HORIZONT

SmartJCL – Release Notes

About this Presentation

This PowerPoint gives you a short overview about new features of SmartJCL

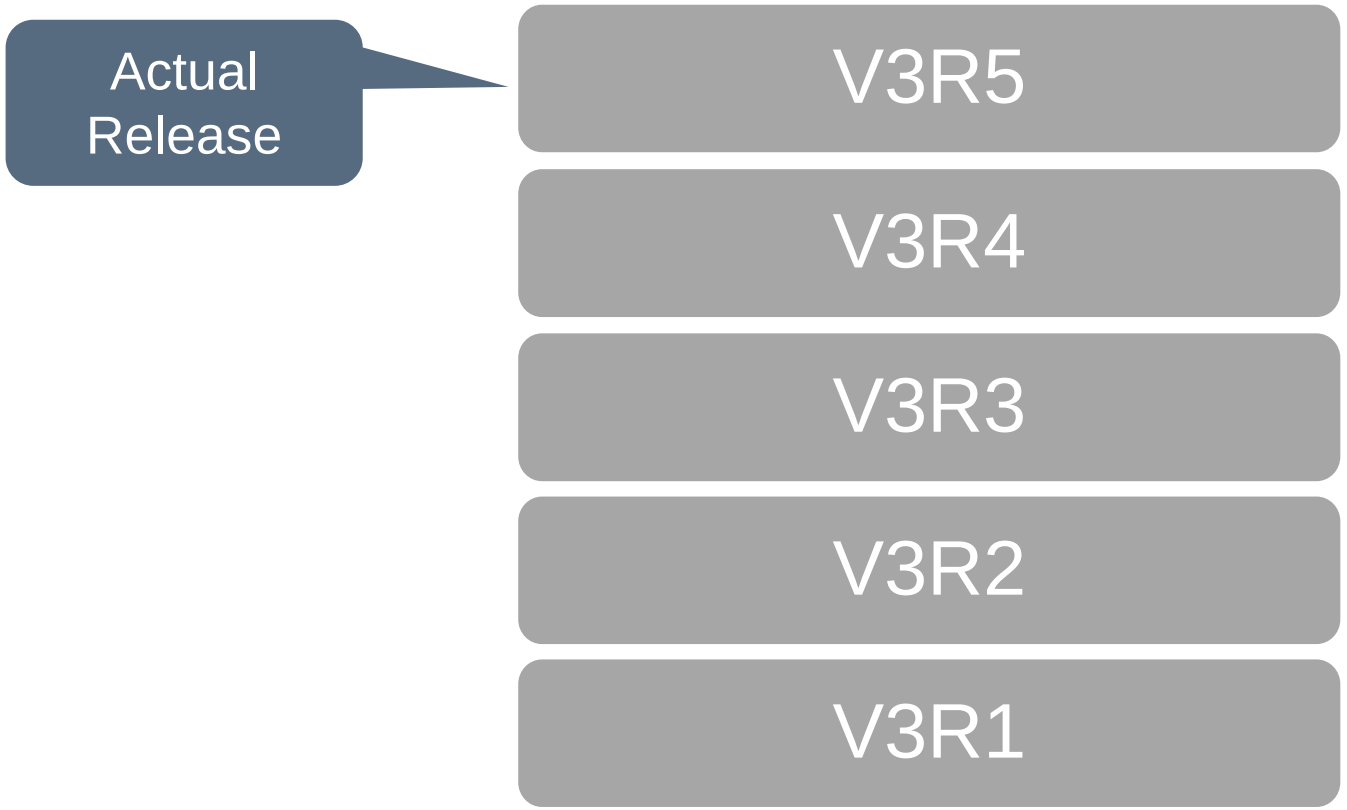
At some slides this button can be used to jump to specific slides in this presentation.

e.g. jump to slide Release Nodes

Click on this symbol to jump to the overview slide

HORIZONT Classification: Restricted

Release Notes



HORIZONT
Classification: Restricted

SmartJCL 3.5

- SmartJCL V3R5 is available since July 2022. It offers following new functions:
- z/OS 2.5 support – new parameters and statements
  - No new parameters or statements
- z/OS 2.4 support – new parameters and statements
  - NULLOVRD parameter for JCL DD statement added
- New TCP/IP listener HORILST
  - installation with HORIZONT Shared Library
  - UWORK is no longer needed
  - simplified parameter setting

Classification: Restricted

SmartJCL 3.5

- New JCL Check parameters:
  - CFS to check if there is enough free space to allocate a new data set
  - SUMOM defines mask for the JCKSUMO record
  - NLT to display output lines as INFO lines rather than NOTE lines
  - USEIWSAG to use IWS authority group user ID for the check
  - CGS for skipping the DFSORT SYSIN check when generated SYSIN data set is concatenated
  - JLT defines maximum JCL lines to check
  - MSGPOS specifies positioning of messages output because of the DDNCHK parameter
  - FMO to check only the first member of a given name in the JUPJInnn concatenation
  - ISC specifies if substitution of instream symbols is checked
  - CIEBC, CIEBG, CIEHP, CPDSF, CSORT to check the SYSIN control statements of only specified utilities

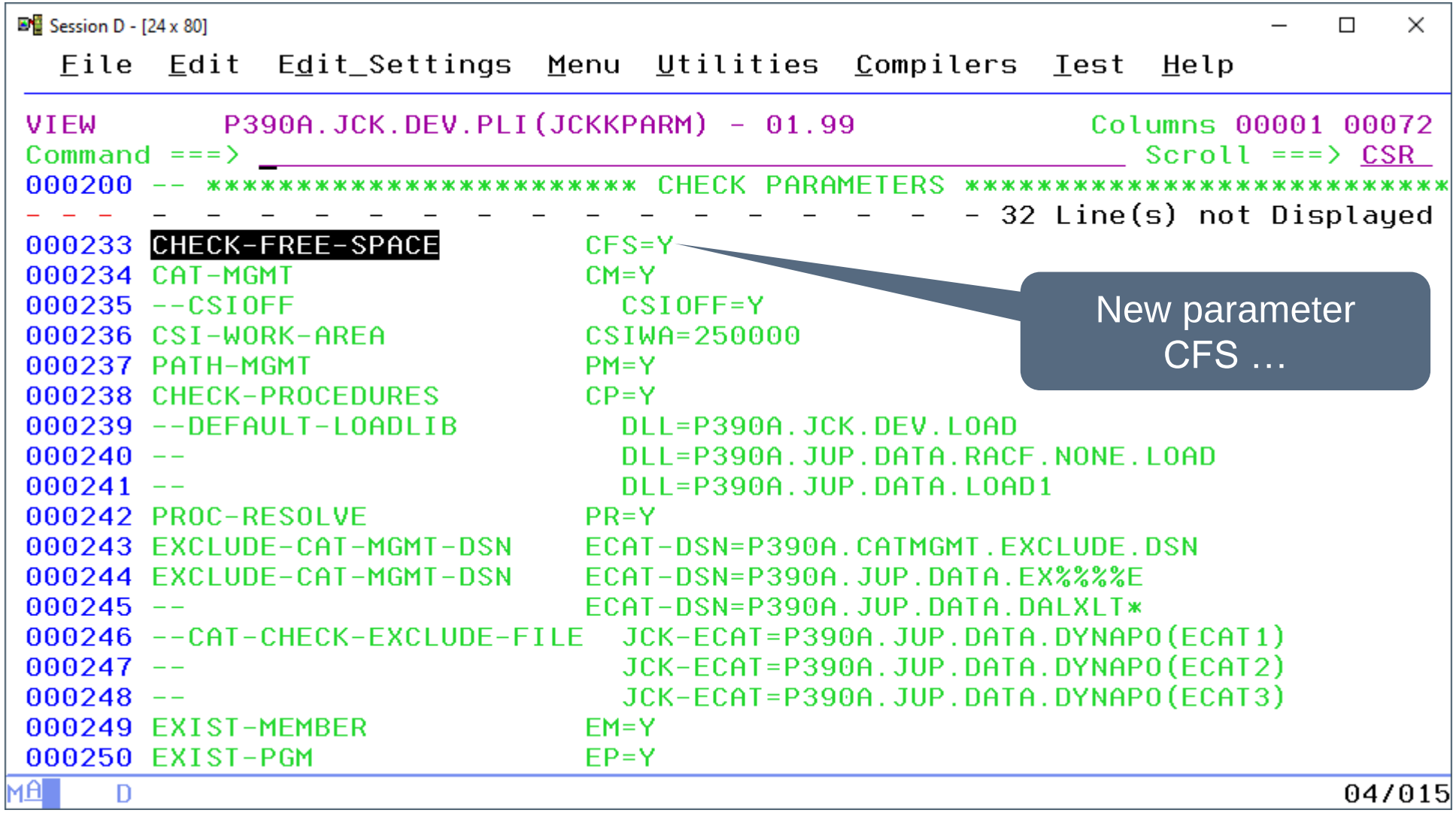
HORIZONT Classification: Restricted

SmartJCL 3.5

- New SmartJCL Reformat parameters:
  - FORMATORDER for formatting JCLLIB ORDER parameter
  - RFMTNONBLANK72 to not reformat statements containing a character in column 72
- New Change Facility parameter:
  - SJCLNCHRP for generating SJC LNCHANGE command report
- New REXX Interface function:
  - SRIGetOverLn
  - SRISayLnCnt
  - SRISayStmtSubType
  - SRIVolumeInfo
- Support of TWS 10.1

HORIZONT Classification: Restricted

SmartJCL 3.5 – JCL Check



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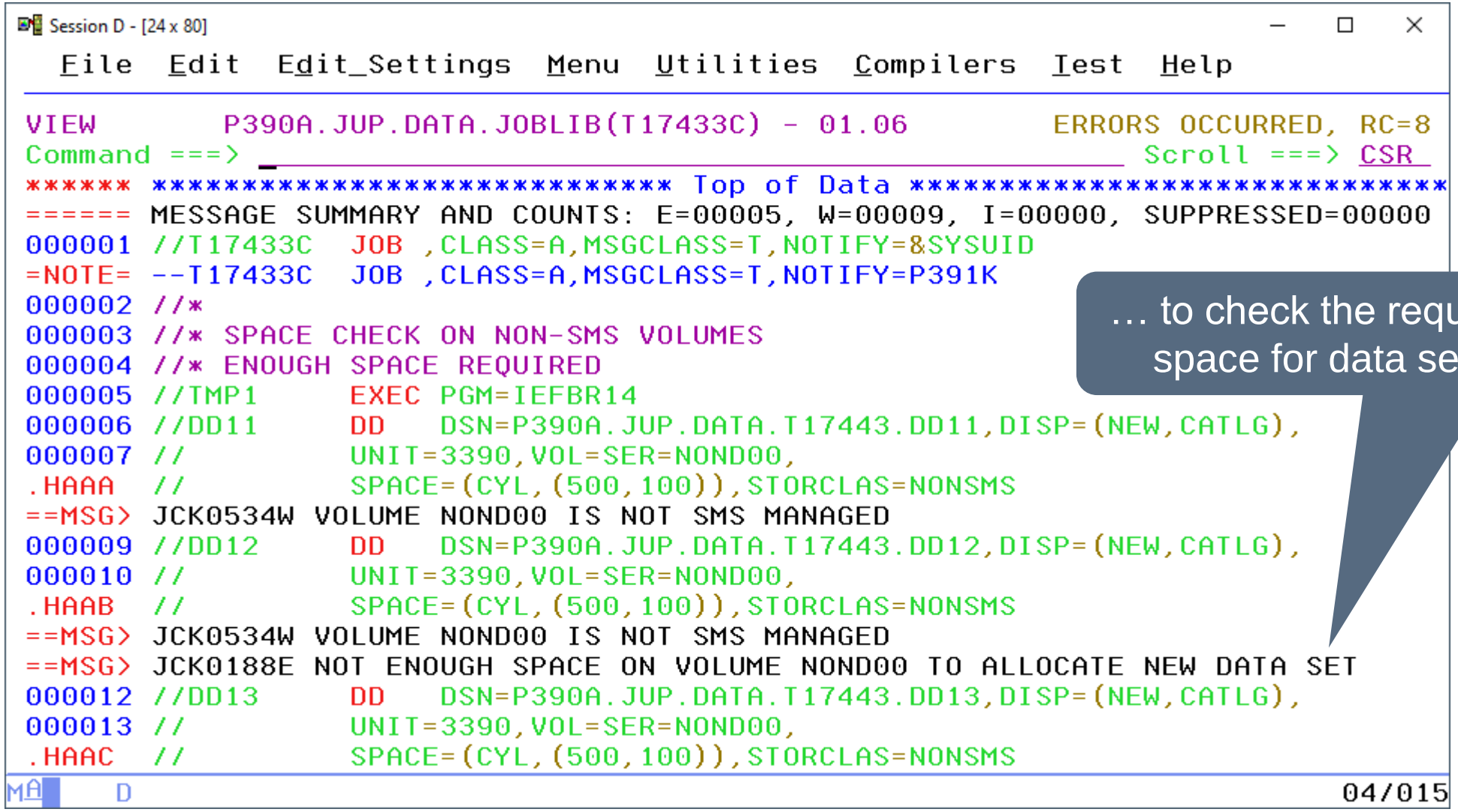

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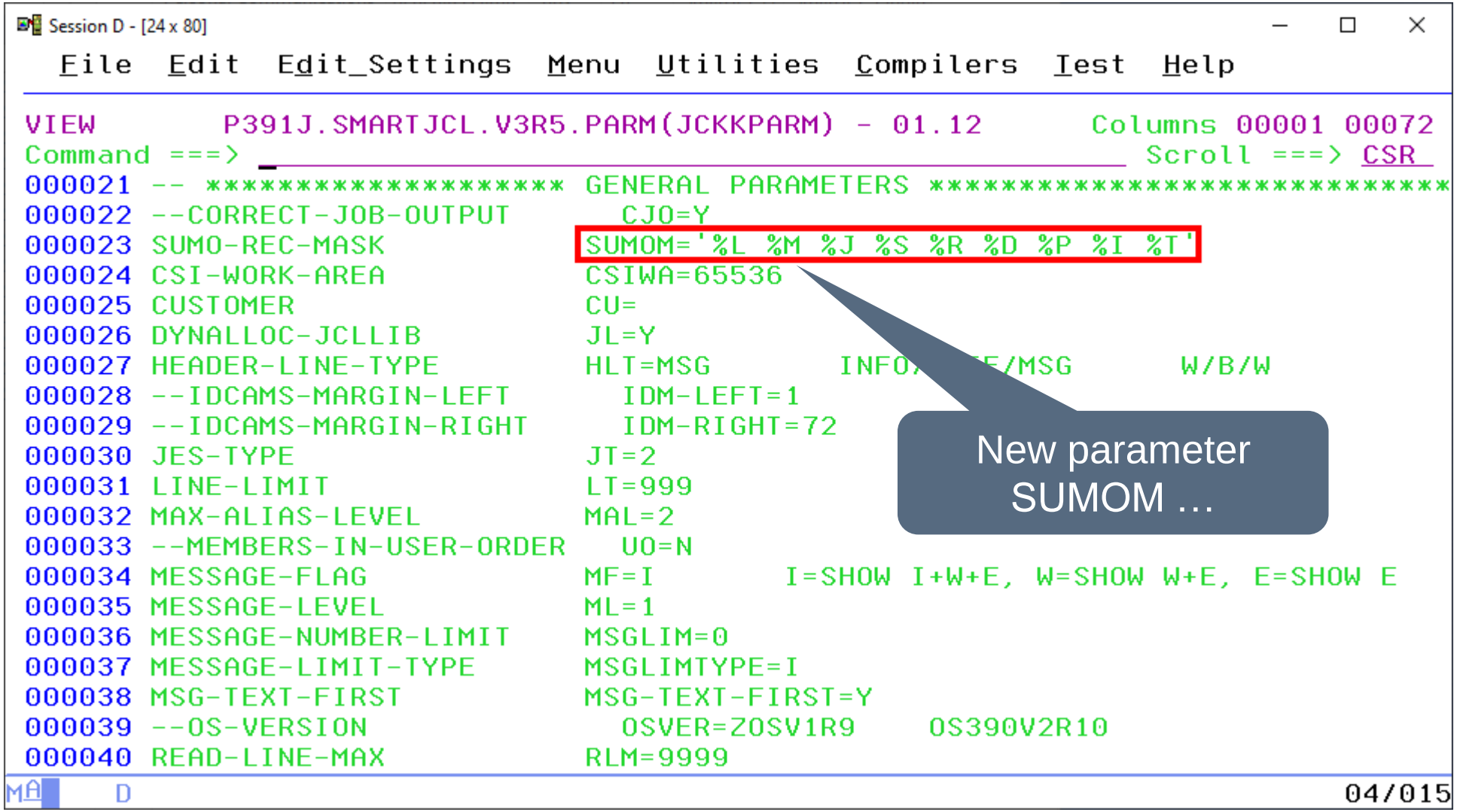
SmartJCL 3.5 – JCL Check



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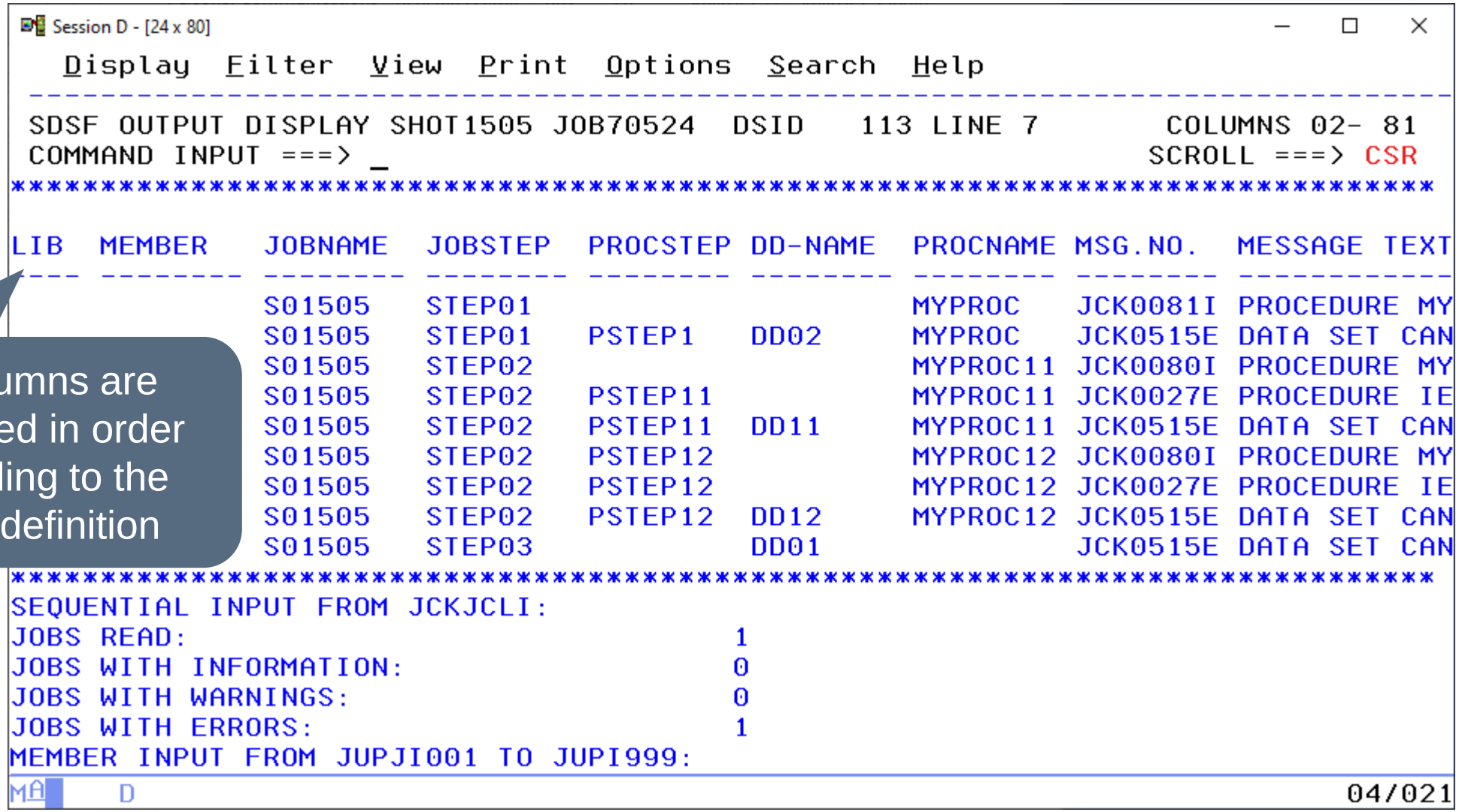
SmartJCL 3.5 – JCL Check

