



HORIZONT

SmartJCL – Training

About this Presentation

This PowerPoint is a basis course for SmartJCL. The course should be go through for the first time in a sequential order. This will help you to understand and get to know SmartJCL. But the easiest way to learn SmartJCL is to use it as often as possible.

At some slides this button can be used to jump to specific slides in this presentation.

e.g. jump to slide Agenda

Click on this symbol to jump to the overview slide

AGENDA

SmartJCL – Training

Introduction

Check JCL in editor

Simulate Scheduling variables in Editor

Tips for Edit Macro

Check JCL with ISPF-Dialog/Batch

Simulate Scheduling variables with ISPF-Dialog/Batch

Miscellaneous to TWS variables

Introduction

- SmartJCL is an JCL checker
- JCL checker's function is to find errors in JCL before using it in production environment
- This requires following properties:
 - Single jobs must be checked with creation
 - Direct with changing in ISPF-Editor
 - After changing through
 - ISPF-Dialog
 - Batch-Mode

Introduction

- Required properties:
 - Whole job chains or in best case the entire production process must be checked
 - A high processing speed is necessary
 - Simulation of catalog actions would be desirable
 - Variables of scheduling systems must be considered or resolved
 - The TWS/SimJCL component integrated in SmartJCL exists for TWS z/OS
 - It would be favourable to check future production processes in advance

Default commands

- In this presentation default call commands are used. Commands in your company may be named different.
- Default commands by EDIT-Macro are:
 - JCK: check JCL
 - OSJ: simulate TWS variables
 - OSJ JCK: simulate TWS variables and check resolved JCL

Default REXX

- In this presentation default call REXX are used. Commands in your company could be called different or are integrated in ISPF.
- The REXX in file HLQ.SMARTJCL.CLIST to start ISPF dialog is:
 - JCKX: SmartJCL ISPF dialog

Call variants

- SmartJCL can be used in following ways:
 - EDIT-Mode
 - check job
 - simulate job
 - simulate and check job
 - ISPF-Dialog or Batch job
 - check many jobs
 - simulate many jobs
 - simulate and check many jobs

Check JCL in Editor

- You edit JCL and want to check it
- Following variants are possible:
 - Check edited JCL
 - check
 - simulate
 - simulate and check
 - JCL from Joblib
 - check
 - simulate
 - simulate and check

Check JCL

Different Examples

Sample catalog simulation

Example check IDCAMS statements

Check JCL in Editor

You edit your JCL ...

```
EDIT          DATA.JCL.HUK.JOBLIB(SMARTJ01) - 01.01          Columns 00001 00072
Command ==> _____ Scroll ==> CSR
***** ***** Top of Data *****
000001 //XJRJSMF0 JOB (ACCOUNT),'HORIZONT',MSGCLASS=T,CLASS=A,
000002 //  NOTIFY=&SYSUID
000003 //LIBS JCLLIB ORDER=(P390A.XXR.DEV.V2R3.PROCLIB)
000004 //* HORIZONT (ORIGINAL) JOB NAME: XJRJSMF0
000005 //*****
000006 //* THIS JOB RECREATES THE SMF DATA SETS USED BY JOB XJRJSMF
000007 //*****
000008 //* DELETE REMAINING TEMPORARY DATA SETS
000009 //*****
000010 //DELETE EXEC XJRJUNC
000011 //SYSIN DD *
000012 DEL P390A.XXR.DEV.V2R3.DATA.SMFRT SCRATCH
000013 DEL P390A.XXR.DEV.V2R3.DATA.SMFDU SCRATCH
000014 SET MAXCC = 0
000015 //*****
000016 //* ALLOC FILES AND INITIALISE THEM
000017 //*****
000018 //ALLOC1 EXEC PGM=IEBGENER
000019 //SYSPRINT DD SYSOUT=*
000020 //SYSIN DD DUMMY
000021 //SYSUT1 DD DUMMY,BLKSIZE=213,
000022 // DCB=(DSORG=PS,RECFM=FB,LRECL=213)
000023 //SYSUT2 DD DSN=P390A.XXR.DEV.V2R3.DATA.SMFRT,
000024 // DISP=(,CATLG),
000025 // SPACE=(TRK,(20,20),RLSE),
000026 // DCB=(DSORG=PS,RECFM=FB,LRECL=213)
```

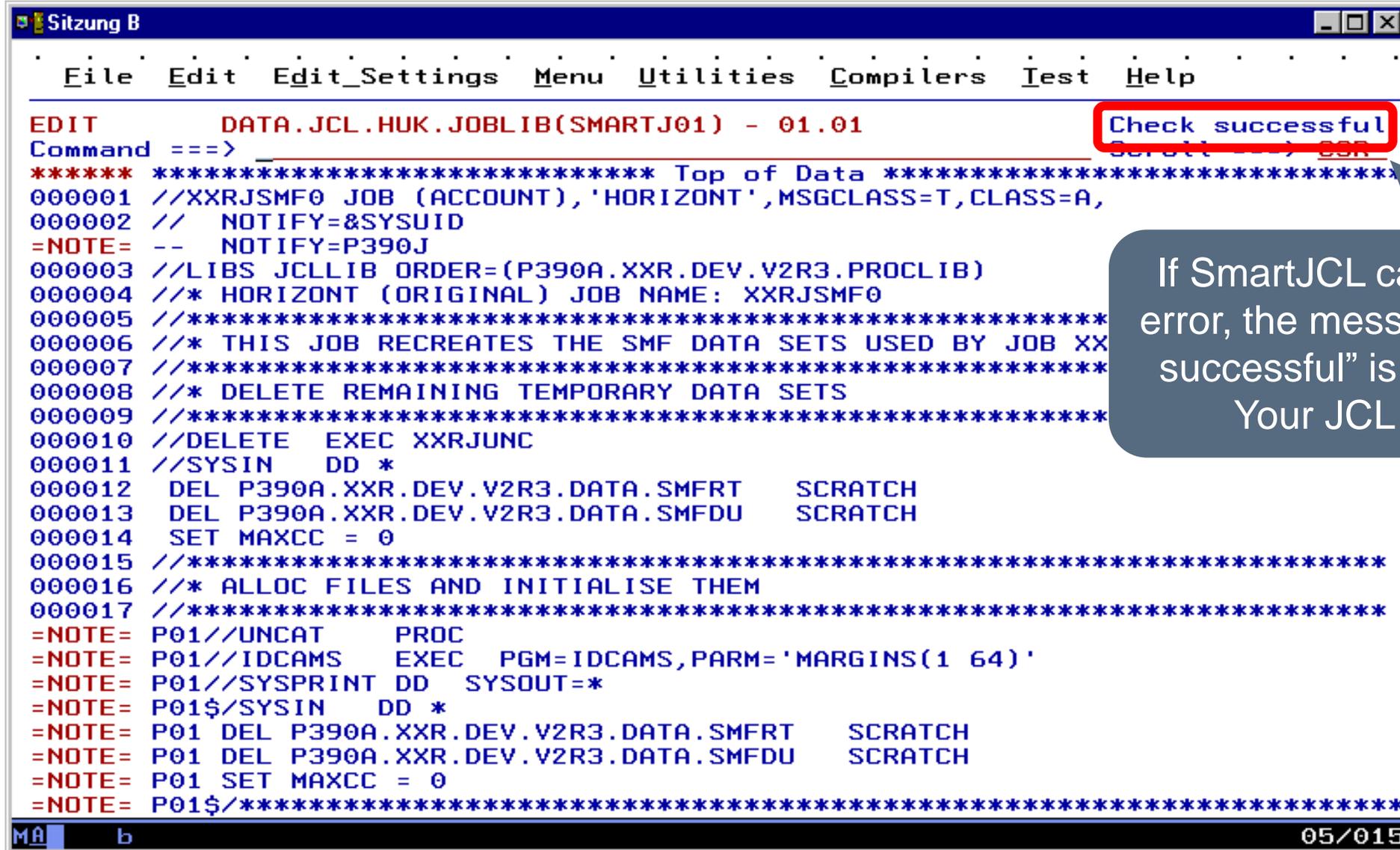
... and want to check the JCL.

Check JCL in Editor

```
EDIT          DATA_ICL.HUK.JOBLIB(SMARTJ01) - 01.01          Columns 00001 00072
Command ==> JCK          Scroll ==> CSR
***** ***** Top of Data *****
000001 //XXRJSMF0 JOB (ACCOUNT),'HORIZONT',MSGCLASS=T,CLASS=A,
000002 //  NOTIFY=&SYSUID
000003 //LIBS JCLLIB ORDER=(P390A.XXR.DEV.V2R3.PROCLIB)
000004 //* HORIZONT (ORIGINAL) JOB NAME: XXRJSMF0
000005 //*****
000006 //* THIS JOB RECREATES THE SMF DATA SETS USED BY JOB XXRJSMF
000007 //*****
000008 //* DELETE REMAINING TEMPORARY DATA SETS
000009 //*****
000010 //DELETE EXEC XXRJUNC
000011 //SYSIN DD *
000012 DEL P390A.XXR.DEV.V2R3.DATA.SMFRT SCRATCH
000013 DEL P390A.XXR.DEV.V2R3.DATA.SMFDU SCRATCH
000014 SET MAXCC = 0
000015 //*****
000016 //* ALLOC FILES AND INITIALISE THEM
000017 //*****
000018 //ALLOC1 EXEC PGM=IEBGENER
000019 //SYSPRINT DD SYSOUT=*
000020 //SYSIN DD DUMMY
000021 //SYSUT1 DD DUMMY,BLKSIZE=213,
000022 // DCB=(DSORG=PS,RECFM=FB,LRECL=213)
000023 //SYSUT2 DD DSN=P390A.XXR.DEV.V2R3.DATA.SMFRT,
000024 // DISP=(,CATLG),
000025 // SPACE=(TRK,(20,20),RLSE),
000026 // DCB=(DSORG=PS,RECFM=FB,LRECL=213)
MA b 05/018
```

Enter JCK

Check JCL in Editor



```
EDIT          DATA.JCL.HUK.JOBLIB(SMARTJ01) - 01.01          Check successful
Command ==> _____
***** ***** Top of Data *****
000001 //XJRJSMF0 JOB (ACCOUNT),'HORIZONT',MSGCLASS=T,CLASS=A,
000002 //  NOTIFY=&SYSUID
=NOTE=  --  NOTIFY=P390J
000003 //LIBS JCLLIB ORDER=(P390A.XXR.DEV.V2R3.PROCLIB)
000004 //* HORIZONT (ORIGINAL) JOB NAME: XJRJSMF0
000005 //*****
000006 //* THIS JOB RECREATES THE SMF DATA SETS USED BY JOB XX
000007 //*****
000008 //* DELETE REMAINING TEMPORARY DATA SETS
000009 //*****
000010 //DELETE EXEC XJRJUNC
000011 //SYSIN DD *
000012 DEL P390A.XXR.DEV.V2R3.DATA.SMFRT SCRATCH
000013 DEL P390A.XXR.DEV.V2R3.DATA.SMFDU SCRATCH
000014 SET MAXCC = 0
000015 //*****
000016 //* ALLOC FILES AND INITIALISE THEM
000017 //*****
=NOTE= P01//UNCAT PROC
=NOTE= P01//IDCAMS EXEC PGM=IDCAMS,PARM='MARGINS(1 64)'
=NOTE= P01//SYSPRINT DD SYSOUT=*
=NOTE= P01$/SYSIN DD *
=NOTE= P01 DEL P390A.XXR.DEV.V2R3.DATA.SMFRT SCRATCH
=NOTE= P01 DEL P390A.XXR.DEV.V2R3.DATA.SMFDU SCRATCH
=NOTE= P01 SET MAXCC = 0
=NOTE= P01$/*****
MA b 05/015
```

If SmartJCL can't find an error, the message "Check successful" is displayed. Your JCL is OK.

Check JCL in Editor

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT          DATA.JCL.HUK.JOBLIB(SMARTJ01) - 01.01          Check successful
Command ==> _____ Scroll ==> CSR
***** ***** Top of Data *****
000001 //XJRJSMF0 JOB (ACCOUNT),'HORIZONT',MSGCLASS=T,CLASS=A,
000002 //  NOTIFY=&SYSUID
=NOTE= --  NOTIFY=P390J
000003 //LIBS JCLLIB ORDER=(P390A.XXR.DEV.V2R3.PROCLIB)
000004 //* HORIZONT (ORIGINAL) JOB NAME: XJRJSMF0
000005 //*****
000006 //* THIS JOB RECREATES THE SMF DATA SETS USED BY JOB XJRJSMF
000007 //*****
000008 //* DELETE REMAINING TEMPORARY DATA SETS
000009 //*****
000010 //DELETE EXEC XJRJUNC
000011 //SYSIN DD *
000012 DEL P390A.XXR.DEV.V2R3.DATA.SMFRT SCRATCH
000013 DEL P390A.XXR.DEV.V2R3.DATA.SMFDU SCRATCH
000014 SET MAXCC = 0
000015 //*****
000016 //* ALLOC FILES AND INITIALISE THEM
000017 //*****
=NOTE= P01//UNCAT PROC
=NOTE= P01//IDCAMS EXEC PGM=IDCAMS,PARM='MARGINS(1 64)'
=NOTE= P01//SYSPRINT DD SYSOUT=*
=NOTE= P01$/SYSIN DD *
=NOTE= P01 DEL P390A.XXR.DEV.V2R3.DATA.SMFRT SCRATCH
=NOTE= P01 DEL P390A.XXR.DEV.V2R3.DATA.SMFDU SCRATCH
=NOTE= P01 SET MAXCC = 0
=NOTE= P01$/*****
MA b 05/015
```

Note: Procedures within the job are displayed as NOTE-lines in resolved form

=NOTE= P01//UNCAT PROC
=NOTE= P01//IDCAMS EXEC PGM=IDCAMS,PARM='MARGINS(1 64)'
=NOTE= P01//SYSPRINT DD SYSOUT=*
=NOTE= P01\$/SYSIN DD *
=NOTE= P01 DEL P390A.XXR.DEV.V2R3.DATA.SMFRT SCRATCH
=NOTE= P01 DEL P390A.XXR.DEV.V2R3.DATA.SMFDU SCRATCH
=NOTE= P01 SET MAXCC = 0
=NOTE= P01\$/*****

Check JCL in Editor

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT      DATA.JCL.HUK.JOBLIB(SMARTJ02) - 01.00
Command ==>

***** ***** Top of Data *****
=NOTE= LABEL MSG.NO.  ERROR MESSAGE
=NOTE= -----
=NOTE= .HAAA JCK0205E UNDEFINED PARAMETER DCG ON DD STMT
=NOTE= .HAAB JCK0517E DATA SET IS ALREADY CATALOGED
=NOTE= .HAAB JCK0500I DSN = "P390A.XXR.DEV.V2R3.DATA.SMFRT"
=NOTE= .HAAC JCK0517E DATA SET IS ALREADY CATALOGED
=NOTE= .HAAC JCK0500I DSN = "P390A.XXR.DEV.V2R3.DATA.SMFDL
000001 //SMARTJ02 JOB (ACCOUNT),'HORIZONT',MSGCLASS=T,CLAS
000002 //  NOTIFY=&SYSUID
=NOTE= --  NOTIFY=P390J
000003 //LIBS  LIB ORDER=(P390A.XXR.DEV.V2R3.PROCLIB)
000004 //* H  (ORIGINAL) JOB NAME: XXRJSMF0
*****
***** THE SMF DATA SETS USED BY JOB XXRJSMF *****
***** INITIALISE THEM *****
***** GENER *****
000013 //SYSIN      DD DUMMY
000014 //SYSUT1     DD DUMMY,BLKSIZE=213,
.HAAA //          DCG=(DSORG=PS,RECFM=FB,LRECL=213)
==MSG> JCK0205E UNDEFINED PARAMETER DCG ON DD STMT
000016 //SYSUT2     DD DSN=P390A.XXR.DEV.V2R3.DATA.SMFRT,
000017 //          DISP=(,CATLG),

MA b 04/015
```

Errors occurred
Scroll ==> CSR

If SmartJCL finds an error, the message "Errors occurred" is displayed. Your JCL is not OK.

All errors are displayed as NOTE-lines with label identifier, message number and error text

Check JCL in Editor

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT          DATA_ICL_HUK.JOBLIB(SMARTJ02) - 01.00          Errors occurred
Command ==> L .haaa          Scroll ==> CSR
*****          ***** Top of Data *****
=NOTE= LABEL MSG.NO. ERROR MESSAGE
=NOTE= -----
=NOTE= .HAAA J0205E UNDEFINED PARAMETER DCG ON DD STMT
=NOTE= .HAAB J0517E DATA SET IS ALREADY CATALOGED
=NOTE= .HAAB J0500I DSN = "P390A.XXR.DEV.V2R3.DATA.SMFRT"
=NOTE= .HAAC J0517E DATA SET IS ALREADY CATALOGED
=NOTE= .HAAB J0500I DSN = "P390A.XXR.DEV.V2R3.DATA.SMFDU"
000001 //SMF JOB (ACCOUNT),'HORIZONT',MSGCLASS=T,CLASS=A,
000002 //          SYSUID
=NOTE= --          390J
000003 //          DD DDNAME= (P390A.XXR.DEV.V2R3.PROCLIB)
          (NAL) JOB NAME: XXRJSMF0
          *****
          STATES THE SMF DATA SETS USED BY JOB XXRJSMF
          *****
          *****
          INITIALISE THEM
          *****
000011 //ALLOC1 EXEC PGM=IEBGENER
000012 //SYSPRINT DD SYSOUT=*
000013 //SYSIN DD DUMMY
000014 //SYSUT1 DD DUMMY,BLKSIZE=213,
.HAAA //          DCG=(DSORG=PS,RECFM=FB,LRECL=213)
==MSG> JCK0205E UNDEFINED PARAMETER DCG ON DD STMT
000016 //SYSUT2 DD DSN=P390A.XXR.DEV.V2R3.DATA.SMFRT,
000017 //          DISP=(,CATLG),
.
.
.
MA b 04/022
```

If you want to jump to a specific error, please enter "L .label", e.g. L .HAAA, to get to the first error.

Check JCL in Editor

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
File Edit Edit_Settings Menu Utilities Compilers Test Help

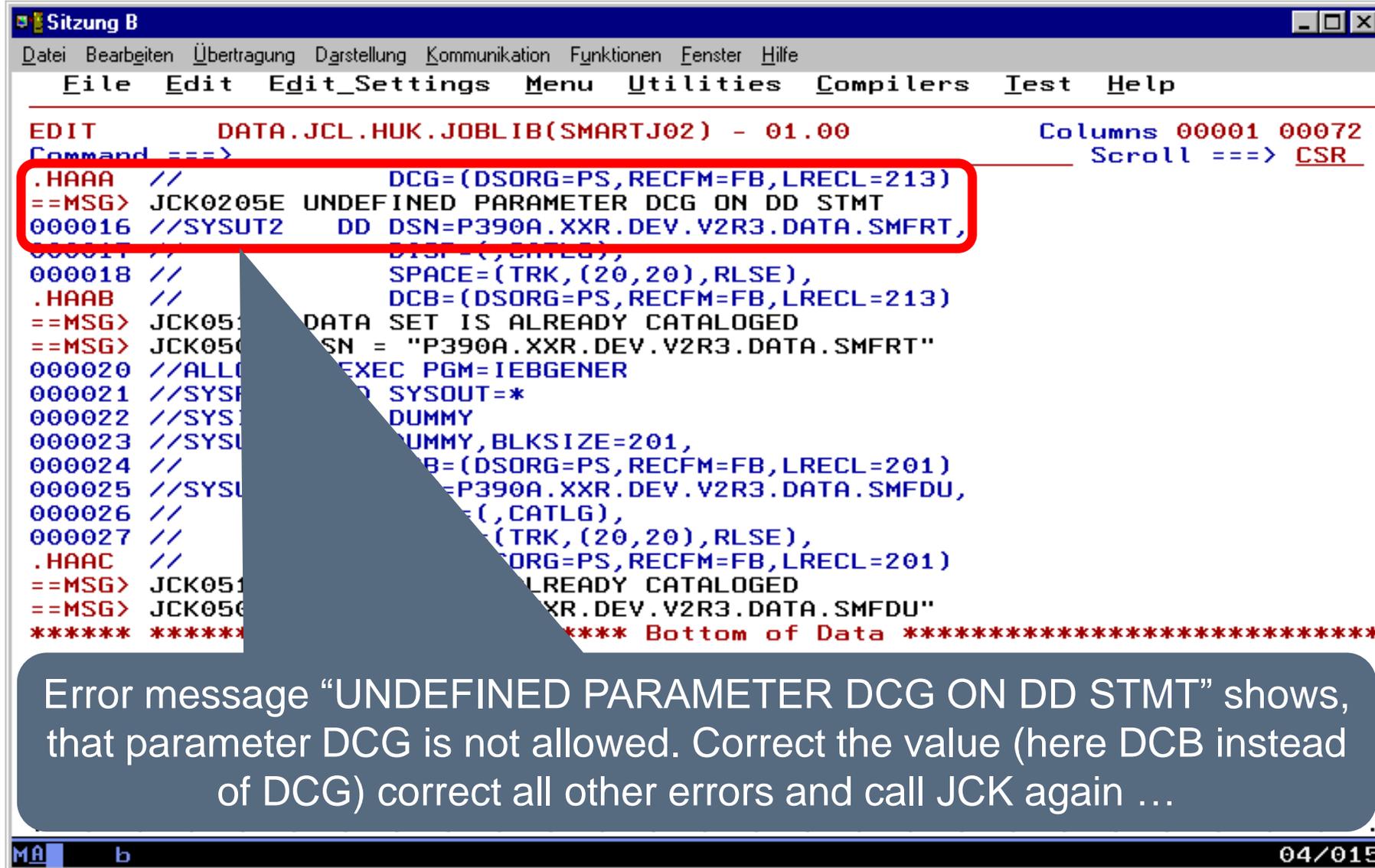
EDIT          DATA.JCL.HUK.JOBLIB(SMARTJ02) - 01.00          Columns 00001 00072
Command ==>          Scroll ==> CSR

.HAAA //          DCG=(DSORG=PS,RECFM=FB,LRECL=213)
==MSG> JCK0205E UNDEFINED PARAMETER DCG ON DD STMT
000016 //SYSUT2  DD DSN=P390A.XXR.DEV.V2R3.DATA.SMFRT,
000017 //          DISP=(,CATLG),
000018 //          SPACE=(TRK,(20,20),RLSE),
.HAAB //          DCB=(DSORG=PS,RECFM=FB,LRECL=201)
==MSG> JCK0517E DATA SET IS ALREADY CATALOGED
==MSG> JCK0500I DSN = "P390A.XXR.DEV.V2R3.DATA.SMFRT"
000020 //ALLOC2   EXEC PGM=IEBGENER
000021 //SYSPRINT DD SYSOUT=*
000022 //SYSIN     DD DUMMY
000023 //SYSUT1    DD DUMMY,BLKSIZE=201,
000024 //          DCB=(DSORG=PS,RECFM=FB,LRECL=201)
000025 //SYSUT2    DD DSN=P390A.XXR.DEV.V2R3.DATA.SMFRT,
000026 //          DISP=(,CATLG),
000027 //          SPACE=(TRK,(20,20),RLSE),
.HAAC //          DCB=(DSORG=PS,RECFM=FB,LRECL=201)
==MSG> JCK0517E DATA SET IS ALREADY CATALOGED
==MSG> JCK0500I DSN = "P390A.XXR.DEV.V2R3.DATA.SMFRT"
***** Bottom of Data *****

MA b 04/015
```

SmartJCL jumps to the corresponding error. For every incorrect JCL statement a error text is inserted as a NOTE-line

Check JCL in Editor



```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT          DATA.JCL.HUK.JOBLIB(SMARTJ02) - 01.00          Columns 00001 00072
Command ==>          Scroll ==> CSR

.HAAA //          DCG=(DSORG=PS,RECFM=FB,LRECL=213)
==MSG> JCK0205E UNDEFINED PARAMETER DCG ON DD STMT
000016 //SYSUT2   DD DSN=P390A.XXR.DEV.V2R3.DATA.SMFRT,
000017 //          DISP=(,CATLG),
000018 //          SPACE=(TRK,(20,20),RLSE),
.HAAB //          DCB=(DSORG=PS,RECFM=FB,LRECL=213)
==MSG> JCK0510E DATA SET IS ALREADY CATALOGED
==MSG> JCK0500E SN = "P390A.XXR.DEV.V2R3.DATA.SMFRT"
000020 //ALLC    EXEC PGM=IEBGENER
000021 //SYSOUT  SYSOUT=*
000022 //SYSUT1  DUMMY
000023 //SYSUT2  DUMMY,BLKSIZE=201,
000024 //          FB=(DSORG=PS,RECFM=FB,LRECL=201)
000025 //SYSUT3  =P390A.XXR.DEV.V2R3.DATA.SMFDU,
000026 //          =(,CATLG),
000027 //          (TRK,(20,20),RLSE),
.HAAC //          DSORG=PS,RECFM=FB,LRECL=201)
==MSG> JCK0510E ALREADY CATALOGED
==MSG> JCK0500E XR.DEV.V2R3.DATA.SMFDU"
***** *****
***** Bottom of Data *****
***** *****
```

Error message "UNDEFINED PARAMETER DCG ON DD STMT" shows, that parameter DCG is not allowed. Correct the value (here DCB instead of DCG) correct all other errors and call JCK again ...

MA b 04/015

Check JCL in Editor

```
EDIT          DATA.JCL.HUK.JOBLIB(SMARTJ02) - 01.01
Command ==>
***** Top of Data *****
000001 //SMARTJ02 JOB (ACCOUNT),'HORIZONT',MSGCLASS=T,CLASS=A,
000002 //  NOTIFY=&SYSUID
=NOTE= --  NOTIFY=P390J
000003 //LIBS JCLLIB ORDER=(P390A.XXR.DEV.V2R3.PROCLIB)
000004 //* HORIZONT (ORIGINAL) JOB NAME: XXRJSMF0
000005 //*****
000006 //* THIS JOB RECREATES THE SMF DATA SETS USED BY JOB XXP
000007 //*****
000008 //*****
000009 //* ALLOC FILES AND INITIALISE THEM
000010 //*****
000011 //ALLOC1   EXEC PGM=IEBGENER
000012 //SYSPRINT DD SYSOUT=*
000013 //SYSIN    DD DUMMY
000014 //SYSUT1   DD DUMMY,BLKSIZE=213,
000015 //          DCB=(DSORG=PS,RECFM=FB,LRECL=213)
000016 //SYSUT2   DD DSN=P390A.XXR.DEV.V2R3.DATA.SMFRT,
000017 //          DISP=(,CATLG),
000018 //          SPACE=(TRK,(20,20),RLSE),
000019 //          DCB=(DSORG=PS,RECFM=FB,LRECL=213)
000020 //ALLOC2   EXEC PGM=IEBGENER
000021 //SYSPRINT DD SYSOUT=*
000022 //SYSIN    DD DUMMY
000023 //SYSUT1   DD DUMMY,BLKSIZE=201,
000024 //          DCB=(DSORG=PS,RECFM=FB,LRECL=201)
000025 //SYSUT2   DD DSN=P390A.XXR.DEV.V2R3.DATA.SMFDU,
```

... as long as SmartJCL reports that the check was successful

Examples

- Below different error scenarios and their messages are shown. There are a lot more error scenarios which can not be listed here.

Invalid DCB parameter

Invalid JCL statement because continuation mark is missing

Invalid JCL statement, DD wrong

Invalid JCL statement, JOB wrong

Invalid JCL statement, EXEC wrong

Invalid DISP parameter

Catalog simulation error, IDCAMS-DEL command in procedure wrong

Invalid DCB-Parameter

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT          DATA.JCL.HUK.JOBLIB(SMARTJ01) - 01.02          Columns 00001 00072
Command ==>                                     Scroll ==> CSR
***** ***** Top of Data *****
=NOTE= LABEL  MSG.NO.  ERROR MESSAGE
=NOTE= -----
=NOTE= .HAAA JCK0240E DORG IS AN INVALID DCB SUBPARAMETER
000001 //XJRJSMF0 JOB (ACCOUNT),'HORIZONT',MSGCLASS=T,CLASS=A,
000002 //  NOTIFY=&SYSUID
- - - - - 29 Line(s) not Displayed
000021 //SYSUT1 DD DUMMY, BLKSIZE=213
.HAAA // DCB=(DORG=PS,RECFM=FB,LRECL=213)
==MSG> JCK0240E DORG IS AN INVALID DCB SUBPARAMETER
000023 //SYSUT2 DD DSN=P390A.XXR.DEV.V2R3.DATA.SMFRT,
000024 // DISP=(,CATLG),
000025 // SPACE=(TRK,(20,20),RLSE),
000026 // DCB=(DSORG=PS,RECFM=FB,LRECL=213)
000027 //ALLOD2 EXEC PGM=IEBGENER
000028 //SYSPRINT DD SYSOUT=*
000029 //SYSIN DD DUMMY
000030 //SYSUT1 DD DUMMY, BLKSIZE=201,
000031 // DCB=(DSORG=PS,RECFM=FB,LRECL=201)
000032 //SYSUT2 DD DSN=P390A.XXR.DEV.V2R3.DATA.SMFDU,
000033 // DISP=(,CATLG),
000034 // SPACE=(TRK,(20,20),RLSE),
000035 // DCB=(DSORG=PS,RECFM=FB,LRECL=201)
***** ***** Bottom of Data *****

MA b 04/015
```

DORG false, correct DSORG

Invalid JCL-Statement

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT          DATA.JCL.HUK.JOBLIB(SMARTJ01) - 01.02          Columns 00001 00072
Command ==>                                     Scroll ==> CSR
***** ***** Top of Data *****
=NOTE= LABEL MSG.NO. ERROR MESSAGE
=NOTE= -----
=NOTE= .HAAA JCK0008E INVALID JCL STATEMENT: DCB
000001 //XJRJSMF0 JOB (ACCOUNT),'HORIZONT',MSGCLASS=T,CLASS=A,
000002 // NOTIFY=&SYSUID
-----
- - - - - 29 Line(s) not Displayed
000021 //SYSUT1 DD DUMMY,BLKSIZE=213
.HAAA // DCB=(DSORG=PS,RECFM=FB,LRECL=213)
==MSG> JCK0008E INVALID JCL STATEMENT: DCB
000023 //SYSUT2 DD DSN=P390A.XXR.DEV.V2R3.DATA.SMFDU,
000024 // DISP=(,CATLG),
000025 // SPACE=(TRK,(20,20),RLSE),
000026 // DCB=(DSORG=PS,RECFM=FB,LRECL=201)
000027 //ALLOCF EXEC PGM=IEBGENER
000028 //SYSPRINT DD SYSOUT=*
000029 //SYSIN DD DUMMY
000030 //SYSUT1 DD DUMMY,BLKSIZE=201,
000031 // DCB=(DSORG=PS,RECFM=FB,LRECL=201)
000032 //SYSUT2 DD DSN=P390A.XXR.DEV.V2R3.DATA.SMFDU,
000033 // DISP=(,CATLG),
000034 // SPACE=(TRK,(20,20),RLSE),
000035 // DCB=(DSORG=PS,RECFM=FB,LRECL=201)
***** ***** Bottom of Data *****
```

Comma for continuation line is missing

Invalid JCL-Statement

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT          DATA.JCL.HUK.JOBLIB(SMARTJ01) - 01.02          Columns 00001 00072
Command ==> _____ Scroll ==> CSR
***** ***** Top of Data *****
=NOTE= LABEL  MSG.NO.  ERROR MESSAGE
=NOTE= -----
=NOTE= .HAAA JCK0008E INVALID JCL STATEMENT: DF
000001 //XXRJSMF0 JOB (ACCOUNT),'HORIZONT',MSGCLASS=T,CLASS=A,
- - - - - 27 Line(s) not Displayed
000018 //ALLOCF1 EXEC PGM=IEBGENER
.HAAA //SYSPRINT DF SYSOUT=*
==MSG> JCK0008E INVALID JCL STATEMENT: DF
000020 //SYSUT1 DD DUMMY
000021 //SYSUT1 DD DUMMY,BLKSIZE=213,
000022 //SYSUT1 DD DSN=P390A.XXR.DEV.V2R3.DATA.SMFRT,
000023 //SYSUT2 DD DSN=P390A.XXR.DEV.V2R3.DATA.SMFDU,
DISP=(,CATLG),
SPACE=(TRK,(20,20),RLSE),
DCB=(DSORG=PS,RECFM=FB,LRECL=213)
000027 //ALLOCF2 EXEC PGM=IEBGENER
000028 //SYSPRINT DD SYSOUT=*
000029 //SYSIN DD DUMMY
000030 //SYSUT1 DD DUMMY,BLKSIZE=201,
000031 //SYSUT1 DD DSN=P390A.XXR.DEV.V2R3.DATA.SMFDU,
DCB=(DSORG=PS,RECFM=FB,LRECL=201)
000032 //SYSUT2 DD DSN=P390A.XXR.DEV.V2R3.DATA.SMFDU,
DISP=(,CATLG),
SPACE=(TRK,(20,20),RLSE),
DCB=(DSORG=PS,RECFM=FB,LRECL=201)
000033 //SYSUT2 DD DSN=P390A.XXR.DEV.V2R3.DATA.SMFDU,
DISP=(,CATLG),
SPACE=(TRK,(20,20),RLSE),
DCB=(DSORG=PS,RECFM=FB,LRECL=201)
***** ***** Bottom of Data *****

