**ABAP routine in transformation**

**Как отлаживать ABAP в трансформациях**

<https://epotseluev.com/abap/howto-debug-abap-in-transformations/>

### **SAP ABAP функции для работы с датой и временем**

<http://razumsap.blogspot.com/2014/03/sap-abap.html>

# 10 Must Know SAP ABAP Character String Coding Techniques

<https://www.saptraininghq.com/10-must-know-sap-abap-character-string-coding-techniques/>

# Difference Between 0CALDAY vs 0Date

<https://answers.sap.com/questions/4846032/difference-between-0calday-vs-0date.html>

− 0CALDAY is a time characteristic, while 0DATE is marked as a simple (non-time) characteristic, of type DATS ⇒ you can include 0CALDAY in the time dimension but cannot do that for 0DATE. If you try it, it will throw an error saying "invalid type for context"

You can use either of them to model a report to see current day's data. You will need to restrict the infoobject as per 0DAT, which is the SAP exit for current day.

− *0CALDAY references 0DATE* - *you can’t use 0CALDAY as attribute* /but you can use 0DATE/.

In terms of modelling 0CALDAY is better because its by default available in the "Time" Dimension if the cube.

# ABAP - Converting a date datatype and vice versa

# <https://blogs.sap.com/2018/06/24/abap-converting-a-date-datatype-and-vice-versa/>

– **The 1st example** shows how to convert an internal date (i.e. sy-datum *21.06.2018*) to an external variable  i.e. a char *‘21.06.2018’*

DATA date\_ext TYPE char10.

CALL FUNCTION *'CONVERT\_DATE\_TO\_EXTERNAL'*

EXPORTING date\_internal = sy-datum

IMPORTING date\_external = date\_ext

EXCEPTIONS

date\_internal\_is\_invalid = 1

OTHERS = 2.

IF sy-subrc <> 0.

*\* Implement suitable error handling here*

ENDIF.

– **The 2nd example** shows how to convert an external date format (like a character *‘21.06.2018’*) to an internal date format *21062018*

DATA date\_int TYPE d.

CALL FUNCTION *'DATE\_CONV\_EXT\_TO\_INT'*

EXPORTING i\_date\_ext = '21.06.2018'

IMPORTING e\_date\_int = date\_int

EXCEPTIONS

error = 1

OTHERS = 2.

IF sy-subrc <> 0.

*\* Implement suitable error handling here*

ENDIF.

– **The 3rd example** shows how you can convert a SAP date datatype *21.06.2018* to a character on your own - *‘21062018’* without the help of an function module

DATA: date(10),

new\_date TYPE char10,

day(2),

month(2),

year(4).

WRITE sy-datum TO date.

day(2) = date(2).

month(2) = date+3(2).

year(4) = date+6(4).

new\_date = |{ day }| && |{ month }| && |{ year }|.