... columns are displayed in order according to the mask definition



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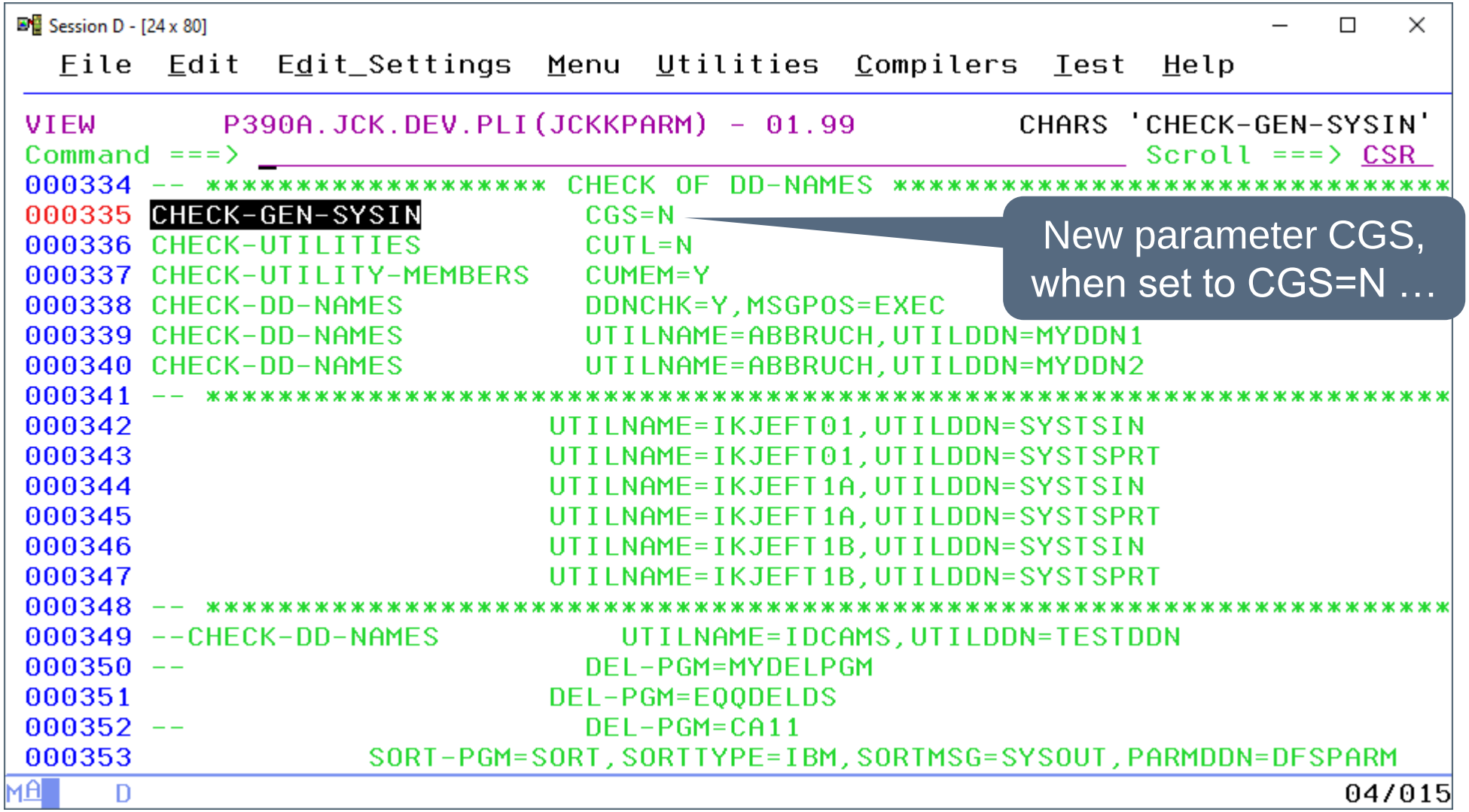

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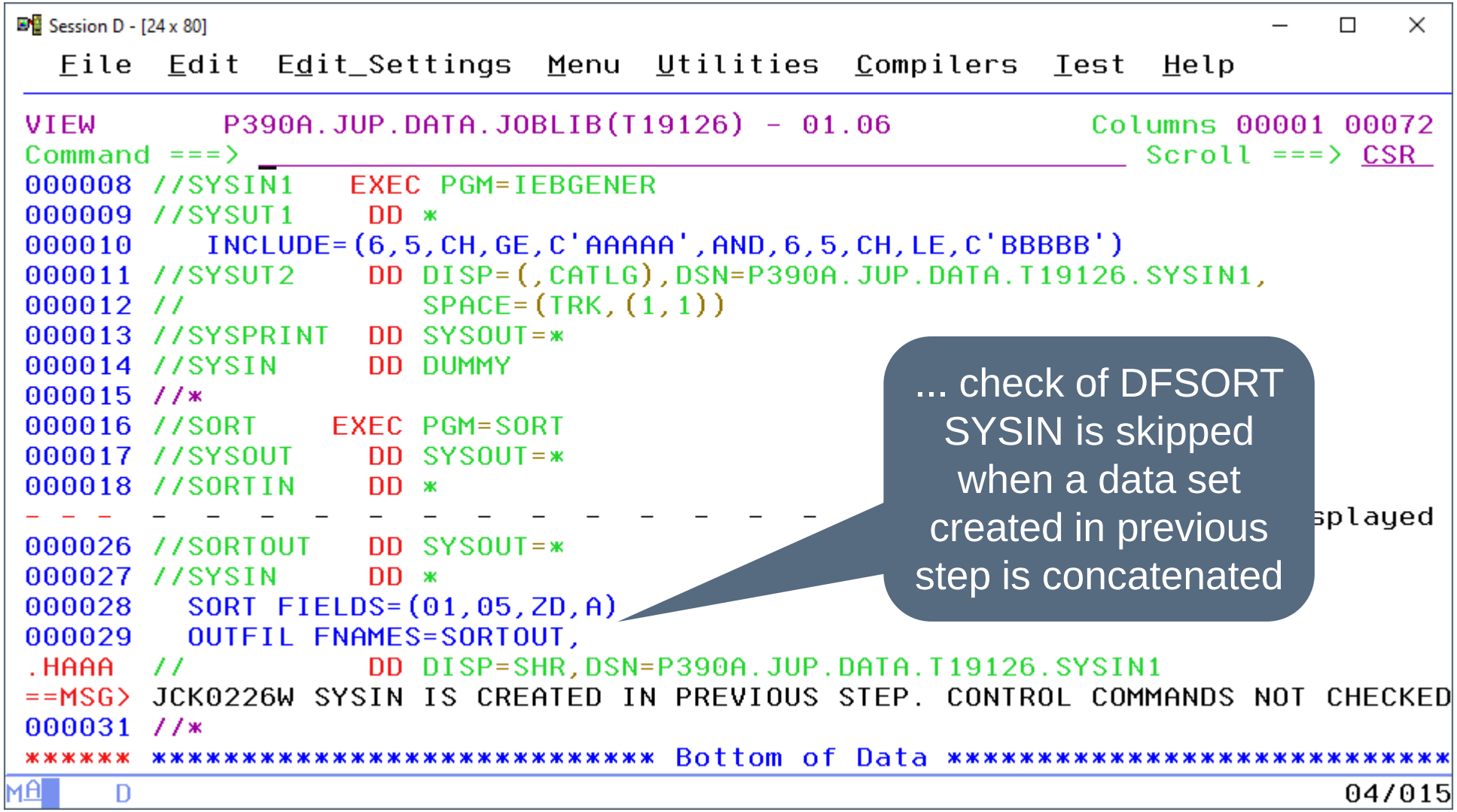

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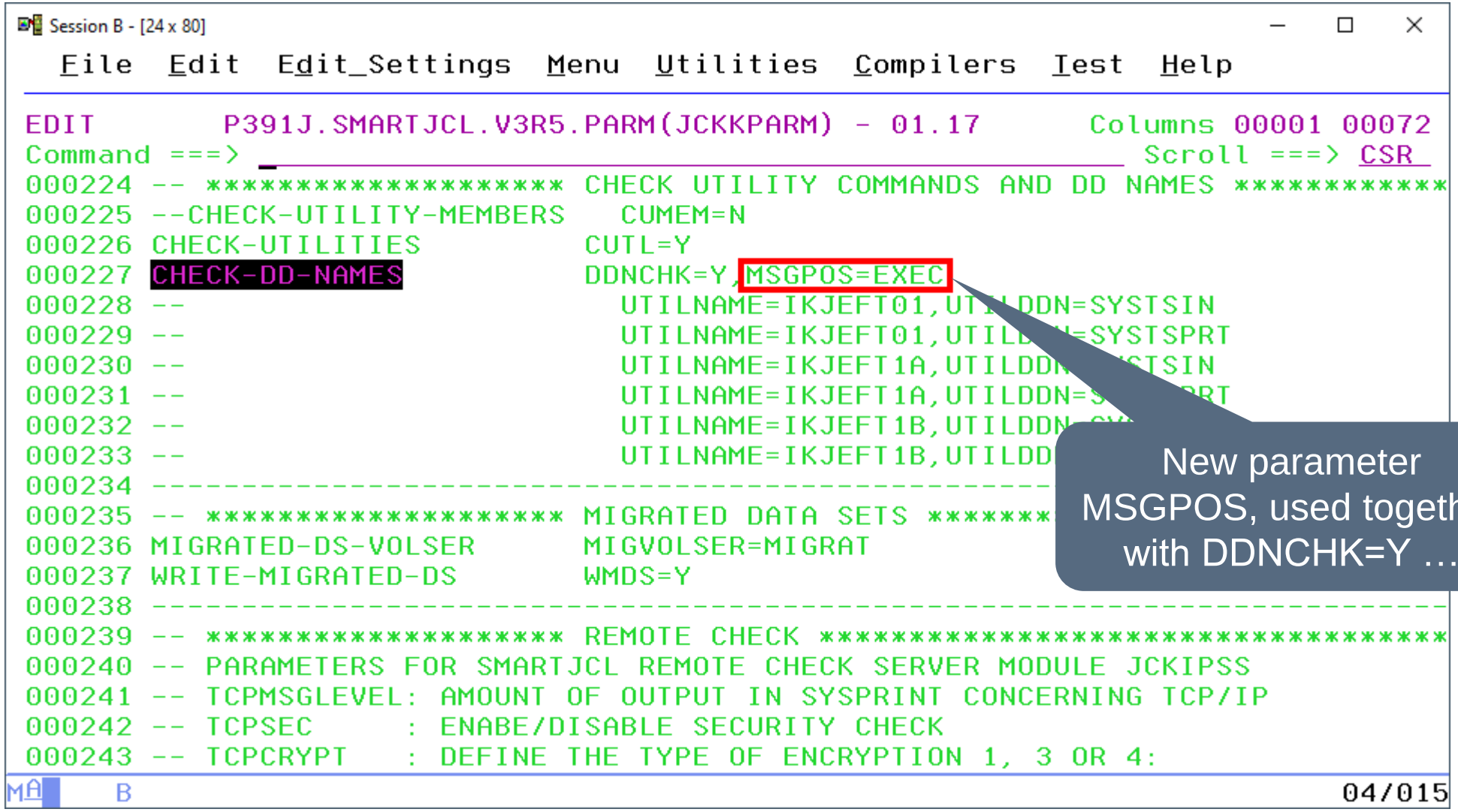

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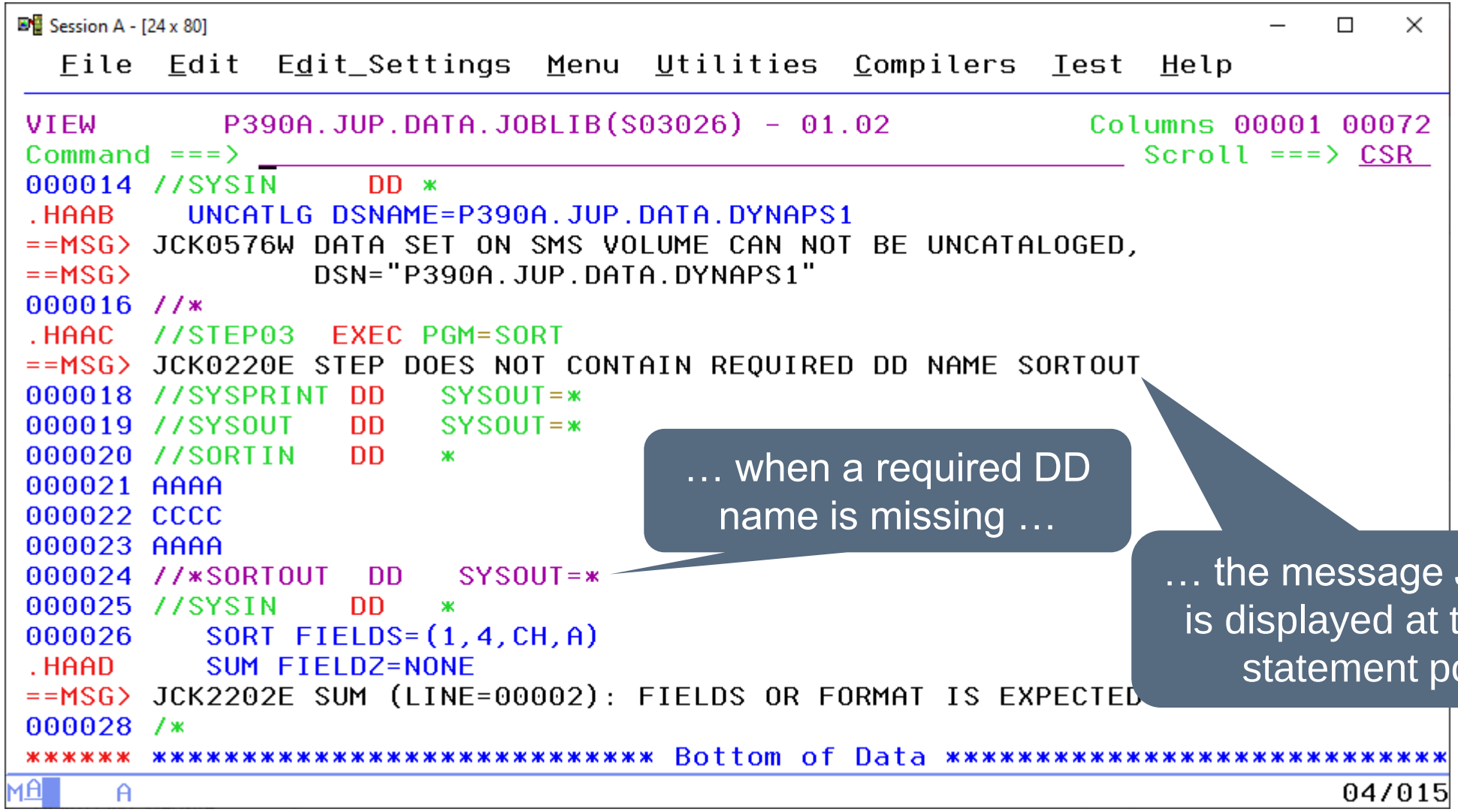

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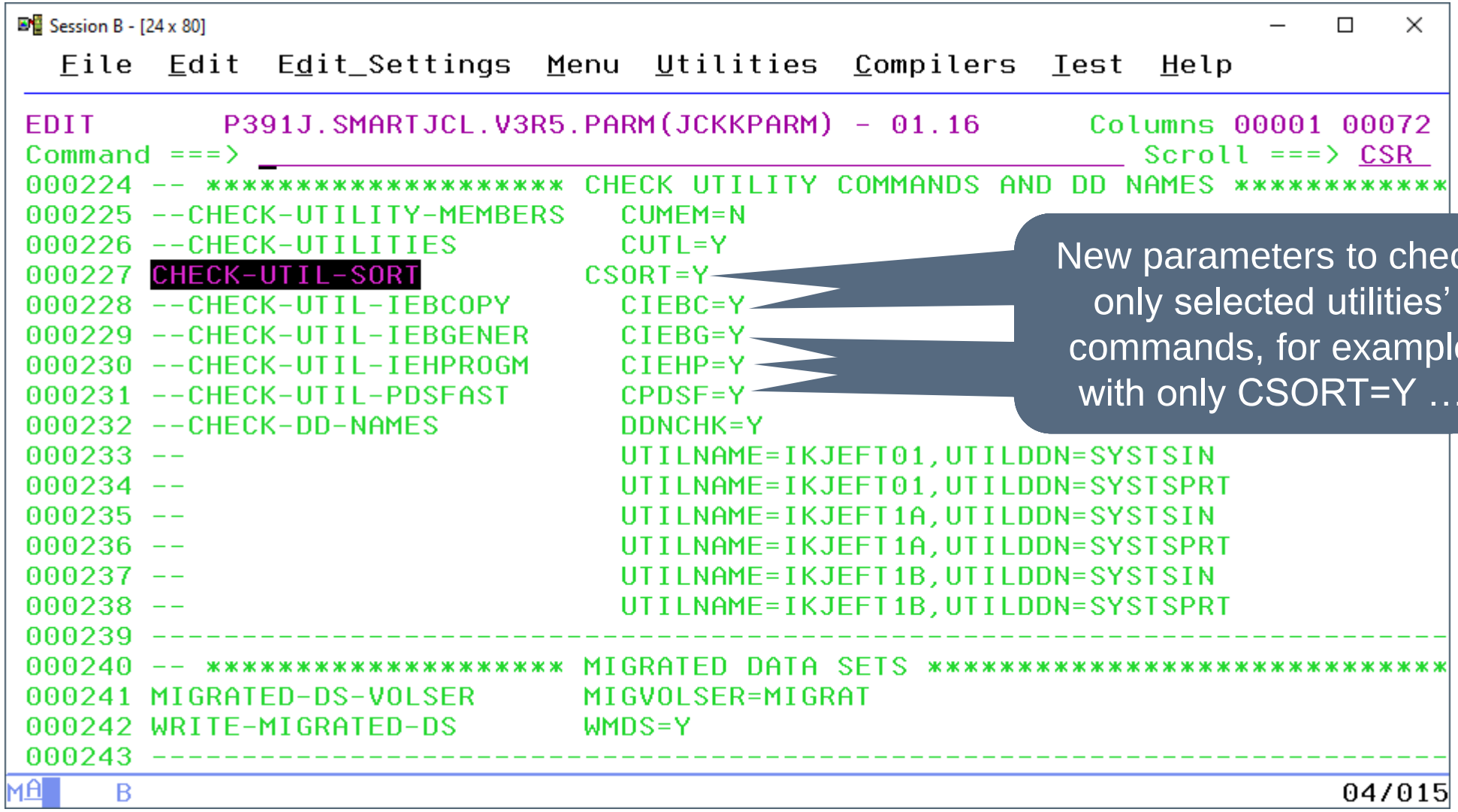