MA b 11/002
```

DF false, correct DD

Invalid JCL-Statement

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT      DATA.JCL.HUK.JOBLIB(SMARTJ01) - 01.02      Errors occurred
Command ==> _____ Scroll ==> CSR
***** ***** Top of Data *****
=NOTE= LABEL MSG.NO. ERROR MESSAGE
=NOTE= -----
=NOTE= .HAAA JCK0008E INVALID JCL STATEMENT: JOP
=NOTE= .HAAB JCK0403E JCLLIB MUST APPEAR AFTER JOB STMT AND BEFORE FIRST EXEC
=NOTE= .HAAC JCK0412E PROC STATEMENT MUST APPEAR AFTER JOB STATEMENT
000001 //XJRJSMF0 JOP (ACCOUNT),'HORIZONT',MSGCLASS=T,CLASS=A,
.HAAA // NOTIFY=&SYSUID
=NOTE= -- NOTIFY=P390J
==MSG> JCK0008E INVALID JCL STATEMENT: JOP
.HAAB // JCLLIB ORDER=(P390A.XXR.DEV.V2R3.PROCLIB)
==MSG> JCK0403E JCLLIB MUST APPEAR AFTER JOB STMT AND BEFORE FIRST EXEC STMT
000002 HORIZONT (ORIGINAL) JOB NAME: XJRJSMF0
*****
S JOB RECREATES THE SMF DATA SETS USED BY JOB XJRJSMF
*****
000008 /* DELETE REMAINING TEMPORARY DATA SETS
000009 /******
000010 //DELETE EXEC XJRJUNC
000011 //SYSIN DD *
000012 DEL P390A.XXR.DEV.V2R3.DATA.SMFRT SCRATCH
000013 DEL P390A.XXR.DEV.V2R3.DATA.SMFDU SCRATCH
000014 SET MAXCC = 0
000015 /******
000016 /* ALLOC FILES AND INITIALISE THEM
.HAAC /******
=NOTE= P01//UNCAT PROC
. . . . .
MA b 04/015
```

JOP false, correct JOB

Invalid JCL-Statement

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DATA.JCL.HUK.JOBLIB(SMARTJ03) - 01.00      Columns 00001 00072
Command ==> _____ Scroll ==> CSR
***** Top of Data *****
=NOTE= LABEL  MSG.NO.  ERROR MESSAGE
-----
=NOTE= .HAAA JCK0008E INVALID JCL STATEMENT: XEXEC
=NOTE= .HAAB JCK0402E MISPLACED DD STATEMENT
000001 //XJRJSMF0 JOB (ACCOUNT), 'HORIZONT',MSGCLASS=T,CLASS=A,
000002 //  NOTIFY=&SYSUID
=NOTE= --  NOTIFY=P390J
000003 //LIBS JCLLIB ORDER=(P390A.XXR.DEV.V2R3.PROCLIB)
000004 //* HORIZONT (ORIGINAL) JOB NAME: XJRJSMF0
000005 //*****
000006 //* THIS JOB RECREATES THE SMF DATA SETS USED BY JOB XJRJSMF
000007 //*****
000008 //* DELETE REMAINING TEMPORARY DATA SETS
000009 //*****
.HAAA //DELETE  XEXEC XJRJUNC
==MSG> JCK0008E INVALID JCL STATEMENT: XEXEC
000011 //SYSIN DD *
000012 DEL P390A.XXR.DEV.V2R3.DATA.SMFRT SCRATCH
000013 DEL P390A.XXR.DEV.V2R3.DATA.SMEDII SCRATCH
.HAAB SET MAXCC = 0
==MSG> JCK0402E MISPLACED DD STATEMENT
000015 //*****
000016 //* ALLOC FILES AND INITIALISE THEM
000017 //*****
000018 //ALLOC1 EXEC PGM=IEBGENER
000019 //SYSPRINT DD SYSOUT=*
.
.
.
.
.
.
MA b
```

XEXEC false, correct EXEC

Invalid DISP

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT          DATA.JCL.HUK.JOBLIB(SMARTJ01) - 01.02          Errors occurred
Command ==> Scroll ==> CSR
000018 //ALLOC1 EXEC PGM=IEBGENER
000019 //SYSPRINT DD SYSOUT=*
000020 //SYSIN DD DUMMY
000021 //SYSUT1 DD DUMMY,BLKSIZE=213,
000022 // DCB=(DSORG=PS,RECFM=FB,LRECL=213)
000023 //SYSUT2 DD DSN=P390A.XXR.DEV.V2R3.DATA.SMFRT,
000024 // DISP=(,CATLG),
000025 // SPACE=(TRK,(20,20),RLSE),
000026 // DCB=(DSORG=PS,RECFM=FB,LRECL=213)
000027 //ALLOC2 EXEC PGM=IEBGENER
000028 //SYSPRINT DD SYSOUT=*
000029 //SYSIN DD DUMMY
000030 //SYSUT1 DD DUMMY,BLKSIZE=201,
000031 // DCB=(DSORG=PS,RECFM=FB,LRECL=201)
000032 //SYSUT2 DD DSN=P390A.XXR.DEV.V2R3.DATA.SMFDU,
000033 // DISP=(,KATLG),
000034 // SPACE=(TRK,(20,20),RLSE),
.HAAA DCB=(DSORG=PS,RECFM=FB,LRECL=201)
==MSG> JCK0270E INVALID VALUE KATLG FOR THE NORMAL TERMINATION DISPOSITION
*****
```

KATLG false, correct CATLG

MA b 04/015

Simulate Catalog actions

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT      DATA.JCL.HUK.JOBLIB(SMARTJ01) - 01.02
Command ==>
***** Top of Data *****
=NOTE= LABEL MSG.NO. ERROR MESSAGE
-----
=NOTE= .HAAA JCK0517E DATA SET IS ALREADY CATALOGED
=NOTE= .HAAA JCK0500I DSN = "P390A.XXR.DEV.V2R3.DATA.SMFRT"
000001 //XAR0517E JOB (AC0001), HORIZONT,MSDCENSS=1,CLASS=A,
000002 // NOTIFY=&SYSUID
=NOTE= -- NOTIFY=P390J
000003 //LIBS JCLLIB ORDER=(P390A.XXR.D...R3.PROCLIB)
000004 //* HORIZONT (ORIGINAL) JOB NAME:
000005 //*****
000006 //* THIS JOB RECREATES THE SMF DATA SET FOR JOB XXRJSMF
000007 //*****
000008 //* DELETE REMAINING TEMPORARY DATA SETS
000009 //*****
000010 //DELETE EXEC XXRJUNC
000011 //SYSIN DD *
000012 DEK P390A.XXR.DEV.V2R3.DATA.SMF
000013 DEL P390A.XXR.DEV.V2R3.DATA.SMF
000014 SET MAXCC = 0
000015 //*****
000016 //* ALLOC FILES AND INITIALISE
000017 //*****
=NOTE= P01//UNCAT PROC
=NOTE= P01//IDCAMS EXEC PGM=IDCAMS,PARM='MARGINS(1 64)'
=NOTE= P01//SYSPRINT DD SYSOUT=*
=NOTE= P01$/SYSIN DD *

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```

If beside to the JCL errors, catalog actions should be checked too (this can be controlled by parameters) e.g. a above mentioned message appears “data set is already cataloged”

Simulate Catalog actions

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT          DATA JCL HUK.JOBLIB(SMARTJ01) - 01.02          Columns 00001 00072
Command ==> | .haaa                                         Scroll ==> CSR
***** Top of Data *****
=NOTE= LABEL MSG.NO. ERROR MESSAGE
=NOTE= -----
=NOTE= .HAAA JCK0517E DATA SET IS ALREADY CATALOGED
=NOTE= .HAAA JCK0500I DSN = "P390A.XXR.DEV.V2R3.DATA.SMF
000001 //XXRJSMF0 JOB (ACCOUNT),'HORIZONT',MSGCLASS=T,CLAS=H
000002 // NOTIFY=&SYSUID
=NOTE= -- NOTIFY=P390J
000003 //LIBS JCLLIB ORDER=(P390A.XXR.DEV.V2R3.PROCLIB)
000004 //* HORIZONT (ORIGINAL) JOB NAME: XXRJSMF0
000005 //*****
000006 //* THIS JOB RECREATES THE SMF DATA SETS USED BY JOB XXRJSMF
000007 //*****
000008 //* DELETE REMAINING TEMPORARY DATA SETS
000009 //*****
000010 //DELETE EXEC XXRJUNC
000011 //SYSIN DD *
000012 DEK P390A.XXR.DEV.V2R3.DATA.SMFRT SCRATCH
000013 DEL P390A.XXR.DEV.V2R3.DATA.SMFDU SCRATCH
000014 SET MAXCC = 0
000015 //*****
000016 //* ALLOC FILES AND INITIALISE THEM
000017 //*****
=NOTE= P01//UNCAT PROC
=NOTE= P01//IDCAMS EXEC PGM=IDCAMS,PARM='MARGINS(1 64)'
=NOTE= P01//SYSPRINT DD SYSOUT=*
=NOTE= P01$/SYSIN DD *

MA b 04/022
```

Jump with "I .haaa" to the relevant position

Simulate Catalog actions

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT          DATA.JCL.HUK.JOBLIB(SMARTJ01) - 01.02          Columns 00001 00072
Command ==>          Scroll ==> CSR

.HAAA //          DCB=(DSORG=PS,RECFM=FB,LRECL=213)
==MSG> JCK0517E DATA SET IS ALREADY CATALOGED
==MSG> JCK0500I DSN = "P390A.XXR.DEV.V2R3.DATA.SMFRT"
000027 //ALLOBS  ENES  PGM  IEDSENER
000028 //SYSPRINT DD SYSOUT=*
000029 //SYSIN    DD DUMMY
000030 //SYSUT1   DD DSN=,DISP=,BLKSIZE=201,
000031 //          DCB=(DSORG=PS,RECFM=FB,LRECL=201)
000032 //SYSUT2   DD DSN=P390A.XXR.DEV.V2R3.DATA.SMFDU,
000033 //          (CATLG),
000034 //          (SPACE=(20,20),RLSE),
000035 //          DCB=(DSORG=PS,RECFM=FB,LRECL=201)
***** *****
***** Bottom of Data *****
```

The file should be recreated here. SmartJCL checks, if the file exists already and determines that the file already exists in its corresponding catalog. The file can not be recreated. Search for the first appearance of the file name in the job...

Simulate Catalog actions

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT          DATA.JCL.HUK.JOBLIB(SMARTJ01) - 01.03          Columns 00001 00072
Command ==> _____ Scroll ==> CSR
000007 //*****
000008 //* DELETE REMAINING TEMPORARY DATA SETS
000009 //*****
000010 //DELETE EXEC XPRJUNC
000011 //SYSIN DD *
000012 DEK P390A.XXR.DEV.V2R3.DATA.SMFRT SCRATCH
000013 DEL P390A.XXR.DEV.V2R3.DATA.SMFDU SCRATCH
000014 SET MAXCC = 0
000015 //*****
000016 //* ALLOC FILES AND INITIALISE THEM
000017 //*****
=NOTE= P01//UNCAT PROC
=NOTE= P01//IDCAMS EXEC PGM=IDCAMS,PARM='MARGINS(1 64)'
=NOTE= P01//SYSPPRINT DD SYSOUT=*
=NOTE= P01$/SYSIN DD *
=NOTE= P01 DEK P390A.XXR.DEV.V2R3.DATA.SMFRT SCRATCH
=NOTE= P01 DEL P390A.XXR.DEV.V2R3.DATA.SMFDU SCRATCH
=NOTE= P01 SET MAXCC = 0
=NOTE= P01$/*****
=NOTE= P01$/* ALLOC FILES AND INITIALISE THEM
=NOTE= P01$/*****
000018 //*****
000019
000020
000021
000022
000023
```

... and now you see that the file should be deleted at the beginning of the job in an IDCAMS procedure and the DEL statement was written instead of DEL with DEK.

IDCAMS-Statements

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT          DATA.JCL.HUK.JOBLIB(SMARTJ01) - 01.04          Errors occurred
Command ==> _____ Scroll ==> CSR
***** ***** Top of Data *****
=NOTE= LABEL MSG.NO.  ERROR MESSAGE
-----
=NOTE= .HAAA IDC0014E VERB NAME 'DEK' UNKNOWN
=NOTE= .HAAB JCK0517E DATA SET IS ALREADY CATALOGED
=NOTE= .HAAB JCK0500I DSN = "P390A.XXR.DEV.V2R3.DATA.SMFRT"
==MSG> P000001W JUPPI005: READ ACCESS DENIED: P390A.JUP.DATA.NOREAD.ACCESS
==MSG> P000002I SAFRETC: 00000000 RACRETC: 00000014 RACREASC: 00000000
000001 //XXRJSMF0 JOB (          ),'HORIZONT',MSGCLASS=T,CLASS=A,
000002 //  NOTIFY=&SYS
=NOTE= --  NOTIFY=P390
000003 //LIBS JCLLIB (          ) (P390A.XXR.DEV.V2R3.PROCLIB)
000004 //* HORIZONT (          ) JOB NAME: XXRJSMF0
000005 //*****
*****
***** SETS USED BY JOB XXRJSMF *****
*****
*****
*****
***** SCRATCH *****
***** SCRATCH *****
000013 DEL P390A.XXR.DEV.V2R3.DATA.SMFDD
000014 SET MAXCC = 0
000015 //*****
000016 //* ALLOC FILES AND INITIALISE THEM
.HAAA //*****
=NOTE= P01//UNCAT      PROC
=NOTE= P01//IDCAMS    EXEC  PGM=IDCAMS,PARM='MARGINS(1 64)'
```

If the check of IDCAMS-Statements with SmartJCL ist activated, SmartJCL displays that the DEL statement is misspelled.

IDCAMS-Statements

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT          DATA.JCL.HUK.JOBLIB(SMARTJ01) - 01.04          Columns 00001 00072
Command ==> _____ Scroll ==> CSR
***** ***** Top of Data *****
000001 //XJRJSMF0 JOB (ACCOUNT),'HORIZONT',MSGCLASS=T,CLASS=A,
000002 // NOTIFY=&SYSUID
000003 //LIBS JCLLIB ORDER=(P390A.XXR.DEV.V2R3.PROCLIB)
000004 //* HORIZONT (ORIGINAL) JOB NAME: XJRJSMF0
000005 //*****
000006 //* THIS JOB RECREATES THE SMF DATA SETS USED BY JOB XJRJSMF
000007 //*****
000008 //* DELETE REMAINING TEMPORARY DATA SETS
000009 //*****
000010 //DELETE EXEC XJRJUNC
000011 //SYSIN DD *
000012 DEK P390A.XXR.DEV.V2R3.DATA.SMFRT SCRATCH
000013 DEL P390A.XXR.DEV.V2R3.DATA.SMFDU SCRATCH
000014 SET MAXCC = 0
000015 //*****
000016 //* ALLOC FILES AND INITIALISE MEM
.HAAA //*****
000018 //ALLOC1 EXEC PGM=IEBGENER
000019 //SYSPRINT DD SYSOUT=*
000020 //SYSIN DD DUMMY
000021 //SYSUT1 DD DUMMY,BLKSIZE=213,
000022 // DCB=(DSORG=PS,RECFM=FB,LRECL=213)
000023 //SYSUT2 DD DSN=P390A.XXR.DEV.V2R3.DATA.SMFRT,
000024 // DISP=(,CATLG),
000025 // SPACE=(TRK,(20,20),RLSE),
.HAAB // DCB=(DSORG=PS,RECFM=FB,LRECL=213)
000027 //ALLOC2 EXEC PGM=IEBGENER
```

Correct the DEK-Statement in DEL

Simulate JCL in Editor

- Simulate means that scheduler variables are resolved
- So far supported scheduling systems:

TWS z/OS

Simulate TWS-JCL in Editor

- When SmartJCL simulates the JCL with TWS variables, SmartJCL communicate with TWS. TWS searches a JCL in this sequence:
 - 1. In the JS file
 - 2. In the TWS associated Job Library
- Therefore a to be simulated JCL must be in the JS file or on one of the TWS Job Library
- An operation must exist with a identical Jobname in CP or in the AC file
- This is a reason why SmartJCL or you have to write the JCL first in TWS Joblib or in the JS file when simulating a “new” JCL and that a sample operation must exist for the Jobname.

Simulate TWS-JCL in Editor

Simulate JCL by Joblib

Simulate actual edited JCL

Simulate and check JCL

Simulate JCL and save simulated JCL in JS file

Examples for Error messages

Simulation of a still-not-TWS-job

Simulation of Script

Simulate TWS-JCL in Editor

```
EDIT      DATA.JCL.HUK.JOBLIB(PSCP9158) - 01.11      Columns 00001 00072
Command ==>                                         Scroll ==> CSR
***** ***** Top of Data *****
000001 //*%OPC SEARCH NAME=(T&OYY.&OMM.&ODD.,GLOBAL)
000002 //PSCP9158 JOB 'ABC',NOTIFY=&NOTUSER.,
000003 //          MSGCLASS=&OUTR.,MSGLEVEL=(1,1)
000004 //*%OPC SETFORM CTIME=(HH.MM)
000005 //*****
000006 //* APPL  = &OADID.          JOB    = &OJOBNAME.
000007 //* IA   = &OYMD1. &OHMM.
000008 //* DATE = &CDD.&CMM.&CYY.    TIME  = &CTIME.
000009 //*****
000010 //XCPHLQ  SET XCPHLQ='SYSPTS.CPEXPRT'
000011 //XCPHLQ1 SET XCPHLQ1='UGZALTT.SXS.CPEXPRT'
000012 //XCPHLQ2 SET XCPHLQ2='UGZALTT.SXS8.CPEXPRT'
000013 //XCPOUT  SET CPXOUT='UGZALTT.&OJOBNAME..T&$JMTM1AT.'
000014 //MXGHLQ  SET MSGHLQ='SYSPTS.MSG'
000015 //ITSVHLQ SET ITSVHLQ='UGZALTT.SXS8.ITSV'
000016 //*****
000017 //DASCPE  PROC IOCP='',DASMEM='',OPTIONS=''
000018 //DASCPE  EXEC SAS8,OPTIONS=&OPTIONS
000019 //SAS.CPEDASD DD UNIT=SYSDA,DATACLAS=DCSXS,SPACE=(
000020 //SAS.SYSIN DD DISP=SHR,DSN=&XCPHLQ1..SOURCE(DASSXS)
000021 //SAS.CPXPRINT DD DISP=SHR,DSN=&XCPOUT(&DASMEM)
000022 //          PEND
000023 //*-----
000024 //DASSY2  EXEC DASCPE,IOCP=I2064RZ3,DASMEM=DASSY2,
000025 //          OPTIONS='SYSPARM=SY2S&$JMTM1AT.S '
***** ***** Bottom of Data *****
MA  b 05/015
```

You edit the JCL on one of your TWS-Joblibs

The JCL has TWS variables

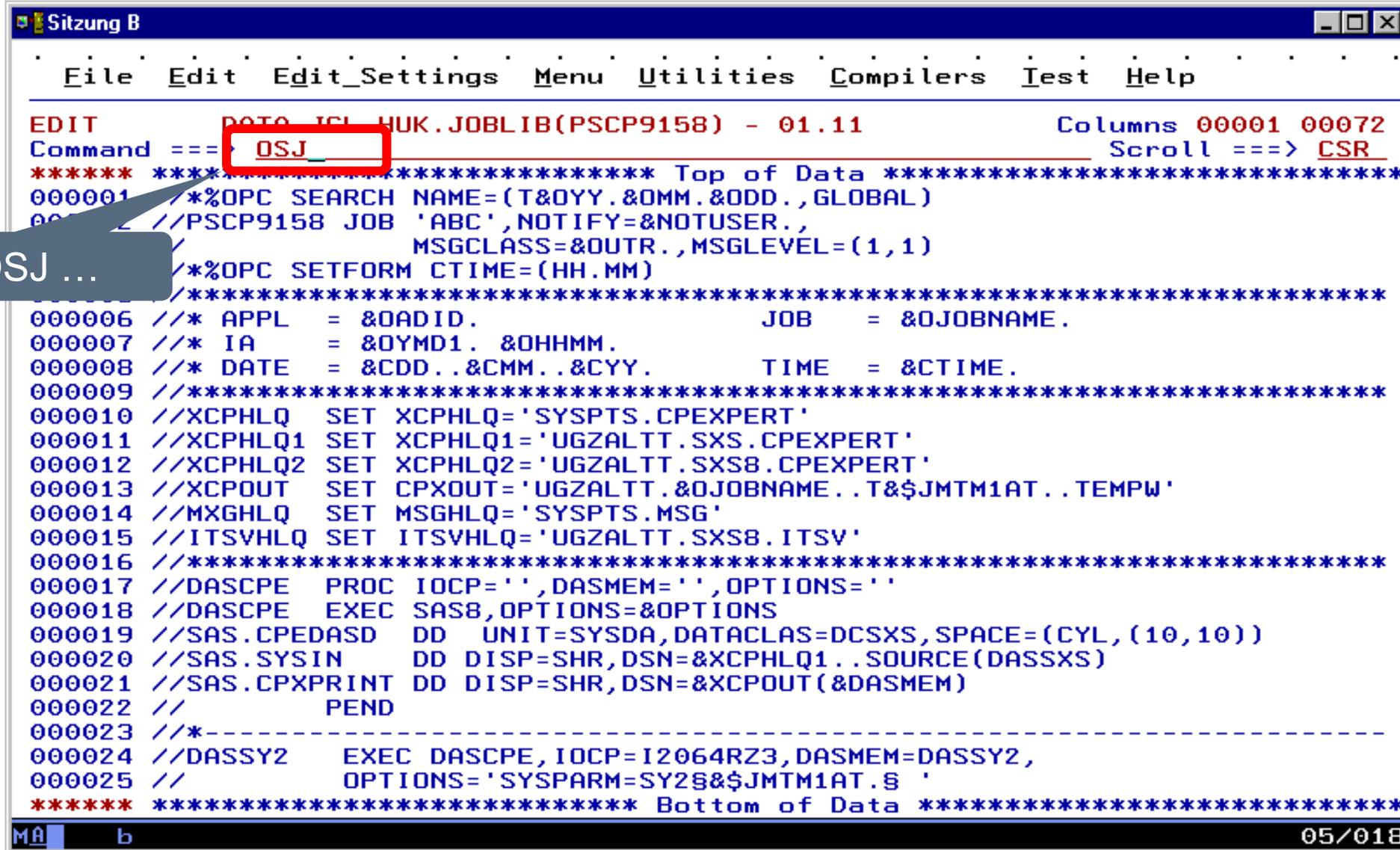
Simulate TWS-JCL in Editor

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers
EDIT      DATA.JCL.HUK.JOBLIB(PSCP9158) - 01.11
Command ==>
***** ***** Top of Data *****
000001 // *%OPC SEARCH NAME=(T&OYY.&OMM.&ODD.,GLOBAL)
000002 //PSCP9158 JOB 'ABC',NOTIFY=&NOTUSER.,
000003 //          MSGCLASS=&OUTR.,MSGLEVEL=(1,1)
000004 // *%OPC SETFORM CTIME=(HH.MM)
000005 //*****
000006 //* APPL   = &OADID.          JOB   = &OJOBNAME.
000007 //* IA    = &OYMD1. &OHHMM.
000008 //* DATE  = &CDD.&CMM.&CYY.    TIME  = &CTIME.
000009 //*****
000010 //XCPHLQ  SET XCPHLQ='SYSPTS.CPEXPRT'
000011 //XCPHLQ1 SET XCPHLQ1='UGZALTT.SXS.CPEXPRT'
000012 //XCPHLQ2 SET XCPHLQ2='UGZALTT.SXS8.CPEXPRT'
000013 //XCPOUT  SET CPXOUT='UGZALTT.&OJOBNAME..T&$JMTM1AT..TEMPW'
000014 //MXGHLQ  SET MSGHLQ='SYSPTS.MSG'
000015 //ITSVHLQ SET ITSVHLQ='UGZALTT.SXS8.ITSV'
000016 //*****
000017 //DASCPE  PROC IOCP='',DASMEM='',OPTIONS=''
000018 //DASCPE  EXEC SAS8,OPTIONS=&OPTIONS
000019 //SAS.CPEDASD DD UNIT=SYSDA,DATACLAS=DCSXS,SPACE=(CYL,(10,10))
000020 //SAS.SYSIN  DD DISP=SHR,DSN=&XCPHLQ1..SOURCE(DASSXS)
000021 //SAS.CPXPRINT DD DISP=SHR,DSN=&XCPOUT(&DASMEM)
000022 //          PEND
000023 // *-----
000024 //DASSY2   EXEC DASCPE,IOCP=I2064RZ3,DASMEM=DASSY2,
000025 //          OPTIONS='SYSPARM=SY2S&$JMTM1AT.S '
***** ***** Bottom of Data *****
MA  b 05/015
```

Secure the JCL with SAVE and go to the next slide or ...

... click here

Simulate TWS-JCL in Editor



```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DATA JCL HUK.JOBLIB(PSCP9158) - 01.11      Columns 00001 00072
Command ==> OSJ      Scroll ==> CSR
***** Top of Data *****
000001 //%OPC SEARCH NAME=(T&OYY.&OMM.&ODD.,GLOBAL)
000002 //PSCP9158 JOB 'ABC',NOTIFY=&NOTUSER.,
          MSGCLASS=&OUTR.,MSGLEVEL=(1,1)
          //%OPC SETFORM CTIME=(HH.MM)
          *****
000006 //* APPL  = &OADID.          JOB    = &OJOBNAME.
000007 //* IA   = &OYMD1. &OHMM.
000008 //* DATE = &CDD.&CMM.&CYY.    TIME  = &CTIME.
000009 //*****
000010 //XCPHLQ  SET XCPHLQ='SYSPTS.CPEXPRT'
000011 //XCPHLQ1 SET XCPHLQ1='UGZALTT.SXS.CPEXPRT'
000012 //XCPHLQ2 SET XCPHLQ2='UGZALTT.SXS8.CPEXPRT'
000013 //XCPOUT  SET CPXOUT='UGZALTT.&OJOBNAME..T&$JMTM1AT..TEMPW'
000014 //MXGHLQ  SET MSGHLQ='SYSPTS.MSG'
000015 //ITSVHLQ SET ITSVHLQ='UGZALTT.SXS8.ITSV'
000016 //*****
000017 //DASCPE  PROC IOCP='',DASMEM='',OPTIONS=''
000018 //DASCPE  EXEC SAS8,OPTIONS=&OPTIONS
000019 //SAS.CPEDASD DD UNIT=SYSDA,DATACLAS=DCSXS,SPACE=(CYL,(10,10))
000020 //SAS.SYSIN  DD DISP=SHR,DSN=&XCPHLQ1..SOURCE(DASSXS)
000021 //SAS.CPXPRINT DD DISP=SHR,DSN=&XCPOUT(&DASMEM)
000022 //          PEND
000023 //*-----
000024 //DASSY2   EXEC DASCPE,IOCP=I2064RZ3,DASMEM=DASSY2,
000025 //          OPTIONS='SYSPARM=SY2S&$JMTM1AT.S '
***** Bottom of Data *****
MA  b                                     05/018
```

Enter OSJ ...

Simulate TWS-JCL in Editor

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT DATA.JCL.HUK.JOBLIB(PSCP9158) - 01.11 Columns 00001 00072
Command ==> osjhuk Scroll ==> CSR
***** Top of Data *****
00000 L)
00000 OPC/SimJCL HORIZONT 1)
00000
00000 Jobname found in OPC-CP
00000 Additional search in OPC-AD?
00000 Yes or No? Y
*****
&JOBNAME.
&CTIME.
*****
000012 //XCPHLQ2 SET XCPHLQ2='UGZALTT.SXS8.CPEXPRT'
000013 //XCPOUT SET CPXOUT='UGZALTT.&JOBNAME..T&$JMTM1AT..TEMPW'
000014 //MXGHLQ SET MSGHLQ='SYSPTS.MSG'
000015 //ITSVHLQ SET ITSVHLQ='UGZALTT.SXS8.ITSV'
000016 //*****
000017 //DASCPE PROC IOCP='',DASMEM='',OPTIONS=''
000018 //DASCPE EXEC SAS8,OPTIONS=&OPTIONS
000019 //SAS.CPEDASD DD UNIT=SYSDA,DATACLAS=DCSXS,SPACE=(CYL,(10,10))
000020 //SAS.SYSIN DD DISP=SHR,DSN=&XCPHLQ1..SOURCE(DASSXS)
```

Jobname/Application-ID

The Jobname is first searched in TWS Current Plan. A message appears if the job is found or not. You will be asked if the job should be searched additionally in TWS Application Description.

Simulate TWS-JCL in Editor

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT          DATA.JCL.HUK.JOBLIB(PSCP9158) - 01.11          Columns 00001 00072
Command ==> osjhuk          Scroll ==> CSR
***** ***** Top of Data *****
00000          OPC/SimJCL          HORIZONT          ODD.,GLOBAL)
00000          Search for Jobname          SER.,
00000          GLEVEL=(1,1)
00000          *****
00000          JOB = &OJOBNAME.
00000          TIME = &CTIME.
000009 //*****
000010 //XCPHLQ SET XCPHLQ='SYSPTS.CPEXPRT'
000011 //XCPHLQ1 SET XCPHLQ1='UGZALTT.SXS.CPEXPRT'
000012 //XCPHLQ2 SET XCPHLQ2='UGZALTT.SXS8.CPEXPRT'
000013 //XCPOUT SET CPXOUT='UGZALTT.&OJOBNAME..T&$JMTM1AT..TEMPW'
000014 //MXGHLQ SET MSGHLQ='SYSPTS.MSG'
000015 //ITSVHLQ SET ITSVHLQ='UGZALTT.SXS8.ITSV'
000016 //*****
000017 //DASCPE PROC IOCP='',DASMEM='',OPTIONS=''
000018 //DASCPE EXEC SAS8,OPTIONS=&OPTIONS
000019 //SAS.CPEDASD DD UNIT=SYSDA,DATACLAS=DCSXS,SPACE=(CYL,(10,10))
000020 //SAS.SYSIN DD DISP=SHR,DSN=&XCPHLQ1..SOURCE(DASSXS)
000021 //SAS.CPXPRINT DD DISP=SHR,DSN=&XCPOUT(&DASMEM)
000022 // PEND
000023 //*
```

SmartJCL searches all operations of all jobs from TWS Application Description. This may take some time for a large number of jobs with many operations per system usage.

