlib** to perform arbitrary math on table columns. Any operation supported by **selectlib** is allowed. The name and type of the result column can be specified on the command line. If the result column exists, it will be overwritten.

3.1 Examples

- `tabcalc --tables=set.ds:table --expression="time + 43" --column=time43`

  Create the column `time43` by adding row by row 43 to the values read from the column `time` in the table `table` in the dataset `set.ds`.

- `tabcalc --tables=set.ds:table --expression="time + 43" --column=time43 --columnunit=s --columnlabel="corrected time"`

  As above, but now the unit and comment fields of the result column `time43` are set.

4 Parameters

This section documents the parameters recognized by this task (if any).

Parameter	Mand	Type	Default	Constraints
tables	yes	T		

List of tables to operate on (fully qualified names).

expression	no	s	TRUE	

An arbitrary math expression involving any number of columns present in the table.

columntype	no	s	real64	int8|int16|uint16|int32|uint32|real32|real64

Type of the result column.

column	no	s	RESULT	

Name of the column holding the result. It may be an existing column.

columnunit	no	s	unit	

Unit of the result column.

columnlabel	no	s	label	

Label of the result column.

5 Errors

This section documents warnings and errors generated by this task (if any). Note that warnings and errors can also be generated in the SAS infrastructure libraries, in which case they would not be documented here. Refer to the index of all errors and warnings available in the HTML version of the SAS documentation.

6 Input Files

1. Any data set that can be read by the **dal**.

7 Output Files

1. The input data set, modified as required.

8 Algorithm

```
read expression
foreach table
  open table
  call selectlib with table and expression
  close table
end foreach
```

9 Comments

10 Future developments

References