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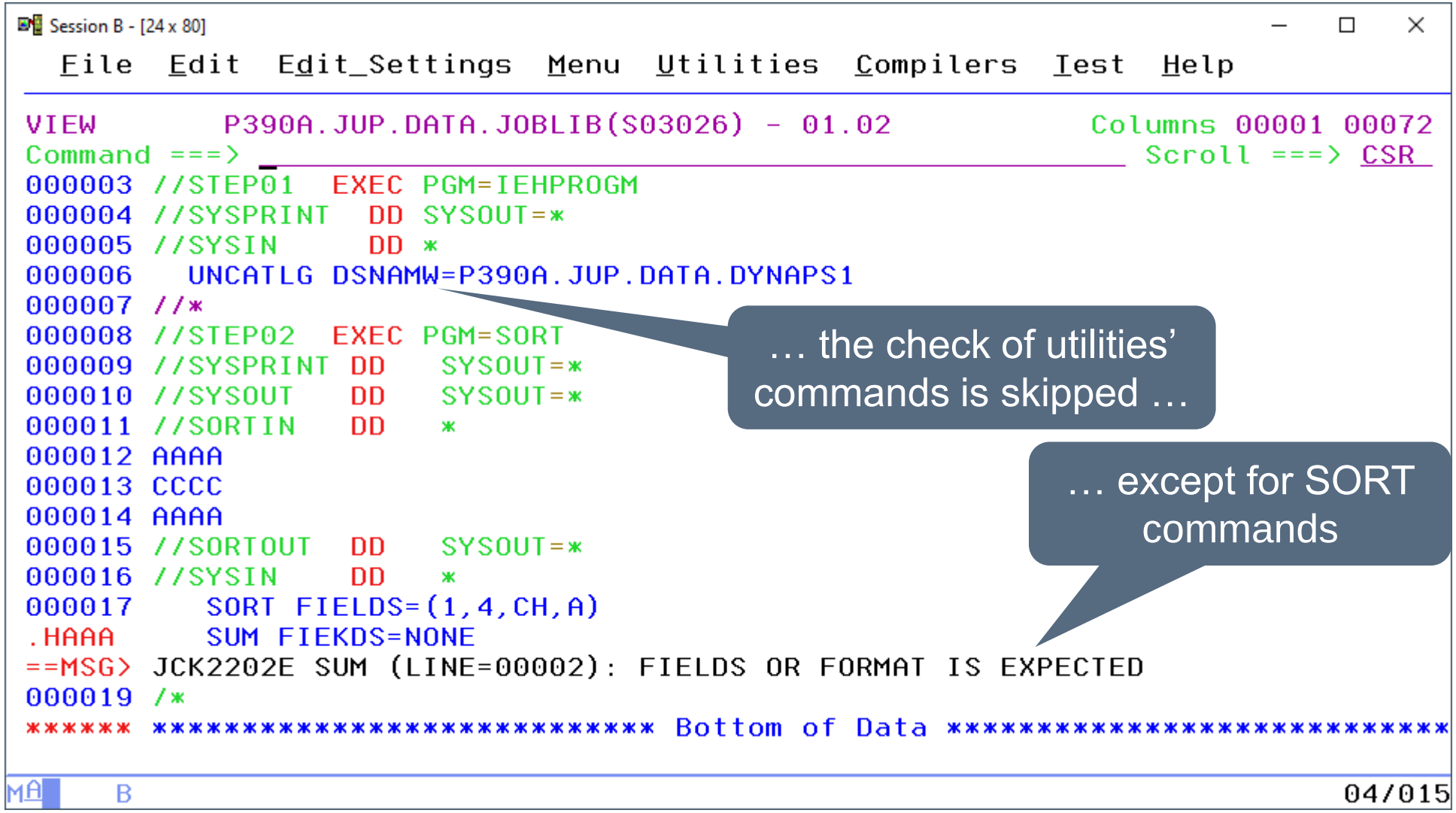

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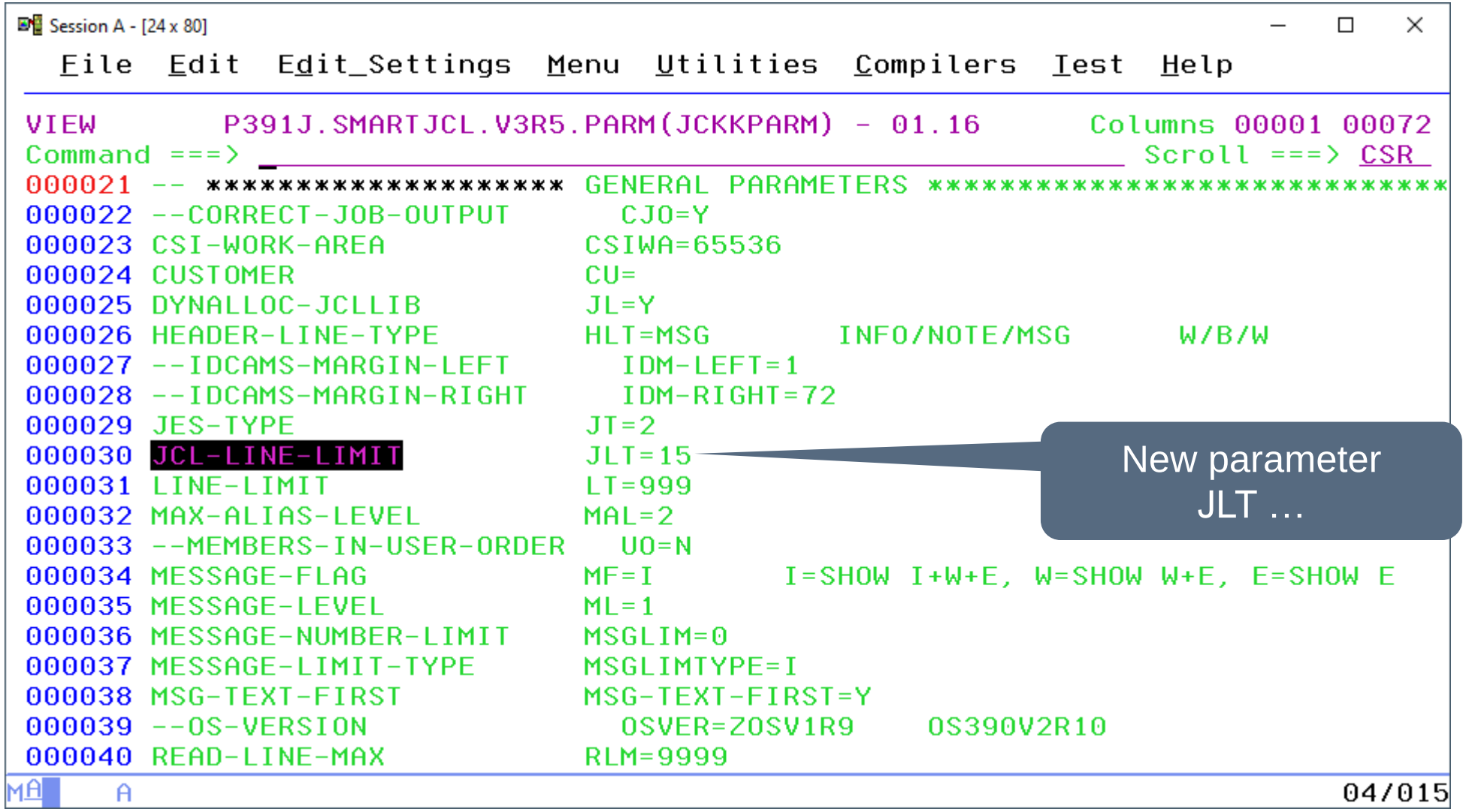

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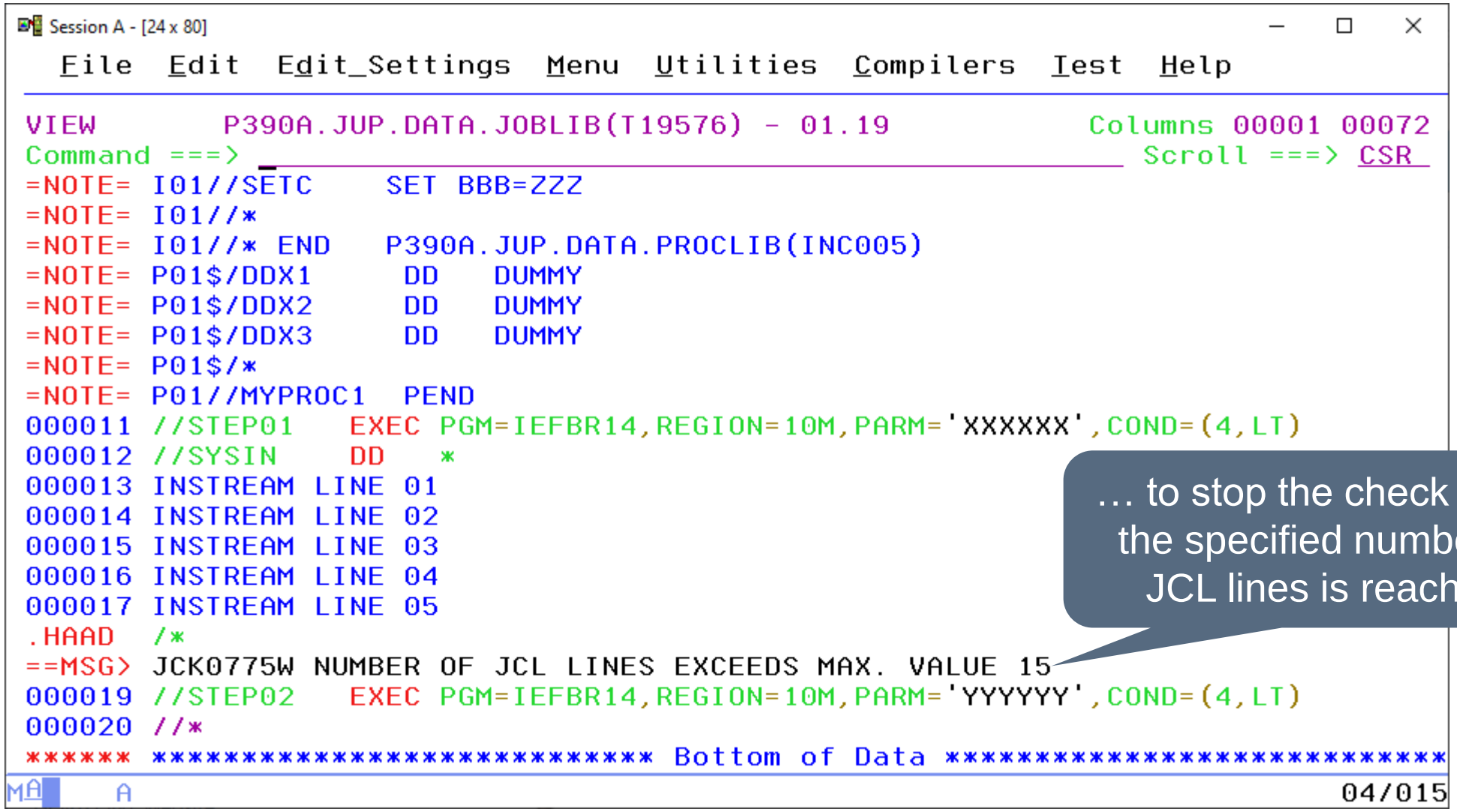

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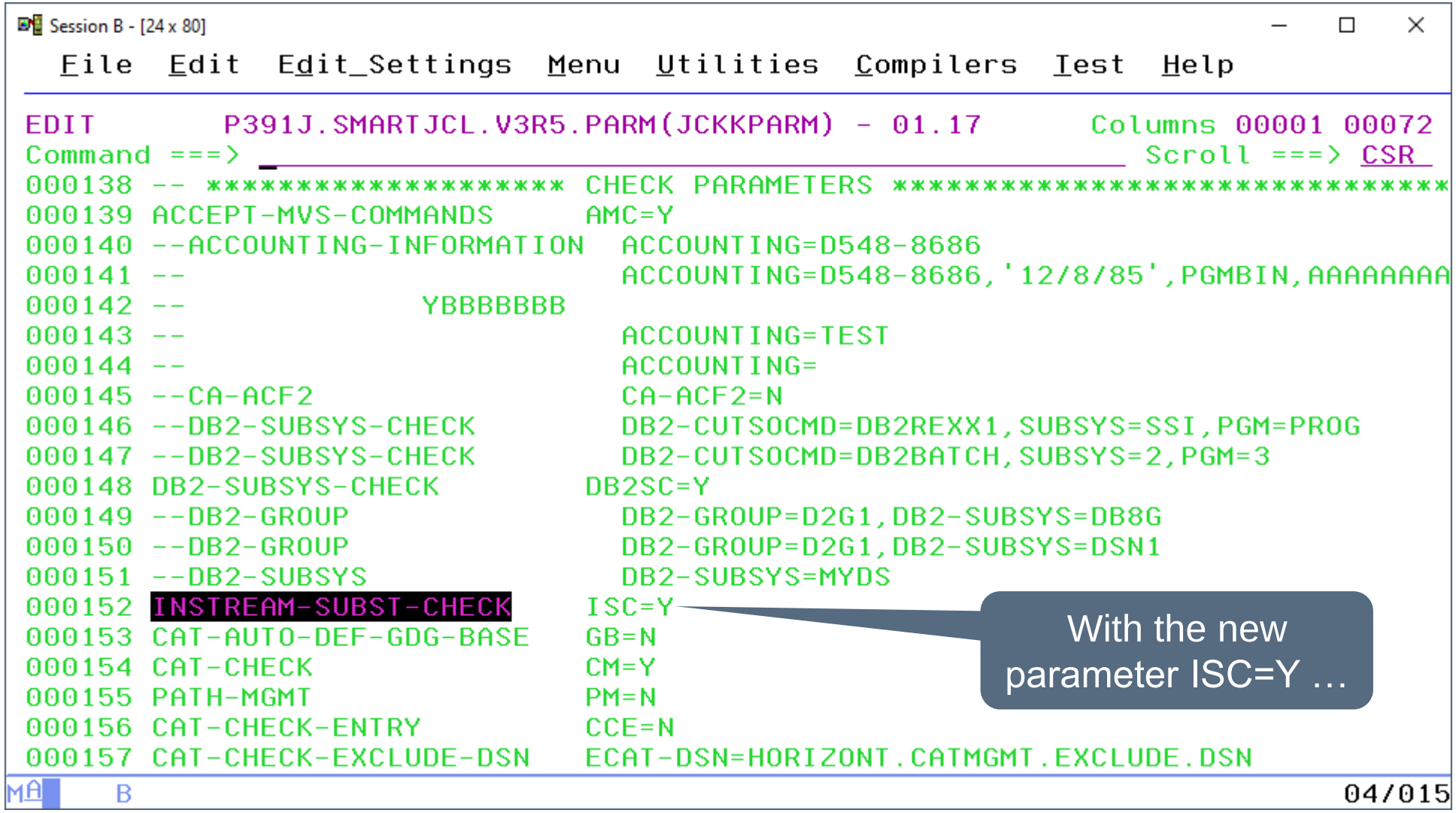