Simulate TWS-JCL in Editor

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DATA.JCL.HUK.JOBLIB(PSCP9158) - 01.11      Columns 00001 00072
Command ==> osjhuk      Scroll ==> CSR
***** ***** Top of Data *****
00000
00000 ----- OPC/SimJCL ----- Row 1 to 3 of 3
00000 Command ==>
00000
00000 Select line with S to start Simulation
00000 Enter Command SP to specify additional Param
00000
00000 Current Plan End Date      : 20030127  Time
00000                          YYYYMMDD
00001 Simulation Date          ==> 20030131  Time ==> 0600
00001
00001 for origin AD enter Input Arrival Date and Time below
00001 Input Arrival Date        ==> 20030131  Time ==> 0600
00001
00001
00001 Application ID  Jobname  Input Arrival  OpNo  WsId  origin
00001             Date      Time
00001 - H1PCPE91008   PSCP9158  20030127  0001  020   CPU0  CP
00001 - H1PCPE91008   PSCP9158           020   CPU0  AD
00001 - H1PCPE91008C PSCP9158           020   CPU0  AD
00002 ***** Bottom of data *****
00002
000023 //*-----
000024 //DASSY2 EXEC DASCPE,IOCP=I2064RZ3,DASMEM=DASSY2,
000025 //      OPTIONS='SYSPARM=SY2S&$JMTM1AT.S '
***** ***** Bottom of Data *****
MA  b 09/023
```

All jobs from Current Plan and all jobs from Application Description are shown in one selection list.



Simulate TWS-JCL in Editor

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DATA.JCL.HUK.JOBLIB(PSCP9158) - 01.11      Columns 00001 00072
Command ==> osjhuk      Scroll ==> CSR
***** ***** Top of Data *****
----- OPC/SimJCL ----- Row 1 to 3 of 3
                          Scroll ==> PAGE
-----
with S to start Simulation
Enter a command and SP to specify additional Parameters
Current Plan End date   : 20030127   Time   : 2400
                        YYYMMDD      HHMM
Simulation Date        ==> 20030131   Time ==> 0600
for origin AD enter Input Arrival Date and Time below
Input Arrival Date     ==> 20030131   Time ==> 0600
Application ID         Jobname      Input Arrival   OpNo  WsId  origin
                        D            Time
-----
- H1PCPE91008          PSCP9158  20030127 0001  020  CPU0  CP
- H1PCPE91008          PSCP9158                020  CPU0  AD
- H1PCPE91008C         PSCP9158                020  CPU0  AD
***** ***** data *****
//*-----
//DASSY2 EXEC DASSY
//      OPTIONS=
***** ***** Bottom of Data *****
MA b 09/023
```

Enter Simulation Date and time

Simulation Date ==> 20030131 Time ==> 0600
for origin AD enter Input Arrival Date and Time below
Input Arrival Date ==> 20030131 Time ==> 0600

Enter an IA-Date and an IA-Time. The IA is necessary if origin is AD

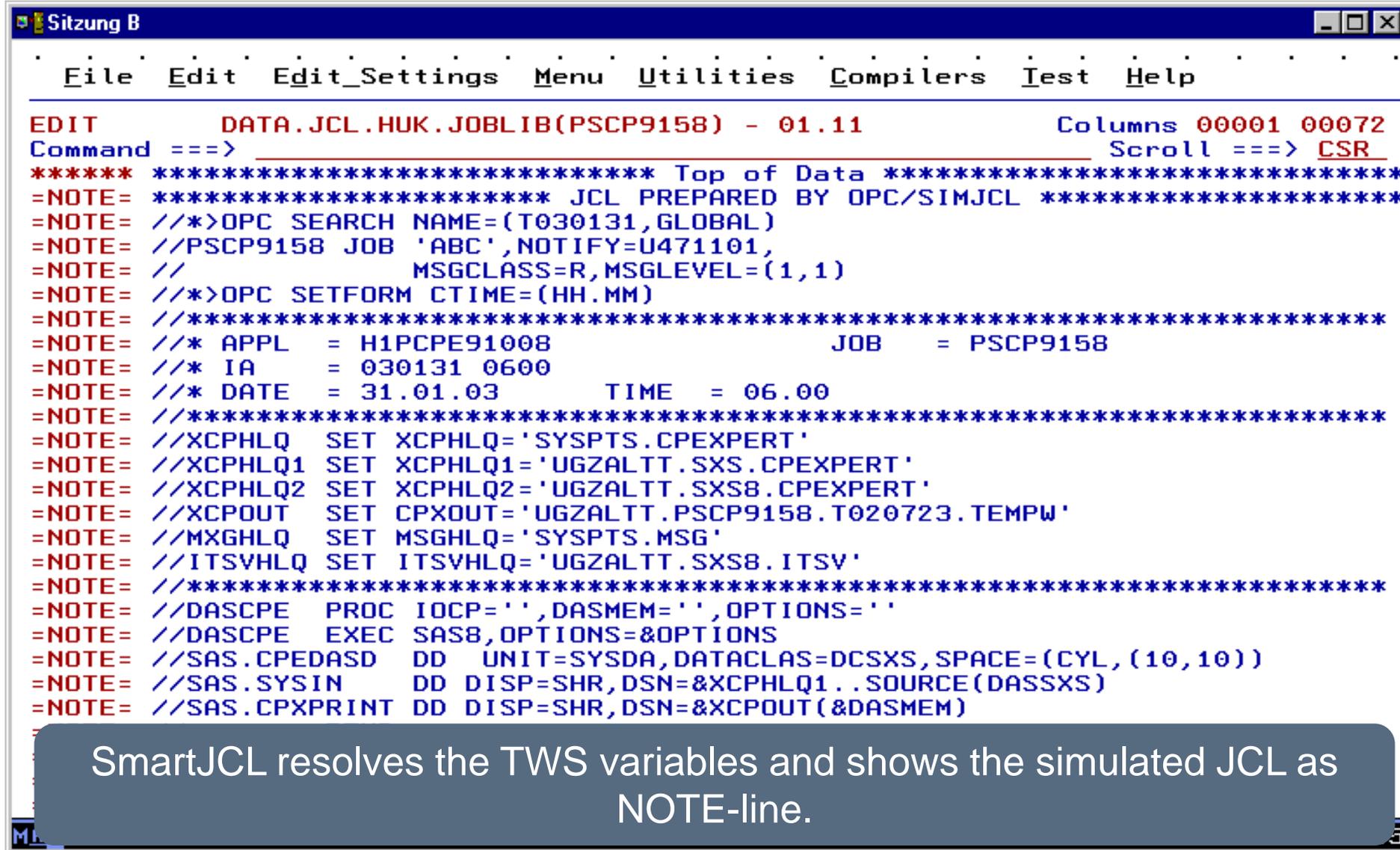
Simulate TWS-JCL in Editor

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DATA.JCL.HUK.JOBLIB(PSCP9158) - 01.11      Columns 00001 00072
Command ==> osjhuk      Scroll ==> CSR
***** ***** Top of Data *****
00000
00000 ----- OPC/SimJCL ----- Row 1 to 3 of 3
00000 Command ==> _____ Scroll ==> PAGE
00000
00000 Select line with S to start Simulation
00000 Enter Command SP to specify additional Parameters
00000
00000 Current Plan End Date      : 20030127  Time      : 2400
00000                        YYYMMDD      HHMM
00000
00000 Input Arrival Date      ==> 20030131  Time ==> 0600
00000
00000 For origin AD enter Input Arrival Date and Time below
00000 Input Arrival Date      ==> 20030131  Time ==> 0600
00000
00001 Application ID  Jobname  Input Arrival  OpNo  WsId  origin
00001           Date      Time
00001 _ H1PCPE91008   PSCP9158 20030127 0001 020  CPU0 CP
00001 s H1PCPE91008   PSCP9158      020  CPU0 AD
00001 _ H1PCPE91008C  PSCP9158      020  CPU0 AD
00002 ***** Bottom of Data *****
00002
000023 //*-----
000024 //DASSY2 EXEC DASCPE,IOCP=I2064RZ3,DASMEM=DASSY2,
000025 //      OPTIONS='SYSPARM=SY2S&$JMTM1AT.S '
***** ***** Bottom of Data *****
MA b 24/012
```

Choose an operation

	Application ID	Jobname	Input Arrival Date	Time	OpNo	WsId	origin
	H1PCPE91008	PSCP9158	20030127	0001	020	CPU0	CP
s	H1PCPE91008	PSCP9158			020	CPU0	AD
	H1PCPE91008C	PSCP9158			020	CPU0	AD

Simulate TWS-JCL in Editor



```
EDIT          DATA.JCL.HUK.JOBLIB(PSCP9158) - 01.11          Columns 00001 00072
Command ==> _____ Scroll ==> CSR
***** ***** Top of Data *****
=NOTE= ***** JCL PREPARED BY OPC/SIMJCL *****
=NOTE= //*>OPC SEARCH NAME=(T030131,GLOBAL)
=NOTE= //PSCP9158 JOB 'ABC',NOTIFY=U471101,
=NOTE= //          MSGCLASS=R,MSGLEVEL=(1,1)
=NOTE= //*>OPC SETFORM CTIME=(HH.MM)
=NOTE= //*****
=NOTE= //* APPL   = H1PCPE91008          JOB    = PSCP9158
=NOTE= //* IA    = 030131 0600
=NOTE= //* DATE  = 31.01.03          TIME   = 06.00
=NOTE= //*****
=NOTE= //XCPHLQ  SET XCPHLQ='SYSPTS.CPEXPRT'
=NOTE= //XCPHLQ1 SET XCPHLQ1='UGZALTT.SXS.CPEXPRT'
=NOTE= //XCPHLQ2 SET XCPHLQ2='UGZALTT.SXS8.CPEXPRT'
=NOTE= //XCPOUT  SET CPXOUT='UGZALTT.PSCP9158.T020723.TEMPW'
=NOTE= //MXGHLQ  SET MSGHLQ='SYSPTS.MSG'
=NOTE= //ITSVHLQ  SET ITSVHLQ='UGZALTT.SXS8.ITSV'
=NOTE= //*****
=NOTE= //DASCPE  PROC IOCP='',DASMEM='',OPTIONS=''
=NOTE= //DASCPE  EXEC SAS8,OPTIONS=&OPTIONS
=NOTE= //SAS.CPEDASD DD UNIT=SYSDA,DATACLAS=DCSXS,SPACE=(CYL,(10,10))
=NOTE= //SAS.SYSIN DD DISP=SHR,DSN=&XCPHLQ1..SOURCE(DASSXS)
=NOTE= //SAS.CPXPRINT DD DISP=SHR,DSN=&XCPOUT(&DASMEM)
```

SmartJCL resolves the TWS variables and shows the simulated JCL as NOTE-line.

Simulate changed JCL in Editor

- Following procedure is necessary if:
 - the JCL is changed in Editor but not saved
 - the JCL does not stand in any TWS-Job Library
- Note: In both cases you have to inform SmartJCL explicit that the JCL should be used from editor for simulation.

Simulate changed JCL in Editor

```
EDIT      DATA_ICL_HUK.JOBLIB(PSCP9158) - 01.11      Columns 00001 00072
Command ==> osj      Scroll ==> CSR
*****      ***** Top of Data *****
000001 // *%OPC SEARCH NAME=(T&OYY.&OMM.&ODD.,GLOBAL)
000002 // PSCP9158 JOB 'ABC',NOTIFY=&NOTUSER.,
000003 //          MSGCLASS=&OUTR.,MSGLEVEL=(1,1)
          *%OPC SETFORM CTIME=(HH.MM)
*****      *****
* APPL   = &OADID.          JOB   = &OJOBNAME.
000007 // * IA       = &OYMD1. &OHMM.
000008 // * DATE    = &CDD..&CMM..&CYY.      TIME = &CTIME.
000009 // *****
000010 //XCPHLQ  SET XCPHLQ='SYSPTS.CPEXPRT'
000011 //XCPHLQ1 SET XCPHLQ1='UGZALTT.SXS.CPEXPRT'
000012 //XCPHLQ2 SET XCPHLQ2='UGZALTT.SXS8.CPEXPRT'
000013 //XCPOUT  SET CPXOUT='UGZALTT.&OJOBNAME..T&$JMTM1AT..TEMPW'
000014 //MXGHLQ  SET MSGHLQ='SYSPTS.MSG'
000015 //ITSVHLQ  SET ITSVHLQ='UGZALTT.SXS8.ITSV'
000016 // *****
000017 //DASCPE   PROC IOCP='',DASMEM='',OPTIONS=''
000018 //DASCPE   EXEC SAS8,OPTIONS=&OPTIONS
000019 //SAS.CPEDASD DD UNIT=SYSDA,DATACLAS=DCSXS,SPACE=(CYL,(10,10))
000020 //SAS.SYSIN  DD DISP=SHR,DSN=&XCPHLQ1..SOURCE(DASSXS)
000021 //SAS.CPXPRINT DD DISP=SHR,DSN=&XCPOUT(&DASMEM)
000022 //          PEND
000023 // *-----
000024 //DASSY2    EXEC DASCPE,IOCP=I2064RZ3,DASMEM=DASSY2,
000025 //          OPTIONS='SYSPARM=SY2S&$JMTM1AT.S '
*****      ***** Bottom of Data *****
. . . . .
MA  b      04/018
```

Enter OSJ ...

Simulate changed JCL in Editor

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DATA.JCL.HUK.JOBLIB(PSCP9158) - 01.11      Columns 00001 00072
Command ==> osjhuk      Scroll ==> CSR
***** ***** Top of Data *****
00000
00000      OPC/SimJCL      HORIZONT      L)
00000
00000
00000
00000      Jobname found in OPC-CP
00000
00000      Additional search in OPC-AD?
00000      Yes or No? Y
00000
00001
00001
000012 //XCPHLQ2 SET XCPHLQ2='UGZALTT.SXS8.CPEXPRT'
000013 //XCPOUT SET CPXOUT='UGZALTT.&OJOBNAME..T&$JMTM1AT..TEMPW'
000014 //MXGHLQ SET MSGHLQ='SYSPTS.MSG'
000015 //ITSVHLQ SET ITSVHLQ='UGZALTT.SXS8.ITSV'
000016 //*****
000017 //DASCPE PROC IOCP='',DASMEM='',OPTIONS=''
000018 //DASCPE EXEC SAS8,OPTIONS=&OPTIONS
000019 //SAS.CPEDASD DD UNIT=SYSDA,DATACLAS=DCSXS,SPACE=(CYL,(10,10))
000020 //SAS.SYSIN DD DISP=SHR,DSN=&XCPHLQ1..SOURCE(DASSXS)
*****
.
```

The Jobname is first searched in TWS Current Plan. A message appears if the job is found or not. You will be asked if the job should be searched additionally in TWS Application Description.

Simulate changed JCL in Editor

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DATA.JCL.HUK.JOBLIB(PSCP9158) - 01.11      Columns 00001 00072
Command ==> osjhuk      Scroll ==> CSR
***** ***** Top of Data *****
00000
00000 ----- OPC/SimJCL ----- Row 1 to 3 of 3
00000 Command ==> _____ Scroll ==> PAGE
00000
00000 Select line with S to start Simulation
00000 Enter Command SP to specify additional Param
00000
00000 Current Plan End Date      : 20030127  Time
00000                        YYYMMDD
00001 Simulation Date          ==> 20030131  Time ==
00001
00001 for origin AD enter Input Arrival Date and Time bet
00001 Input Arrival Date      ==> 20030131  Time ==> 0600
00001
00001
00001 Application ID  Jobname  Input Arrival  OpNo  WsId  origin
00001            Date      Time
00001 - H1PCPE91008   PSCP9158  20030127  0001  020   CPU0  CP
00001 - H1PCPE91008   PSCP9158           020   CPU0  AD
00001 - H1PCPE91008C  PSCP9158           020   CPU0  AD
00002 ***** Bottom of data *****
00002
000023 //*-----
000024 //DASSY2 EXEC DASCPE,IOCP=I2064RZ3,DASMEM=DASSY2,
000025 //      OPTIONS='SYSPARM=SY2S&$JMTM1AT.S '
***** ***** Bottom of Data *****
MA  b 09/023
```

All jobs from Current Plan and all jobs from Application Description are shown in one selection list.



Simulate changed JCL in Editor

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DATA.JCL.HUK.JOBLIB(PSCP9158) - 01.11      Columns 00001 00072
Command ==> osjhuk      Scroll ==> CSR
***** ***** Top of Data *****
00000
00000 ----- OPC/SimJCL ----- Row 1 to 3 of 3
00000 Command ==> _____ Scroll ==> PAGE
00000
00000 Select line with S to start Simulation
00000 Enter Command SP to specify additional Parameters
00000
00000 Current Plan End Date   : 20030127   Time   : 2400
00000
00001 Simulation Date         ==> 20030131   Time ==> 0600
00001
00001 for origin AD enter Input Arrival Date and Time below
00001 Input Arrival Date     ==> 20030131   Time ==> 0600
00001
00001
Application ID  Jobname  Input Arrival  OpNo  WsId  origin
Date          Time
-----
00001 - H1PCPE91008  PSCP  20030127 0001  020  CPU0  CP
00001 - H1PCPE91008  PSCP  20030127 0001  020  CPU0  AD
00001 - H1PCPE91008C PSCP  20030127 0001  020  CPU0  AD
00002 *****
00002
000023 //*-----
000024 //DASSY2 E
000025 //
OPTIONS='SYSPARM=SYZS&$JMTM1AT.S'
***** ***** Bottom of Data *****
MA b 09/023
```

Enter Simulation Date and time

Simulation Date ==> 20030131 Time ==> 0600
for origin AD enter Input Arrival Date and Time below
Input Arrival Date ==> 20030131 Time ==> 0600

Enter an IA-Date and an IA-Time. The IA is necessary if origin is AD

Simulate changed JCL in Editor

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT          DATA.JCL.HUK.JOBLIB(PSCP9158) - 01.11          Columns 00001 00072
Command ==> osjhuk          Scroll ==> CSR
***** ***** Top of Data *****
00000
00000
00000 ----- OPC/SimJCL ----- Row 1 to 3 of 3
00000 Command ==> sp
00000          Scroll ==> PAGE
00000 Select line with S to start Simulation
00000 Enter Command SP to specify additional Parameters
00000
00000 Current Plan End Date      : 20030127   Time      : 2400
00000                          YYYMMDD      HHMM
00000 Simulation Date           ==> 20030131   Time ==> 0600
00000
00000 for origin AD enter Input Arrival Date and Time below
00000 Input Arrival Date        ==> 20030131   Time ==> 0600
00000
00000
00000 Application ID  Jobname  Input Arrival  OpNo  WsId  origin
00000              Date      Time
00000 --- H1PCPE91008  PSCP9158  20030127  0001  020  CPU0  CP
00000 --- H1PCPE91008  PSCP9158                020  CPU0  AD
00000 --- H1PCPE91008C PSCP9158                020  CPU0  AD
00000 ***** Bottom of data *****
00000
0000023 //*-----
0000024 //DASSY2 EXEC DASCPE,IOCP=I2064RZ3,DASMEM=DASSY2,
0000025 //          OPTIONS='SYSPARM=SY2S&$JMTM1AT.S '
***** ***** Bottom of Data *****
. . . . .
MA b 08/025
```

Enter SP ...

Simulate changed JCL in Editor

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT          DATA.JCL.HUK.JOBLIB(PSCP9158) - 01.11          Columns 00001 00072
Command ==> osjhuk          Scroll ==> CSR
***** ***** Top of Data *****
00000
00000 ----- OPC/SimJCL ----- Row 1 to 3 of 3
00000
00000 ----- OPC/SimJCL -----
00000 Command ==> _____
00000
00000 Use JCL from the editor          ==> N          (Y/N)
00000 If "Y", JCL will be inserted temporary in JS-Dataset,
00000 if "N", JCL will be taken from JS-Dataset and EQQJBLIB
00001 Store prepared JCL in JS-File  ==> N          (Y/N)
00001 Simulation Type                ==> FULL_____ (FULL/PARTIAL)
00001 User specific Variable Table   ==> _____
00001
00001 Press PF3 to quit and save data
00001
00001 _ H1PCPE91008          PSCP9158          020 CPU0 AD
00001 _ H1PCPE91008C        PSCP9158          020 CPU0 AD
00002 ***** Bottom *****
00002
000023 //*-----
000024 //DASSY2 EXEC DASCPE,IOCP=I2064RZ3,DASMEM=DASSY2,
000025 //          OPTIONS='SYSPARM=SY2S&$JMTM1AT.S '
***** ***** Bottom of Data *****
. . . . .
MA b 12/047
```

Use JCL from the editor ==> N (Y/N)
If "Y", JCL will be inserted temporary in JS-Dataset,
if "N", JCL will be taken from JS-Dataset and EQQJBLIB
Store prepared JCL in JS-File ==> N (Y/N)
Simulation Type ==> FULL_____ (FULL/PARTIAL)
User specific Variable Table ==> _____

A menu opens with several input fields

Simulate changed JCL in Editor

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT          DATA.JCL.HUK.JOBLIB(PSCP9158) - 01.11          Columns 00001 00072
Command ==> osjhuk          Scroll ==> CSR
***** ***** Top of Data *****
00000
00000 ----- OPC/SimJCL ----- Row 1 to 3 of 3
00000
00000 ----- OPC/SimJCL -----
00000 Command ==> _____
00000 Use JCL from the editor ==> Y (Y/N)
00000 If "Y", JCL will be inserted temporarily in JS-Dataset,
00000 if "N", JCL will be taken from JS-Dataset and EQQJBLIB
00001 Store prepared JCL in JS-File ==> N (Y/N)
00001 Simulation Type ==> FULL (FULL/PARTIAL)
00001 User specific Variable Table ==> _____
00001
00001 Press PF3 to quit and save data
00001
00001 _ H1PCPE91008 PSCP9158
00001 _ H1PCPE91008C PSCP9158
00002 ***** Bottom of Data *****
00002
000023 //*-----
000024 //DASSY2 EXEC DASCPE,IOCP=I2064RZ3,DASMEM=DASSY2,
000025 //          OPTIONS='SYSPARM=SY2S&$JMTM1AT.S '
***** ***** Bottom of Data *****
. . . . .
MA b 12/047
```

If you want to simulate the JCL from the editor, type here "Y". With "F3" you exit this menu.

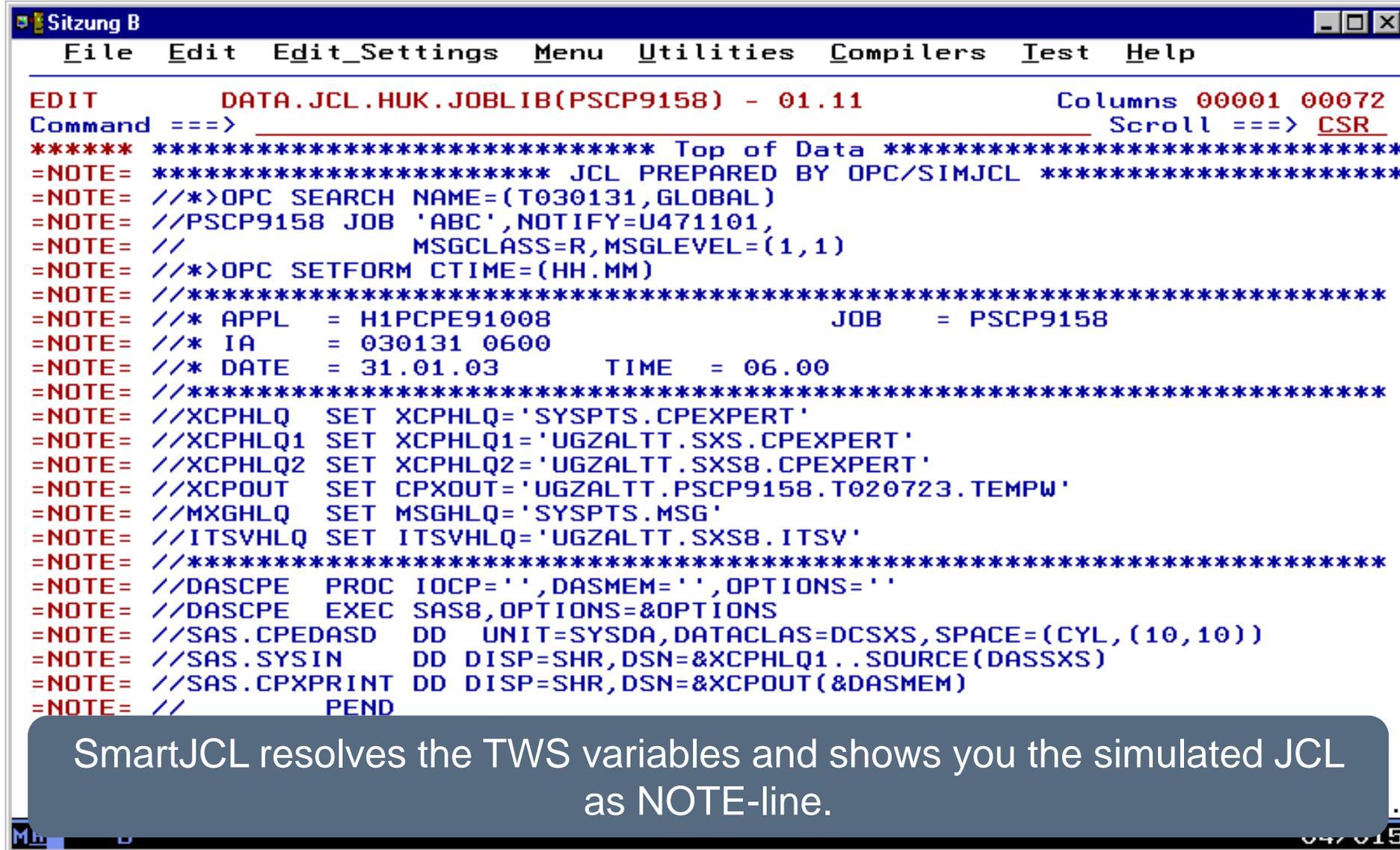
Simulate changed JCL in Editor

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DATA.JCL.HUK.JOBLIB(PSCP9158) - 01.11      Columns 00001 00072
Command ==> osjhuk      Scroll ==> CSR
***** ***** Top of Data *****
00000
00000 ----- OPC/SimJCL ----- Row 1 to 3 of 3
00000 Command ==> _____ Scroll ==> PAGE
00000
00000 Select line with S to start Simulation
00000 Enter Command SP to specify additional Parameters
00000
00000          t Plan End Date      : 20030127   Time      : 2400
00000                               YYYYMMDD
00000          tion Date            ==> 20030131   Time ==> 0600
00000
00000 For origin AD enter Input Arrival Date and Time below
00000 Input Arrival Date            ==> 20030131   Time ==> 0600
00000
00000 Application ID Jobname Input Arrival OpNo WsId origin
00000 Date Time
00000 - H1PCPE91008 PSCP9158 20030127 0001 020 CPU0 CP
00000 $ H1PCPE91008 PSCP9158 020 CPU0 AD
00000 - H1PCPE91008C PSCP9158 020 CPU0 AD
00002 ***** Bottom of data *****
00002
000023 //*-----
000024 //DASSY2 EXEC DASCPE,I0CP=I2064RZ3,DASMEM=DASSY2,
000025 // OPTIONS='SYSPARM=SY2S&$JMTM1AT.S '
***** ***** Bottom of Data *****
. . . . .
MA b 23/012
```

Choose one operation

Application ID	Jobname	Input Arrival Date	OpNo	WsId	origin
H1PCPE91008	PSCP9158	20030127 0001	020	CPU0	CP
\$ H1PCPE91008	PSCP9158		020	CPU0	AD
H1PCPE91008C	PSCP9158		020	CPU0	AD

Simulate changed JCL in Editor



```
EDIT          DATA.JCL.HUK.JOBLIB(PSCP9158) - 01.11          Columns 00001 00072
Command ==> _____ Scroll ==> CSR
***** Top of Data *****
=NOTE= ***** JCL PREPARED BY OPC/SIMJCL *****
=NOTE= /*>OPC SEARCH NAME=(T030131,GLOBAL)
=NOTE= /*PSCP9158 JOB 'ABC',NOTIFY=U471101,
=NOTE= //          MSGCLASS=R,MSGLEVEL=(1,1)
=NOTE= /*>OPC SETFORM CTIME=(HH.MM)
=NOTE= /******
=NOTE= /** APPL   = H1PCPE91008          JOB   = PSCP9158
=NOTE= /** IA    = 030131 0600
=NOTE= /** DATE  = 31.01.03          TIME   = 06.00
=NOTE= /******
=NOTE= //XCPHLQ  SET XCPHLQ='SYSPTS.CPEXPRT'
=NOTE= //XCPHLQ1 SET XCPHLQ1='UGZALTT.SXS.CPEXPRT'
=NOTE= //XCPHLQ2 SET XCPHLQ2='UGZALTT.SXS8.CPEXPRT'
=NOTE= //XCPOUT  SET CPXOUT='UGZALTT.PSCP9158.T020723.TEMPW'
=NOTE= //MXGHLQ  SET MSGHLQ='SYSPTS.MSG'
=NOTE= //ITSVHLQ  SET ITSVHLQ='UGZALTT.SXS8.ITSV'
=NOTE= /******
=NOTE= //DASCP   PROC IOCP='',DASMEM='',OPTIONS=''
=NOTE= //DASCP   EXEC SAS8,OPTIONS=&OPTIONS
=NOTE= //SAS.CPEDASD DD UNIT=SYSDA,DATACLAS=DCSXS,SPACE=(CYL,(10,10))
=NOTE= //SAS.SYSIN  DD DISP=SHR,DSN=&XCPHLQ1..SOURCE(DASSXS)
=NOTE= //SAS.CPXPRINT DD DISP=SHR,DSN=&XCPOUT(&DASMEM)
=NOTE= //          PEND
```

SmartJCL resolves the TWS variables and shows you the simulated JCL as NOTE-line.

Simulate changed JCL in Editor

- Technical procedure
 - JCL from Editor is copied to JS file
 - A possibly existing JCL with same key data in TWS-JS file will be cached from SmartJCL and the “edited JCL” is inserted into the JS file
 - the simulator will be executed
 - the “edited JCL” will be deleted from the JS file
 - a cached JCL will be copied back into the TWS-JS file

Simulate changed JCL in Editor

- Important note
 - If you edit the JCL directly in TWS Current Plan dialog and simulate the changed JCL, **command SP doesn't work** because TWS blocks his own JCL against modifications. Following message appears in SmartJCL-Dialog “OSJM214E INSERT OF JCL TO JS-DATASET NOT DONE”
 - You get in your own User-Session in DD statement in EQQMLOG following message:

```
EQQY722W DELETE RECORD WITH KEY adid ia NOT DONE, IS BEING  
UPDATED.
```

```
EQQY722I RESOURCE IS JS
```

```
EQQY721W CONCURRENT UPDATE (INSERT) OF RECORD WITH KEY adid ia,  
UPDATE PERFORMED
```

Simulate changed JCL in Editor

- Important note (continuation)
 - If you want to simulate the JCL in TWS Current Plan dialog, please save the JCL in the JS file by abandon the TWS-JCL Editor once and afterwards edit the JCL again.
 - Don't use command SP if you simulate

Simulate and Test

- With command OSJ JCK you can simulate and check in one run

Simulate and Test

```
EDIT          DATA_ICL_HUK.JOBLIB(PSCP9159) - 01.00          Columns 00001 00072
Command ==> osi jck          Scroll ==> CSR
*****          ***** Top of Data *****
000001 // *%OPC SCAN
000002 // *%OPC SETFORM OCDATE=(DYMMDD)
000003 // *%OPC SETVAR TDAY=(OCDATE + 1) NEXT WORKDAY */
000004 // *%OPC SETFORM OCTIME=(HHMM)
000005 // &OJOBNAME. JOB MSGLEVEL=(1,1)
000006 // *****
000007 // * APPL = ?130ADID.          JOB = ?440JOBNAME.
000008 // * IA = ?130YMD1. ?200HHMM. TDAY = ?44TDAY.
000009 // * DATE = ?130OCDATE.          TIME = ?44OCTIME.
000010 // *****
000011 //STEP1 EXEC PGM=MYPGM,PARM='/&TDAY'
000012 //SYSPRINT DD SYSOUT=*
000013 //IN DD DISP=SHR,DSN=P390A.OCB.CNTL
000014 //OUT DD DSN=P390I.OCB.CNTL.%OCDATE.%OCTIME.,DISP=(,CATLG),
000015 //          LRECL=80,RECFM=FB,UNIT=SYSDA,
000016 //          SPACE=(TRK,(15,15),RLSE)
*****          ***** Bottom of Data *****
```

Enter JCK ...

Simulate and Test

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DATA.JCL.HUK.JOBLIB(PSCP9159) - 01.00      Columns 00001 00072
Command ==> osjhuk jck                               Scroll ==> CSR
***** ***** Top of Data *****
00000
00000      OPC/SimJCL                                HORIZONT
00000
00000
00000
00000
00000
00000
00000
00000
00000
00000
00001
00001
000012 //SYSPRINT DD SYSOUT=*
000013 //IN      DD DISP=SHR,DSN=P390A.OCB.CNTL
000014 //OUT     DD DSN=P390I.OCB.CNTL.%OCDATE..%OCTIME.,DISP=(,CATLG),
000015 //          LRECL=80,RECFM=FB,UNIT=SYSDA,
000016 //          SPACE=(TRK,(15,15),RLSE)
***** ***** Bottom of Data *****

/* NEXT WORKDAY */

*****
44JOBNAME.
44TDAY.
44OCTIME.
*****

Jobname not found in OPC-CP
Additional search in OPC-AD?
Yes or No? Y
```

The Jobname is first searched in TWS Current Plan. A message appears if the job is found or not. You will be asked if the job should be searched additionally in TWS Application Description.

Simulate and Test

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT      DATA.JCL.HUK.JOBLIB(PSCP9159)
Command ==> osjhuk jck
***** ***** Top
00000
00000 ----- OP
00000 Command ==> _____
00000
00000 Select line with S to start Simu
00000 Enter Command SP to specify addit
00000
00000 Current Plan End Date      : 20030127   Time      : 2400
00000                          YYYMMDD
00000 Simulation Date           ==> 20030131   Time ==> 0600
00001
00001 for origin AD enter Input Arrival Date and Time below
00001 Input Arrival Date       ==> 20030131   Time ==> 0600
00001
00001 Application ID  Jobname  Input Arrival  OpNo  WsId  origin
00001                Date    Time
00001 s H1PCPE91008C  PSCP9159   025  CPU0  AD
***** ***** Bottom of data *****

MA b 22/012
```

All jobs from Current plan (see value CP in column origin) and all jobs from Application Description (see value AD in column origin) are shown in a selection list.



