

How to debug a background job (BJOB)



In the work of a SAP Consultant comes time when you need to debug a program in the background mode or a running BJob.

There is a simple trick how to do this:

1. Set a breakpoint in ABAP report / FM that you want to debug.

The screenshot shows the SAP Function Builder interface for the function module 'SD_SCHEDULING'. The 'Source code' tab is active. The code is displayed in a list format with line numbers on the left. Line 396, which contains the statement 'PERFORM route_schedule_determine', is highlighted in red, indicating that a breakpoint has been set at this location. The code includes comments and parameter declarations for 'activity parameters' and 'other parameters'.

```
394
395 * APPL0G 60 Routenfahrplan-Terminierung beginnt (Parameter siehe Detail)
396 PERFORM route_schedule_determine
397 USING
398 * activity parameters
399     lf_rs_shippoint_sw          if_rs_document_sw
400     if_schedule_shipping       if_schedule_transport
401 * other parameters
402     gf_schedule_direction     ls_scheddu
403     if_shipping_point         if_shipping_conditions
404     if_transport_route        if_transport_group
405     ls_kuwebsched             if_delivery_time
406     if_delivery_date          if_delivery_time
407 CHANGING
408     ls_schedev                ef_route_schedule.
```

2. Create a background JOB in SM36 transaction or use any other available methods. Set a future time for start (enough +10 min).

Program Edit Goto System Help

Execute F8
Execute and Print Ctrl+P
Execute in Background F9
Exit Shift+F3

Material [] to []
Plant [] to []

Options

- Process sales documents
- Process stock transfer docs
 - At item level
 - At schedule line level
- Unconfirmed documents required
- Simulation

Sort order

	Priority	
Document category	1	
<input type="checkbox"/> Prioritize sales documents		<input checked="" type="radio"/>
<input type="checkbox"/> Prioritize stock transfer documents		<input type="radio"/>
Delivery priority	2	
Date	3	
<input type="checkbox"/> Sort item by date of creation		<input checked="" type="radio"/>
<input type="checkbox"/> Sort by delivery date of earliest schedule line		<input type="radio"/>
Document number	4	
Document item	5	

Rescheduling sales and stock transfer documents: by material



OE1(2)/100 Background Print Parameters

Output Device:

Number of Copies:

Page Area

Everything

Page to

Properties

Print Time:

Properties

Sort order

	Priority	
Document category	1	
<input type="checkbox"/> Prioritize sales documents		<input checked="" type="radio"/>
<input type="checkbox"/> Prioritize stock transfer documents		<input type="radio"/>
Delivery priority	2	
Date	3	
<input type="checkbox"/> Sort item by date of creation		<input checked="" type="radio"/>
<input type="checkbox"/> Sort by delivery date of earliest schedule line		<input type="radio"/>
Document number	4	
Document item	5	

Rescheduling sales and stock transfer documents: by material



OE1(2)/100 Start Time ✕

Immediate

Date/Time

After Job

After Event

Operation Mode



Date/Time

After Job

Operation Mode

After Event

Check



Document number 4

Document item 5

Rescheduling sales and stock transfer documents: by material

OE1(2)/100 Start Time

Immediate Date/Time After Job After Event Operation Mode →

Date/Time



Scheduled Start	Date	22.01.2021	Time	17:50:00
No Start After	Date		Time	

After Job

Operation Mode

After Event

Periodic Job

Check  

Document number: []
Document item: 5

3. In SM37 transaction, put the cursor on the job line, type 'JDBG' in the command line (no '/') and press enter.

JDBG

Job Overview

Refresh Release Spool Job log Step Job details Application servers

Job overview from: 22.01.2021 at: : :
to: 22.01.2021 at: : :

Selected job names: *

Selected user names: *

Scheduled Released Ready Active Finished Canceled

Event-Driven Event ID: *

ABAP program Program name : SDV03V02

JobName	Sp	Job CreatedB	Status	Executing server	Start date	Start Time	End time	Duration(sec.)	Sched. start date	Sched. start time
✓ SDV03V02			Released					0	22.01.2021	17:50:00
*Summary								0		

4. The JOB will start in debug mode.