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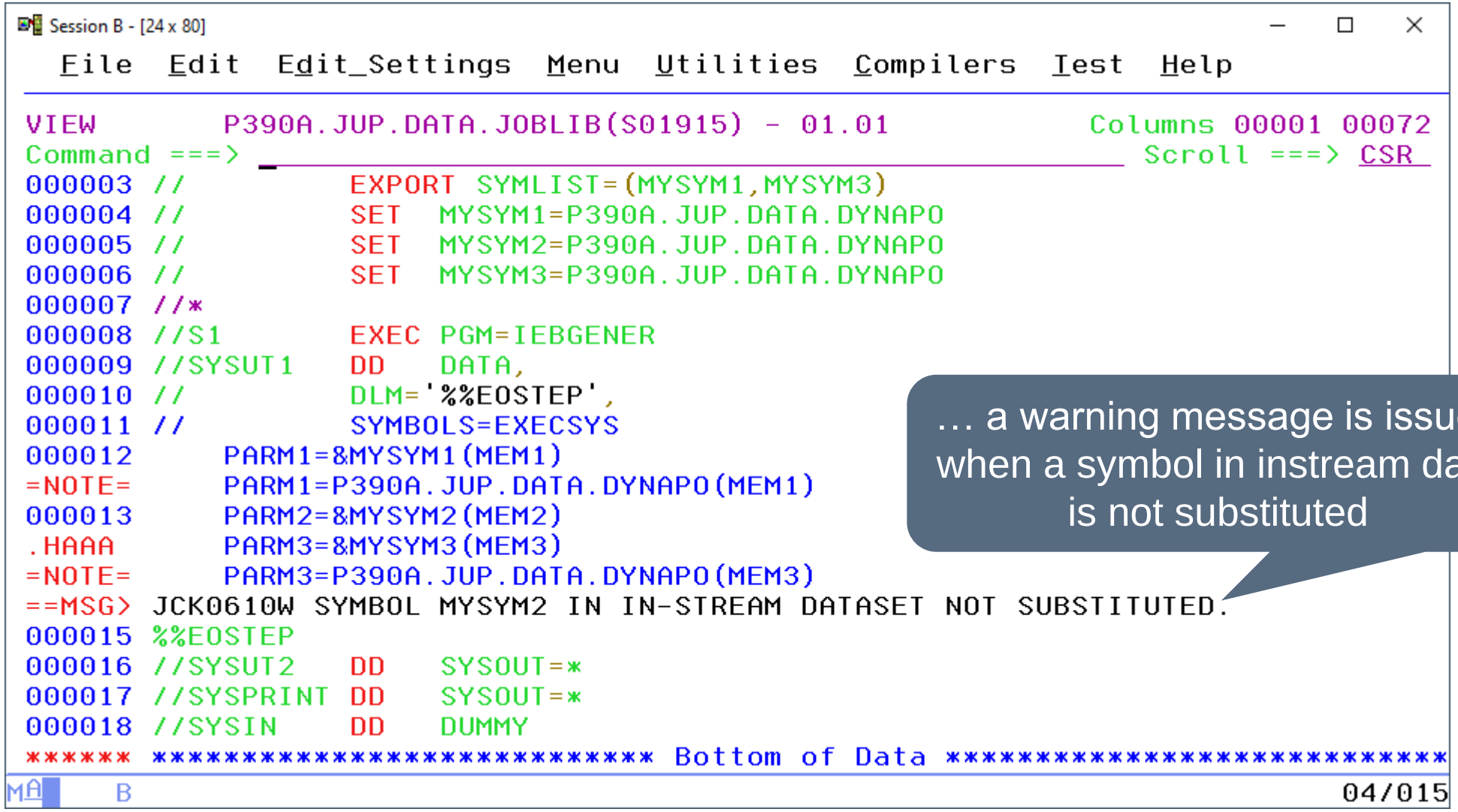
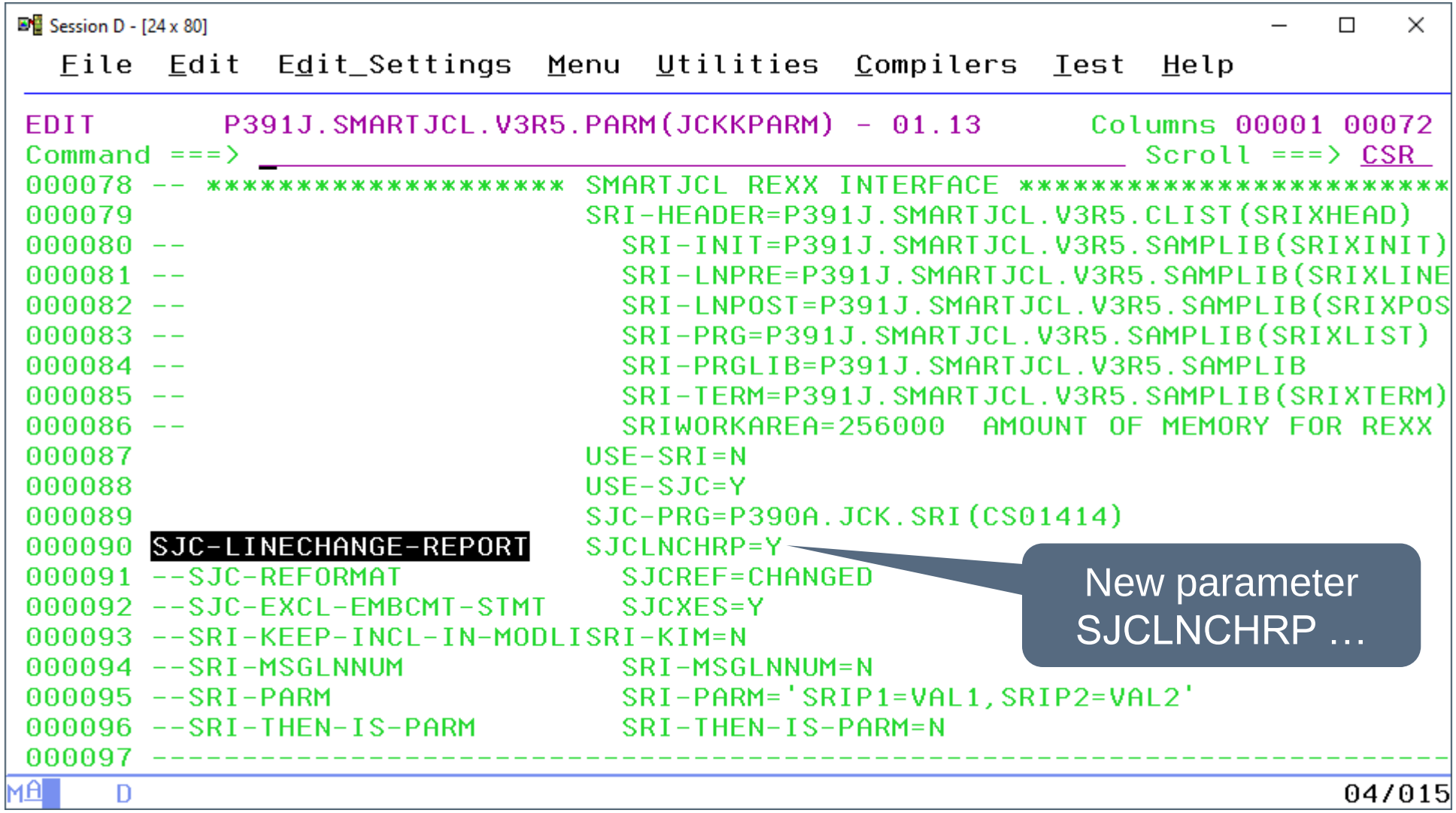


HORIZONT Classification: Restricted

SmartJCL 3.5 – Change Facility



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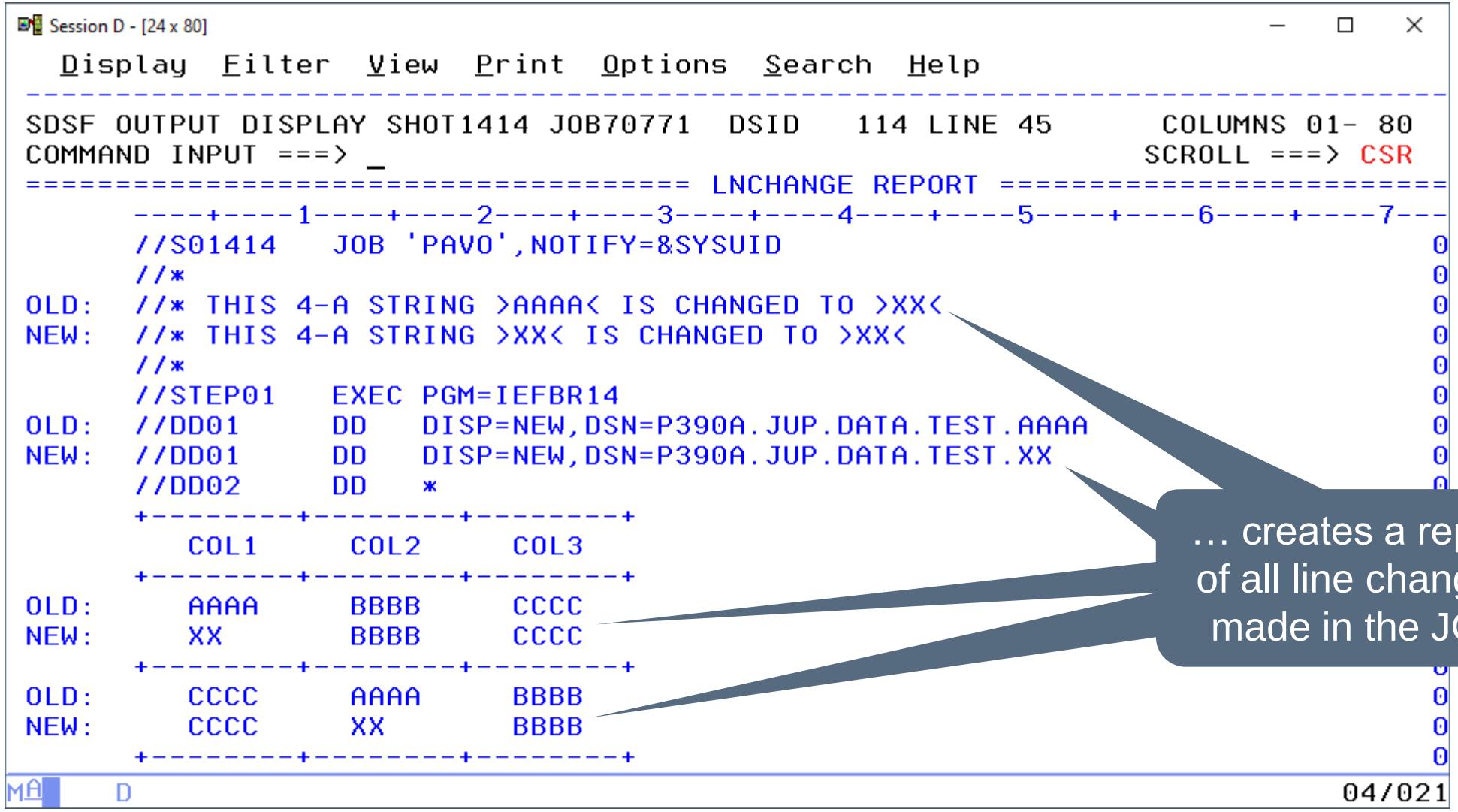
SmartJCL 3.5 – Change Facility



HORIZONT Classification: Restricted

SmartJCL 3.4

- SmartJCL V3R4 is available since February 2019. It offers following new functions:
- z/OS 2.3 support – new parameters and statements
  - Length for DLM= is increased from 2 characters to 18 characters
  - &SYSJOBNM, job name and &SYSJOBID, job ID added
  - ROACCESS and DSKEYLBL parameter on JCL DD statement added
  - Password phrases and new password on PASSWORD parameter supported
  - EMAIL, GDGBIAS parameter on JOB statement added
  - Limit for TSO/E user Ids is changed to 8 characters
  - NOTIFY JCL statement is added
  - EMAIL= is added, PASSWORD= is changed in JOBGROUP
  - System symbol &SYSEMAIL
  - AFTER, BEFORE and DELAY on SCHEDULE statement supported

Classification: Restricted

SmartJCL 3.4

- New JCL Check parameters:
  - DB2-CUTSOCMD for customer specific DB2 program calls
  - DEFAULTIMSID specifies a default IMSID value
  - STEPGENNAME and STEPGENOPT for generated step names
  - JES3-SYSNAME defines user specified JES3 system names
- New Change Facility command:
  - LNCHANGEALL
- New REXX Interface function:
  - SRIFillStem
- Support of TWS 9.5

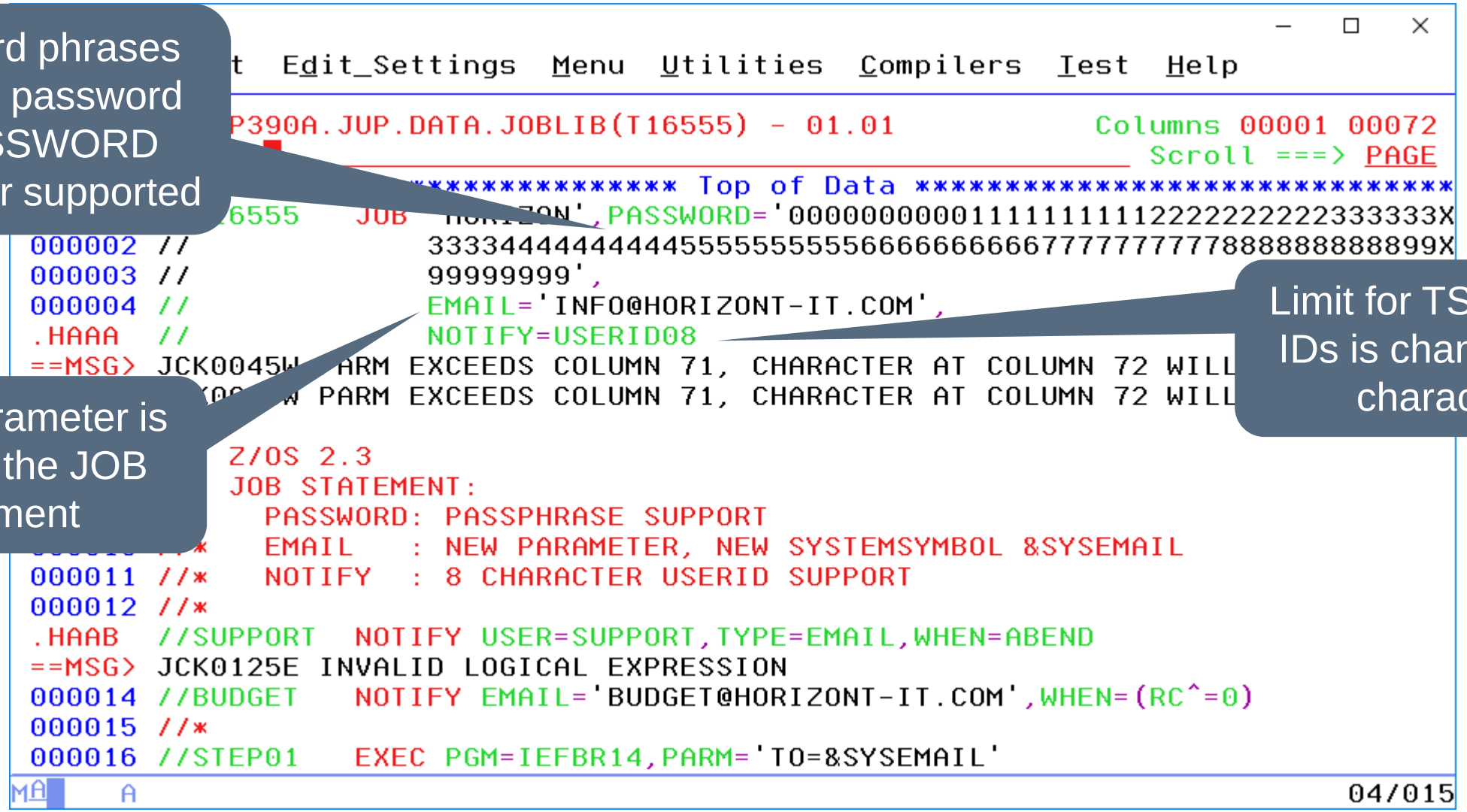
HORIZONT Classification: Restricted

SmartJCL 3.4 – z/OS 2.3

Password phrases and new password on PASSWORD parameter supported

EMAIL parameter is added to the JOB statement

Limit for TSO/E user IDs is changed to 8 characters



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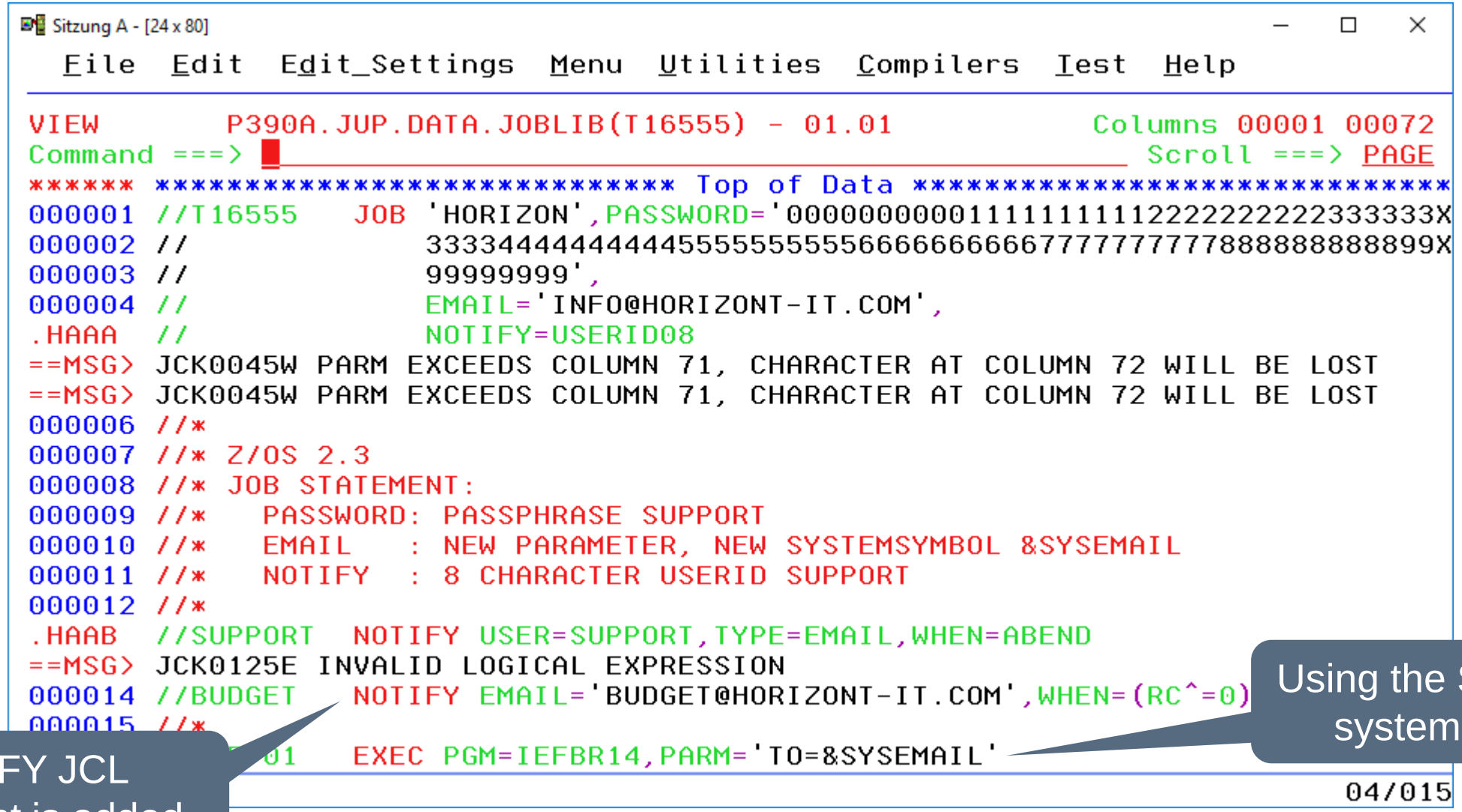
SmartJCL 3.4 – z/OS 2.3