Simulate and Test

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DATA.JCL.HUK.JOBLIB(PSCP9159) - 01.00      Columns 00001 00072
Command ==> osjhuk jck                               Scroll ==> CSR
***** ***** Top of Data *****
00000
00000 ----- OPC/SimJCL ----- Row 1 to 1 of 1
00000 Command ==> _____ Scroll ==> PAGE
00000
00000 Select line with S to start Simulation
00000 Enter Command SP to specify additional Parameters
00000
00000 Current Plan End Date   : 20030127   Time   : 2400
00000                      YYYMMDD      HHMM
00000 Simulation Date       ==> 20030131   Time ==> 0600
00000
00000 for origin AD enter Input Arrival Date and Time below
00000 Input Arrival Date    ==> 20030131   Time ==> 0600
00000
00000 Application ID  Job  Input Arrival  OpNo  WsId  origin
00000              Date    Time
00000 *****
00000 s H1PCPE91008C  P   20030131  0600  025  CPU0  AD
00000 *****
***** Bottom of data *****
```

Enter Simulation date and time

Enter an IA-Date and an IA-Time. The IA is necessary if origin is AD

Simulate and Test

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DATA.JCL.HUK.JOBLIB(PSCP9159) - 01.00      Columns 00001 00072
Command ==> osjhuk jck                               Scroll ==> CSR
***** ***** Top of Data *****
00000
00000 ----- OPC/SimJCL ----- Row 1 to 1 of 1
00000 Command ==> _____ Scroll ==> PAGE
00000
00000 Select line with S to start Simulation
00000 Enter Command SP to specify additional Parameters
00000
00000 Present Plan End Date      : 20030127   Time      : 2400
00000                               YYYYMMDD           HHMM
00000 Simulation Date            ==> 20030131   Time ==> 0600
00000
00000 for origin AD enter Input Arrival Date and Time below
00000 Input Arrival Date         ==> 20030131   Time ==> 0600
00000
00000 Application ID  Jobname  Input Arrival  OpNo  WsId  origin
00000 Date           Time
00000 *****
00000 s H1PCPE91008C  PSCP9159                025  CPU0  AD
00000 *****
***** Bottom of Data *****
```

Choose an operation

s H1PCPE91008C PSCP9159 025 CPU0 AD

Simulate and Test

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DATA.JCL.HUK.JOBLIB(PSCP9159) - 01.00      Columns 00001 00072
Command ==> _____ Scroll ==> CSR
***** Top of Data *****
=NOTE= ***** JCL PREPARED BY OPC/SIMJCL *****
==MSG> MSG.NO.  ERROR MESSAGE
-----
==MSG> JCK0440E PROGRAM MYPGM      NOT FOUND ON SEARCH PATH
==MSG> JCK0290E THE FIRST CHARACTER 0 OF A QUALIFIER IS INVALID
==MSG> JCK9904E DSN: P390I.OCB.CNTL.D030131.0600
=NOTE= //*%OPC SCAN
=NOTE= /*>OPC SETFORM OCDATE=(DYMMDD)
=NOTE= /*>OPC SETVAR  TDAY=(OCDATE + 1WD)          /* NEXT WORKDAY */
=NOTE= /*>OPC SETFORM OCTIME=(HHMM)
=NOTE= //PSCP9159 JOB MSGLEVEL=(1,1)
=NOTE= //*****
=NOTE= /* APPL   = H1PCPE91008C      JOB      = PSCP9159
=NOTE= /* IA     = 030131 0600      TDAY     = D030203
=NOTE= /* DATE   = D030131          TIME     = 0600
=NOTE= //*****
=NOTE= //STEP1   EXEC PGM=MYPGM,PARM='/D030203'
==MSG> JCK0440E PROGRAM MYPGM      NOT FOUND ON SEARCH PATH
=NOTE= //SYSPRINT DD SYSOUT=*
=NOTE= //IN      DD DISP=SHR,DSN=P390A.OCB.CNTL
=NOTE= //OUT     DD DSN=P390I.OCB.CNTL.D030131.0600,DISP=(,CATLG),
=NOTE= //              LRECL=80,RECFM=FB,UNIT=SYSDA,
```

SmartJCL resolves the TWS variables and shows you the simulated JCL as well as error messages as NOTE-line.

Simulate and Test

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT          DATA.JCL.HUK.JOBLIB(PSCP9159) - 01.00          Columns 00001 00072
Command ==> _____ Scroll ==> CSR
***** ***** Top of Data *****
=NOTE= ***** JCL PREPARED BY OPC/SIMJCL *****
==MSG> MSG.NO.  ERROR MESSAGE
==MSG> -----
==MSG> JCK0440E PROGRAM MYPGM      NOT FOUND ON SEARCH PATH
==MSG> JCK0290E THE FIRST CHARACTER 0 OF A QUALIFIER IS INVALID
==MSG> JCK9904E DSN: P390I.OCB.CNTL.D030131.0600
=NOTE= //*%OPC SCAN
=NOTE= //*>OPC SETFORM OCDATE=(DYMMDD)
=NOTE= //*>OPC SETVAR  TDAY=(OCDATE + 1)
=NOTE= //*>OPC SETFORM OCTIME=(HHMM)
=NOTE= //PSCP9159 JOB MSGLEVEL=(1,1)
=NOTE= //*****
=NOTE= //* APPL   = H1PCPE91008C      JOB
=NOTE= //* IA     = 030131 0600      TDAY
=NOTE= //* DATE   = D030131          TIME
=NOTE= //*****
=NOTE= //STEP1   EXEC PGM=MYPGM,PARM='/D030203'
==MSG> JCK0440E PROGRAM MYPGM      NOT FOUND ON SEARCH PATH
=NOTE= //SYSPRINT DD SYSOUT=*
=NOTE= //IN      DD DISP=SHR,DSN=P390A.OCB.CNTL
=NOTE= //OUT     DD DSN=P390I.OCB.CNTL.D030131.0600,DISP=(,CATLG),
=NOTE= //              LRECL=80,RECFM=FB,UNIT=SYSDA,
=NOTE= //              SPACE=(TRK,(15,15),RLSE)
==MSG> JCK0290E THE FIRST CHARACTER 0 OF A QUALIFIER IS INVALID
==MSG> JCK9904E DSN: P390I.OCB.CNTL.D030131.0600
=NOTE= ***** END OF PREPARED JCL *****
MA  b                                     04/015
```

In this case the TWS variable OCTIME will be replaced with value 0600. The file name is checked for validity and SmartJCL displays that file qualifier 0600 is invalid.

//OUT DD DSN=P390I.OCB.CNTL.D030131.0600,DISP=(,CATLG),
// LRECL=80,RECFM=FB,UNIT=SYSDA,
// SPACE=(TRK,(15,15),RLSE)

Simulate and Save JCL of Editor

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT          DATA JCL .HUK.JOBLIB(PSCP9158) - 01.11          Columns 00001 00072
Command = => osj          Scroll ==> CSR
***** ** Top of Data *****
000001 // *%OPC SEARCH NAME=(T&OYY.&OMM.&ODD.,GLOBAL)
000002 // PSCP9158 JOB 'ABC',NOTIFY=&NOTUSER.,
000003 //          MSGCLASS=&OUTR.,MSGLEVEL=(1,1)
// *%OPC SETFORM CTIME=(HH.MM)
// *****
/* APPL = &OADID.          JOB = &OJOBNAME.
000007 // * IA = &OYMD1. &OHMM.
000008 // * DATE = &CDD.&CMM.&CYY.          TIME = &CTIME.
000009 // *****
000010 //XCPHLQ SET XCPHLQ='SYSPTS.CPEXPERT'
000011 //XCPHLQ1 SET XCPHLQ1='UGZALTT.SXS.CPEXPERT'
000012 //XCPHLQ2 SET XCPHLQ2='UGZALTT.SXS8.CPEXPERT'
000013 //XCPOUT SET CPXOUT='UGZALTT.&OJOBNAME..T&$JMTM1AT..TEMPW'
000014 //MXGHLQ SET MSGHLQ='SYSPTS.MSG'
000015 //ITSVHLQ SET ITSVHLQ='UGZALTT.SXS8.ITSV'
000016 // *****
000017 //DASCPE PROC IOCP='',DASMEM='',OPTIONS=''
000018 //DASCPE EXEC SAS8,OPTIONS=&OPTIONS
000019 //SAS.CPEDASD DD UNIT=SYSDA,DATACLAS=DCSXS,SPACE=(CYL,(10,10))
000020 //SAS.SYSIN DD DISP=SHR,DSN=&XCPHLQ1..SOURCE(DASSXS)
000021 //SAS.CPXPRINT DD DISP=SHR,DSN=&XCPOUT(&DASMEM)
000022 //          PEND
000023 // *-----
000024 //DASSY2 EXEC DASCPE,IOCP=I2064RZ3,DASMEM=DASSY2,
000025 //          OPTIONS='SYSPARM=SY2S&$JMTM1AT.S '
***** ** Bottom of Data *****
MA b          04/018
```

Enter OSJ ...

Simulate and Save JCL of Editor

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DATA.JCL.HUK.JOBLIB(PSCP9158) - 01.11      Columns 00001 00072
Command ==> osjhuk      Scroll ==> CSR
***** ***** Top of Data *****
00000
00000      OPC/SimJCL      HORIZONT      L)
00000
00000      Jobname found in OPC-CP      1)
00000      Additional search in OPC-AD?      *****
00000      Yes or No? Y      &OJOBNAME.
00000
00000      &CTIME.
00000      *****
00001      .
00001
000012 //XCPHLQ2 SET XCPHLQ2='UGZALTT.SXS8.CPEXPRT'
000013 //XCPOUT SET CPXOUT='UGZALTT.&OJOBNAME..T&$JMTM1AT..TEMPW'
000014 //MXGHLQ SET MSGHLQ='SYSPTS.MSG'
000015 //ITSVHLQ SET ITSVHLQ='UGZALTT.SXS8.ITSV'
000016 //*****
000017 //DASCPE PROC IOCP='',DASMEM='',OPTIONS=''
000018 //DASCPE EXEC SAS8,OPTIONS=&OPTIONS
000019 //SAS.CPEDASD DD UNIT=SYSDA,DATACLAS=DCSXS,SPACE=(CYL,(10,10))
000020 //SAS.SYSIN DD DISP=SHR,DSN=&XCPHLQ1..SOURCE(DASSXS)
MA b 13/032
```

The Jobname is first searched in TWS Current Plan. A message appears if the job is found or not. You will be asked if the job should be searched additionally in TWS Application Description.

Simulate and Save JCL of Editor

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT DATA.JCL.HUK.JOBLIB(PSCP9158) - 01.11 Columns 00001 00072
Command ==> osjhuk
*****
00000
00000
00000 Command ==>
00000
00000 Select line with S to start Si
00000 Enter Command SP to specify ad
00000
00000 Current Plan End Date : 2003
00000 YYYMMDD HHMM
00001 Simulation Date ==> 20030131 Time ==> 0600
00001
00001 for origin AD enter Input Arrival Date and Time below
00001 Input Arrival Date ==> 20030131 Time ==> 0600
00001
Application ID Jobname Input Arrival OpNo WsId origin
Date Time
00001 - H1PCPE91008 PSCP9158 20030127 0001 020 CPU0 CP
00001 - H1PCPE91008 PSCP9158 020 CPU0 AD
00001 - H1PCPE91008C PSCP9158 020 CPU0 AD
00002 ***** Bottom of data *****
00002
000023 //*-----
000024 //DASSY2 EXEC DASCPE,IOCP=I2064RZ3,DASMEM=DASSY2,
000025 // OPTIONS='SYSPARM=SY2S&$JMTM1AT.S '
*****
09/023
```

All jobs from Current Plan (see value CP in column origin) and all jobs from the Application Description (see value AD in column origin) are shown in one selection list.



Simulate and Save JCL of Editor

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DATA.JCL.HUK.JOBLIB(PSCP9158) - 01.11      Columns 00001 00072
Command ==> osjhuk      Scroll ==> CSR
***** ***** Top of Data *****
00000
00000 ----- OPC/SimJCL ----- Row 1 to 3 of 3
00000 Command ==> _____ Scroll ==> PAGE
00000
00000 Select line with S to start Simulation
00000 Enter Command SP to specify additional Parameter
00000
00000 Current Plan End Date   : 20030127   Time   : 0600
00000                      YYYMMDD      HMM
00000
00001 Simulation Date       ==> 20030131   Time ==> 0600
00001
00001 for origin AD enter Input Arrival Date and Time below
00001 Input Arrival Date    ==> 20030131   Time ==> 0600
00001
00001
00001 Application ID  Jobname  Input Arrival  OpNo  WsId  origin
00001             e      Time
00001 - H1PCPE91008  PSCP9  0127 0001 020  CPU0 CP
00001 - H1PCPE91008  PSCP9  020  CPU0 CP
00001 - H1PCPE91008C
00002 *****
00002
000023 //*-----
000024 //DASSY2 EXEC DASCPE, IOCP=I2064RZ3, DASMEN=DASSY2,
000025 //      OPTIONS='SYSPARM=SY2S&$JMTM1AT.S '
***** ***** Bottom of Data *****
MA  b 09/023
```

Enter simulation date and time

Simulation Date ==> 20030131 Time ==> 0600
for origin AD enter Input Arrival Date and Time below
Input Arrival Date ==> 20030131 Time ==> 0600

Enter an IA-Date and an IA-Time. The IA is necessary if origin is AD

Simulate and Save JCL of Editor

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT      DATA.JCL.HUK.JOBLIB(PSCP9158) - 01.11      Columns 00001 00072
Command ==> osjhuk      Scroll ==> CSR
***** ***** Top of Data *****
00000
00000
00000
00000
00000
----- OPC/SimJCL ----- Row 1 to 3 of 3
Command ==> sp      Scroll ==> PAGE
Select line with S to start Simulation
Enter Command SP to specify additional Parameters

Current Plan End Date   : 20030127   Time   : 2400
                        YYYYMMDD      HHMM
Simulation Date        ==> 20030131   Time ==> 0600

for origin AD enter Input Arrival Date and Time below
Input Arrival Date     ==> 20030131   Time ==> 0600

Application ID  Jobname  Input Arrival  OpNo  WsId  origin
                Date     Time
-----
H1PCPE91008    PSCP9158  20030127 0001  020  CPU0  CP
H1PCPE91008    PSCP9158                020  CPU0  AD
H1PCPE91008C   PSCP9158                020  CPU0  AD
***** ***** Bottom of data *****
00002
00002
000023 //*-----
000024 //DASSY2 EXEC DASCPE,IOCP=I2064RZ3,DASMEM=DASSY2,
000025 //          OPTIONS='SYSPARM=SY2S&$JMTM1AT.S '
***** ***** Bottom of Data *****
MA  b                                     08/025
```

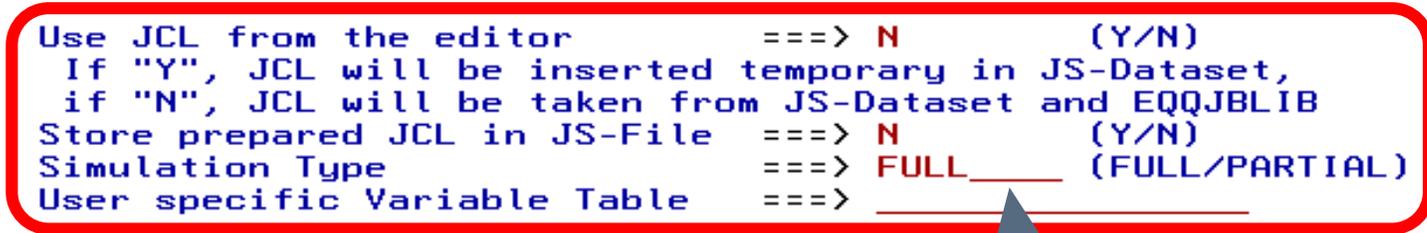
Enter SP ...

sp

Simulate and Save JCL of Editor

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT          DATA.JCL.HUK.JOBLIB(PSCP9158) - 01.11          Columns 00001 00072
Command ==> osjhuk          Scroll ==> CSR
***** ***** Top of Data *****
00000
00000 ----- OPC/SimJCL ----- Row 1 to 3 of 3
00000
00000 ----- OPC/SimJCL -----
00000 Command ==> _____
00000
00000 Use JCL from the editor          ==> N          (Y/N)
00000 If "Y", JCL will be inserted temporary in JS-Dataset,
00000 if "N", JCL will be taken from JS-Dataset and EQQJBLIB
00001 Store prepared JCL in JS-File  ==> N          (Y/N)
00001 Simulation Type                ==> FULL_____ (FULL/PARTIAL)
00001 User specific Variable Table   ==> _____
00001
00001 Press PF3 to quit and save data
00001
00001 _ H1PCPE91008          PSCP9158          PU0 AD
00001 _ H1PCPE91008C        PSCP9158          PU0 AD
00002 ***** Bottom of data *****
00002
00002
000023 //*-----
000024 //DASSY2 EXEC DASCPE,IOCP=I2064RZ3,DASMEN=DASSY2,
000025 //          OPTIONS='SYSPARM=SY2S&$JMTM1AT.S '
***** ***** Bottom of Data *****
. . . . .
MA b 12/047
```



A menu opens with several input fields

Simulate and Save JCL of Editor

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DATA.JCL.HUK.JOBLIB(PSCP9160) - 01.00      Columns 00001 00072
Command ==> osjhuk      Scroll ==> CSR
***** ***** Top of Data *****
00000
00000 ----- OPC/SimJCL -----
00000 ----- OPC/SimJCL -----
00000 Command ==> _____
00000 Use JCL from the editor ==> Y (Y/N)
00000 If "Y", JCL will be inserted temporary in JS-Dataset,
00000 if "N", JCL will be taken from JS-Dataset and JOBLIB
00001 Store prepared JCL in JS-File ==> Y (Y/N)
00001 Simulation Type ==> FULL (FULL/PARTIAL)
00001 User specific Variable Table ==> _____
*****
Press PF3 to quit and save data

***** ***** Bott *****
```

If you want to simulate the JCL from the Editor, enter here "Y".

If the simulated JCL should be copied into the JS file, enter "Y". With "F3" you can exit this menu.

Simulate and Save JCL of Editor

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT      DATA.JCL.HUK.JOBLIB(PSCP9160) - 01.00      Columns 00001 00072
Command ==> osjhuk      Scroll ==> CSR
***** ***** Top of Data *****
00000
00000
00000
00000
00000
00000
----- OPC/SimJCL ----- Row 1 to 2 of 2
Command ==> _____ Scroll ==> PAGE

Select line with S to start Simulation
Enter Command SP to specify additional Parameters

Plan End Date      : 20030127   Time      : 2400
                    YYYYMMDD   HHMM
Simulation Date    ==> 20030131   Time ==> 0600
For origin AD enter Input Arrival Date and Time below
*****
Input Arrival Date ==> 20030131   Time ==> 0600

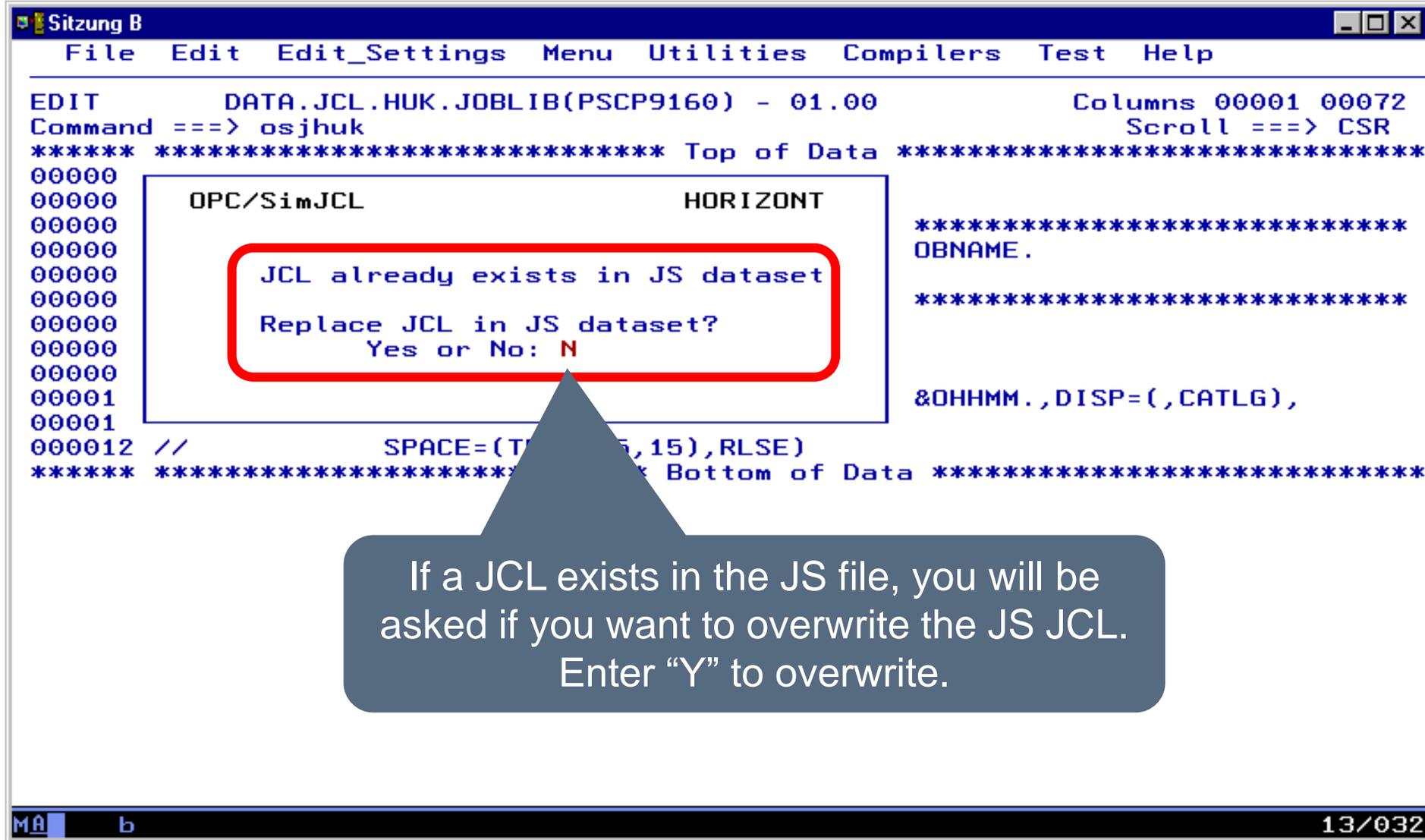
Application ID  Jobname  Input Arrival  OpNo  WsId  origin
Date           Time
-----
s H1PCPE91008   PSCP9160  20030127  0001  030  CPU0  CP
H1PCPE91008C   PSCP9160                030  CPU0  AD
***** Bottom of data *****

MA  b 22/012
```

Choose one operation

Application ID	Jobname	Input Arrival Date	Time	OpNo	WsId	origin
s H1PCPE91008	PSCP9160	20030127	0001	030	CPU0	CP
H1PCPE91008C	PSCP9160			030	CPU0	AD

Simulate and Save JCL of Editor



```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT      DATA.JCL.HUK.JOBLIB(PSCP9160) - 01.00      Columns 00001 00072
Command ==> osjhuk      Scroll ==> CSR
***** ***** Top of Data *****
00000
00000      OPC/SimJCL      HORIZONT
00000
00000      JCL already exists in JS dataset
00000      Replace JCL in JS dataset?
00000      Yes or No: N
00000
00001      &OHHMM.,DISP=(,CATLG),
00001
000012 //      SPACE=(TR,5,15),RLSE)
***** ***** Bottom of Data *****

MA  b 13/032
```

If a JCL exists in the JS file, you will be asked if you want to overwrite the JS JCL. Enter "Y" to overwrite.

Examples

- In the following slides different examples are shown, which errors can occur i. a. when simulating TWS variable charts and that they are presented by SmartJCL or TWS/SimJCL.

Variable chart not exist

Unknown variable

Invalid variable format

Overlapping variables

Unknown or not active TWS system

Problems in communication or with the PIF server

Variable chart don't exist

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT          DATA.JCL.HUK.JOBLIB(PSCP9158) - 01.11          Columns 00001 00072
Command ==> _____ Scroll ==> CSR
***** ***** Top of Data *****
==MSG> OSJM215E SIMULATION NOT SUCCESSFULL, RC OF JCLPREPA > 0
=NOTE= ***** JCL PREPARED BY OPC/SIMJCL *****
=NOTE= /** VARIABLE SUBSTITUTION FAILED
=NOTE= /**>OPC SEARCH NAME=(T030131 GLOBAL)
=NOTE= /**>EQQJ509E 01/29 15.55.37
=NOTE= /**> TABLE T030131 NOT FOUND
=NOTE= /**PSCP9158 JOB 'ABC',NOTIFY=&NOTUSER,
=NOTE= /** MSGCLASS=&OUTR.,MSGLEVEL=(1,1)
=NOTE= /**%OPC SETFORM CTIME=(HH.MM)
=NOTE= /*******
=NOTE= /** APPL = &OADID. JOB = &OJOBNAME.
=NOTE= /** IA = &OYMD1. &OHHMM.
=NOTE= /** DATE = &CDD.&CMM.&CYY. TIME = &CTIME.
=NOTE= /*******
=NOTE= /**XCPHLQ SET XCPHLQ='SYSPTS.CPEXPRT'
=NOTE= /**XCPHLQ1 SET XCPHLQ1='UGZALTT.SXS.CPEXPRT'
=NOTE= /**XCPHLQ2 SET XCPHLQ2='UGZALTT.SXS8.CPEXPRT'
=NOTE= /**XCPOUT SET CPXOUT='UGZALTT.&OJOBNAME..T&$JMTM1AT..TEMPW'
=NOTE= /**MXGHLQ SET MSGHLQ='SYSPTS.MSG'
=NOTE= /**ITSVHLQ SET ITSVHLQ='UGZALTT.SXS8.ITSV'
=NOTE= /*******
=NOTE= /**DASCPE PROC IOCP='',DASMEM='',OPTIONS=''
=NOTE= /**DASCPE EXEC SAS8,OPTIONS=&OPTIONS
=NOTE= /**SAS.CPEDASD DD UNIT=SYSDA,DATACLAS=DCSXS,SPACE=(CYL,(10,10))
=NOTE= /**SAS.SYSIN DD DISP=SHR,DSN=&XCPHLQ1..SOURCE(DASSXS)
=NOTE= /**SAS.CPXPRINT DD DISP=SHR,DSN=&XCPOUT(&DASMEM)
MA b 04/015
```

Variable chart don't exist

- The variable chart don't exist in TWS
- Solution
 - Create variable chart in TWS

Unknown variable

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT          DATA.JCL.HUK.JOBLIB(PSCP9158) - 01.12          Columns 00001 00072
Command ==> _____ Scroll ==> CSR
***** Top of Data *****
==MSG> OSJM215E SIMULATION NOT SUCCESSFULL, RC OF JCLPREPA > 0
==NOTE= ***** JCL PREPARED BY OPC/SIMJCL *****
==NOTE= /** VARIABLE SUBSTITUTION FAILED
==NOTE= /**>OPC SEARCH NAME=(T030131,GLOBAL)
==NOTE= /**PSCP9158 JOB 'ABC',NOTIFY=U471101,
==NOTE= /**          MSGCLASS=R,MSGLEVEL=(1,1)
==NOTE= /**>OPC SETFORM CTIME=(HH.MM)
==NOTE= /*******
==NOTE= /** APPL   = &OADID.           JOB    = &OJOBNAME.
==NOTE= /** IA     = &OYMD1. &OHMM.
==NOTE= /** DATE  = &CDD.&CMM.&CYY.    TIME   = &CTIME.
==NOTE= /*******
==NOTE= /**XCPHLQ SET XCPHLQ='SYSPTS.CPEXPRT'
==NOTE= /**XCPHLQ1 SET XCPHLQ1='UGZALTT.SXS.CPEXPRT'
==NOTE= /**XCPHLQ2 SET XCPHLQ2='UGZALTT.SXS8.CPEXPRT'
==NOTE= /**>EQJ535E 01/29 17.07.23
==NOTE= /**>          UNDEFINED VARIABLE JOBNAME LINE 00013 OF ORIG JCL
==NOTE= /**XCPOUT SET CPXOUT='UGZALTT.&JOBNAME..T&$JMTM1AT..TEMPW'
==NOTE= /**MXGHLQ SET MSGHLQ='SYSPTS.MSG'
==NOTE= /**ITSVHLQ SET ITSVHLQ='UGZALTT.SXS8.ITSV'
==NOTE= /*******
==NOTE= /**DASCPE PROC IOCP='',DASMEM='',OPTIONS=''
==NOTE= /**DASCPE EXEC SAS8,OPTIONS=&OPTIONS
==NOTE= /**SAS.CPEDASD DD UNIT=SYSDA,DATACLAS=DCSXS,SPACE=(CYL,(10,10))
==NOTE= /**SAS.SYSIN DD DISP=SHR,DSN=&XCPHLQ1..SOURCE(DASSXS)
==NOTE= /**SAS.CPXPRINT DD DISP=SHR,DSN=&XCPOUT(&DASMEM)

MA b 04/015
```

Unknown variable

- TWS don't know the variables with that name &JOBNAME
- Solution
 - Indicate correct variable name, e.g. here change &JOBNAME in &OJOBNAME
 - Create variable in a variable chart, which is known to the job

Invalid variable format

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT          DATA.JCL.HUK.JOBLIB(PSCP9159) - 01.01          Columns 00001 00072
Command ==> _____ Scroll ==> CSR
***** ***** Top of Data *****
==MSG> OSJM215E SIMULATION NOT SUCCESSFULL, RC OF JCLPREPA > 0
=NOTE= ***** JCL PREPARED BY OPC/SIMJCL *****
=NOTE= //          VARIABLE SUBSTITUTION FAILED
=NOTE= //*%OPC SCAN
=NOTE= //>EQQJ570E 01/29 17.14.57
=NOTE= //>          INVALID DYNAMIC FORMAT VARIABLE NAME AT LINE 00002 OF ORIG
=NOTE= //>          JCL
=NOTE= //*%OPC SETFORM TCDATE=(DYMMDD)
=NOTE= //*%OPC SETVAR  TDAY=(ACDATE + 1WD)          /* NEXT WORKDAY */
=NOTE= //*%OPC SETFORM ACTIME=(HHMM)
=NOTE= //&0JOBNAME. JOB MSGLEVEL=(1,1)
=NOTE= .....
=NOTE= //* APPL   = ?130ADID.          JOB   = ?440JOBNAME.
=NOTE= //* IA    = ?130YMD1. ?200HHMM.  TDAY  = ?44TDAY.
=NOTE= //* DATE  = ?13ACDATE.          TIME  = ?44ACTIME.
=NOTE= //*****
=NOTE= //STEP1   EXEC PGM=MYPGM.PARM='/&TDAY'
=NOTE= //SYSPRINT DD SYSOUT=*
=NOTE= //IN      DD DISP=SHR,DSN=P390A.OCB.CNTL
=NOTE= //OUT     DD DSN=P390I.OCB.CNTL.%ACDATE.%.ACTIME.,DISP=(,CATLG),
=NOTE= //          LRECL=80,RECFM=FB,UNIT=SYSDA,
=NOTE= //          SPACE=(TRK,(15,15),RLSE)
=NOTE= ***** END OF PREPARED JCL *****
000001 // *%OPC SCAN
000002 // *%OPC SETFORM TCDATE=(DYMMDD)
000003 // *%OPC SETVAR  TDAY=(ACDATE + 1WD)          /* NEXT WORKDAY */
.....
MA b 04/015
```

Invalid variable format

- The variable ACDATE of SETFORM statement is unknown
- In SETFORM statement only known date or time dependent variable names or “separator” can be used
- Solution
 - Change variable name ACDATE in ODATE, corresponding to ACTIME in OCTIME

Invalid variable format

Here you can see the simulated JCL

```
Sitzung B
File Edit Test Help
EDIT      DATA.JCL.HUK...IB(PSCP9159) - 01.02      Columns 00001 00072
Command ==>                                         Scroll ==> CSR
*****
***** Top of Data *****
=NOTE= ***** JCL PREPARED BY OPC/SIMJCL *****
=NOTE= // *%OPC SCAN
=NOTE= // *%OPC SETFORM OCDATE=(DYMMDD)
=NOTE= // *%OPC SETVAR TDAY=(OCDATE + 1WD)          /* NEXT WORKDAY */
=NOTE= // *%OPC SETFORM OCTIME=(HHMM)
=NOTE= // PSCP9159 JOB MSGLEVEL=(1,1)
=NOTE= // *****
=NOTE= // * APPL   = H1PCPE91008C      JOB    = PSCP9159
=NOTE= // * IA    = 030131 0600      TDAY   = D030203
=NOTE= // * DATE  = D030131          TIME   = 0600
=NOTE= // *****
=NOTE= // STEP1   EXEC PGM=MYPGM,PARM=' /D030203'
=NOTE= // SYSPRINT DD SYSOUT=*
=NOTE= // IN      DD DISP=SHR,DSN=P390A.OCB.CNTL
=NOTE= // OUT     DD DSN=P390I.OCB.CNTL.D030131.0600,DISP=(,CATLG),
=NOTE= //                LRECL=80,RECFM=FB,UNIT=SYSDA,
=NOTE= //                SPACE=(TRK,(15,15),RLSE)
=NOTE= ***** END OF PREPARED JCL *****
000001 // *%OPC SCAN
000002 // *%OPC SETFORM OCDATE=(DYMMDD)
000003 // *%OPC SETVAR TDAY=(OCDATE + 1WD)          /* NEXT WORKDAY */
000004 // *%OPC SETFORM OCTIME=(HHMM)
000005 // &OJOBNAME. JOB MSGLEVEL=(1,1)
000006 // *****
000007 // * APPL   = ?130ADID.      JOB    = ?440JOBNAME.
000008 // * IA    = ?130YMD1. ?200HHMM. TDAY   = ?44TDAY.
```

MA b 04/015

Overlapping variables

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe

File Edit Edit_Settings Menu Utilities Compilers Test Help

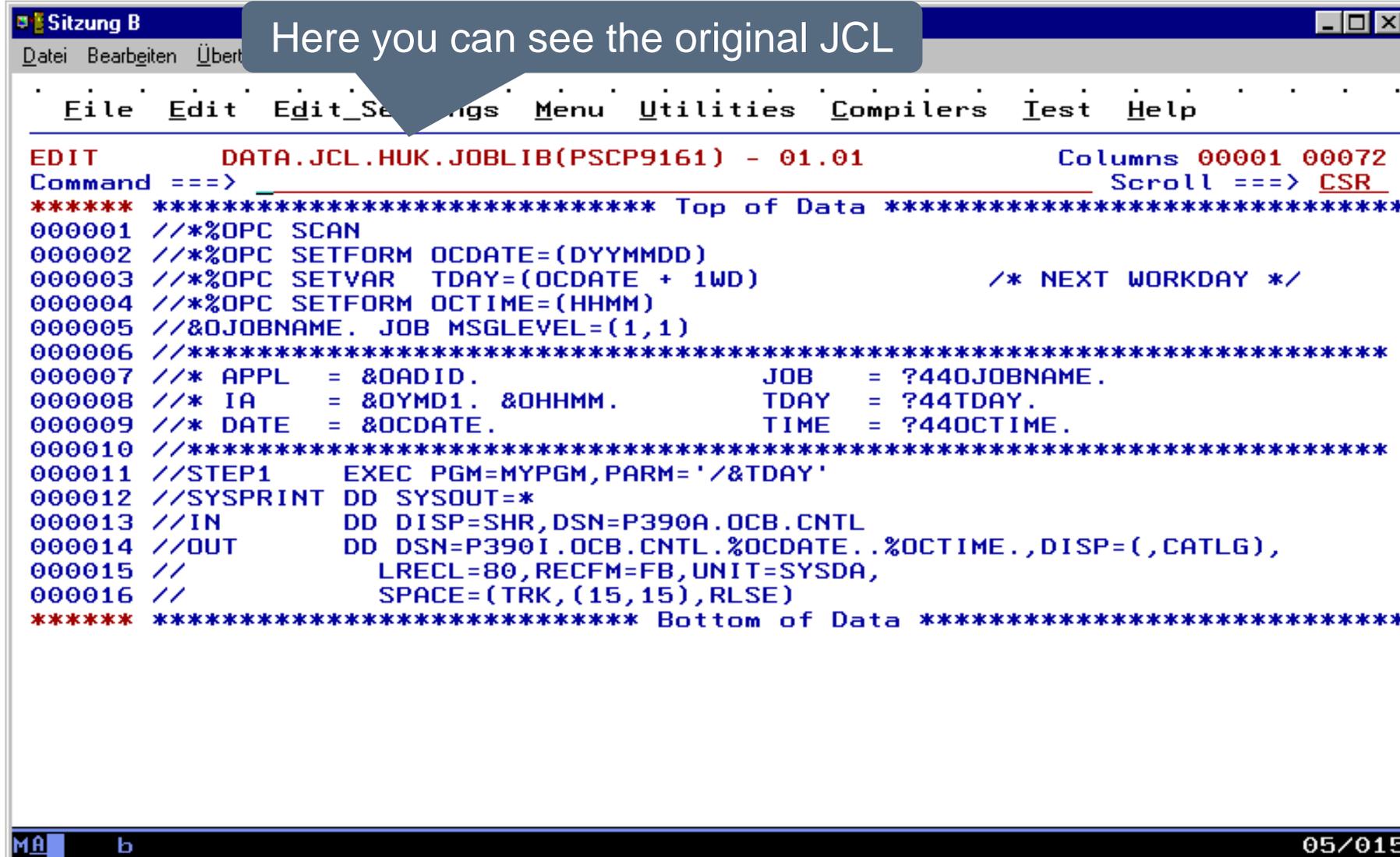
EDIT          DATA.JCL.HUK.JOBLIB(PSCP9161) - 01.01          Columns 00001 00072
Command ==> _____ Scroll ==> CSR
***** ***** Top of Data *****
==MSG> OSJM215E SIMULATION NOT SUCCESSFULL, RC OF JCLPREPA > 0
=NOTE= ***** JCL PREPARED BY OPC/SIMJCL *****
=NOTE= /* VARIABLE SUBSTITUTION FAILED
=NOTE= /*%OPC SCAN
=NOTE= /*>OPC SETFORM OCDATE=(DYMMDD)
=NOTE= /*>OPC SETVAR TDAY=(OCDATE + 1WD)          /* NEXT WORKDAY */
=NOTE= /*>OPC SETFORM OCTIME=(HHMM)
=NOTE= /*&OJOBNAME. JOB MSGLEVEL=(1,1)
=NOTE= /******
=NOTE= /*>EQQJ536E 01/30 20.56.12
=NOTE= /*>          POSITIONAL OVERLAP VARIABLE ?440JOBNAME LINE 00007 OF ORIG
=NOTE= /*>          JCL
=NOTE= /* APPL      = &OADID.          JOB      = ?440JOBNAME.
=NOTE= /* IA        = &OYMD1. &DHHMM.    TDAY     = ?44TDAY.
=NOTE= /* DATE      = &OCDATE.          TIME    = ?44OCTIME.
=NOTE= /******
=NOTE= //STEP1      EXEC PGM=MYPGM,PARM='&TDAY'
=NOTE= //SYSPRINT  DD SYSOUT=*
=NOTE= //IN         DD DISP=SHR,DSN=P390A.OCB.CNTL
=NOTE= //OUT        DD DSN=P390I.OCB.CNTL.%OCDATE..%OCTIME.,DISP=(,CATLG),
=NOTE= //          LRECL=80,RECFM=FB,UNIT=SYSDA,
=NOTE= //          SPACE=(TRK,(15,15),RLSE)
=NOTE= ***** END OF PREPARED JCL *****
000001 /*%OPC SCAN
000002 /*%OPC SETFORM OCDATE=(DYMMDD)

MA b 05/015
```

Overlapping variables

- Solution: better: only use ? variables in one line together

Overlapping variables



Here you can see the original JCL

```
EDIT          DATA.JCL.HUK.JOBLIB(PSCP9161) - 01.01          Columns 00001 00072
Command ==> _____ Scroll ==> CSR
***** Top of Data *****
000001 // *%OPC SCAN
000002 // *%OPC SETFORM OCDATE=(DYMMDD)
000003 // *%OPC SETVAR TDAY=(OCDATE + 1WD)          /* NEXT WORKDAY */
000004 // *%OPC SETFORM OCTIME=(HHMM)
000005 // &OJOBNAME. JOB MSGLEVEL=(1,1)
000006 // *****
000007 // * APPL   = &OADID.          JOB   = ?44OJOBNAME.
000008 // * IA     = &OYMD1. &OHHMM.    TDAY  = ?44TDAY.
000009 // * DATE   = &OCDATE.          TIME  = ?44OCTIME.
000010 // *****
000011 //STEP1   EXEC PGM=MYPGM,PARM=' /&TDAY '
000012 //SYSPRINT DD SYSOUT=*
000013 //IN       DD DISP=SHR,DSN=P390A.OCB.CNTL
000014 //OUT      DD DSN=P390I.OCB.CNTL.%OCDATE..%OCTIME.,DISP=(,CATLG),
000015 //          LRECL=80,RECFM=FB,UNIT=SYSDA,
000016 //          SPACE=(TRK,(15,15),RLSE)
***** Bottom of Data *****
```

MA b 05/015

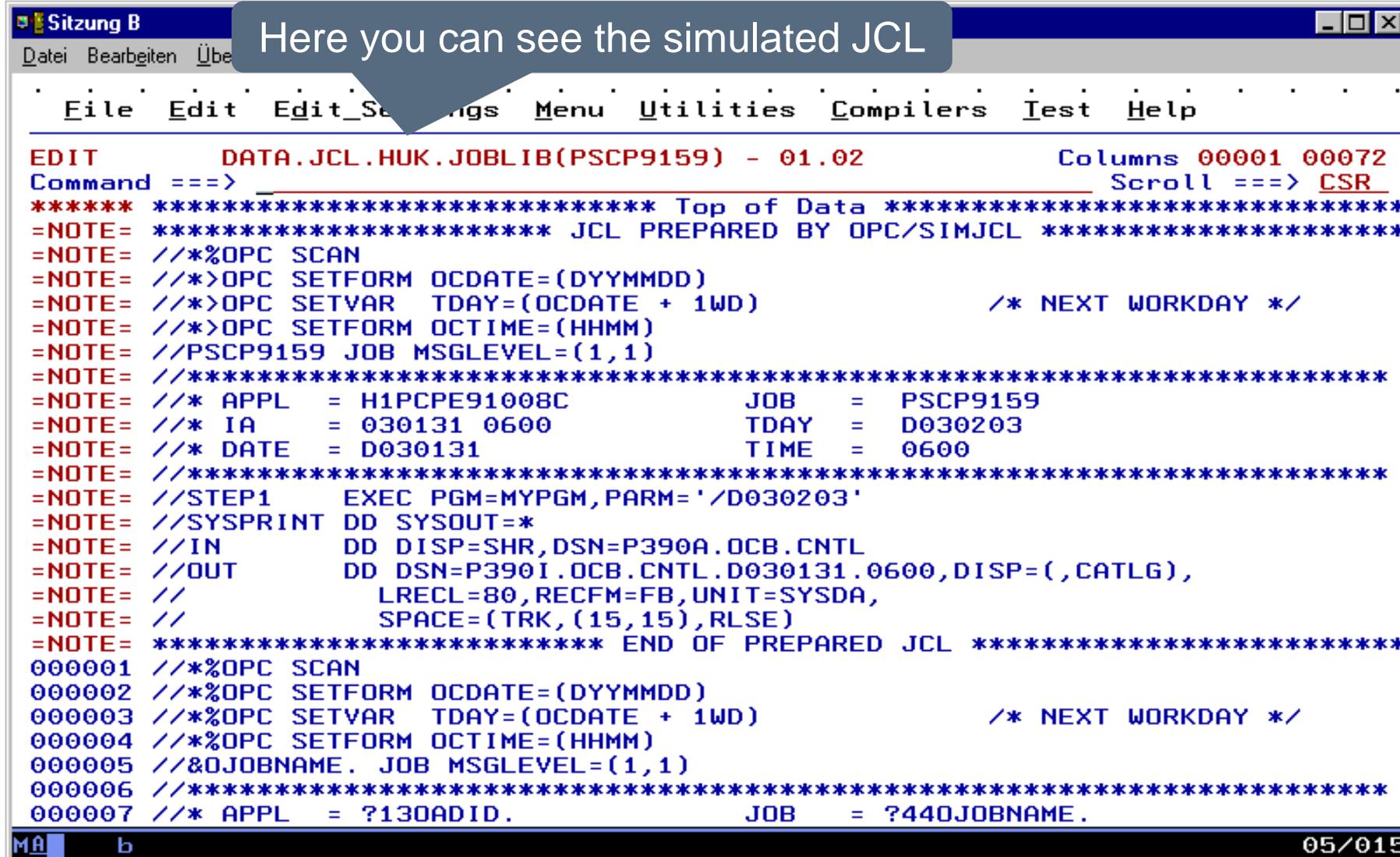
Overlapping variables

Here you can see the correct JCL

```
EDIT          DATA.JCL.HUK.JOBLIB(PSCP9159) - 01.02          Columns 00001 00072
Command ==> _____ Scroll ==> CSR
***** Top of Data *****
000001 //*%OPC SCAN
000002 //*%OPC SETFORM OCDATE=(DYMMDD)
000003 //*%OPC SETVAR TDAY=(OCDATE + 1WD)          /* NEXT WORKDAY */
000004 //*%OPC SETFORM OCTIME=(HHMM)
000005 //&JOBNAME. JOB MSGLEVEL=(1,1)
000006 //*****
000007 /* APPL  = ?130ADID.          JOB    = ?440JOBNAME.
000008 /* IA    = ?130YMD1. ?200HHMM.  TDAY   = ?44TDAY.
000009 /* DATE  = ?130OCDATE.          TIME   = ?44OCTIME.
000010 //*****
000011 //STEP1 EXEC PGM=MYPGM,PARM='/&TDAY'
000012 //SYSPRINT DD SYSOUT=*
000013 //IN      DD DISP=SHR,DSN=P390A.OCB.CNTL
000014 //OUT     DD DSN=P390I.OCB.CNTL.%OCDATE..%OCTIME.,DISP=(,CATLG),
000015 //              LRECL=80,RECFM=FB,UNIT=SYSDA,
000016 //              SPACE=(TRK,(15,15),RLSE)
***** Bottom of Data *****
```

MA b 05/015

Overlapping variables



Here you can see the simulated JCL

```
Sitzung B
Datei Bearbeiten Über
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT DATA.JCL.HUK.JOBLIB(PSCP9159) - 01.02 Columns 00001 00072
Command ==> Scroll ==> CSR
***** Top of Data *****
=NOTE= ***** JCL PREPARED BY OPC/SIMJCL *****
=NOTE= // *%OPC SCAN
=NOTE= // *>OPC SETFORM OCDATE=(DYMMDD)
=NOTE= // *>OPC SETVAR TDAY=(OCDATE + 1WD) /* NEXT WORKDAY */
=NOTE= // *>OPC SETFORM OCTIME=(HHMM)
=NOTE= //PSCP9159 JOB MSGLEVEL=(1,1)
=NOTE= //*****
=NOTE= // * APPL = H1PCPE91008C JOB = PSCP9159
=NOTE= // * IA = 030131 0600 TDAY = D030203
=NOTE= // * DATE = D030131 TIME = 0600
=NOTE= //*****
=NOTE= //STEP1 EXEC PGM=MYPGM,PARM='/D030203'
=NOTE= //SYSPRINT DD SYSOUT=*
=NOTE= //IN DD DISP=SHR,DSN=P390A.OCB.CNTL
=NOTE= //OUT DD DSN=P390I.OCB.CNTL.D030131.0600,DISP=(,CATLG),
=NOTE= // LRECL=80,RECFM=FB,UNIT=SYSDA,
=NOTE= // SPACE=(TRK,(15,15),RLSE)
=NOTE= ***** END OF PREPARED JCL *****
000001 // *%OPC SCAN
000002 // *%OPC SETFORM OCDATE=(DYMMDD)
000003 // *%OPC SETVAR TDAY=(OCDATE + 1WD) /* NEXT WORKDAY */
000004 // *%OPC SETFORM OCTIME=(HHMM)
000005 //&JOBNAME. JOB MSGLEVEL=(1,1)
000006 //*****
000007 // * APPL = ?130ADID. JOB = ?440JOBNAME.
MA b 05/015
```

Possible problem situations

- On the following slides some scenarios are explained, that may occur when using TWS simulation of SmartJCL
 - Reasons for error message “ERRO in PIF-Init”
 - False TWS subsystem name
 - Unknown PIF server

TWS-Subsystem name incorrect

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DATA.JCL.HUK.JOBLIB(PSCP9159) - 01.02      Columns 00001 00072
Command ==>                                         Scroll ==> CSR
***** Top of Data *****
==MSG> OSJM211E ERROR IN PIF-INIT, SEE EQQLLOG
000001 //*%OPC SCAN
000002 //*%OPC SETFORM TCDATE=(DYYMDD)
000003 //*%OPC SETVAR TDAY=(OCDATE + 1WD) /* NEXT WORKDAY */
000004 //*%OPC SETFORM OCTIME=(HHMM)
000005 //&OJOBNAME. JOB MSGLEVEL=(1,1)
000006 //*****
000007 //* AP = ?130ADID. JOB = ?440JOBNAME.
000008 //* IA = ?130YMD1. ?200HHMM. TDAY = ?44TDAY.
000009 //* DA = ?130CDATE. TIME = ?44OCTIME.
000010 //*****
000011 //STEP EXEC PGM=MYPGM,PARM='/&TDAY'
000012 //SYSOUT=*
000013 //INDD=DD DD DISP=SHR,DSN=P390A.OCB.CNTL
000014 //DD DD DSN=P390I.OCB.CNTL.%OCDATE.%.%OCTIME.,DISP=(,CATLG),
000015 // DD RECL=80,RECFM=FB,UNIT=SYSDA,
000016 // DD SPACE=(TRK,(15,15),RLSE)
***** Bottom of Data *****
```

If this error message appears, SmartJCL is not able to communicate with the TWS. Different reasons are possible.

MA b 04/015

TWS-Subsystem name incorrect

```
Sitzung B
Display Filter View Print Options Help
-----
SDSF STATUS DISPLAY ALL CLASSES                LINE 1-4 (4)
COMMOND INPUT ---->                          SCROLL ----> CSR
NP  JOBNAME  JobID   Owner   Prty Queue      C  Pos  SAff  ASys Status
?_  P390J    TSU09118 P390J   15 EXECUTION
    P390J    TSU09114 P390J    1 PRINT      316
    P390J    TSU09057 P390J    1 PRINT      303
    P390J    TSU08763 P390J    1 PRINT      123
```

Look at your actual User Id-Session in SDSF

TWS-Subsystem name incorrect

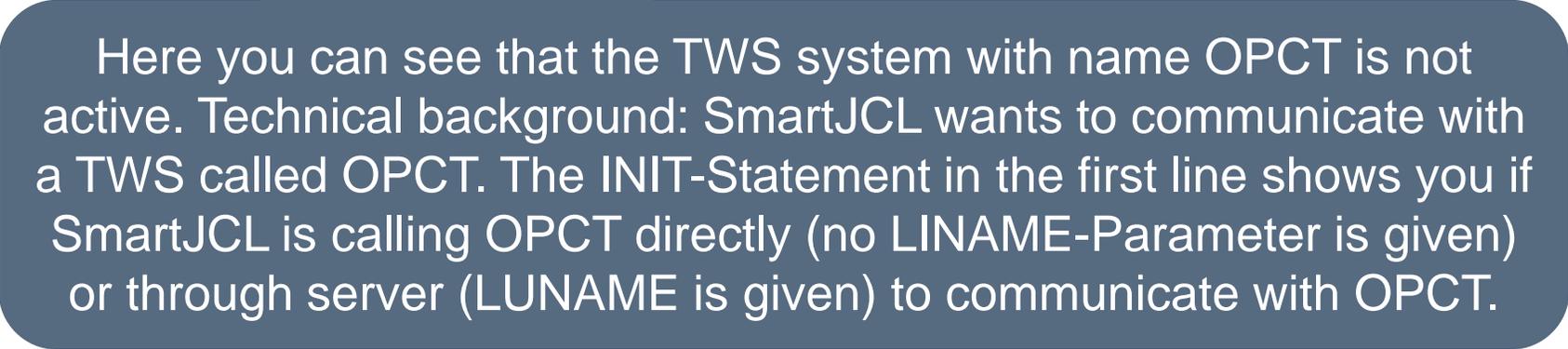
```
Sitzung B
Display Filter View Print Options Help
-----
SDSF JOB DATA SET DISPLAY - JOB P390J      (TSU09118)      DATA SET DISPLAYED
COMMAND INPUT ==>
SCROLL ==> CSR
NP  DDNAME      StepName ProcStep DSID  Owner      C Dest      Rec-Cnt PAGE
   JESMSG LG   JES2          2  P390J      T           2
   JESJCL     JES2          3  P390J      T          172
   JESYSMSG   JES2          4  P390J      T          180
   EQQMLOG    OP7CPROC      OP7CPROC  101 P390J      T LOCAL      3
   EQQDUMP    OP7CPROC      OP7CPROC  102 P390J      T LOCAL     68
   EQQMLOG    OP7CPROC      OP7CPROC  103 P390J      T LOCAL      3
   EQQDUMP    OP7CPROC      OP7CPROC  104 P390J      T LOCAL     68
   EQQMLOG    OP7CPROC      OP7CPROC  105 P390J      T LOCAL      3
   EQQDUMP    OP7CPROC      OP7CPROC  106 P390J      T LOCAL     68
   EQQMLOG    OP7CPROC      OP7CPROC  107 P390J      T LOCAL      3
   EQQDUMP    OP7CPROC      OP7CPROC  108 P390J      T LOCAL     68
   EQQMLOG    OP7CPROC      OP7CPROC  109 P390J      T           3
s
```

MA b 17/003

For each “problem with TWS”, file EQQMLOG is filled with messages by TWS. Look at the “last EQQMLOG”

TWS-Subsystem name incorrect

```
Sitzung B
Display Filter View Print Options Help
-----
SDSF OUTPUT DISPLAY P390J      TSU09118  DSID   109 LINE 0      COLUMNS 02- 81
COMMAND INPUT ==>              SCROLL ==> CSR
***** TOP OF DATA *****
01/30 20.31.09  EQQZ015I INIT STATEMENT:   INIT CWBASE(00) HIGHDATE(711231) LUNAM
01/30 20.31.09  EQQZ016I RETURN CODE FOR THIS STATEMENT IS: 0000
01/30 20.31.11  EQQX111E OPCT is not an active   OPC   subsystem
***** BOTTOM OF DATA *****
```



Here you can see that the TWS system with name OPCT is not active. Technical background: SmartJCL wants to communicate with a TWS called OPCT. The INIT-Statement in the first line shows you if SmartJCL is calling OPCT directly (no LINAME-Parameter is given) or through server (LUNAME is given) to communicate with OPCT.

MA b 04/021

TWS-Subsystem name incorrect

- Possible reasons why SmartJCL can't log on to the TWS.
 - With call OSJ a Edit Macro was called which wants to log on to a unknown TWS system, e.g.
 - TWS-Subsystem name is incorrect
 - Solution: correct TWS-Subsystem name
 - TWS-Subsystem name is correct, but TWS is active on another system as SmartJCL dialog
 - Solution: Change to the other system or use PIF-Server for communication

TWS-Subsystem name incorrect

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT P390I.SMARTJCL.CLIST(OPZXPARM) - 01.02 Columns 00001 00072
Scroll ==> CSR
000062 /*-----*/
000063 /* OPC DATASETS, SUBSYSTEM          OPC-VERSION          */
000064 /* OpzOVer      OPC release          OPC 2.1      OpzOVer = "5"    */
000065 /* OpzAdDs      AD-VSAM              OPC 2.2      OpzOVer = "6"    */
000066 /* OpzWsDs                      = "7"    */
000067 /* OpzOiDs                      = "8"    */
000068 /* OpzRdDs                      */
000069 /* OpzSiDs                      */
000070 /* OpzLtDs                      */
000071 /* OpzSSys      OPC subsystem        */
000072 /* OpzOVer      OPC release          */
000073 /* OpzDCal      Name OPC-default calendar */
000074 /* OpzOI        Unload OI database      */
000075 /*-----*/
000076 OpzAdDs      = "DATA.OPCE230.HUK.AD"
000077 OpzWsDs      = "DATA.OPCE230.HUK.WS"
000078 OpzOiDs      = "P390A.OPCESA.V2R3M0.OI"
000079 OpzSiDs      = "P390A.OPCESA.V2R3M0.SI"
000080 OpzLtDs      = "P390A.OPCESA.V2R3M0.LT"
000081 OpzRdDs      = "DATA.OPCE230.HUK.RD"
000082 OpzMsDs      = "P390A.OPCESA.V2R3M0.SEQMSG0"
000083 OpzLbDs      = "P390A.OPCESA.V2R3M0.SEQEND0"
000084 OpzSSys      = "OPCT"
000085 OpzOVer      = ""
000086 OpzDCal      = ""
000087 OpzOI        = "N"
MA b 04/013
```

Check the parameters of member OPZXPARM in hlq.SMARTJCL.CLIST

TWS-Subsystem name

000084 OpzSSys = "OPCT"

Unknown PIF server

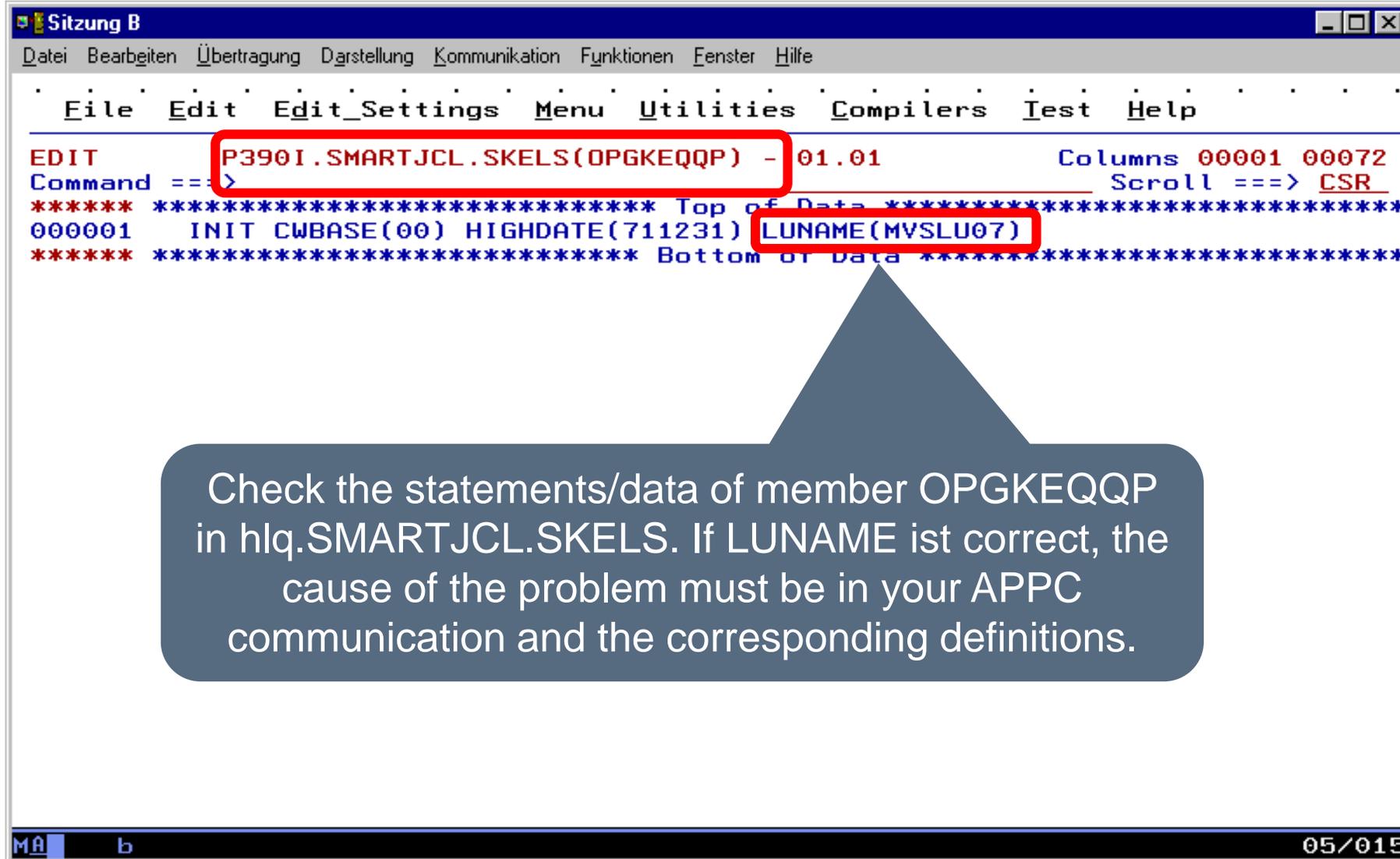
```
Sitzung B
Display Filter View Print Options Help
-----
SDSF OUTPUT DISPLAY P390J      TSU09118  DSID   101 LINE 0      COLUMNS 02- 81
COMMAND INPUT ==> _          SCROLL ==> CSR
***** TOP OF DATA *****
01/30 20.11.48  EQQZ015I INIT STATEMENT:  INIT CWBASE(00) HIGHDATE(711231) LUNAM
01/30 20.11.48  EQQZ016I RETURN CODE FOR THIS STATEMENT IS: 0000
01/30 20.11.49  EQQX610E Allocate in state Reset failed, RC 20, SR 0, DR 0
***** BOTTOM OF DATA *****
```

Here you can see at LUNAME in the first line, that SmartJCL wants to communicate via server with the OPCT. The TWS error message in the third line means, a problem has occurred.

Unknown PIF server

- SmartJCL can't log on at TWS
 - With call OSJ a Edit Macro is called which logs on via a PIF server at the TWS system
 - There are problems with PIF server, e.g.
 - PIF server is not started
 - Solution: start PIF server
 - PIF server is active with wrong parameters
 - Solution: check system parameter
 - PIF server is not active on this system
 - Lösung: check system parameter
 - STC APPC and/or ASCH are not active
 - Solution: start APPC and/or ASCH

Unknown PIF server



```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT P390I.SMARTJCL.SKELS(OPGKEQQP) - 01.01 Columns 00001 00072
Command ==> Scroll ==> CSR
***** Top of Data *****
000001 INIT CWBASE(00) HIGHDATE(711231) LUNAME(MVSLU07)
***** Bottom of Data *****
```

Check the statements/data of member OPGKEQQP in hlq.SMARTJCL.SKELS. If LUNAME ist correct, the cause of the problem must be in your APPC communication and the corresponding definitions.

MA b 05/015

Simulate a non TWS-Job

- You edit a new job and the job has no existing operation in TWS.
- You want to simulate the job.
- Technical note:

When calling the TWS simulation using OSJ, SmartJCL communicates with TWS. TWS searches for JCL in one of his Job Librarys. Furthermore TWS searches for the operation with the related Jobname in Current Plan and in it's Application Description.

Simulate a non TWS-Job

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DATA.JCL.HUK.JOBLIB(PSCP1962) - 01.00      Columns 00001 00072
Command ==> _____ Scroll ==> CSR
***** ***** Top of Data *****
000001 //PSCP9162  JOB MSGLEVEL=(1,1)
000002 // *%OPC SCAN
000003 //*****
000004 //* APPL  = &OADID.          JOB   = &JOBNAME.
000005 //* IA   = &OYMD1.&OHHMM.
000006 //*****
000007 //STEP1  EXEC PGM=MYPGM
000008 //SYSPRINT DD SYSOUT=*
000009 //IN     DD DISP=SHR,DSN=P390A.OCB.CNTL
000010 //OUT    DD DSN=P390I.OCB.CNTL.D&OYMD1..T&OHHMM.,DISP=(,CATLG),
000011 //              LRECL=80,RECFM=FB,UNIT=SYSDA,
000012 //              SPACE=(TRK,(15,15),RLSE)
***** ***** Bottom of Data *****

MA  b 05/015
```

You edit the new job. Call the command OSJ for simulation

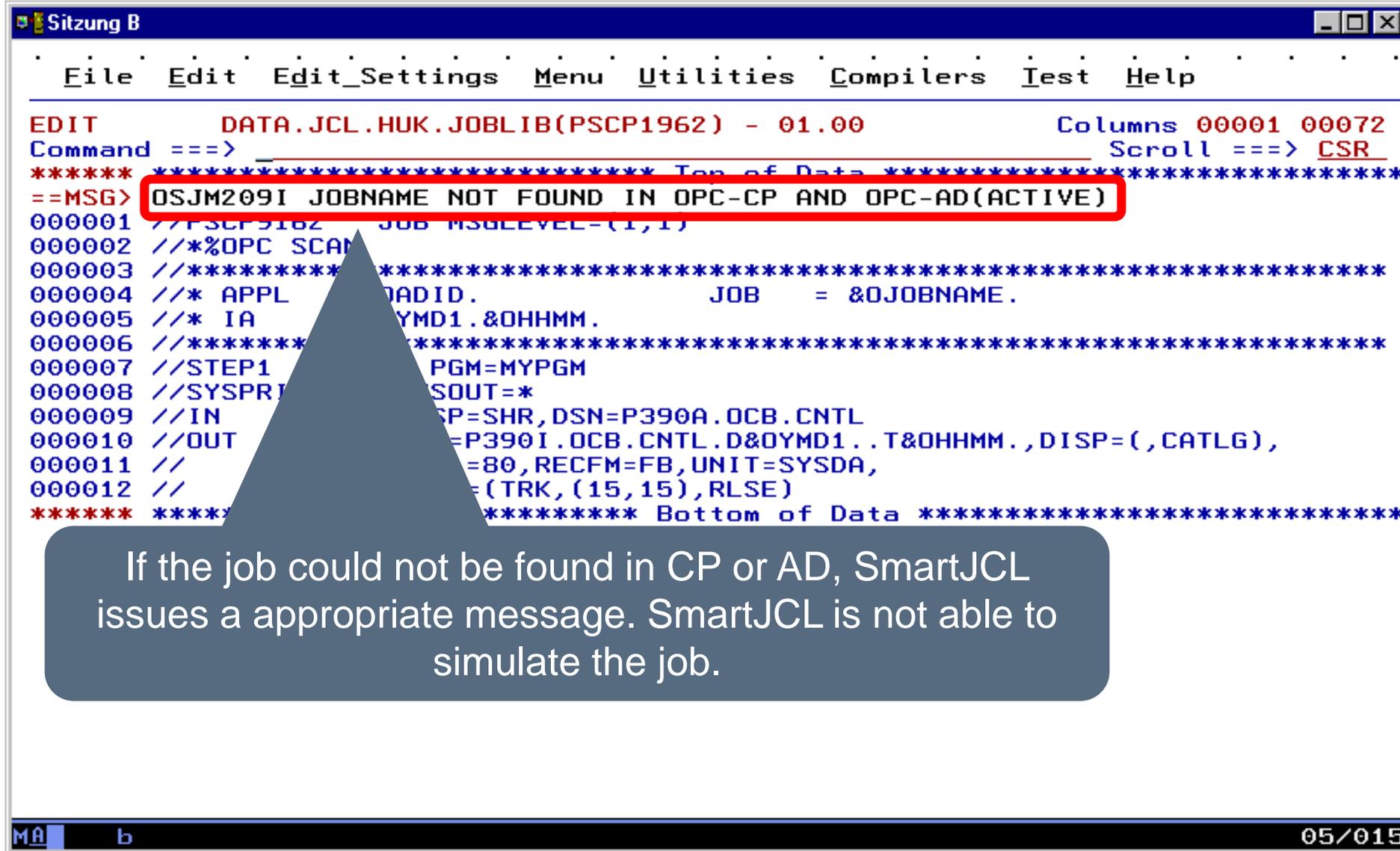
Simulate a non TWS-Job

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DATA.JCL.HUK.JOBLIB(PSCP1962) - 01.00      Columns 00001 00072
Command ==> osjhuk      Scroll ==> CSR
***** ***** Top of Data *****
00000
00000      OPC/SimJCL      HORIZONT
00000
00000      Jobname not found in OPC-CP
00000      Additional search in OPC-AD?
00000      Yes or No? Y
00000
00001      &OHHMM.,DISP=(,CATLG),
00001
000012 //      SPAC(5,15),RLSE)
***** ***** Bottom of Data *****
```

SmartJCL or TWS searches for the job in Current Plan and shows you that the job could not be found in CP. You could search the job in Application Description. Enter "Y".