NOTIFY JCL statement is added

Using the SYSEMAIL system symbol

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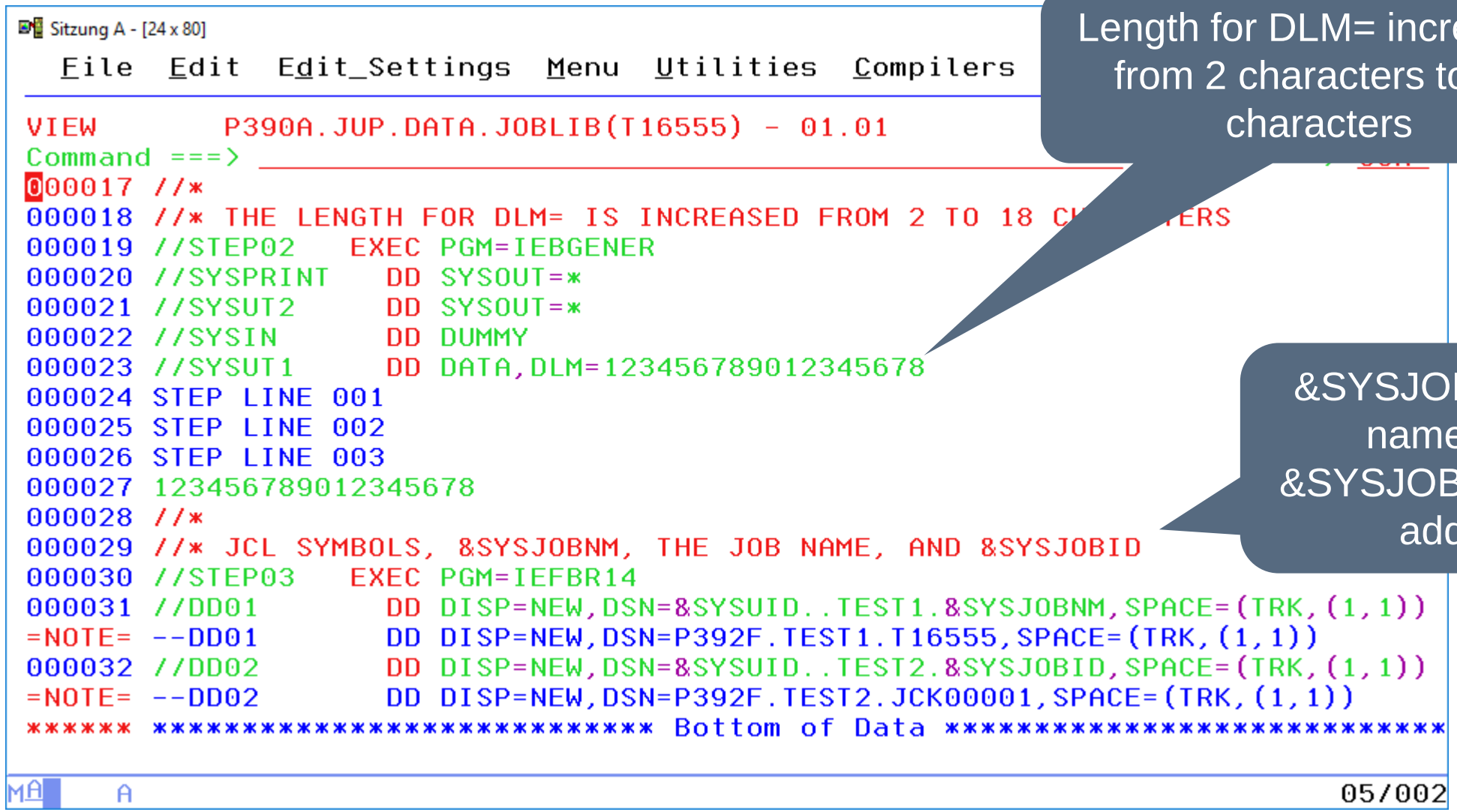
SmartJCL 3.4 – z/OS 2.3



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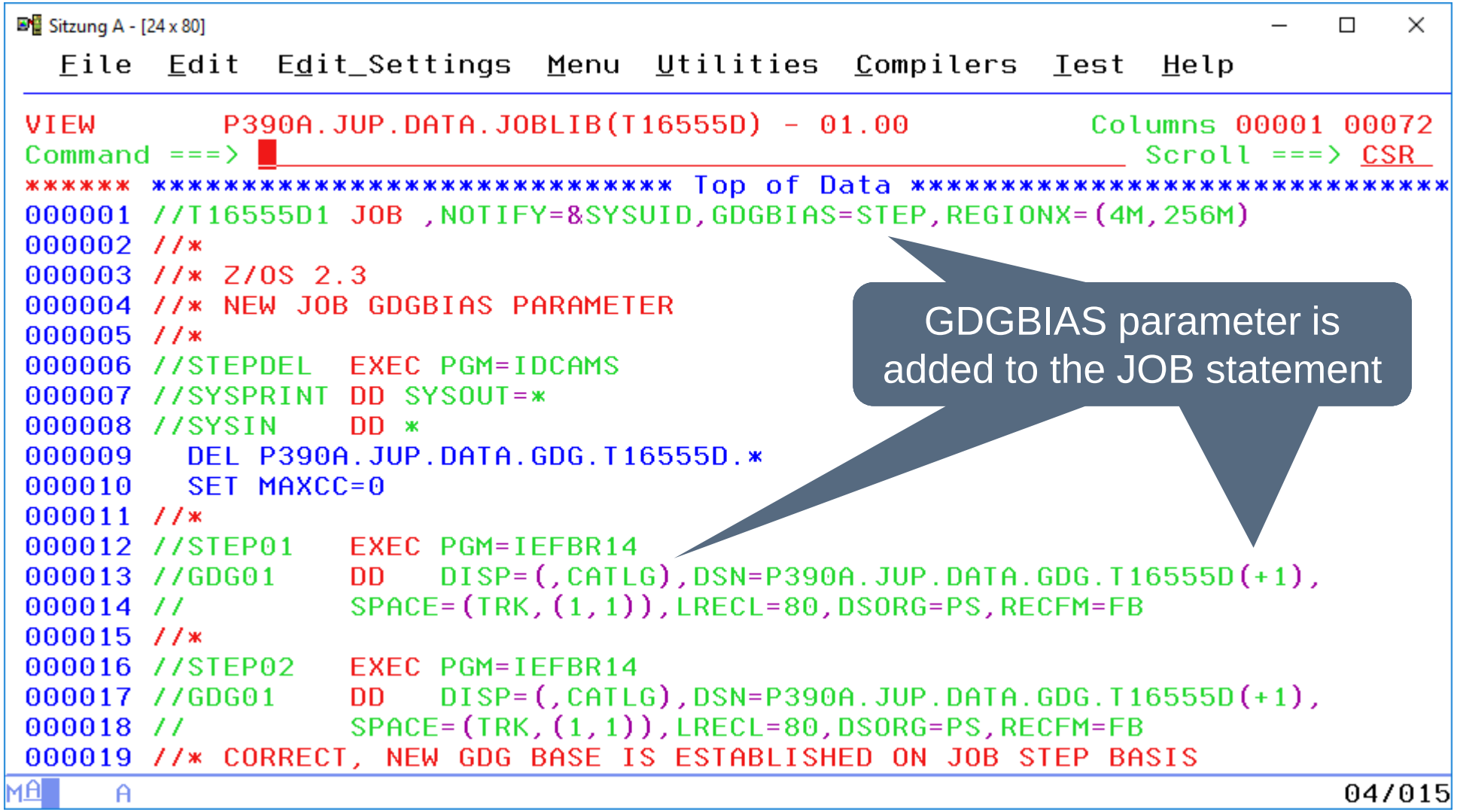
SmartJCL 3.4 – z/OS 2.3



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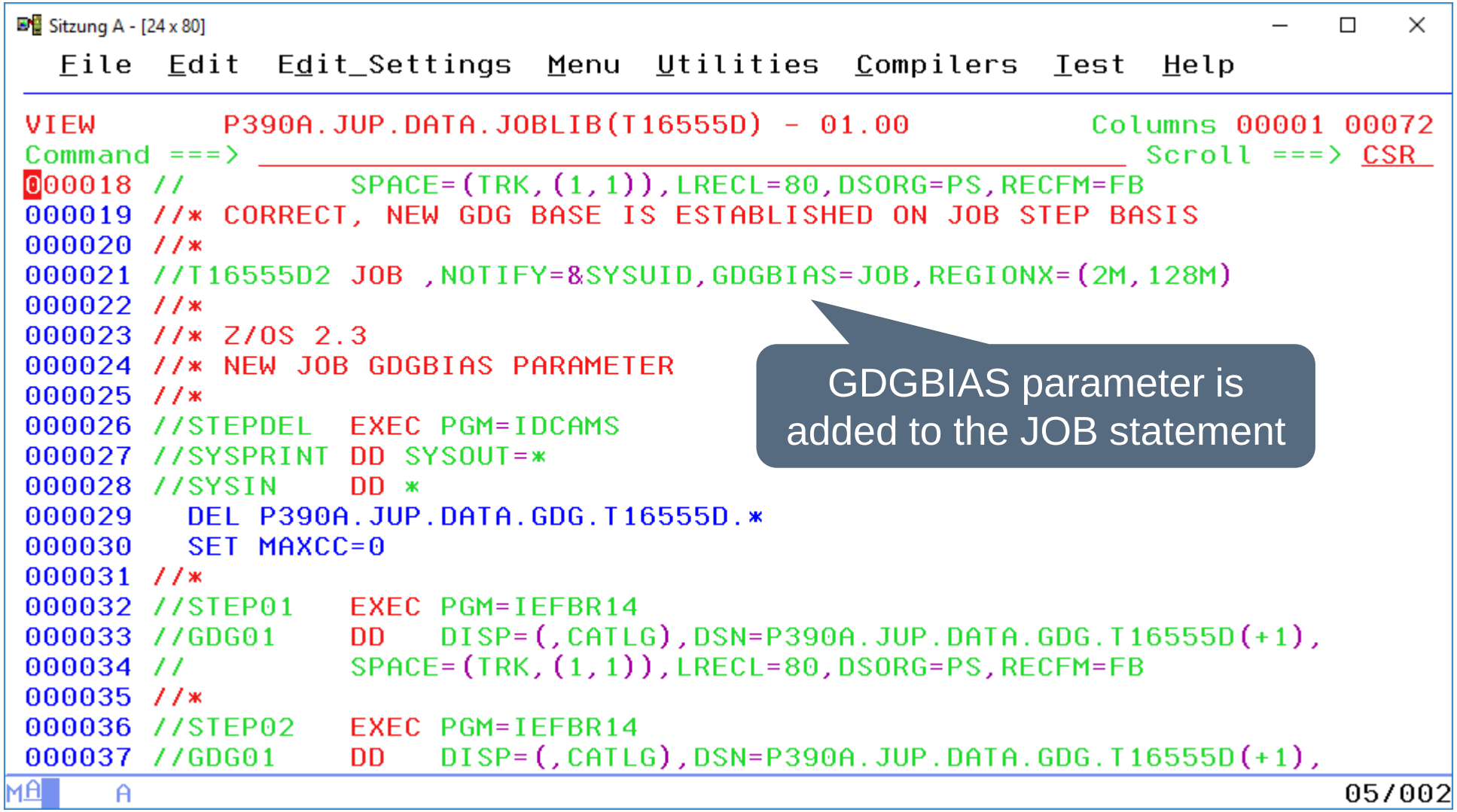

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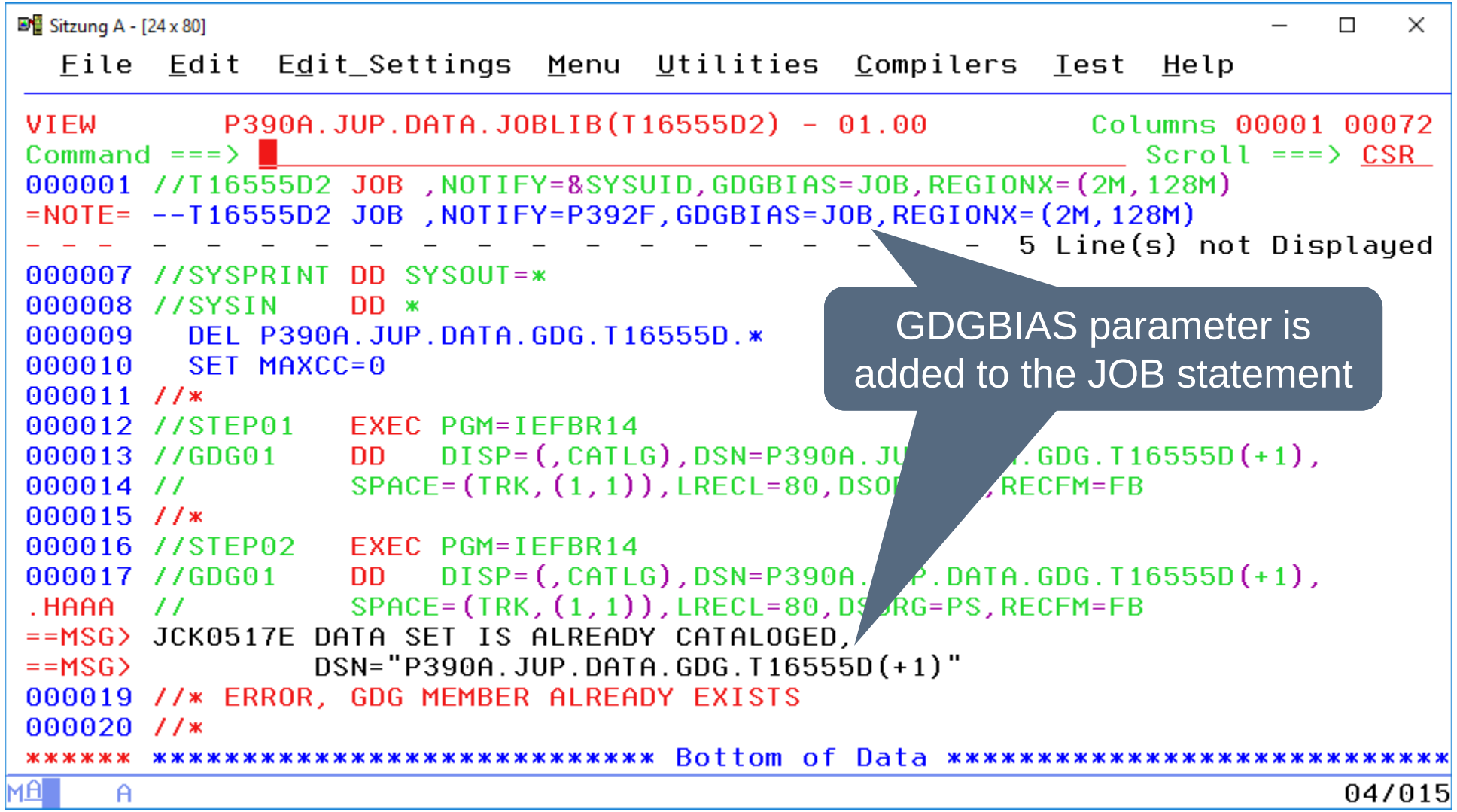
SmartJCL 3.4 – z/OS 2.3



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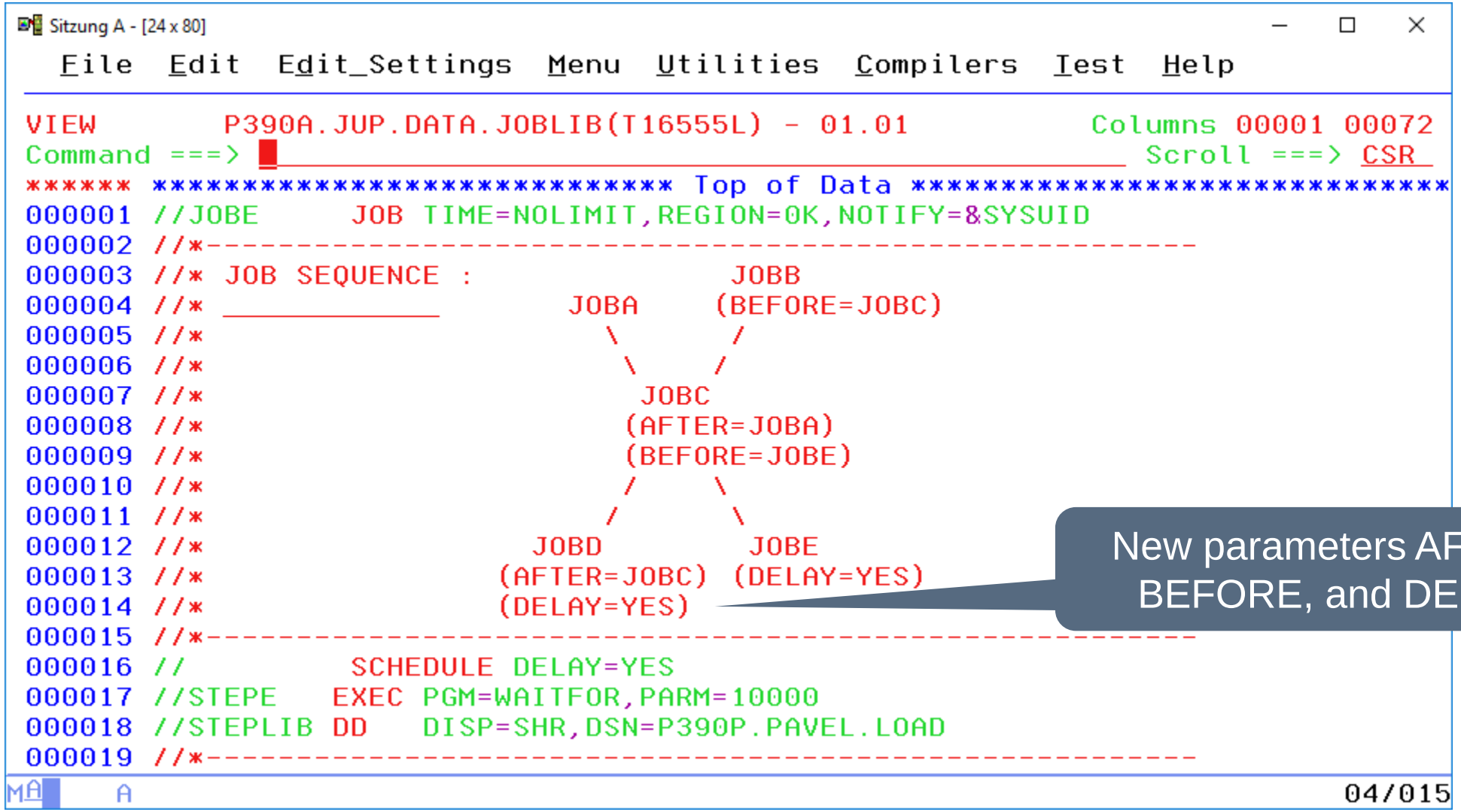
SmartJCL 3.4 – z/OS 2.3