MA b 14/032

Simulate a non TWS-Job



```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DATA.JCL.HUK.JOBLIB(PSCP1962) - 01.00      Columns 00001 00072
Command ==> _____ Scroll ==> CSR
***** Top of Data *****
==MSG> OSJM209I JOBNAME NOT FOUND IN OPC-CP AND OPC-AD(ACTIVE)
000001 //PSCP1962 JOB MSGLEVEL=(1,1)
000002 //*%OPC SCAM
000003 //*****
000004 //* APPL          QADID.          JOB    = &JOBNAME.
000005 //* IA          YMD1.&OHHMM.
000006 //*****
000007 //STEP1          PGM=MYPGM
000008 //SYSPRI          SOUT=*
000009 //IN              SP=SHR,DSN=P390A.OCB.CNTL
000010 //OUT             =P390I.OCB.CNTL.D&OYMD1..T&OHHMM.,DISP=(,CATLG),
000011 //              =80,RECFM=FB,UNIT=SYSDA,
000012 //              =(TRK,(15,15),RLSE)
***** Bottom of Data *****
```

If the job could not be found in CP or AD, SmartJCL issues a appropriate message. SmartJCL is not able to simulate the job.

MA b 05/015

Simulate a non TWS-Job

- A non TWS-Job can also be simulated using the following procedure:
 - Create a sample order with a sample job, e.g. with Application id SMARTJCLTEMPLATE and Jobname SMARTJCL.
 - Copy the changed JCL into the sample Job Member
 - Edit the sample job
 - Execute the simulation with the sample job
 - This is demonstrated on the next slides

Simulate a non TWS-Job

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT          DATA JCL HUK JOB18(PSCP1962) - 01.00          Columns 00001 00072
Command ==> edit smartjcl                               Scroll ==> CSR
*****          ***** Top of Data *****
==MSG> OSJM209I JOBNAME NOT FOUND IN OPC-CP AND OPC-AD(ACTIVE)
000001 //PSCP9162          B MSGLEVEL=(1,1)
000002 //%OPC SCAN
000003 //*****
000004 //* APPL =          D.          JOB = &JOBNAME.
000005 //* IA =          .&OHHMM.
000006 //*****
000007 //STEP1          =MYPGM
000008 //SYSPRINT          =*
000009 //IN          HR, DSN=P390A.OCB.CNTL
000010 //OUT          01.OCB.CNTL.D&OYMD1..T&OHHMM., DISP=(,CATLG),
000011 //          RECFM=FB, UNIT=SYSDA,
000012 //          K, (15,15), RLSE)
*****          ***** Bottom of Data *****
MA b 05/028
```

Save the JCL of the new job. Afterwards edit the SmartJCL sample job, here with Jobname SMARTJCL.

Simulate a non TWS-Job

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DATA_ICL_HUK_JOBLIB(SMARTJCL) - 01.00      Columns 00001 00072
Command ==> copy pscp1962      Scroll ==> CSR
a***** ***** Top of Data *****
d99999 // *%OPC SCAN
000002 //PSCP916 JOB MSGLEVEL=(1,1)
000003 //*****
000004 //* APPL &OADID. JOB = &JOBNAME.
000005 //* IA &OYMD1.&OHHMM.
000006 //*****
000007 //STEP1 EXEC PGM=MYPGM
000008 //SYSPD SYSOUT=*
000009 //IN DSN=P390A.OCB.CNTL
000010 //OUT DSN=P390I.OCB.CNTL.D&OYMD1..T&OHHMM.,DISP=(,CATLG),
000011 // LRECL=80,RECFM=FB,UNIT=SYSDA,
000012 // SPACE=(TRK,(15,15),RLSE)
***** ***** Bottom of Data *****
```

Copy your job into the sample job

MA b 05/015

Simulate a non TWS-Job

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DATA_JCL_HUK.JOBLIB(SMARTJCL) - 01.01      Member PSCP1962 copied
Command ==> save                                     Scroll ==> CSR
***** Top of Data *****
000001 //PSCP9152 JOB MSGLEVEL=(1,1)
000002 // *%OPC SCAN
000003 //*****
000004 //* APPC = &OADID. JOB = &JOBNAME.
000005 //* IA = &OYMD1.&OHHMM.
000006 //*****
000007 //STEP1 EXEC PGM=MYPGM
000008 //SYSPPROD SYSOUT=*
000009 //IN DD DISP=SHR,DSN=P390A.OCB.CNTL
000010 //OUT DD DSN=P390I.OCB.CNTL.D&OYMD1..T&OHHMM.,DISP=(,CATLG),
000011 // LRECL=80,RECFM=FB,UNIT=SYSDA,
000012 // SPACE=(TRK,(15,15),RLSE)
***** Bottom of Data *****
MA b 05/019
```

Save the JCL of the sample job

Simulate a non TWS-Job

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DATA_ICL_HUK.JOBLIB(SMARTJCL) - 01.01      Member PSCP1962 copied
Command ==> osj                                     Scroll ==> CSR
***** Top of Data *****
000001 //PSCP162 JOB MSGLEVEL=(1,1)
000002 //*%OP SCAN
000003 //*****
000004 //* AF      = &OADID.          JOB      = &JOBNAME.
000005 //* IA      = &OYMD1.&OHHMM.
000006 //*****
000007 //STEP      EXEC PGM=MYPGM
000008 //SYS      DD SYSOUT=*
000009 //IN        DD DISP=SHR,DSN=P390A.OCB.CNTL
000010 //OUT       DD DSN=P390I.OCB.CNTL.D&OYMD1..T&OHHMM.,DISP=(,CATLG),
000011 //          LRECL=80,RECFM=FB,UNIT=SYSDA,
000012 //          SPACE=(TRK,(15,15),RLSE)
***** Bottom of Data *****
MA b                                     05/018
```

Call the simulation with OSJ

Simulate a non TWS-Job

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DATA.JCL.HUK.JOBLIB(SMARTJCL) - 01.01      Columns 00001 00072
Command ==> osjhuk      Scroll ==> CSR
***** ***** Top of Data *****
00000
00000      OPC/SimJCL      HORIZONT
00000
00000      Jobname not found in OPC-CP
00000      Additional search in OPC-AD?
00000      Yes or No? Y
00000
00001      &OHHMM.,DISP=(,CATLG),
00001
000012 //      SPACE=      (15),RLSE)
***** ***** Bottom of Data *****
MA b 14/032
```

SmartJCL reports that the job in Current Plan could not be found and that you can search the job in the Application Description. Enter "Y".

Simulate a non TWS-Job

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DATA.JCL.HUK.JOBLIB(SMARTJCL) - 01.01      Columns 00001 00072
Command ==> osjhuk      Scroll ==> CSR
***** ***** Top of Data *****
00000
00000 ----- OPC/SimJCL ----- Row 1 to 1 of 1
00000 Command ==> _____ Scroll ==> PAGE
00000
00000 Select line with S to start Simulation
00000 Enter Command SP to specify additional Parameters
00000
00000 Current Plan End Date   : 20030127   Time   : 2400
00000                      YYYMMDD      HHMM
00001 Simulation Date       ==> 20030215   Time ==> 0600
00001
00001 for origin AD enter Input Arrival Date and Time below
00001 Input Arrival Date    ==> 20030215   Time ==> 0600
00001
*****
Application ID  Jobname  Input Arrival  OpNo  WsId  origin
Data           Time
s SMARTJCLTEMPLATE SMARTJCL           010  CPU0  AD
***** Bottom of Data *****
23/010
```

The sample job SMARTJCL of sample Application SMARTJCLTEMPLATE is found. If you had created multiple sample Jobs in TWS, all of them would appear in a list. Choose one operation.

Simulate a non TWS-Job

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT          DATA.JCL.HUK.JOBLIB(SMARTJCL) - 01.01          Columns 00001 00072
Command ==> _____ Scroll ==> CSR
***** ***** Top of Data *****
=NOTE= ***** JCL PREPARED BY OPC/SIMJCL *****
=NOTE= //*%OPC SCAN
=NOTE= //PSCP9160   JOB MSGLEVEL=(1,1)
=NOTE= //*****
=NOTE= //* APPL   = SMARTJCLTEMPLATE           JOB   = SMARTJCL
=NOTE= //* IA     = 0302150600
=NOTE= //*****
=NOTE= //STEP1    EXEC PGM=MYPGM
=NOTE= //SYSPRINT DD SYSOUT=*
=NOTE= //IN       DD DISP=SHR,DSN=P390A.OCB.CNTL
=NOTE= //OUT      DD DSN=P390I.OCB.CNTL.D030215.T0600,DISP=(,CATLG),
=NOTE= //          LRECL=80,RECFM=FB,UNIT=SYSDA,
=NOTE= //          SPACE=(TRK,(15,15),RLSE)
=NOTE= ***** END OF PREPARED JCL *****
000001 //PSCP9162   JOB MSGLEVEL=(1,1)
000002 //*%OPC SCAN
000003 //*****
000004 //* APPL   = &OADID.           JOB   = &JOBNAME.
000005 //* IA     = &OYMD1.&OHHMM.
000006 //*****
000007 //STEP1    EXEC PGM=MYPGM
000008 //SYSPRINT DD SYSOUT=*
000009 //IN       DD DISP=SHR,DSN=P390A.OCB.CNTL
000010 //OUT      DD DSN=P390I.OCB.CNTL.D030215.T0600,DISP=(,CATLG),
000011 //          LRECL=80,RECFM=FB,UNIT=SYSDA,
000012 //          SPACE=(TRK,(15,15),RLSE)
```

The simulated JCL is displayed

Simulate/Test a non TWS-Job

- Even a non TWS-Job can be simulated and tested at the same time with command OSJ JCK.
- This is demonstrated on the next slides

Simulate/Test a non TWS-Job

```
EDIT          DATA JCL HUK JOBLIB(SMARTJCL) - 01.01          Columns 00001 00072
Command ==> osj jck          Scroll ==> CSR
***** ** Top of Data *****
000001 //PSCP9167 JOB MSGLEVEL=(1,1)
000002 //*%OPC 9 AN
000003 //*****
000004 //* APPL &OADID. JOB = &JOBNAME.
000005 //* IA &OYMD1.&OHHMM.
000006 //*****
000007 //STEP1 EXEC PGM=MYPGM
000008 //SYSPR SYSOUT=*
000009 //IN DISP=SHR,DSN=P390A.OCB.CNTL
000010 //OUT DSN=P390I.OCB.CNTL.D&OYMD1..T&OHHMM.,DISP=(,CATLG),
000011 // LCL=80,RECFM=FB,UNIT=SYSDA,
000012 // CE=(TRK,(15,15),RLSE)
***** ** Bottom of Data *****
```

Call the simulation including JCL test with
OSJ JCK

Simulate/Test a non TWS-Job

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DATA.JCL.HUK.JOBLIB(SMARTJCL) - 01.01      Columns 00001 00072
Command ==> osjhuk jck                               Scroll ==> CSR
***** ***** Top of Data *****
00000
00000      OPC/SimJCL                                HORIZONT
00000
00000      Jobname not found in OPC-CP
00000      Additional search in OPC-AD?
00000      Yes or No? Y
00000
00001      &OHHMM.,DISP=(,CATLG),
00001
000012 //      SPACE=(5,15),RLSE)
***** ***** Bottom of Data *****

MA  b 14/032
```

SmartJCL reports that the job in Current Plan was not found and that you can search the job in Application Description. Enter "Y".

Simulate/Test a non TWS-Job

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DATA.JCL.HUK.JOBLIB(SMARTJCL) - 01.01      Columns 00001 00072
Command ==> osjhuk jck                               Scroll ==> CSR
***** ***** Top of Data *****
00000
00000 ----- OPC/SimJCL ----- Row 1 to 1 of 1
00000 Command ==> _____ Scroll ==> PAGE
00000
00000 Select line with S to start Simulation
00000 Enter Command SP to specify additional Parameters
00000
00000 Current Plan End Date   : 20030127   Time   : 2400
00000                      YYYMMDD      HHMM
00001 Simulation Date       ==> 20030215   Time ==> 0600
00001
00001 for origin AD enter Input Arrival Date and Time below
00001 Input Arrival Date    ==> 20030215   Time ==> 0600
****

Application ID  Jobname  Input Arrival  OpNo  WsId  origin
Date          Time
s SMARTJCLTEMPLATE SMARTJCL                010  CPU0  AD
***** Bottom of Data *****
```

s SMARTJCLTEMPLATE SMARTJCL 010 CPU0 AD

The sample job SMARTJCL of sample Application SMARTJCLTEMPLATE is found. If you had created multiple sample jobs in TWS, all of them would appear in a list. Choose one operation.

Simulate/Test a non TWS-Job

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT          DATA.JCL.HUK.JOBLIB(SMARTJCL) - 01.01          Columns 00001 00072
Command ==> _____ Scroll ==> CSR
*****
=NOTE= ***** Top of Data *****
=MSG> ***** JCL PREPARED BY OPC/SIMJCL *****
=MSG> MSG.NO.  ERROR MESSAGE
-----
=MSG> JCK0440E PROGRAM MYPGM      NOT FOUND ON SEARCH PATH
=NOTE= //*%OPC SCAN
=NOTE= //PSCP9160  JOB MSGLEVEL=(1,1)
=NOTE= //*****
=NOTE= //* APPL  = SMARTJCLTEMPLATE          JOB    = SMARTJCL
=NOTE= //* IA    = 0302150600
=NOTE= //*****
=NOTE= //STEP1  EXEC PGM=MYPGM
=MSG> JCK0440E PROGRAM MYPGM      NOT FOUND ON SEARCH PATH
=NOTE= //SYSPRINT DD SYSOUT=*
=NOTE= //IN      DD  DISP=SHR,DSN=P3901.OCB.CNTL
=NOTE= //OUT     DD  DSN=P3901.OCB.CNTL,DISP=(,CATLG),
=NOTE= //              LRECL=80,RECFM=FB,SPACE=(TRK,(15,15))
=NOTE= //              SPACE=(TRK,(15,15))
=NOTE= ***** END *****
000001 //*****
000002 //*****
000003 //*****
000004 //*****
000005 //*****
000006 //*****
000007 //STEP1  EXEC PGM=MYPGM
000008 //SYSPRINT DD SYSOUT=*
```



The JCL is displayed simulated including all found errors

TWS-Variable in Script

The simulation can also be used by “central Script posture”.

```
#!/BIN/KSH
#-----
#* TEST Script
#-----

TU="TEST_0"
SRVID="S001V1"
P1=" &MANDKEY ."
PFAD="/PROJECT/TEST/SCR/"
SCR="TEST01"

SUDO SU - TEST_0 -C "$PFAD$SCR $P1" ; EXIT $?
```

As example you can see a script with a TWS variable &MANDKEY

TWS-Variable in Script

E.g. Batch-Bridge Products are often used with TWS-Standard-Variable like &OJOBNAME, e.g.

```
//*%OPC SCAN
//STEP1 EXEC MYPROC
//MYSCRIPT DD *
#!/BIN/KSH
TU="TEST_0"
SRVID="S001V1"
P1="&MANDKEY."
PFAD="/PROJECT/TEST/SCR/"
SCR="TEST01"
SUDO SU - TEST_0 -C "$PFAD$SCR $P1 %X" ; EXIT $?
//SYSIN DD DSN=MY.XYLIB(L4711),DISP=SHR
// DD *
-C &OJOBNAME..&OOPNO..&OADID..&OYMD1..&OHHMM
```



TWS-Variable in script

```
***** JCL PREPARED BY SMARTJCL/SIMJCL *****
//P390KVS2 JOB CLASS=A,MSGCLASS=T,REGION=5M,NOTIFY=P390K
//*
//*%OPC SCAN
//STEP1 EXEC MYPROC
//MYSCRIPT DD DATA,DLM='$$'
#!/BIN/KSH
TU="TEST_0"
SRVID="S001V1"
P1="HORIZONTAL"
PFAD="/PROJECT/TEST/SCR/"
SCR="TEST01"

//*%OPC BEGIN ACTION=NOSCAN
SUDO SU - TEST_0 -C "$PFAD$SCR $P1 %x" >> /dev/null 2>> /dev/null
//*%OPC END ACTION=NOSCAN
$$
//SYSIN DD DSN=MY.XYLIB(L4711) DISP=SHR
// DD *
-C P390KVS2.075.HELMUTTESTV.030914.0600
***** END OF PREPARED JCL *****
//P390KVS2 JOB CLASS=A,MSGCLASS=T,REGION=5M,NOTIFY=P390K
//*
//*%OPC SCAN
```

With SmartJCL simulation function you can also simulate TWS variables in "central Scripts"

Display TWS-Information in editor in JCL

Display simulated JCL as NOTE-line or in temporary file

Display TWS-Data in the JCL

- In Edit Macro (with standard name OSJ) you can control with parameter TWSINFO if TWS data should be displayed (TWSINFO=Y) or not (TWSINFO=N). Extract from the Macro:
- “Select CMD (EXEC `&OPICLIST (OSJYMAC0) `”,
“ `CHK="PARAM" INI= DPT=N TWSINFO=Y `) NEWAPPL(OSJ) PASSLIB”
- Standard value is TWSINFO=N
- You can see the outcome on the next slide

Display TWS-Data in the JCL

```
File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      P390A.HUP.PLI.DEV($C1) - 01.02
COMMAND ==>
*****  ***** Top of Data *****
==MSG> PREDECESSORS:
==MSG> APPLICATION          OPNO  JOBNAME
==MSG> -----
==MSG> XINFO22                61  XXRJCM2
==MSG> XINFO22                60  XXRJCM1
==MSG> XINFO22                1
==MSG> SUCCESSORS:
==MSG> APPLICATION          OPNO  JOBNAME
==MSG> -----
==MSG> XINFO22                64  XXRJDBLC
==MSG> SPECIAL RESOURCES:
==MSG> -----
==MSG> DSN1
=NOTE= ***** JCL PREPARED BY SMARTJCL/SIMJCL *****
00001 //XXRJCM3  JOB (ACCOUNT),'HORIZONT',MSGCLASS=T,CLASS=A,
```

Display of important TWS-Information in JCL editor

Predecessor

Successor

Special resource

Simulated JCL as NOTE-line?

- In Edit Macro (with standard name OSJ) you can control with parameter DPT if the simulated and resolved JCL is displayed as NOTE-Line at the beginning of the edited member (DPT=N) or in a separated temporary file in ISPF-Browse (DPT=B). Here an extract of the macro:
- ```
"Select CMD (EXEC '&OPICLIST(OSJXMAC0) ',
" 'CHK=PARAM' INI= DPT=N TWSINFO=Y') NEWAPPL(OSJ) PASSLIB"
```
- Standard value is DPT=N

- The ISPF-Dialog of SmartJCL is integrated in your ISPF environment. Or through REXX JCKX called.

# SmartJCL ISPF-Dialog

The screenshot shows an ISPF dialog box with the following content:

```

Command ==> _____
Select one of the members (left) if you would like to check a single member or specify two members (from member-to member) if you would like to check a range of members.
Member ==> _____
Joblist ==> _____
If you do not specify any member, the Joblist will be used for selection.
JCL Library ==> DATA.JCK.HUK.JOBLIB _____
Submit ==> E S submit job, E edit before submit
```

Callout 1 (top): First enter the JCL-Library which contains the jobs you want to check

Callout 2 (bottom): Define whether the job you would like to generate should be started immediately (S) or whether you would like to see the job first in editor.

Bottom status bar: MA b 13/022

# SmartJCL ISPF-Dialog

- You can control with this panel whether you want to check a job, check from job to job or define a Jobmember from a Joblist.

Select one Job

From Job to Job

Select Jobs from a Joblist

# Check one Job Member

```
Sitzung B
----- SmartJCL -----
Command ==> _

Select one of the following options and press ENTER ,or specify OPT
to edit the parameters, or specify JOBLIST to edit the joblist.

Member ==> hahmvara - hahmvar2
Specify one member (left) if you would like to check
a single job, or specify two members (from member-to member)
if you would like to check a range of members.

Joblist ==> 90J.SMARTJCL.JOBLIST_____
If you do not specify any member, the Joblist will be used for
submission.

JCL Library ==> 90a.opc.joblib

Submit S submit job, E edit before submit

MA b 03/015
```

If you want to check exactly one job, enter a Membername in the left field (here with hahmvara). The right field has to be empty.

# Check "from Job" – "to Job"

```
Sitzung B
----- SmartJCL -----
Command ==> _

Select one of the following options and press ENTER ,or specify OPT
to edit the parameters, or specify JOBLIST to edit the joblist.

Member ==> hahmvara - hahmvar2
Specify one member (left) if you would like to check
a single job, or specify two members (from member-to member)
if you would like to check a range of members.

Joblist ==> 390J.SMARTJCL.JOBLIST_____
If you do not specify any member, the Joblist will be used for
submission.

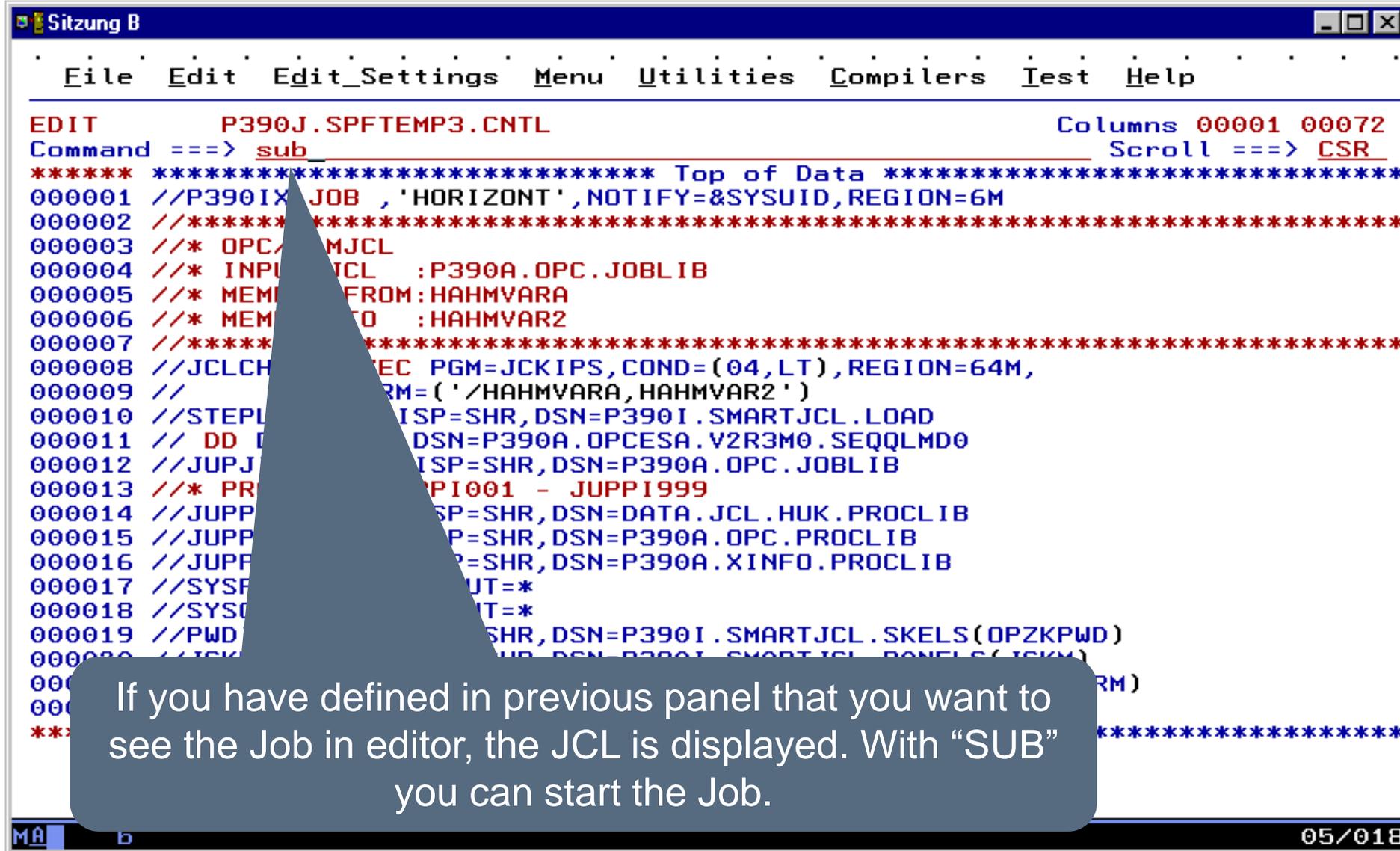
JCL Library ==> 390a.opc.joblib

Submit S submit job, E edit before submit

MA b 03/015
```

If you want to check from one job to a Job enter a Membername in the left field and the End Member in the right field.

# SmartJCL ISPF-Dialog



```
EDIT P390J.SPFTEMP3.CNTL Columns 00001 00072
Command ==> sub Scroll ==> CSR
***** Top of Data *****
000001 //P390IX JOB , 'HORIZONT', NOTIFY=&SYSUID, REGION=6M
000002 //*****
000003 //* OPC/MJCL
000004 //* INPUT JCL : P390A.OPC.JOBLIB
000005 //* MEM FROM: HAHMVARA
000006 //* MEM TO : HAHMVAR2
000007 //*****
000008 //JCLCH REC PGM=JCKIPS, COND=(04,LT), REGION=64M,
000009 // RM=('/HAHMVARA,HAHMVAR2')
000010 //STEP1 ISP=SHR, DSN=P390I.SMARTJCL.LOAD
000011 // DD DSN=P390A.OPCESA.V2R3M0.SEQQLMD0
000012 //JUPJ ISP=SHR, DSN=P390A.OPC.JOBLIB
000013 //* PR JUPI001 - JUPI999
000014 //JUPP ISP=SHR, DSN=DATA.JCL.HUK.PROCLIB
000015 //JUPP ISP=SHR, DSN=P390A.OPC.PROCLIB
000016 //JUPP ISP=SHR, DSN=P390A.XINFO.PROCLIB
000017 //SYSF UT=*
000018 //SYSO UT=*
000019 //PWD SHR, DSN=P390I.SMARTJCL.SKELS(OPZKPWD)
000020 //ISK SHR, DSN=P390I.SMARTJCL.PANELS(ISKX)
000021 //RM)

```

If you have defined in previous panel that you want to see the Job in editor, the JCL is displayed. With "SUB" you can start the Job.

# SmartJCL ISPF-Dialog - Result

Control the job. For a returncode 0 SmartJCL has not detected any JCL errors. You can see your JCL and the related messages in SYSPRINT.

```
Sitzung B
Display

SDSF OUTPUT
COMMAND IN
NS 02- 81
==> CSR

JCKIPS - CHECK JCL
HORIZONT GmbH, Munich, 2002, all rights reserved
Compiled with IBM PLI LE V1R1 at 9 SEP 02 15.00.33

Password check
CPU-Id : 11D511007490
Password(s) : OKYWBHYWHH
Product-ID : JCK
Password Check passed

JCK0040I FROM MEMBER HAHMVARA, TO MEMBER HAHMVAR2
000001 //HAHMVARA JOB ,,MSGCLASS=T
000002 //*%OPC SCAN
000003 //* JCL WITH OPC OCCURENCE RELATED VARIABLES
000004 //* OADID = &OADID.
000005 //* OYMD1 = &OYMD1. OHHMM = &OHHMM.
000006 //* OJOBNAME = &OJOBNAME.
000007 //* -----
000008 //* OCCURENCE RELATED OPC VARIABLES
000009 //* OADOWNER = &OADOWNER
000010 //* OAugROUP = &OAugROUP
000011 //* OCALID = &OCALID
000012 //* ODAY = &ODAY
000013 //* ODD = &ODD
000014 //* ODDD = &ODDD

MA b 05/021
```

# SmartJCL ISPF-Dialog - Results

```
Sitzung B
Display Filter

SDSF OUTPUT DISPL
COMMAND INPUT ==>
000007 /* OJOBNAME = &OJOBNAME.
000008 //S EXEC PGM=IEFBR14
LABEL MSG.NO. ERROR MESSAGE

000001 //HAHMVAR2 JOB ,,MSGCLASS=T
000002 /*%OPC SCAN
000003 /* OADID = &OADID.
000004 /* OYMD1 = &OYMD1.
000005 /* CDDMMYY = &CDDMMYY.
000006 /* OJOBNAME = &OJOBNAME.
000007 //S EXEC PGM=IEFBR14
LABEL MSG.NO. ERROR MESSAGE

Sequential input from JCKJCLI:
Jobs read: 0
Jobs with informations: 0
Jobs with warnings: 0
Jobs with errors: 0
Member input from JCKJI01 to JCKI99:
Members read: 13
Members with informations: 0
Members with warnings: 1
Members with errors: 3

JCKIPS ended at 12:47:05:150, RC=0008

***** BOTTOM OF DATA *****
MA b 05/021
```

A summary will be displayed at the end of SYSPRINT

COLUMNS 02- 81  
SCROLL ==> CSR

# Check many different jobs

```
Sitzung B
----- SmartJCL -----
Command ==> joblist

Select one of the following options and press ENTER ,or specify OPT
to edit the parameters, or specify JOBLIST to edit the joblist.

Member ==> _____ - _____
Specify one member (left) if you would like to check
a single job, or specify two members (from member-to member)
if you would like to check a range of members.

Joblist ==> P390J.SMARTJCL.JOBLIST_____
If you do not specify any member, the Joblist will be used for
selection.

JCL Library ==> _____JCL.HUK.JOBLIB_____

Submit ==> _____submit job, E edit before submit

MA b 03/022
```

If you want to check many different jobs, use command JOBLIST. Specify a file name in field Joblist.



# Check many different jobs

```
Sitzung B
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT P390J.SMARTJCL.JOBLIST Columns 00001 00072
Command ==> _____ Scroll ==> CSR
***** ***** Top of Data *****
000100 MEMBER=PSCP9159
000200 MEMBER=PSCP916*
***** ***** Bottom of Data *****
```

With MEMBER=jobname you can specify one job for each line. With placeholder % (for one character) and \* (for as many characters) you can select multiple Jobs.

```
insert a member in each line, wild cards * are % are allowed, i.e.:
MEMBER=MEM1
MEMBER=MEM4
MEMBER=MEM6
MEMBER=MEM2*
```

MA b 07/022

# Check many different jobs

```
Sitzung B
----- SmartJCL -----
Command ==>

Select one of the following options and press ENTER ,or specify OPT
to edit the parameters, or specify JOBLIST to edit the joblist.

Member ==> _____ - _____
Specify one member (left) if you would like to check
a single job, or specify two members (from member-to member)
if you would like to check a range of members.

Joblist ==> P390J.SMARTJCL.JOBLIST_____
If you do not specify any member, the Joblist will be used for
selection.

JCL Library ==> DATA.JCL.HUK.JOBLIB_____

Submit ==> E S submit job, E edit before submit

MA b 03/015
```

Specify if the job which is generated, should be started immediately (S) or if you want to see the Job in editor.

# Check many different jobs

```
EDIT P390J.SPFTEMP3.CNTL Columns 00001 00072
Command ==> sub Scroll ==> CSR
***** Top of Data *****
000001 //P390I JOB , 'HORIZONTAL', NOTIFY=&SYSUID, REGION=6M
000002 //*****
000003 //* OPC MJCL
000004 //* INP JCL : DATA.JCL.HUK.JOBLIB
000005 //* JOB : P390J.SMARTJCL.JOBLIST
000006 //*****
000007 //JCLCHKEC PGM=JCKIPS, COND=(04,LT), REGION=64M,
000008 // RM=(' ')
000009 //STEPL ISP=SHR, DSN=P390I.SMARTJCL.LOAD
000010 // DD DSN=P390A.OPCESA.V2R3M0.SEQQLMD0
000011 //JUPJ ISP=SHR, DSN=P390J.SMARTJCL.JOBLIST
000012 //JUPJ ISP=SHR, DSN=DATA.JCL.HUK.JOBLIB
000013 //* PROCLIB - JUPPI999
000014 //JUPJ ISP=SHR, DSN=DATA.JCL.HUK.PROCLIB
000015 //JUPJ ISP=SHR, DSN=P390A.OPC.PROCLIB
000016 //JUPJ ISP=SHR, DSN=P390A.XINFO.PROCLIB
000017 //SYSP T=*
000018 //SYSD =*
000019 //PWDIR, DSN=P390I.SMARTJCL.SKELS(OPZKPWD)
0000
0000
0000

```

If you have defined in previous panel that you want to see the job in editor, the JCL is displayed. With "SUB" you can start the Job.

MA b 05/018

# Check many different jobs

Control the job. For returncode 0 SmartJCL has not detected any JCL errors. You can see your JCL and the related messages in SYSPRINT.

```
Sitzung B
Display

SDSF OUTPUT
COMMAND IN

JCKIPS - CHECK JCL
HORIZONT GmbH, Munich, 2002, all rights reserved
Compiled with IBM PLI LE V1R1 at 9 SEP 02 15.00.33

Password check
CPU-Id : 11D511007490
Password(s) : OKYWBHYWHH
Product-ID : JCK
Password Check passed

JCK0050I START READING MEMBER LIST FROM JUPJMLI
000001 //*%OPC SCAN
000002 //*%OPC SETFORM OCDATA=(DYMMDD)
000003 //*%OPC SETVAR TDAY=(OCDATA + 1WD) /* NEXT WORKDAY */
000004 //*%OPC SETFORM OCTIME=(HHMM)
000005 //&OJOBNAME. JOB MSGLEVEL=(1,1)
.HAAA JCK0150E JOBNAME &OJOBNAME. EXCEEDED MAXIMUM LENGTH
000006 //*****
000007 /* APPL = ?130ADID. JOB = ?440JOBNAME.
000008 /* IA = ?130YMD1. ?200HHMM. TDAY = ?44TDAY.
000009 /* DATE = ?130OCDATA. TIME = ?44OCTIME.
000010 //*****
000011 //STEP1 EXEC PGM=MYPGM,PARM='/&TDAY'
.HAAB JCK0440E PROGRAM MYPGM NOT FOUND ON SEARCH PATH
000012 //SYSPRINT DD SYSOUT=*

.....
MA b 04/021
```

```
S 02- 81
==> CSR
```

# Check many different jobs

```
Sitzung B
Display

SDSF OUTPUT DISPLAY P390IX JOB09498 DSID 101 LINE 87 COLUMNS 02- 81
COMMAND INPUT ==> _ SCROLL ==> CSR
000010 //OUT DD DSN=P390I.OCB.CNTL.D&OYMD1..T&OHHMM.,DISP=(,CATLG),
000011 // LRECL=80,RECFM=FB,UNIT=SYSDA,
000012 // SPACE=(TRK,(15,15),RLSE)
.HAAB JCK0517E DATA SET IS ALREADY CATALOGED
.HAAB JCK0500I DSN = "P390I.OCB.CNTL.D&OYMD1..T&OHHMM."
LABEL MSG.NO. ERROR MESSAGE

.HAAA JCK0440E PROGRAM MYPGM NOT FOUND ON SEARCH PATH
.HAAB JCK0517E DATA SET IS ALREADY CATALOGED
.HAAB JCK0500I DSN = "P390I.OCB.CNTL.D&OYMD1..T&OHHMM."
Sequential input from JCKJCLI:
Jobs read: 0
Jobs with informations: 0
Jobs with warnings: 0
Jobs with errors: 0
Member input from JCKJI01 to JCKI99:
Members read: 4
Members with informations: 0
Members with warnings: 0
Members with errors: 4
Number of members found for member list entries (JUPJMLI):
PSCP9159 1
PSCP916* 3

JCKIPS ended at 12:45:05:836, RC=0008

***** BOTTOM OF DATA *****
.
MA b 04/021
```

A summary is displayed at the end of SYSPRINT

# TWS/SimJCL ISPF-Dialog

- The ISPF-Dialog of TWS-Simulation from SmartJCL is integrated into your ISPF-Environment. Or is called via REXX OSJX. This TWS-Simulation component is described with TWS/SimJCL.
- Following panel appears

```
Sitzung B
----- OPC/SimJCL Startpanel -----
Command ===>

Select one of the following options and press ENTER

1 AD - Select jobs from Application Description
2 CP - Select jobs from Current Plan
3 FORECAST - Select jobs from LTP or any future planning period

4 SIMULATE - Start JCL simulation based on previous selection (option 1,2 3)
5 CHECK - Start JCL check based on previous simulation (option 4)
6 CHECK - Start JCL check without simulation
7 REFORMAT - Start JCL reformat (pre release)

Note: Options 5 and 6 are only available, if a JCL checker is installed,
 for example SmartJCL

OPC/SimJCL 1.1
HORIZONT GmbH
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02/015
```

# TWS/SimJCL ISPF-Dialog

- The panel is divided into several groups. With menu item 1 to 3 you can select operations from AD-, CP-, and LTP or from any future day
- With menu item 4 selected operations from 1 to 3 are simulated
- With menu item 5 you can check the simulated JCL from menu item 4
- With menu item 6 you can check any JCL
- Menu item 7 is for formatting

## Selektion

Selection 1: Selection AD

Selection 2: Selection CP

Selection 3: Forecast

## Simulation

Selection 4: Simulation

## Check

Selection 5: Check with previous simulation

Selection 6. Check without previous simulation

# Menu 1 - AD

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
OSJP ----- OPC/SimJCL Startpanel -----
Command ==> 1

Select one of the following options and press ENTER

1 AD - Select jobs from Application Description
2 CP - Select jobs from Current Plan
3 FORECAST - Select jobs from LTP or any future planning period
4 SIMULATION - Start JCL simulation based on previous selection (option 1,2 3)
5 CHECK - Start JCL check based on previous simulation (option 4)
6 CHECK - Start JCL check without simulation
7 REFORMAT - Start JCL reformat (pre release)

Note: Options 5 and 6 are only available, if a JCL checker is installed,
 example SmartJCL

MA b 02/016
```

If you want to select operations from the Application Description, enter 1.

# AD – for x or all Applications

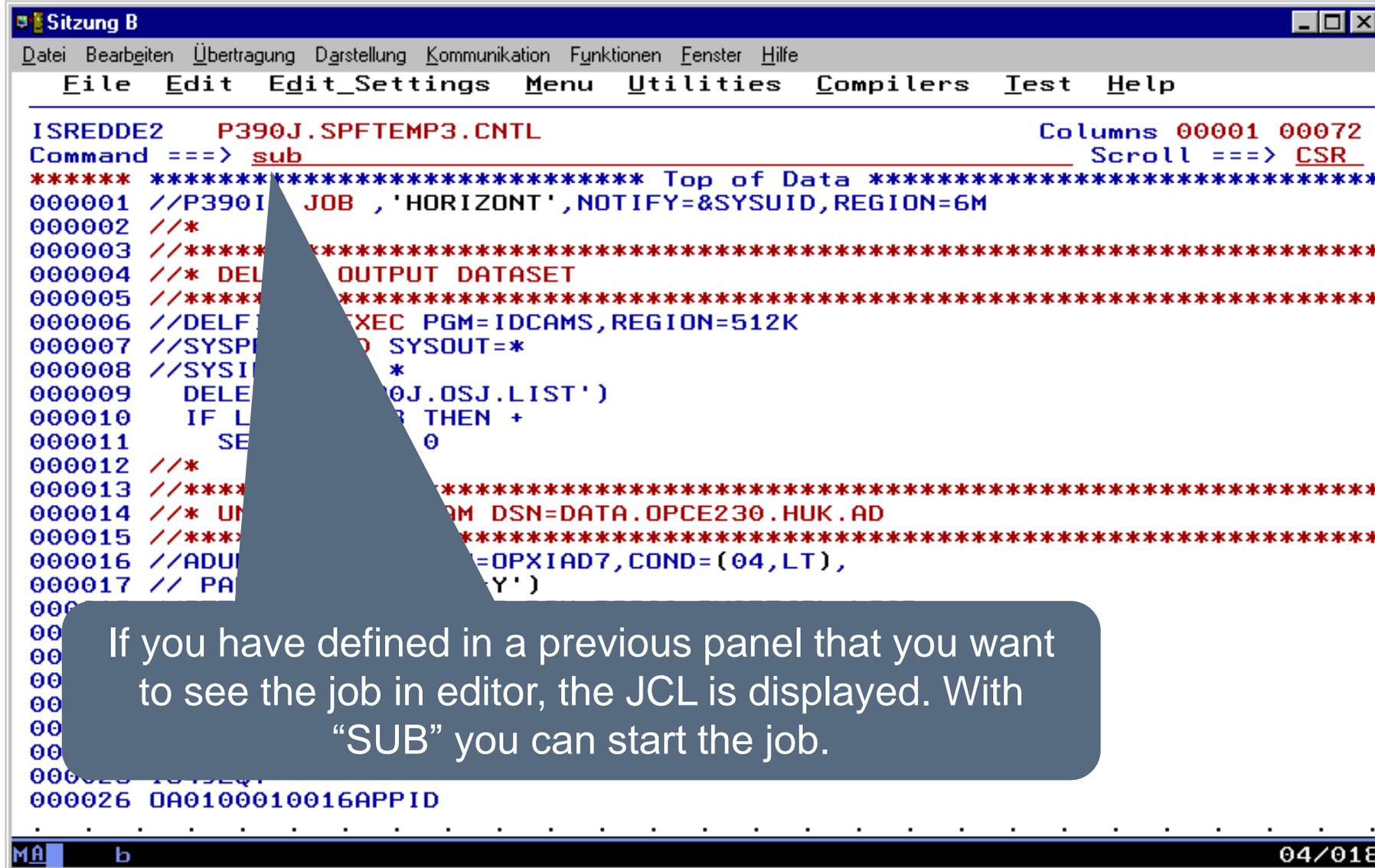
```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
OSJPAD ----- OPC/SimJCL Application Description -----
Command ==>

top : RESET restore default values, JC change jobcards
Selection
Application id ==> H1PCPE9*_____ leave blank for more selection criteria
OPC-Parameters
Release ==> 7 5 V2R1, 6 V2R2, 7 V2R3, 8 V8R1
AD-DSN ==> D OPCE230.HUK.AD_____
Output file
Joblist ==> OSJ.LIST_____
Submit ==> submit job, E edit before submit

MA b 06/031
```

If you want to do the selection over Application id enter your selection here. Specify "\*" for all jobs.

# AD – for x or all Applications



```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
File Edit Edit_Settings Menu Utilities Compilers Test Help

ISREDDE2 P390J.SPFTEMP3.CNTL Columns 00001 00072
Command ==> sub Scroll ==> CSR
***** Top of Data *****
000001 //P3901 JOB , 'HORIZONT', NOTIFY=&SYSUID, REGION=6M
000002 //*
000003 //*****
000004 //* DEL OUTPUT DATASET
000005 //*****
000006 //DELF EXEC PGM=IDCAMS, REGION=512K
000007 //SYSPD SYSOUT=*
000008 //SYSI *
000009 DELE (P390J.OSJ.LIST')
000010 IF L THEN +
000011 SE 0
000012 //*
000013 //*****
000014 //* UN M DSN=DATA.OPCE230.HUK.AD
000015 //*****
000016 //ADU =OPXIAD7, COND=(04,LT),
000017 // PA Y')
000018
000019
000020
000021
000022
000023
000024
000025
000026 DA0100010016APPID

MA b 04/018
```

If you have defined in a previous panel that you want to see the job in editor, the JCL is displayed. With “SUB” you can start the job.

# AD – for x or all Application

```
Sitzung B
Datei Bear
Dis
SDSF
COMMAN

1
R

N
----- MONDAY, 03 FEB 2003 -----
14.37.12 JOB09585 IRR010I USERID P390J IS ASSIGNED TO THIS JOB.
14.37.12 JOB09585 IEF677I WARNING MESSAGE(S) FOR JOB P390IX ISSUED
14.37.12 JOB09585 ICH7000I P390J LAST ACCESS AT 14:23:34 ON MONDAY, FEBRUAR
14.37.13 JOB09585 $HASP373 P390IX STARTED - INIT 1 - CLASS A - SYS P390
14.37.13 JOB09585 IEF403I P390IX - STARTED - TIME=14.37.13
14.37.15 JOB09585 - --TIMINGS (MINS.)--
14.37.15 JOB09585 -JOBNAME STEPNAM PROCSTEP RC EXCP CPU SRB CLOCK
14.37.15 JOB09585 -P390IX DELFILE 00 37 .00 .00 .0
14.37.35 JOB09585 -P390IX ADUNL 00 1655 .08 .00 .3
14.37.36 JOB09585 -P390IX OSJCOPY 00 47 .00 .00 .0
14.37.36 JOB09585 IEF404I P390IX - ENDED - TIME=14.37.36
14.37.36 JOB09585 -P390IX ENDED. NAME-HORIZONT TOTAL CPU TIME=
14.37.37 JOB09585 $HASP395 P390IX ENDED
----- JES2 JOB STATISTICS -----
03 FEB 2003 JOB EXECUTION DATE
50 CARDS READ
161 SYSOUT PRINT RECORDS
0 SYSOUT PUNCH RECORDS
8 SYSOUT SPOOL KBYTES
0.40 MINUTES EXECUTION TIME
***** BOTTOM OF DATA *****
MA b 04/021
```

Control the job. For returncode 0, SmartJCL has not detected any JCL errors. You can see your JCL and the related messages in SYSPRINT.

# AD – for x or all Applications

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
Display Filter View Print Options Help

SDSF JOB DATA SET DISPLAY - JOB P390IX (JOB09585) DATA SET DISPLAYED
COMMAND INPUT ==> SCROLL ==> CSR
NP DDNAME StepName ProcStep DSID Owner C Dest Rec-Cnt PAGE
JESMSGLG JES2 2 P390J T LOCAL 23
JESJCL JES2 3 P390J T LOCAL 39
JESYSMSG JES2 4 P390J T LOCAL 60
SYSPRINT DELFILE 104 P390J T LOCAL 10
s SYSPRINT ADUNL 105 P390J T LOCAL 24
SYSPRINT OSJCOPY 107 P390J T LOCAL 5
MA b 10/003
```

In SYSPRINT of step ADUNL you can see how many operations were found.

# AD – for x or all Applications

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
Display Filter View Print Options Help

SDSF OUTPUT DISPLAY P390IX JOB09585 DSID 105 LINE 0 COLUMNS 02- 81
COMMAND INPUT ==> _ SCROLL ==> CSR
***** TOP OF DATA *****

OPXIAD7 for Tivoli OPC Ver 2 Rel 3
HORIZONT GmbH, Munich, 2002, all rights reserved
Compiled with IBM PLI LE V1R1 at 13 DEC 02 17.20.27

Password check
CPU-Id : 11D511007490
Password(s) : OKEWBHIWEH
Product-ID : OSJ
Password Check passed

read AD-VSAM started : 14:37:18:829
...
Program ended : 14:37:34:081

Applications total : 3695
Applications selected : 9
Run-Cycles selected : 0
Operations selected : 39
Predecessors selected : 0
Return Code

MA b 04/021
```

Here 39 operations in 9 from 3695 applications have matched the selection.

# AD – extended Selection

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
Menu Utilities Compilers Help
BROWSE P390J.OSJ.LIST Line 00000000 Col 001 080
Command ==> _____ Scroll ==> CSR
***** Top of Data *****
H1PCPE9C008 STRT005
H1PCPE9C008 CPU0010PSCP9C08
H1PCPE9C008 ENDE099
H1PCPE90008 STRT005
H1PCPE90008 CPU0010PSCP9008
H1PCPE90008 CPU0095PSCP9098
H1PCPE90008 ENDE099
H1PCPE91008 STRT005
H1PCPE91008 CPU0010PSCP9178
H1PCPE91008 CPU0015PSCP9108
H1PCPE91008 CPU0020PSCP9158
H1PCPE91008 ENDE099
H1PCPE91008C STRT005
H1PCPE91008C CPU0010PSCP9178
H1PCPE91008C CPU0015PSCP9108
H1PCPE91008C CPU0020PSCP9158
H1PCPE91008C CPU0025PSCP9159
H1PCPE91008C CPU0030PSCP9160
H1PCPE91008C CPU0035PSCP9161
H1PCPE91008C ENDE099
```

The result is a file (default filename userid.OSJ.LIST) with all found operations. Columns of file: Application id, Workstation, Operationsnumber, Jobname

# AD – extended Selection

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
OSJPAD ----- OPC/SimJCL Application Description -----
Command ==>

top : RESET restore default values, JC change jobcards
Selection
Application id ==> _____ leave blank for more selection criteria
OPC-Parameters
Release ==> 7 5 V2R1, 6 V2R2, 7 V2R3, 8 V8R1
AD-DSN ==> DATA.OPCE230.HUK.AD_____
Output file
Joblist ==> P390J.OSJ.LIST_____
Submit ==> E S submit job, E edit before submit

MA b 07/025
```

If you can't do the selection over Application id, delete this field.

# AD – extended Selection

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
OPUPAD ----- APPLICATION DESCRIPTION SELECTION -----
Command ==> _

top: APP to edit the application list

Application id ==> _____
Type ==> _____ A application, G group
Jobname ==> _____
Owner id ==> _____
Status ==> _____ A active, P pending
Priority ==> _____ 1 - 9
Authority group id ==> _____
Valid from - to ==> _____ - _____ YYMMDD
Calendar id ==> _____
Workstation ==> _____
Group definition ==> _____

Note: Wildcards * and % are allowed in all selection fields!
```

Now you have different selection fields to choose from. The further sequence is identical to the previous one.

MA b 03/015

# AD – extended Selection

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
----- APPLICATION DESCRIPTION SELECTION -----
OPUPAD
Command ==> _
top: APP to edit the application list
Application id ==> _____
Type ==> _____ A application, G group
Jobname ==> _____
Owner id ==> _____
Status ==> _____ A active, P pending
Priority ==> _____ 1 - 9
Authority g ==> _____
Valid from ==> _____ - _____ YYMMDD
Calendar id ==> _____
Workstation ==> _____
Group definit ==> _____

Note: Wildcard characters are allowed in all selection fields!

MA b 03/015
```

Alternatively you can edit the application list with command "APP" which serves as a selection. The further sequence is identical to the previous one.

# Menu 2 - CP

```
Sitzung B
----- OPC/SimJCL Startpanel -----
Command ==> 2_

Select one of the following options and press ENTER

1 AD - Select jobs from Application Description
2 CP - Select jobs from Current Plan
3 FORECAST - Select jobs from LIP or any future planning period
4 SIMULATE - Start JCL simulation based on previous selection (option 1,2 3)
5 CHECK - Start JCL check based on previous simulation (option 4)
6 CHECK - Start JCL check without simulation
7 REFORMAT - Start JCL reformat (pre release)

Note: 5 and 6 are only available, if a JCL checker is installed,
 like SmartJCL

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MA b 02/016
```

Enter 2 if you want to select operations from Current Plan

OPC/SimJCL 1.1  
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all rights reserved, 2001

# CP – for x or all Applications

```
Sitzung B
----- OPC/SimJCL Current Plan -----
Command ==> _
top : RESET restore default values, JC change jobcards
Selection
Application id ==> H1PCPE9*_____ leave blank for more selection criteria
OPC-Parameters
Subsystem == OPCT
Release = 7 5 V2R1, 6 V2R2, 7 V2R3, 8 V8R1
MSG-LIB P390A.OPCESA.V2R3M0.SEQQMSG0_____
Output file
Joblist P390J.OSJ.LIST_____
Submit E S submit job, E edit before submit

MA b 02/015
```

If you are able to do your selection over Application id, enter your selection here. Enter "\*" for all applications.

# CP – for x or all Applications

```
EDIT P390J.SPFTEMP3.CNTL Columns 00001 00072
Command ==> sub Scroll ==> CSR
***** Top of Data *****
000001 //P390IX JOB , 'HORIZONT', NOTIFY=&SYSUID, REGION=6M
000002 //*
000003 //*****
000004 //* CRE EQQYPARM
000005 //*****
000006 //PARMG SEC PGM=IEBGENER
000007 //SYSIN DUMMY
000008 //SYSPR SYSPRINT SYSOUT=*
000009 //SYSOUT SYSOUT=*
000010 //SYSU
000011 INIT HIGHDATE(711231) SUBSYS(OPCT)
000012 //SYSU P=(NEW, PASS), DSN=&&PARM, SPACE=(TRK, (1, 1)),
000013 // SDA,
000014 // CL=80, RECFM=FB)
000015 //*
000016 //*
000017 //*****

000023 DELETE ('P390J.OSJ.LIST')
000024 IF LASTCC = 8 THEN +
000025 SET MAXCC = 0
000026 /*
```

If you have defined in previous panel that you want to see the job in editor, the JCL is displayed. With "SUB" you can start the job.

MA b 04/018

# CP – for x or all Applications

Control the job. For returncode 0, SmartJCL has not detected any JCL errors. You can see your JCL and the related messages in SYSPRINT.

```
Sitzung
Datei Be...
.
.
Disp...

SDSF C...
COMMAN...
***** TOP OF DATA *****
 J E S 2 J O B L O G -- S Y S T E M P 3 9 0 -- N

13.45.06 JOB09535 ---- MONDAY, 03 FEB 2003 ----
13.45.06 JOB09535 IRR010I USERID P390J IS ASSIGNED TO THIS JOB.
13.45.08 JOB09535 ICH70001I P390J LAST ACCESS AT 13:43:30 ON MONDAY, FEBRUAR
13.45.08 JOB09535 $HASP373 P390IX STARTED - INIT 1 - CLASS A - SYS P390
13.45.08 JOB09535 IEF403I P390IX - STARTED - TIME=13.45.08
13.45.09 JOB09535 -
13.45.09 JOB09535 -JOBNAME STEPNAME PROCSTEP RC EXCP CPU SRB CLOCK
13.45.09 JOB09535 -P390IX PARMGEN 00 40 .00 .00 .0
13.45.10 JOB09535 -P390IX DELETE 00 36 .00 .00 .0
13.45.17 JOB09535 -P390IX CPUNL 00 299 .01 .00 .1
13.45.17 JOB09535 IEF404I P390IX - ENDED - TIME=13.45.17
13.45.17 JOB09535 -P390IX ENDED. NAME-HORIZONT TOTAL CPU TIME=
13.45.17 JOB09535 $HASP395 P390IX ENDED

----- JES2 JOB STATISTICS -----
 03 FEB 2003 JOB EXECUTION DATE
 59 CARDS READ
 190 SYSOUT PRINT RECORDS
 0 SYSOUT PUNCH RECORDS
 9 SYSOUT SPOOL KBYTES
 0.17 MINUTES EXECUTION TIME
***** BOTTOM OF DATA *****

MA b 05/021
```

# CP – for x or all Applications

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe

Display Filter View Print Options Help

SDSF OUTPUT DISPLAY P390IX JOB09535 DSID 107 LINE 13 COLUMNS 02- 81
COMMAND INPUT ==> _ SCROLL ==> CSR
Data to OPMDAT = Y
Data to OPGPC = N
Data with operations = Y
Data with predecessors = Y
Data with successors = Y
Data with external predecessors = Y
Data with external successors = Y
Data with special resources = Y
Data with OI = N
OSJ List mode
Selection crit

App Id
OSJ List mode

Building the list with selected applica started at 13:45:15:181
Initial Application list

H1PCPE91008 0301270001
H1PCPE99999 0301270600
Building the list with selected applica tions ended at 13:45:15:619

For OsjList 10 Operations found.

OPGICPU ended at 13:45:15:994, RC=0000

***** BOTTOM OF DATA *****
MA b 05/021
```

10 operations matched to your selection

For OsjList 10 Operations found.

# CP – for x or all Applications

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
Menu Utilities Compilers Help

BROWSE P390J.OSJ.LIST Line 00000000 Col 001 080
Command ==> _____ Scroll ==> CSR
***** Top of Data *****
H1PCPE99999 STRT005 03012706000301270820.....
H1PCPE99999 CPU0010PSCPMT0303012706000301270821.....
H1PCPE99999 ENDE099 03012706000301270822.....
H1PCPE91008 STRT005 0301270001.....
H1PCPE91008 CPU0010PSCP91780301270001.....
H1PCPE91008 CPU0015PSCP91080301270001.....
H1PCPE91008 CPU0020PSCP91580301270001.....
H1PCPE91008 CPU0025PSCP91590301270001.....
H1PCPE91008 CPU0030PSCP91600301270001.....
H1PCPE91008 ENDE099 0301270001.....
***** Bottom of Data *****

MA b 04/015
```

The result is a file (default filename userid.OSJ.LIST) with all found operations. Columns of file: Application id, Workstation, Operationsnumber, Jobname, IA, planed Start time.

# CP – extended Selection

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
----- OPC/SimJCL Current Plan -----
Command ==>
top : RESET restore default values, JC change jobcards
selection
Application id ==> _____ leave blank for more selection criteria
OPC-Parameters
Subsystem ==> OPCT
Release ==> 7 5 V2R1, 6 V2R2, 7 V2R3, 8 V8R1
MSG-LIB ==> P390A.OPCESA.V2R3M0.SEQQMSG0_____
Output file
Joblist ==> P390J.OSJ.LIST_____
Submit ==> E S submit job, E edit before submit

MA b 06/025
```

If your not able to do the selection over Application id, delete the field.

# CP – extended Selection

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
----- CURRENT PLAN SELECTION ----- Value out of range
Command ==>

top: APP to edit the application list

Application ==> _____
Jobname ==> _____
Operation id ==> _____
Workstation ==> _____
Input arrival from ==> 030227 0001 YYMMDD HHMM
to ==> 030227 2400 YYMMDD HHMM
Planned start from ==> _____ YYMMDD HHMM
to ==> _____ YYMMDD HHMM
Actual start from ==> _____ YYMMDD HHMM
to ==> _____ YYMMDD HHMM
Owner id ==> _____
Authority group id ==> _____
Group definition ==> _____
Priority ==> _____ 1 - 9
Application status ==> _____ W S C D E U
Operation status ==> _____ A R * S I C E W U D
On critical path ==> _____ Y N

Note: Wildcards * and % are allowed in all input fields!
```

Now you have different selection fields to choose from. The further sequence is identical to the previous one.

# CP – extended Selection

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
----- CURRENT PLAN SELECTION ----- Value out of range
Command ==>
top: APP to edit the application list
Application ==> _____
Jobname ==> _____
Operation ==> _____
Workstation ==> _____
Input arrival from ==> 030227 0001 YYMMDD HHMM
 ==> 030227 2400 YYMMDD HHMM
Planned start from ==> _____ YYMMDD HHMM
 ==> _____ YYMMDD HHMM
Actual start from ==> _____ YYMMDD HHMM
 ==> _____ YYMMDD HHMM
Owner id ==> _____
Authority group ==> _____
Group definition ==> _____
Priority ==> _____ 1 - 9
Application ==> _____ W S C D E U
Operation status ==> _____ A R * S I C E W U D
On critical path ==> _____ Y N

Note: Wildcards are allowed in all input fields!
```

Alternatively you can edit the Application List with command "APP" which serves as a selection. The further sequence is identical to the previous one.

MA b 02/015

# Menu 3 - Forecast

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
OSJP ----- OPC/SimJCL Startpanel -----
Command ==> 3

Select one of the following options and press ENTER

1 AD - Select jobs from Application Description
2 CP - Select jobs from Current Plan
3 FORECAST - Select jobs from LTP or any future planning period
4 SIMULATE - Start JCL simulation based on previous selection (option 1,2 3)
5 CHECK - Start JCL check based on previous simulation (option 4)
6 CHECK - Start JCL check without simulation
7 REFORMAT - JCL reformat (pre release)

Note: Options 5 and 6 are only available, if a JCL checker is installed,
 and JCL checker is installed.

MA b 03/016
```

Enter 3 if you want to select operations from Long Term Plan or for every future day.

# Menu 3 - Forecast

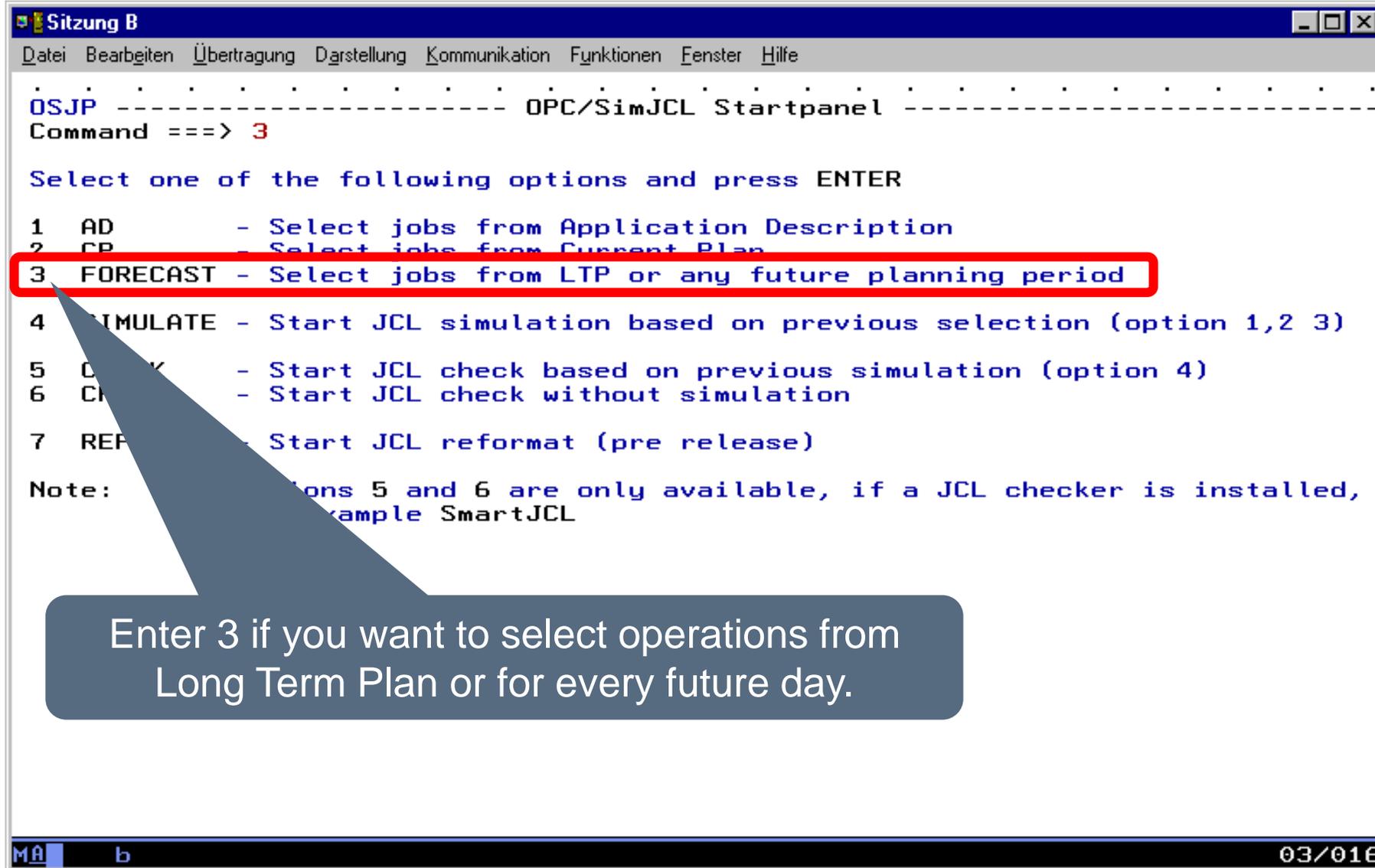
For x or all Applications from AD

For x Applications from AD with extended selection

For all Applications aus LTP

For x Applications from LTP with extended selection

# Forecast – for x or all Applications



```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
OSJP ----- OPC/SimJCL Startpanel -----
Command ==> 3

Select one of the following options and press ENTER

1 AD - Select jobs from Application Description
2 CP - Select jobs from Current Plan
3 FORECAST - Select jobs from LTP or any future planning period
4 SIMULATE - Start JCL simulation based on previous selection (option 1,2 3)
5 CHECK - Start JCL check based on previous simulation (option 4)
6 CHECK - Start JCL check without simulation
7 REFORMAT - Start JCL reformat (pre release)

Note: Options 5 and 6 are only available, if a JCL checker is installed,
 Example SmartJCL

MA b 03/016
```

Enter 3 if you want to select operations from Long Term Plan or for every future day.

# Forecast – for x or all Applications

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe

OSJPLT ----- OPC/SimJCL Forecast -----
Command ==>

top : RESET restore default values, JC change jobcards

Selection
Application id ==> H1PCPE9*_____ leave blank for more selection criteria
Database ==> F L Existing Long Term Plan, F Forecast
Forecast Period
From ==> 030215 0001 YYMMDD HHMM
To ==> 030215 2400 YYMMDD HHMM

OPC Parameters
Release ==> 7 5 V2R1, 6 V2R2, 7 V2R3, 8 V8R1
AD VSAM ==> DATA.OPCE230.HUK.AD_____
WS VSAM ==> DATA.OPCE230.HUK.WS_____
RD VSAM ==> DATA.OPCE230.HUK.RD_____
SI VSAM ==> P390A.OPCESA.V2R3M0.SI_____
LT VSAM ==> P390A.OPCESA.V2R3M0.LT_____
Output
Joblist ==> P390J.OSJ.LIST_____
Submit ==> E S submit job, E edit before submit

MA b 08/025
```

Enter here your simulation period  
(Startdate,-time; Enddate,-time)

# Forecast – for x or all Applications

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe

OSJPLT ----- OPC/SimJCL Forecast -----
Command ==>

top : RESET restore default values, JC change jobcards

Selection
Application id ==> H1PCPE9*
Database ==> F L Existing Long Term Plan, F Forecast
Forecast Period
From ==> 030215 0001 YYMMDD HHMM
To ==> 030215 2400 YYMMDD HHMM

OPC Parameters
Release > 7 5 V2R1, 6 V2R2, 7 V2R3, 8 V8R1
AD VSAM > DATA.OPCE230.HUK.AD
WS VSAM > DATA.OPCE230.HUK.WS
RD VSAM > DATA.OPCE230.HUK.RD
SI VSAM > P390A.OPCESA.V2R3M0.SI
LT VSAM > P390A.OPCESA.V2R3M0.LT

Output
Joblist > P390J.OSJ.LIST

Submit > E S submit job, E edit before submit

MA b 08/025
```

Please enter here if Applications from Long Term Plan (L) should be determined or from Forecast (F).

# Forecast – for x or all Applications

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
----- OPC/SimJCL Forecast -----
Command ==>

top : RESET restore default values, JC change jobcards

Selection
Application id ==> H1PCPE9* _____ leave blank for more selection criteria
Database ==> E _____ Existing Long Term Plan E Forecast

Forecast Period
From ==> 030215 0001 YYMMDD HHMM
To ==> 030215 0000 YYMMDD HHMM

OPC Parameters
Release ==> 7 5 V _____ 6 V2R2, 7 V2R3, 8 V8R1
AD VSAM ==> DATA.OP _____ .HUK.AD _____
WS VSAM ==> DATA.OP _____ .HUK.WS _____
RD VSAM ==> DATA.OP _____ .HUK.RD _____
SI VSAM ==> P390A. _____ V2R3M0.SI _____
LT VSAM ==> P390A. _____ V2R3M0.LT _____

Output
Joblist ==> P390J _____

Submit ==> E _____ it job, E edit before submit

MA b 08/025
```

If you want to do the selection over Application id enter here your selection. Specify \* for all jobs.