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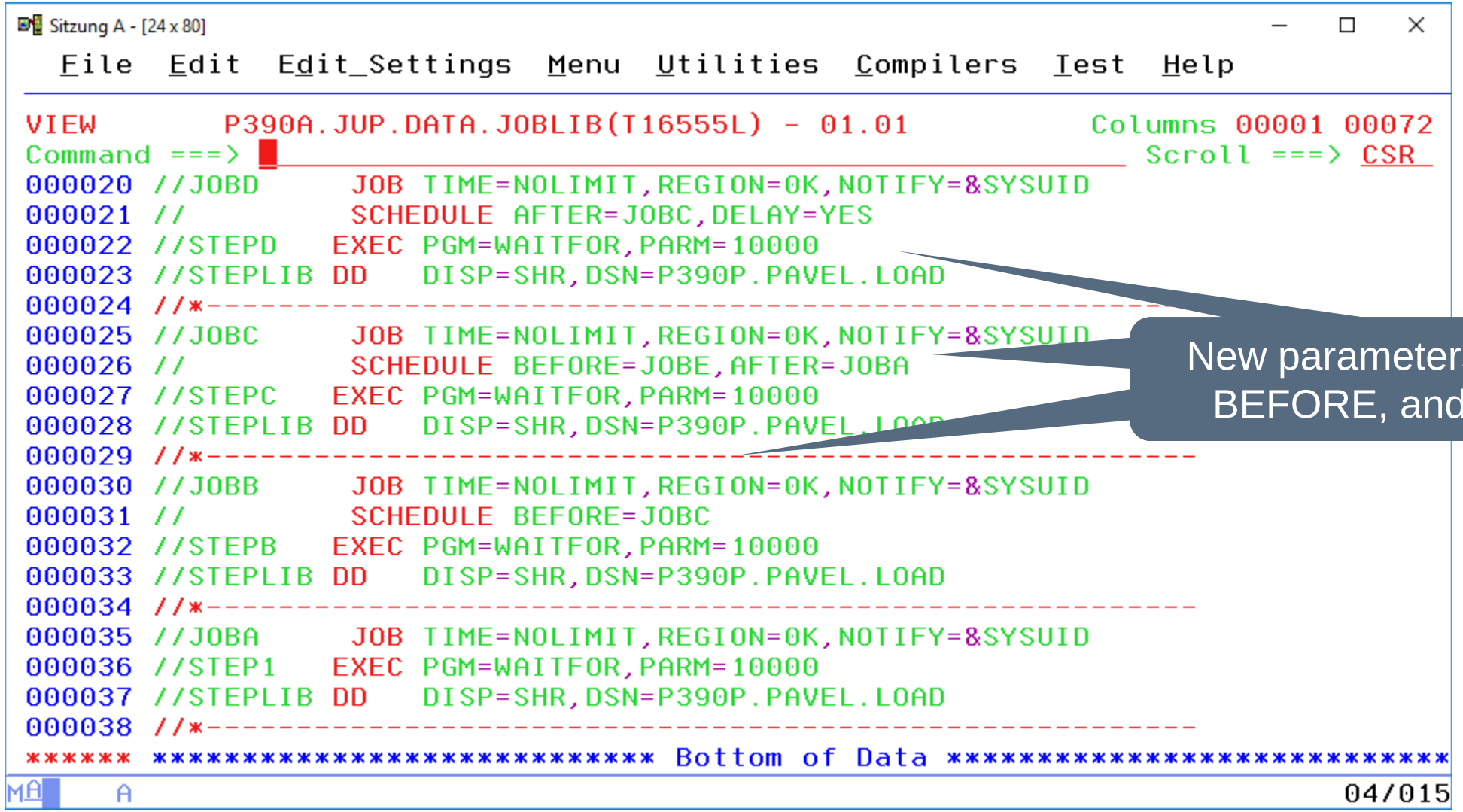
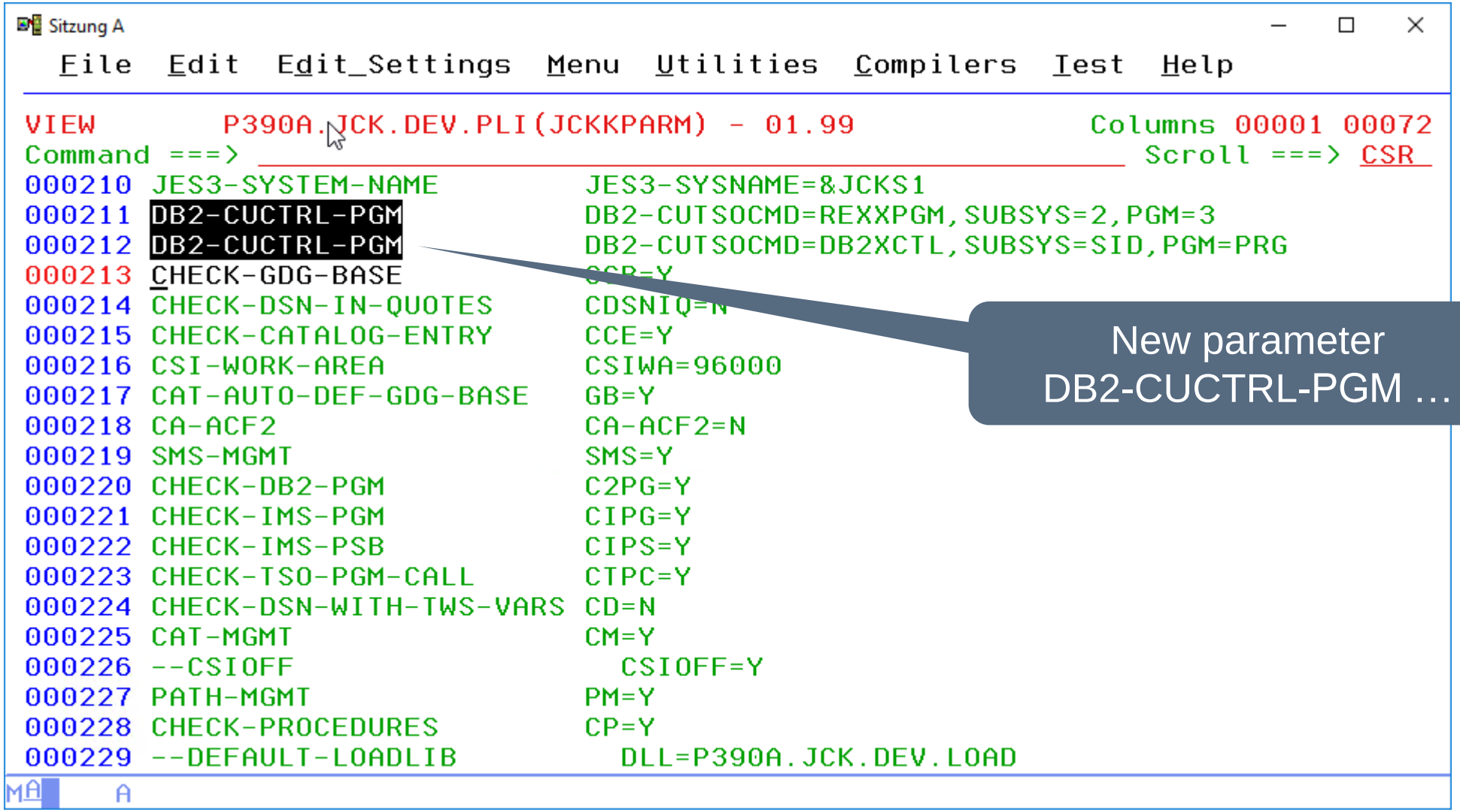
SmartJCL 3.4 – z/OS 2.3



HORIZONT Classification: Restricted

SmartJCL 3.4 – JCL Check



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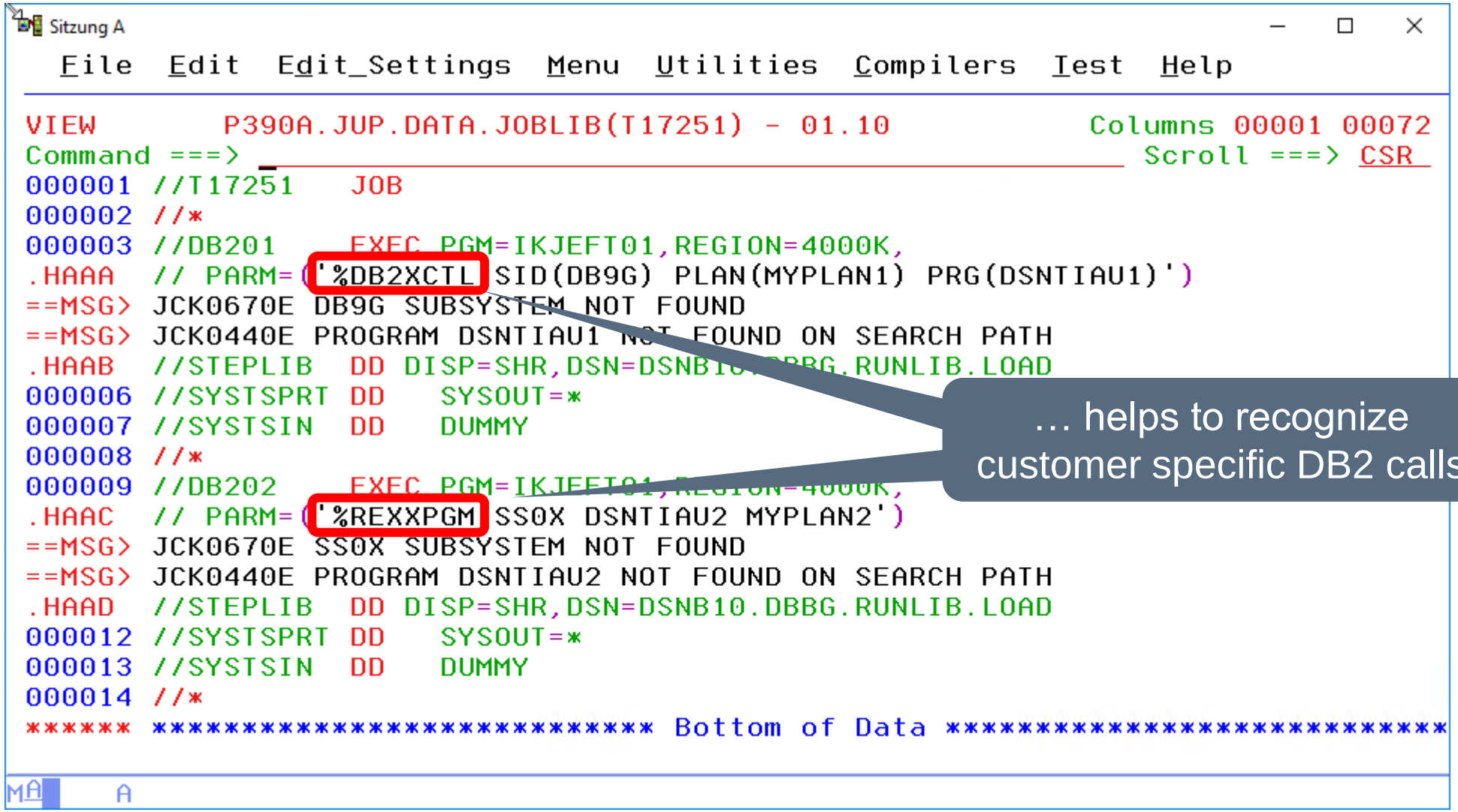

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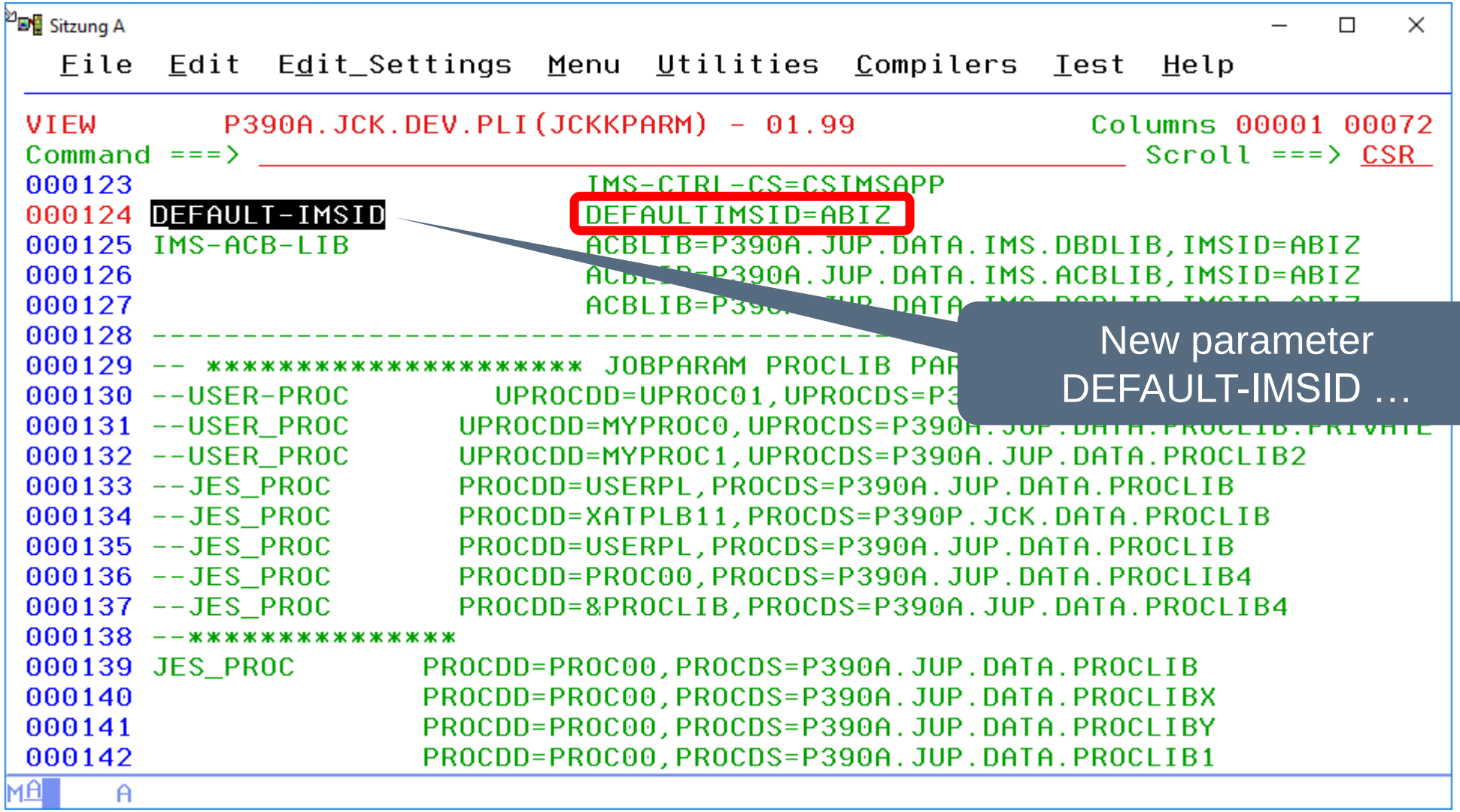

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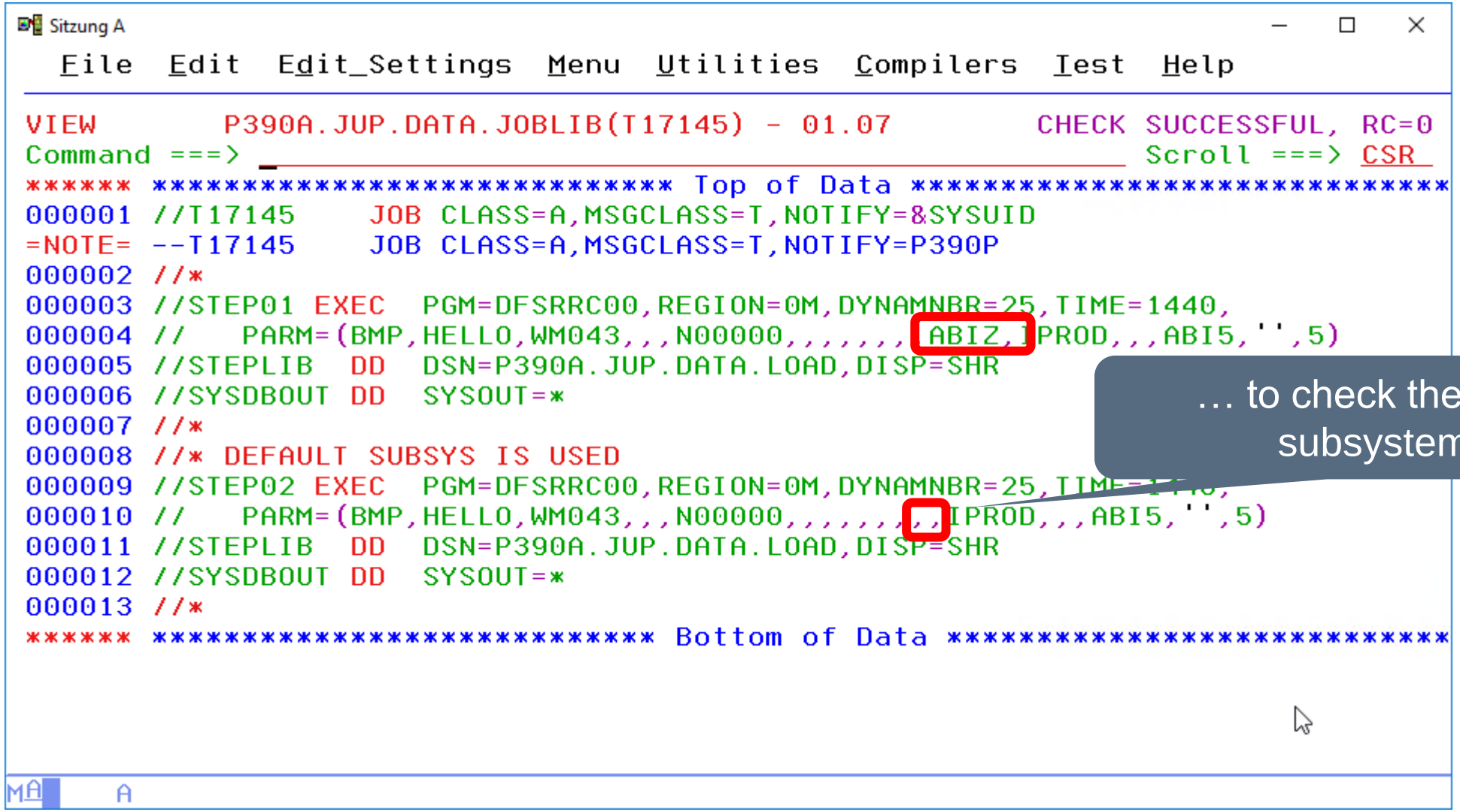