# Forecast – for x or all Applications

```
Sitzung B
----- OPC/SimJCL Forecast -----
Command ==> _
top : RESET restore default values, JC change jobcards
Selection
Application id ==> _____ leave blank for more selection criteria
Database -----> _____ Existing Long Term Plan, F Forecast
Forecast Period
From ==> 030217 0001 YYMMDD HHMM
To ==> 030215 2400 YYMMDD HHMM
OPC Parameters
Release > 7 5 V2R1, 6 V2R2, 7 V2R3, 8 V8R1
AD VSAM > DATA.OPCE230.HUK.AD _____
WS VSAM > DATA.OPCE230.HUK.WS _____
RD VSAM > DATA.OPCE230.HUK.RD _____
SI VSAM > P390A.OPCESA.V2R3M0.SI _____
LT VSAM > P390A.OPCESA.V2R3M0.LT _____
Output
Joblist > P390J.OSJ.LIST _____
Submit ==> E S submit job, E edit before submit
```

If you are not able to do the selection via Application id, delete it.

MA b 03/015

# Forecast – for x or all Applications

```
Sitzung B
----- APPLICATION DESCRIPTION SELECTION -----
Command ==>

top: APP to edit the application list

Application id ==> _____
Type ==> _____ A application, G group
Jobname ==> _____
Owner id ==> _____
Status ==> _____ A active, P pending
Priority ==> _____ 1 - 9
Authority group id ==> _____
Valid from - to ==> _____ - _____ YYYYMMDD
Calendar id ==> _____
Workstation ==> _____
Group definition ==> _____

Note: Wildcards * and % are allowed in all selection fields!
```

Now you can select different selection fields. The further sequence is identical to previous one.

MA b 03/015

# Forecast – for x or all Applications

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe

File Edit Edit_Settings Menu Utilities Compilers Test Help

ISREDDE2 P390J.SPFTEMP3.CNTL Columns 00001 00072
Command ==> sub Scroll ==> CSR
***** Top of Data *****
000001 //P390IX JOB , 'HORIZONT', NOTIFY=&SYSUID, REGION=6M
000002 //*
000003 //*****
000004 //* GEN LOUT EQQPARM FOR EQQLTCRE
000005 //* GEN POUT EQQPARM FOR EQQDNTOP
000006 //* GEN POUT CHECKPOINT FOR EQQDNTOP
000007 //*****
000008 //INCR GM=OPGIGEN, REGION=2M,
000009 // PARM
000010 //STEPL MR, DSN=P390I.SMARTJCL.LOAD
000011 // DD P390A.OPCESA.V2R3M0.SEQQLMD0
000012 //SYSI
000
000
000
000
000
000
000018 //SYSPRINT DD SYSOUT=*
000019 //PARMOUT DD DISP=(NEW,PASS), DSN=&&PARM, SPACE=(TRK,(1,1)),
000020 // UNIT=SYSDA,
000021 // DCB=(LRECL=80, RECFM=FB)
000022 //CKPOUT DD DISP=(NEW,PASS), DSN=&&CKPT,
000023 // UNIT=SYSDA,
000024 // SPACE=(TRK,1), RECFM=U, LRECL=8200, BLKSIZE=8200
000025 //CPOUT DD DISP=(NEW,PASS), DSN=&&CPPARM, SPACE=(TRK,(1,1)),
000026 // UNIT=SYSDA,

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```

If you have defined that you want to see the job in editor, the JCL is displayed. With “SUB” you can start the job.

# Forecast – for x or all Applications

Control the job. For returncode 0, SmartJCL has not detected any JCL errors. The SYSPRINT shows your JCL and the related messages.

| DDNAME   | Stepname | Procstep | DSID | Owner | C | Dest  | Rec-Cnt | PAGE |
|----------|----------|----------|------|-------|---|-------|---------|------|
| JESMSGLG | JES2     |          | 2    | P390J | T | LOCAL | 36      |      |
| JESJCL   | JES2     |          | 3    | P390J | T | LOCAL | 231     |      |
| JESYSMSG | JES2     |          | 4    | P390J | T | LOCAL | 507     |      |
| SYSPRINT | INCREATE |          | 110  | P390J | T | LOCAL | 19      |      |
| SYSPRINT | ADDPARM  |          | 111  | P390J | T | LOCAL | 4       |      |
| SYSPRINT | ALLCVSAM |          | 113  | P390J | T | LOCAL | 201     |      |
| LTREPORT | LTCREATE |          | 114  | P390J | T | LOCAL | 5,315   |      |
| EQQMLOG  | LTCREATE |          | 115  | P390J | T | LOCAL | 1,580   |      |
| SYSOUT   | LTCREATE |          | 116  | P390J | T | LOCAL | 109     |      |
| EQQMLOG  | CPCREATE |          | 121  | P390J | T | LOCAL | 11      |      |
| SYSOUT   | SORT     |          | 126  | P390J | T | LOCAL | 26      |      |
| EQQMLOG  | DPREPORT |          | 127  | P390J | T | LOCAL | 8       |      |
| SYSPRINT | DELVSAM  |          | 132  | P390J | T | LOCAL | 71      |      |
| SYSPRINT | DELFILE  |          | 133  | P390J | T | LOCAL | 10      |      |
| SYSPRINT | ADUNL    |          | 134  | P390J | T | LOCAL | 24      |      |
| SYSPRINT | OSJCOPY  |          | 136  | P390J | T | LOCAL | 5       |      |
| SYSPRINT | LTPUNL   |          | 137  | P390J | T | LOCAL | 24      |      |

# Forecast – for x or all Applications

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe

Display Filter View Print Options Help

SDSF OUTPUT DISPLAY P390IX JOB09612 DSID 134 LINE 0 COLUMNS 02- 81
COMMAND INPUT ==> _ SCROLL ==> CSR
***** TOP OF DATA *****

OPXIAD7 for Tivoli OPC Ver 2 Rel 3
HORIZONT GmbH, Munich, 2002, all rights reserved
Compiled with IBM PLI LE V1R1 at 13 DEC 02 17.20.27

Password check
CPU-Id : 11D511007490
Password(s) : OKEWBHIWEH
Product-ID : OSJ
Password Check passed

read AD-VSAM started : 15:33:54:422
...
Program ended : 15:34:06:236

Applications total : 3695
Applications selected : 9
Run-Cycles selected : 0
Operations selected : 39
Spec-Res selected : 0
Predecessors
Return Code

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```

Here 39 operations in 9 from 3695 Applications correspond to the selection.

# Forecast – for x or all Applications

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
Menu Utilities Compilers Help
BROWSE P390J.OSJ.LIST Line 00000000 Col 001 080
Command ==> Scroll ==> CSR
***** Top of Data *****
H1PCPE9C008 STRT005 03021500000302151041
H1PCPE9C008 CPU0010PSCP9C0803021500000302151042
H1PCPE9C008 ENDE099 03021500000302151338
H1PCPE90008 STRT005 03021500000302150509
H1PCPE90008 CPU0010PSCP900803021500000302150510
H1PCPE90008 CPU0095PSCP909803021500000302150717
H1PCPE90008 ENDE099 03021500000302150742
H1PCPE91008 STRT005 03021500000302150743
H1PCPE91008 CPU0010PSCP917803021500000302150744
H1PCPE91008 CPU0015PSCP910803021500000302150819
H1PCPE91008 CPU0020PSCP915803021500000302150853
H1PCPE91008 ENDE099 03021500000302150927
H1PCPE91008C STRT005 03021500000302150743
H1PCPE91008C CPU0010PSCP917803021500000302150744
H1PCPE91008C CPU0015PSCP910803021500000302150819
H1PCPE91008C CPU0020PSCP915803021500000302150853
H1PCPE91008C CPU0025PSCP915903021500000302150853
H1PCPE91008C CPU0030PSCP916003021500000302150853
H1PCPE91008C CPU0035PSCP916103021500000302150853
H1PCPE91
H1PCPE93
H1PCPE93
H1PCPE93
H1PCPE93
H1PCPE93
H1PCPE93
H1PCPE94

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```

The result is a file (default filename userid.OSJ.LIST) with all found operations. Columns of file: Application id, Workstation, Operationsnumber, Jobname, IA, planed Start time.

# Menu 4 - Simulation

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
OSJP ----- OPC/SimJCL Startpanel -----
Command ==> 4

Select one of the following options and press ENTER

1 AD - Select jobs from Application Description
2 CP - Select jobs from Current Plan
3 FORECAST - Select jobs from LTP or any future planning period
4 SIMULATE - Start JCL simulation based on previous selection (option 1,2 3)
5 CHECK - Start JCL check based on previous simulation (option 4)
6 CHECK - Start JCL check without simulation
7 REFORMAT - Start JCL reformat (pre release)

Note: Options 5 and 6 are only available, if a JCL checker is installed,
for example SmartJCL

MA b 03/016
```

You can start the simulation with menu item 4

# Simulation

```
Sitzung B
Datei Bearbeiten Übertra
OSJPTIME ----
Command ==>
Specify filenames and start time, then press ENTER
Files
Joblist (Input) ==> P390J.OSJ.LIST_____ optional
Joblist (Input) ==> _____
JCL (Output) ==> P390J.OSJ.JCLOUT_____
Simulation
Variable table ==> _____
Input Arrival ==> 030215 0001 YYMMDD HHMM
Planned Start ==> 030215 0001 YYMMDD HHMM
Option ==> U
A Use times for all jobs
U Use times only for jobs where the input
arrival or planned start time is unknown
Parameters
Sort ==> Y Y , N Sort jobs by Planned start time
Submit ==> E S submit job, E edit before submit
MA b 03/015
```

Specify the input file. This is the Joblist file from previous Menu item 1 to 3.

Joblist (Input) ==> P390J.OSJ.LIST\_\_\_\_\_ optional

Simulation  
Variable table ==> \_\_\_\_\_  
Input Arrival ==> 030215 0001 YYMMDD HHMM  
Planned Start ==> 030215 0001 YYMMDD HHMM  
Option ==> U  
A Use times for all jobs  
U Use times only for jobs where the input arrival or planned start time is unknown  
Parameters  
Sort ==> Y Y , N Sort jobs by Planned start time  
Submit ==> E S submit job, E edit before submit

# Simulation

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
----- OPC/SimJCL Simulation -----
Command ==> _

Specify filenames and simulation time, then press ENTER

Files
Joblist (Input) ==> P390J.OSJ.LIST_____ optional
Joblib (Input) ==> _____ optional
JCL (Output) ==> P390J.OSJ.JCLOUT_____
Simulation
Variable table ==> _____
Input Arrival ==> 03021 01 YYMMDD HHMM
Planned Start ==> 03021 01 YYMMDD HHMM
Option ==> U A Use times for all jobs
U Use times only for jobs where the input
arrival or planned start time is unknown

Parameters
Sort
Submit

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```

Specify the output file, to which the simulated JCL should be written.

# Simulation

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
----- OPC/SimJCL Simulation -----
Command ==> _

Specify filenames and simulation time, then press ENTER

Files
Joblist (Input) ==> P390J.OSJ.LIST_____ optional
Joblib (Input) ==> _____ optional
JCL (Output) ==> P390J.OSJ.JCLOUT_____ optional

Simulation
Variable table ==> _____
Input Arrival ==> 030215 0001 YYMMDD HHMM
Planned Start ==> 030215 0001 YYMMDD HHMM
Option ==> U A Use times for all jobs
 U Use times only for jobs where the input
 arrival or planned start time is unknown

Parameters
Sort > Y Y , N Sort jobs by Planned start time
Submit > E S submit job, E edit before submit

MA b 03/015
```

Specify your desired simulation period. You can specify a IA (for &O variables) as well as a scheduled start time (for &C variables). With option “A” the scheduled start time for all operations is used, with “U” only for operations which contain no planed start time.

# Simulation

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe

File Edit Edit_Settings Menu Utilities Compilers Test Help

ISREDDE2 P390J.SPFTMP3.CNTL Columns 00001 00072
Command ==> sub Scroll ==> CSR
***** Top of Data *****
000001 //P390J JOB , 'HORIZONT', NOTIFY=&SYSUID, REGION=6M
000002 //*
000003 //*****
000004 //* CRE EQQYPARM
000005 //*****
000006 //PARM EXEC PGM=IEBGENER
000007 //SYSIN DUMMY
000008 //SYSOUT SYSOUT=*
000009 //SYSOUT SYSOUT=*
000010 //SYSU
000011 INIT () HIGHDATE(711231) SUBSYS(OPCT)
000012 //SYSU SP=(NEW,PASS), DSN=&&PARM, SPACE=(TRK,(1,1)),
000013 //
000014 // YSDA,
000015 // RECL=80, RECFM=FB)
000016 //*****
000017 //*****
000018 //*****
000019 //*****
000020 //*****
000021 //*****
000022 //*****
000023 //*****
000024 SET MAXCC = 0
000025 //*
000026 //*****
```

If you have defined in the previous panel that you want to see the job in editor, the JCL is displayed. With "SUB" you can start the job.



# Simulation

If problems have occurred during the simulation, the relevant operation is reported to you.

```
Sitzung
Datei Bearb
Disp

SDSF Output of DISP=PSJOB 00000000 0302 114 LINE 155 COLUMNS 02 01
COMMAND INPUT ==> SCROLL ==> CSR
OSJM329E NO JCL FOUND OR OPERATION NOT IN AD: JOB=PSDPCAT5, ADID=H1PDAP30200
OSJM329E NO JCL FOUND OR OPERATION NOT IN AD: JOB=PSDPCAT6, ADID=H1PDAP30200
OSJM329E NO JCL FOUND OR OPERATION NOT IN AD: JOB=PSDPCAT7, ADID=H1PDAP30200
OSJM329E NO JCL FOUND OR OPERATION NOT IN AD: JOB=PSDPINFO, ADID=H1PDAP30200
OSJM329E NO JCL FOUND OR OPERATION NOT IN AD: JOB=PSDPCAT8, ADID=H1PDAP30240
030203 19:09:06:862 Error in prc. JPSEL.
PIF returncode : 8
PIF resource : JCLPREPA
Application Id : H1PCPE91008C
IA : 0302150000
Operation number: 020
Simulation type : FULL
Simulation time : 200302150853
The request was unsuccessful.
Please see EQQMLOG from job/user and/or EQQMLOG from OPC/TWS controller.
030203 19:09:07:932 Error in prc. JPSEL.
PIF returncode : 8
PIF resource : JCLPREPA
Application Id : H1PCPE91008C
IA : 0302150000
Operation number: 035
Simulation type : FULL
Simulation time : 200302150853
The request was unsuccessful.
Please see EQQMLOG from job/user and/or EQQMLOG from OPC/TWS controller.
030203 19:09:08:727 Error in prc. JPSEL.
PIF returncode : 8
.
MA b 04/021
```

# Simulation

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
Display Fi

SDSF OUTPUT DISPLAY UPCT STC09484 DSID 101 LINE 1,169 COLUMNS 17- 96
COMMAND INPUT ==> SCROLL ==> CSR
EQQJ586W TEMPORARY VARIABLE T01 IN SETVAR DIRECTIVE NOT REFERRED IN JCL.
EQQJ586I JOBNAME: PSSOTM18
EQQJ586W TEMPORARY VARIABLE T00 IN SETVAR DIRECTIVE NOT REFERRED IN JCL.
EQQJ586I JOBNAME: PSSOTM18
EQQJ586W TEMPORARY VARIABLE T15 IN SETVAR DIRECTIVE NOT REFERRED IN JCL.
EQQJ586I JOBNAME: PSSOTM18
EQQJ586W TEMPORARY VARIABLE T01 IN SETVAR DIRECTIVE NOT REFERRED IN JCL.
EQQJ586I JOBNAME: PSSOTM25
EQQJ586W TEMPORARY VARIABLE T00 IN SETVAR DIRECTIVE NOT REFERRED IN JCL.
EQQJ586I JOBNAME: PSSOTM25
EQQJ586W TEMPORARY VARIABLE TYYMMDD IN SETVAR DIRECTIVE NOT REFERRED IN JCL.
EQQJ586I JOBNAME: PSSOTM25
EQQJ586W TEMPORARY VARIABLE T15 IN SETVAR DIRECTIVE NOT REFERRED IN JCL.
EQQJ586I JOBNAME: PSSOTM25
EQQJ586W TEMPORARY VARIABLE T01 IN SETVAR DIRECTIVE NOT REFERRED IN JCL.
EQQJ586I JOBNAME: PSSOTM01
EQQJ586W TEMPORARY VARIABLE T00 IN SETVAR DIRECTIVE NOT REFERRED IN JCL.
EQQJ586I JOBNAME: PSSOTM01
EQQJ586W TEMPORARY VARIABLE T15 IN SETVAR DIRECTIVE NOT REFERRED IN JCL.
EQQJ586I JOBNAME: PSSOTM01
EQQJ586W TEMPORARY VARIABLE T01 IN SETVAR DIRECTIVE NOT REFERRED IN JCL.
EQQJ586I JOBNAME: PSSOTM06
EQQJ586W TEMPORARY VARIABLE T00 IN SETVAR DIRECTIVE NOT REFERRED IN JCL.
EQQJ586I JOBNAME: PSSOTM06
EQQJ586W TEMPORARY VARIABLE T15 IN SETVAR DIRECTIVE NOT REFERRED IN JCL.
EQQJ586I JOBNAME: PSSOTM06
EQQJ586W TEMPORARY VARIABLE T01 IN SETVAR DIRECTIVE NOT REFERRED IN JCL.
.
MA b 04/021
```

After EQQMLOG TWS report his notifications

# Simulation

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
Menu Utilities Compilers Help

BROWSE P390J.OSJ.JCLOUT Line 00000000 Col 001 080
Command ==> _____ Scroll ==> CSR
***** Top of Data *****
//*>OPC SEARCH NAME=(T030215,$H1SON)
//PSSOAP01 JOB MSGCLASS=R,NOTIFY=,REGION=0M,
//*>OPC FETCH PHASE=SETUP,MEMBER=FETCHSCA,COMP=(&TEST..EQ.SCAN)
//
// MSGLEVEL=(1,1)
//*MAIN CLASS=PS,PROC=0J
//*>OPC FETCH PHASE=SETUP,MEMBER=FETCHDOK
//*-----
//*>OPC SETFORM CDATE=(DD.MM.CCYY)
//*>OPC SETFORM CTIME=(HH:MM)
//*>OPC SETFORM OCTIME=(HH:MM)
//*-----
//* OWNER = OPCAP
//* APPLIKAT. = H2PAP000010
//* OPER-NR. = 010
//* JOBNAME = PSSOAP01
//* PLANDATUM = 15.02.2003
//* PLANZEIT = 00:00
//* LAUFDATUM = 15.02.2003
//* LAUFZEIT = 00:01
//*-----
//*>OPC FETCH PHASE=SETUP,MEMBER=FETCHTST,COMP=(&TEST..EQ.TEST)
//*-----
//* ZUR
//*-----
//STEP1 EXEC
//#PSSTEP INCL 00070000

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```

The simulated or resolved JCL is in the file  
userid.OSJ.JCLOUTs

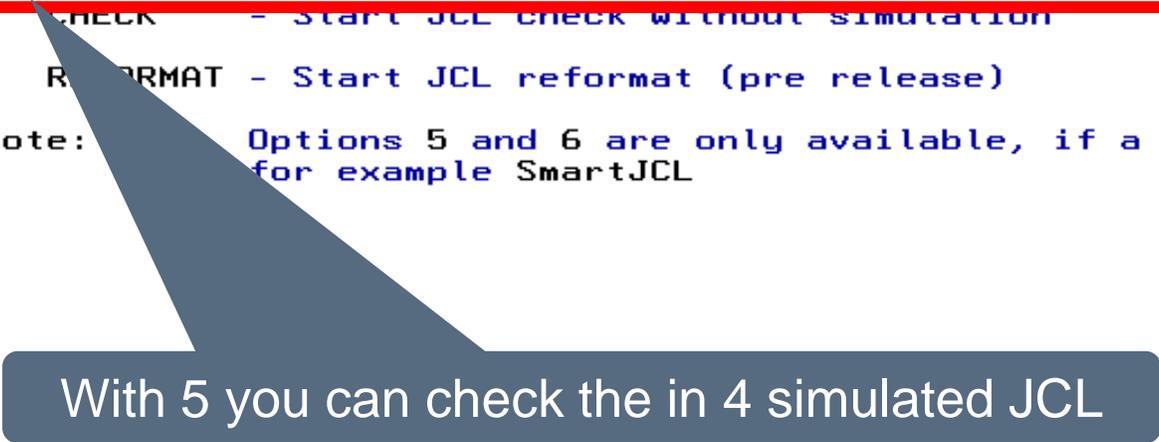
# Check of the simulated JCL

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
OSJP ----- OPC/SimJCL Startpanel -----
Command ==> 5

Select one of the following options and press ENTER

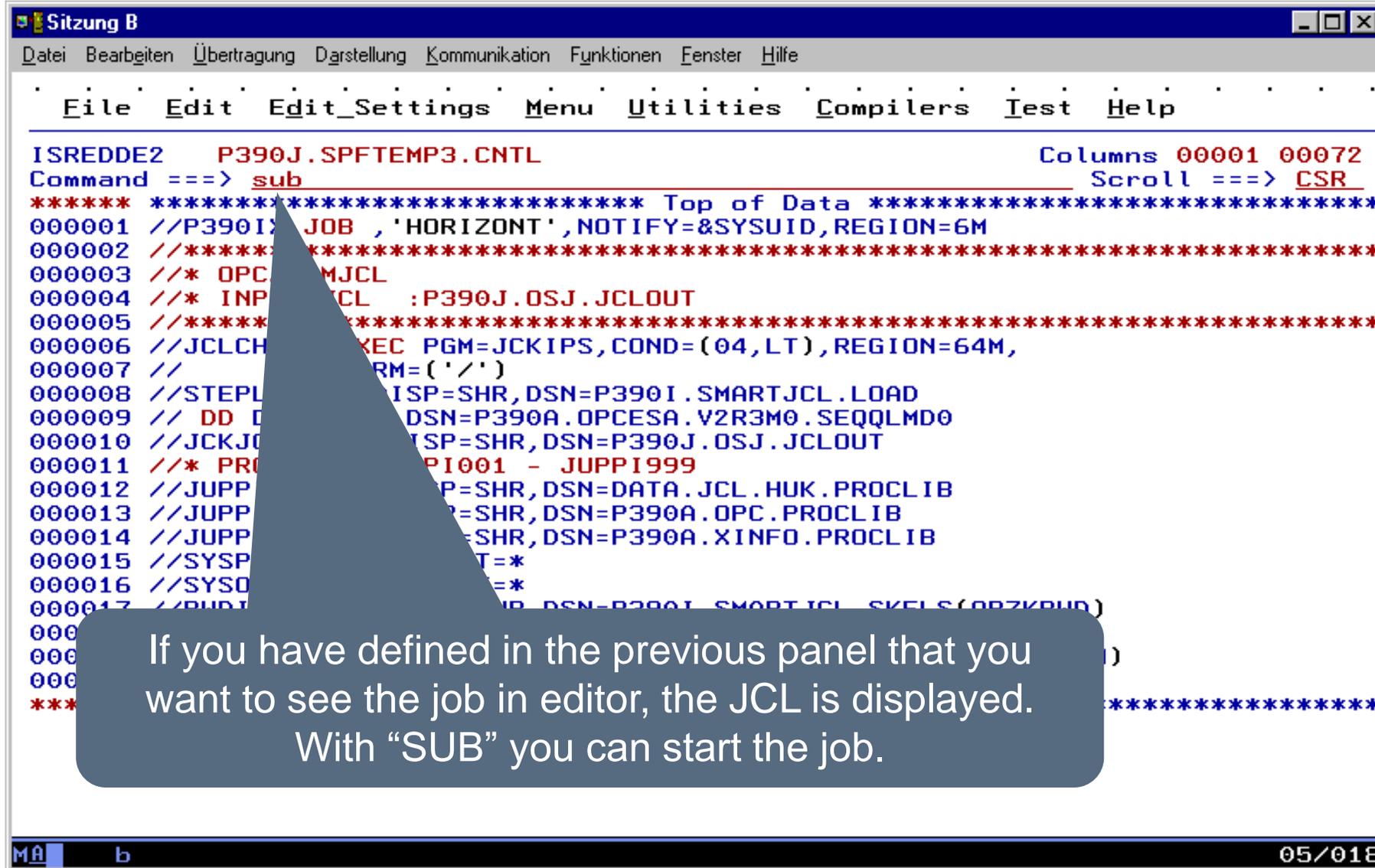
1 AD - Select jobs from Application Description
2 CP - Select jobs from Current Plan
3 FORECAST - Select jobs from LTP or any future planning period
4 SIMULATE - Start JCL simulation based on previous selection (option 1,2 3)
5 CHECK - Start JCL check based on previous simulation (option 4)
6 CHECK - Start JCL check without simulation
7 REFORMAT - Start JCL reformat (pre release)

Note: Options 5 and 6 are only available, if a JCL checker is installed,
 for example SmartJCL
```



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# Check of the simulated JCL



```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
File Edit Edit_Settings Menu Utilities Compilers Test Help
ISREDDE2 P390J.SPFTEMP3.CNTL Columns 00001 00072
Command ==> sub Scroll ==> CSR
***** Top of Data *****
000001 //P390I JOB , 'HORIZONT', NOTIFY=&SYSUID, REGION=6M
000002 //*****
000003 //* OPC MJCL
000004 //* INP JCL :P390J.OSJ.JCLOUT
000005 //*****
000006 //JCLCH EXEC PGM=JCKIPS, COND=(04,LT), REGION=64M,
000007 // RM=('/')
000008 //STEPL ISP=SHR, DSN=P390I.SMARTJCL.LOAD
000009 // DD DSN=P390A.OPCESA.V2R3M0.SEQQLMD0
000010 //JCKJ ISP=SHR, DSN=P390J.OSJ.JCLOUT
000011 //* PRO PI001 - JUPPI999
000012 //JUPP ISP=SHR, DSN=DATA.JCL.HUK.PROCLIB
000013 //JUPP ISP=SHR, DSN=P390A.OPC.PROCLIB
000014 //JUPP ISP=SHR, DSN=P390A.XINFO.PROCLIB
000015 //SYSP T=*
000016 //SYSD =*
000017 //PUDT IP DSN=P390I.SMARTJCL.SKELS(OPZKPHD)
000
000
000
*** *****
```

If you have defined in the previous panel that you want to see the job in editor, the JCL is displayed. With "SUB" you can start the job.

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# Check of the simulated JCL - Result

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe

Display Filter View Print Options Help

SDSF OUTPUT DISPLAY P390IX JOB09690 DSID 101 LINE 73 COLUMNS 02- 81
COMMAND INPUT ==> SCROLL ==> CSR
000054 //* JOBNAME = PSS092BK
000055 //* PLANDATUM = 15.02.2003
000056 //* PLANZEIT = 00:00
000057 //* LAUFDATUM = 15.02.2003
000058 //* LAUFZEIT = 00:02
000059 /*-----
000060 /*>OPC FETCH PHASE=SETUP, MEMBER=FETCHTST, COMP=(&TEST.EQ.TEST)
000061 /*%OPC RECOVER ERRSTEP=STEP1, DELSTEP=STEP1, ADDPROC=$RECOVER
000062 /******
000063 /* SICHERUNG DER BETA92 DATENBANKEN. DIE SICHERUNG WIRD VOM AD ANGE-
000064 /* STOSSEN. BEI ABRUCH WIRD DER JOB AUTOMATISCH MIT IEFBR14 GEFAHREN.
000065 /******
000066 //SAVE EXEC PGM=ADDRSSU, REGION=8M
000067 //BAND DD DSN=PB GALTS.BETA92.SAVE(+1), DISP=(,CATLG,DELETE),
000068 // UNIT=3490, EXPDT=99000, VOL=(, , 20)
.HAAB JCK0380E THE SPECIFIED UNIT IS NOT ALLOWED AT THIS INSTALLATION
.HAAB JCK0331E SPACE NOT SPECIFIED FOR NEW DASD DATA SET
000069 //SYSPRINT DD SYSOUT=*
000070 //SYSIN DD *
000071 DUMP DATASET(INCL(PB GALTS.BETA92.**)) -
000072 ODD(BAND) -
000073 CONCURRENT -
000074 SHARE TOI(ENDE) -
000075
000076
000077
000078
```

The checked JCL is in SYSPRINT including error messages

# Check of the simulated JCL - Result

```
Sitzung B
Datei Bearbeiten Übertragung Darstellung Kommunikation Funktionen Fenster Hilfe
.
.
.
Di

SDSF
COMM
04314
04314
04314
043146 //*****0
043147 //STEP3 EXEC PGM=ICEGENER,COND=(4,LT) 0
043148 //SYSPRINT DD SYSOUT=* 0
043149 //SYSOUT DD SYSOUT=* 0
043150 //SYSUT1 DD DSN=PBZKFBE.KFZ92.HU08.LADRUCK,DISP=SHR 0
043151 //SYSUT2 DD SYSOUT=(M,,HU08),RECFM=FA,LRECL=132 0
043152 //SYSIN DD DUMMY 0
LABEL MSG.NO. ERROR MESSAGE

U000 JCK0457H DATA SET OR ONLY SDS NOT IN CATALOG
Sequential input from JCKJCLI:
Jobs read: 583
Jobs with informations: 1
Jobs with warnings: 55
Jobs with errors: 119
Member input from JCKJI01 to JCKI99:
Members read: 0
Members with informations: 0
Members with warnings: 0
Members with errors: 0

JCKIPS ended at 19:46:11:065, RC=0008

***** BOTTOM OF DATA *****
MA b 05/021
```

Control the job. For returncode 0, SmartJCL has not detected any JCL errors. The SYSPRINT shows your JCL and the related messages.

Sequential input from JCKJCLI:  
Jobs read: 583  
Jobs with informations: 1  
Jobs with warnings: 55  
Jobs with errors: 119

81  
CSR

# Miscellaneous

- Various topics are described below, e.g. how &O- or &C TWS variables are dissolved.

# Resolve TWS-Variables

- On technology
  - &O or &Occurrence data/time variables are calculated with the IA value from Daily Schedule (by origin CP) or through the given IA (by origin AD)
  - &C or &Current date/time variables are calculated through the given simulation period
  - Variables, which refer to the Application id, the Jobname, the Workstation or similar, are resolved, if the value can be determined.

# Resolve TWS-Variables

- On technology (continuation)
  - NOSCAN and SCAN directives are supported
  - ? Variables is determined correct
  - Statements like SEARCH and TABLE are considered
  - Variables of the global TWS variable chart are recognized
  - The special form of the TWS variable statements like SETFORM, SETVAR etc. are resolved if possible

# Simulate JCL in Editor

- If SmartJCL simulates the JCL with TWS variables, SmartJCL communicate with SmartJCL and TWS. TWS is searching the JCL in following sequence:
  - 1. In the file
  - 2. In the TWS corresponding Job Library
- Because of that a simulated JCL has to be in JS file or in one of the TWS-Job Librarys.
- Furthermore a operation in CP or in AD file has to exist with an identical Jobname.
- This is the reason why SmartJCL or you have to write the JCL to a TWS-Joblib or in a JS file when simulating a “new” JCL and that a sample operation must exist for the Jobname.

Thanks for your attention! Do you have any questions?

The logo for 'HORIZONT' features the word in a bold, sans-serif font. The letter 'O' is highlighted in red, while the other letters are in dark grey. The background is light grey with a large red curved shape on the left and several faint, semi-transparent geometric shapes (squares and circles) scattered around.

**HORIZONT**

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