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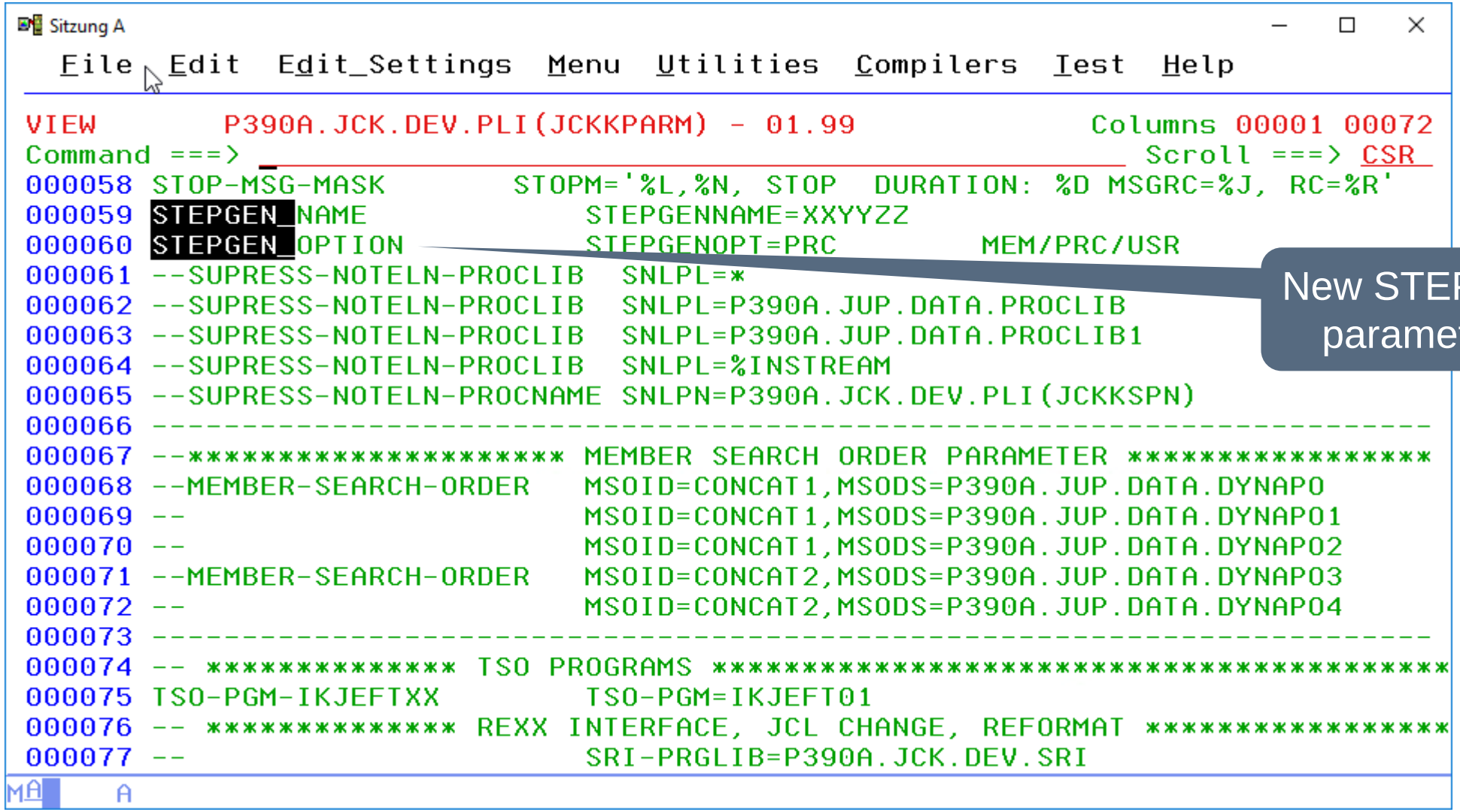

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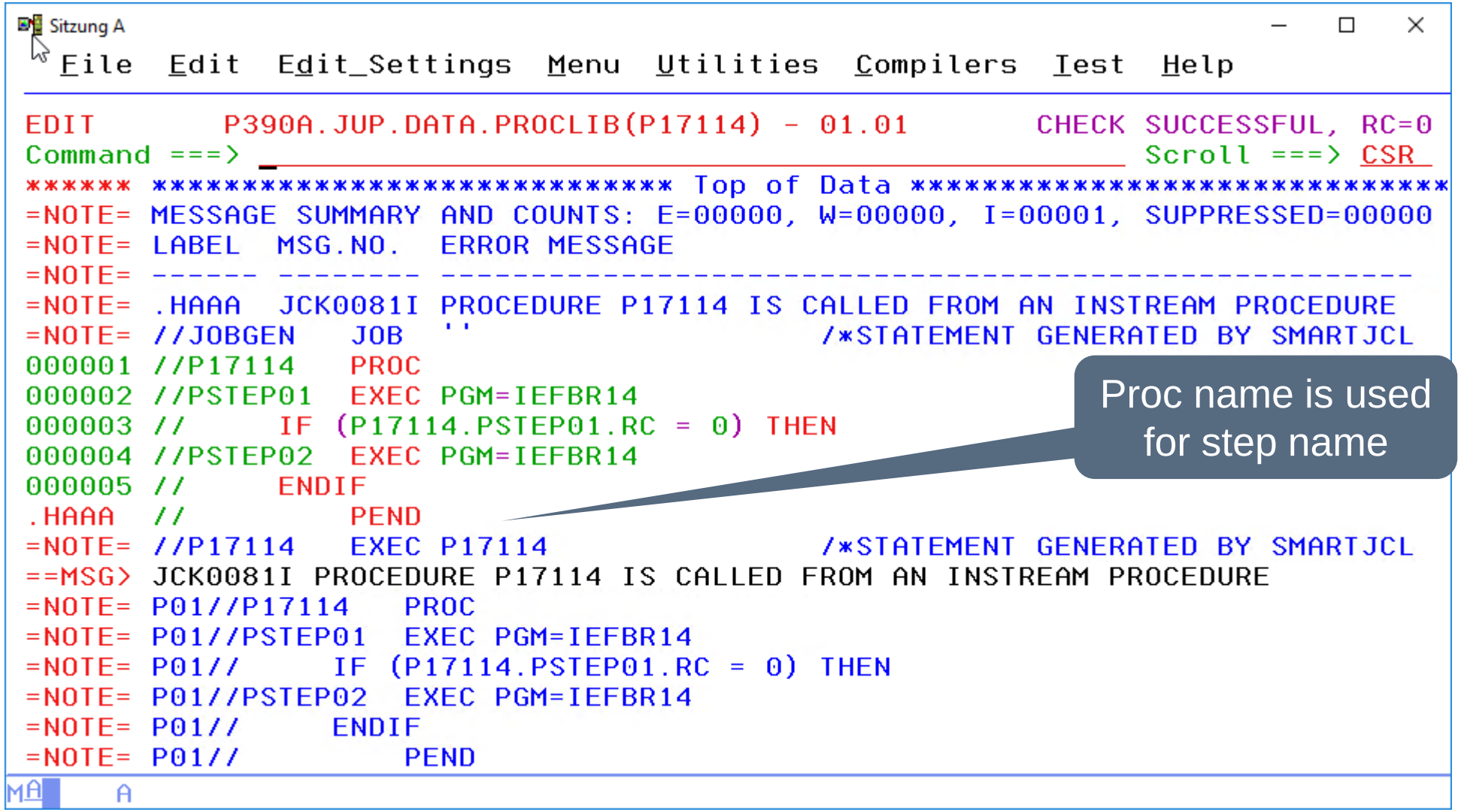

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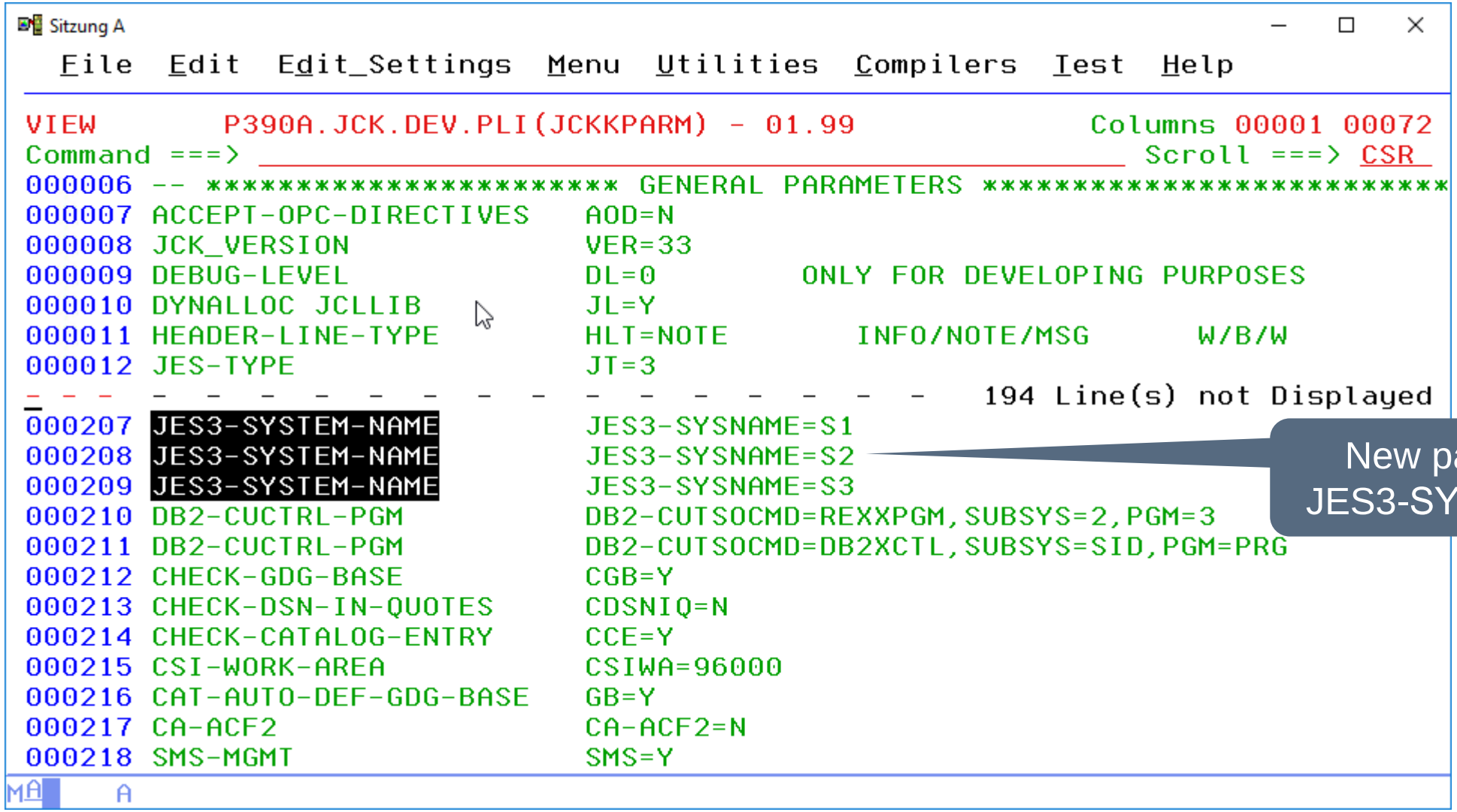
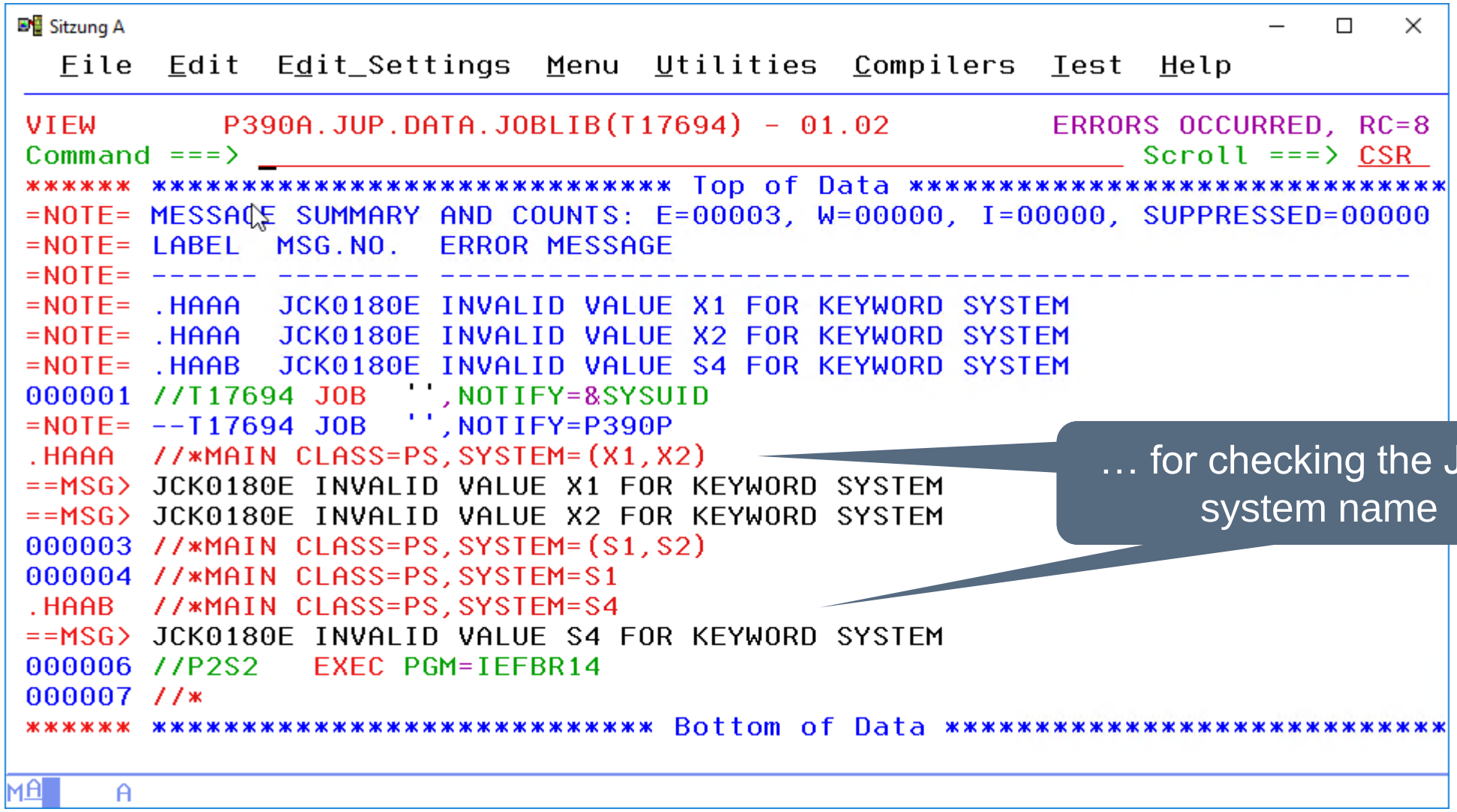


New parameter JES3-SYSNAME …

HORIZONT Classification: Restricted

SmartJCL 3.4 – JCL Check



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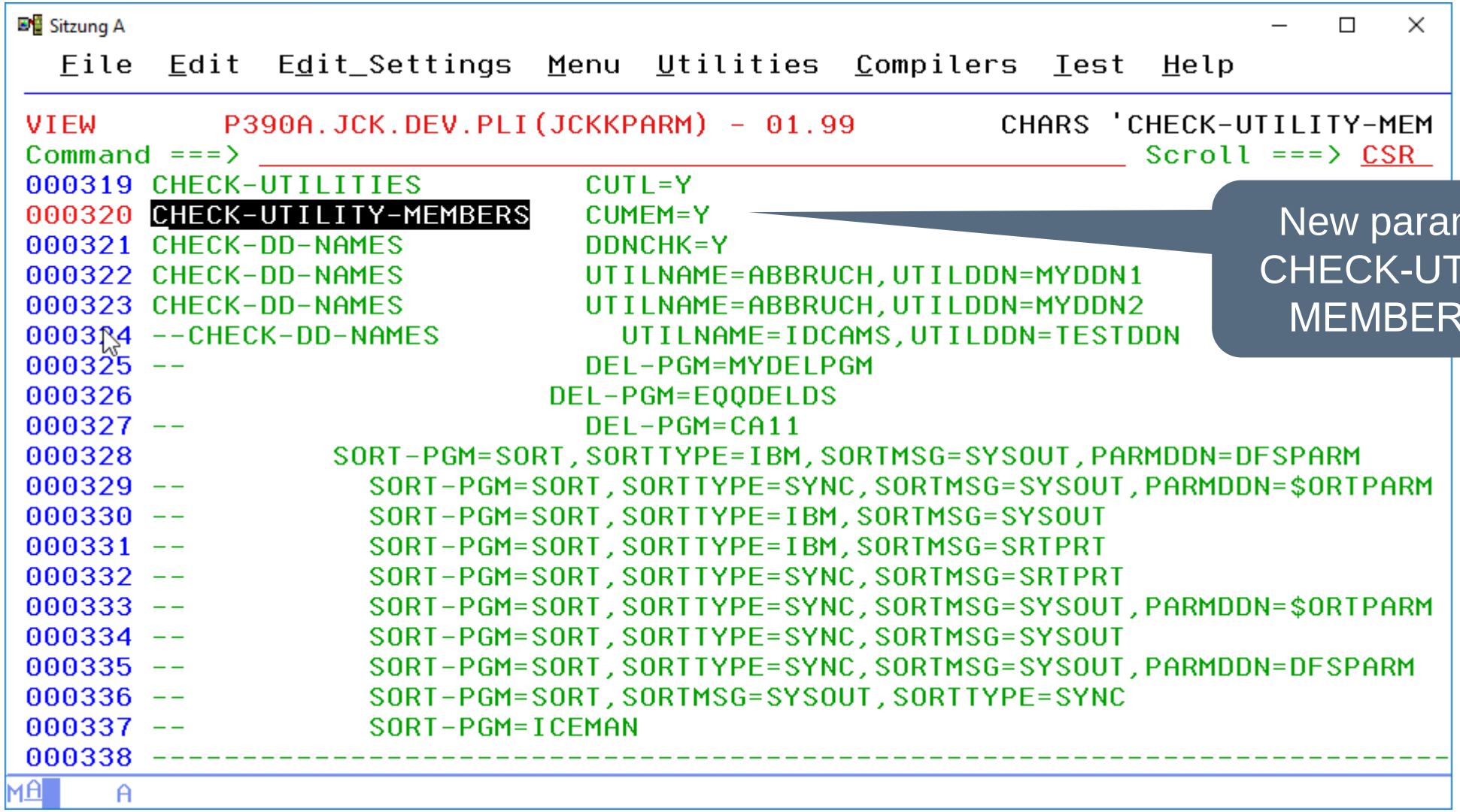

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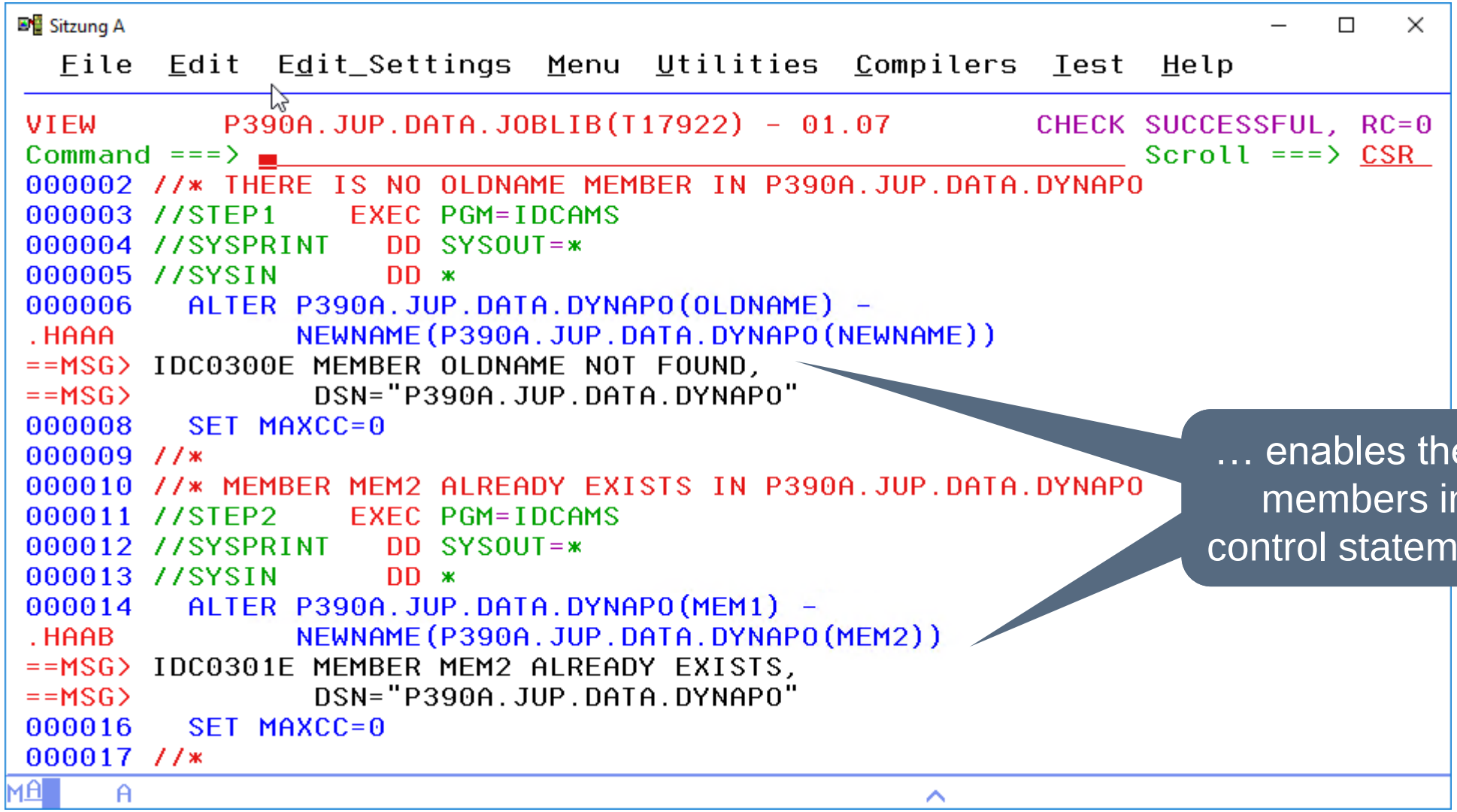
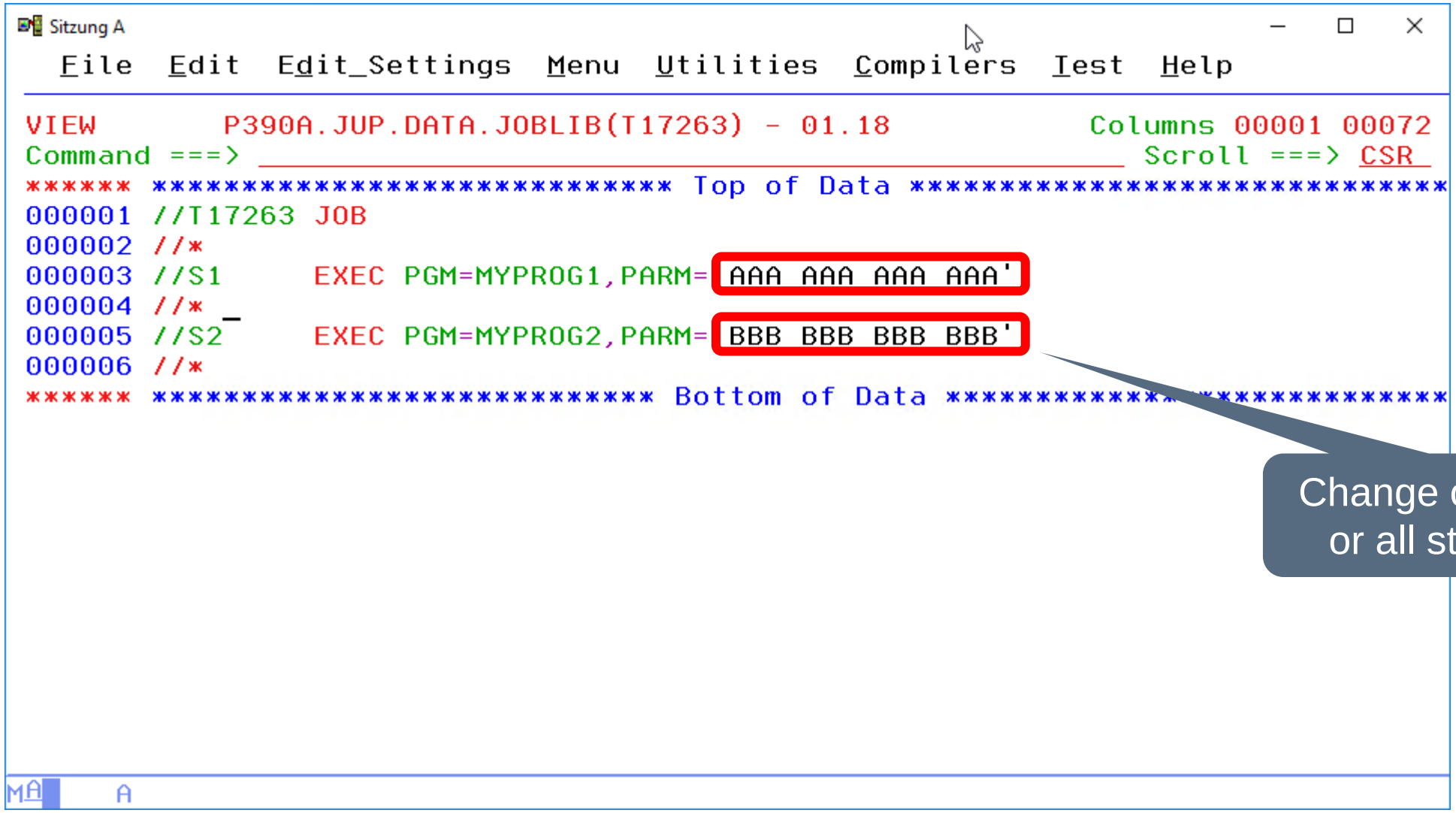


HORIZONT Classification: Restricted

SmartJCL 3.4 – Change Facility



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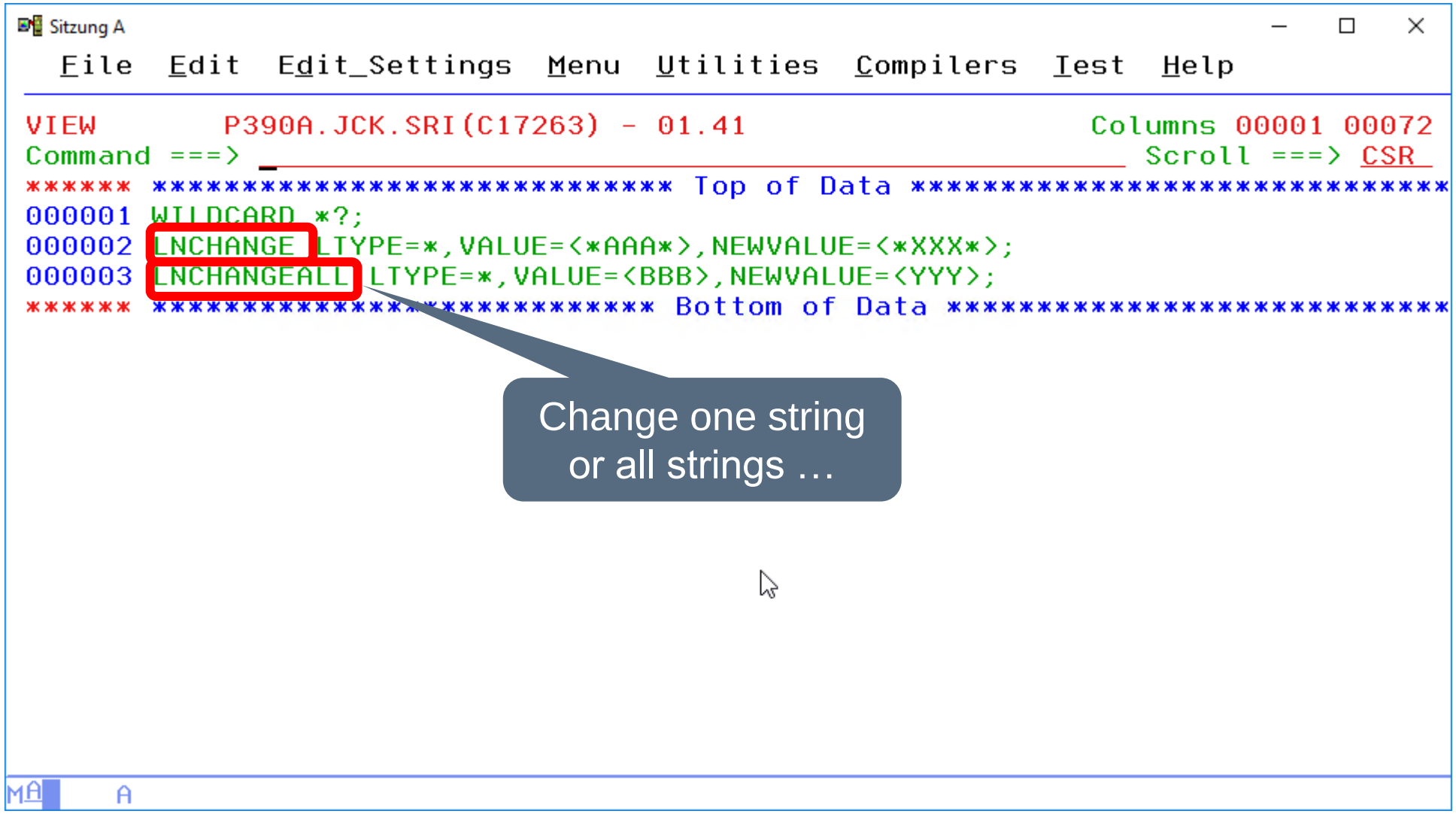

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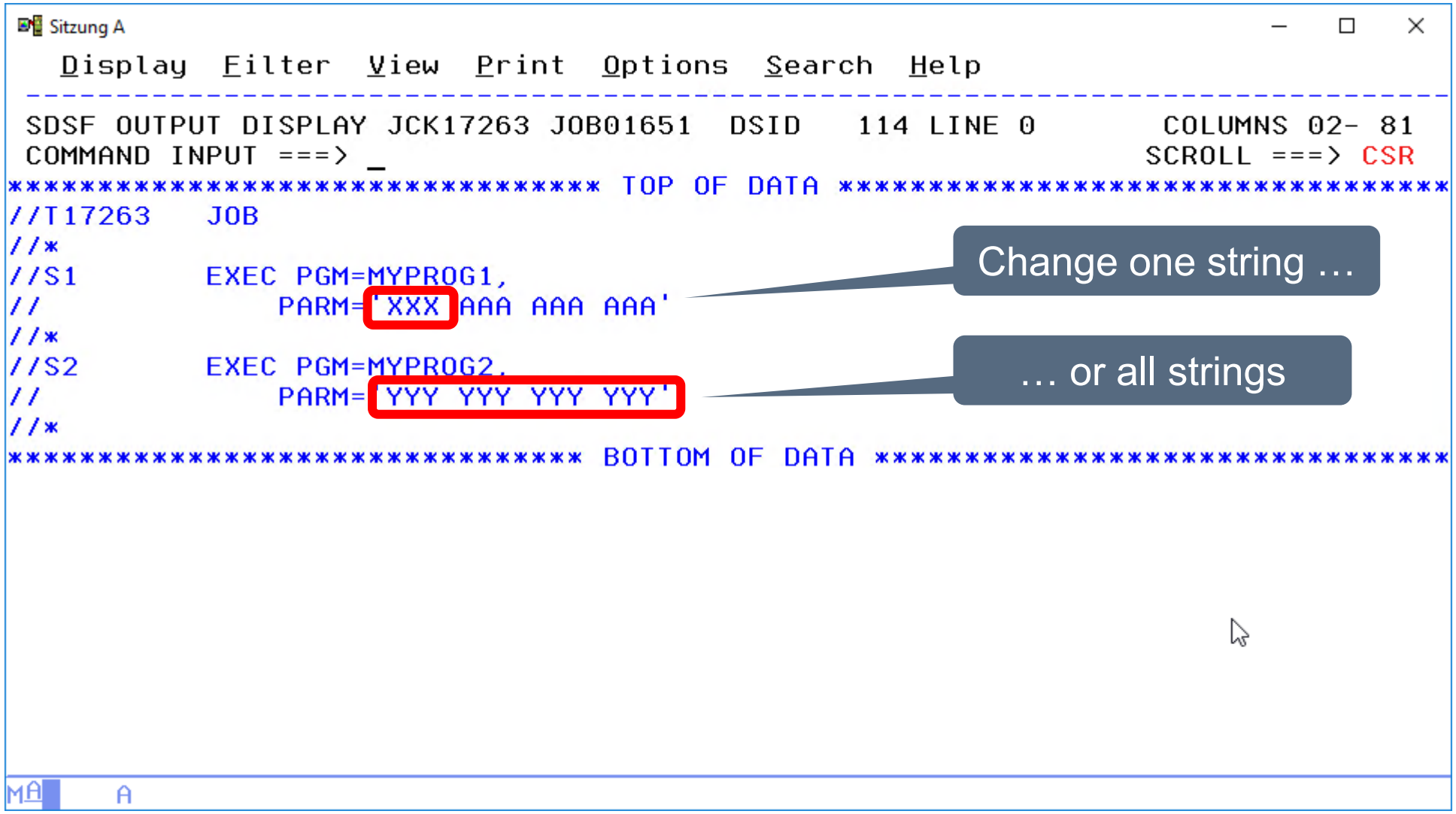
SmartJCL 3.4 – Change Facility



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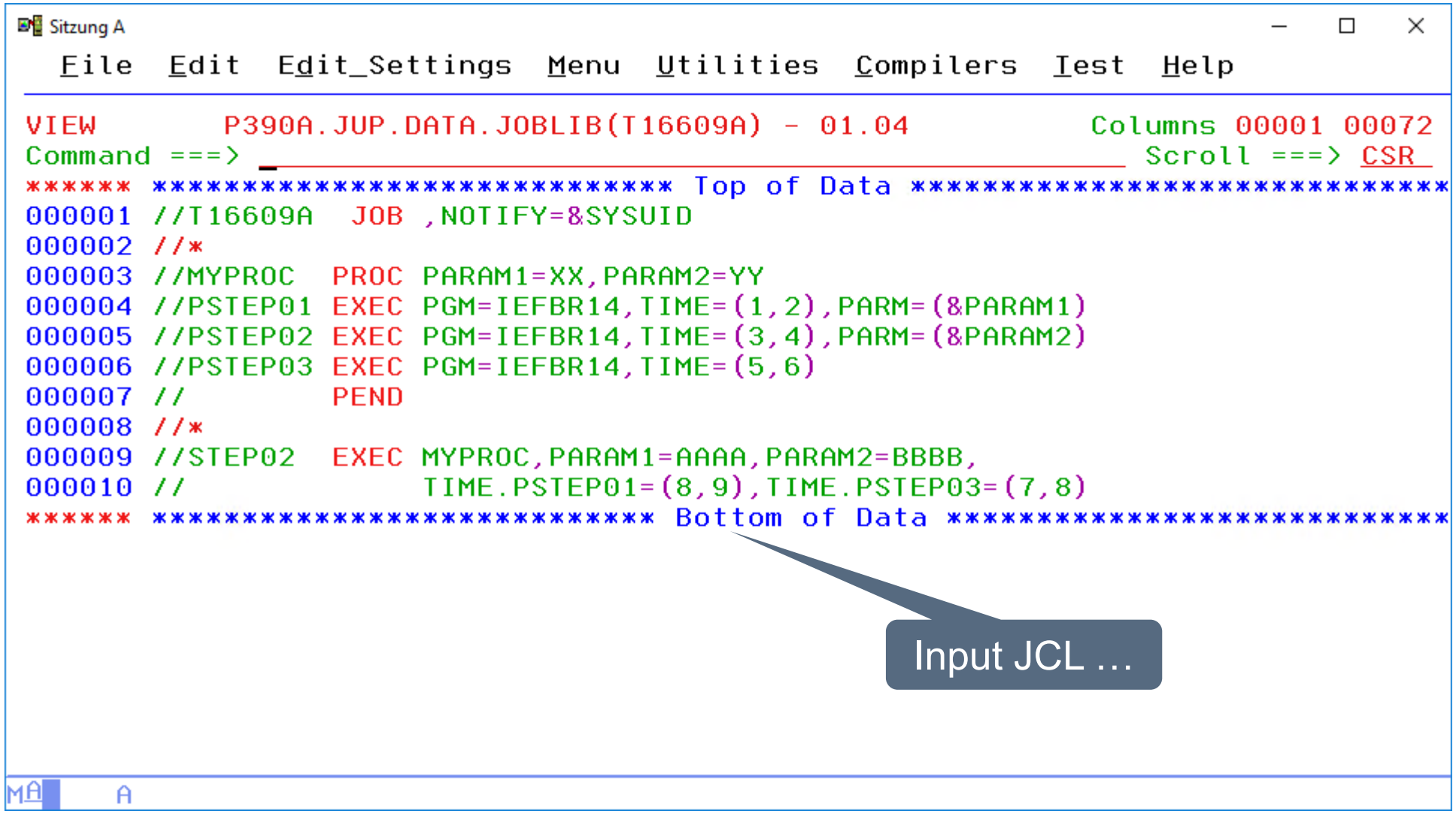
SmartJCL 3.4 – REXX Interface



HORIZONT Classification: Restricted

SmartJCL 3.4 – REXX Interface

```
VIEW        P390A.JCK.SRI(X16609A) - 01.08                    Columns 00001 00072
Command ===>                                                   Scroll ===> CSR
****** ***************************** Top of Data ******************************
000001  /* REXX */
000002  /*****************************************************************/
000003  /* 16609: EXEC STATEMENT STEM VARIABLE. EXAMPLE 1                */
000004  /*****************************************************************/
000005  STMTPTR = SRIGETSTMT(1);
000006  do while (stmtptr /= 0);
000007    call SRIFillStem(stmtptr);
000008    if (SRISayStmtType(stmtptr) = 'EXEC') then do;
000009      say '**** EXEC STEM VARIABLE ********************';
000010      say 'EXEC.NAME          =>'EXEC.NAME'<';
000011      if SYMBOL('EXEC.PGM')="VAR" then
000012        say 'EXEC.PGM          =>'EXEC.PGM'<';
000013      if SYMBOL('EXEC.PROC')="VAR" then
000014        say 'EXEC.PROC         =>'EXEC.PROC'<';
000015      if SYMBOL('EXEC.TIME')="VAR" then
000016        say 'EXEC.TIME         =>'EXEC.TIME'<';
000017      if SYMBOL('EXEC.TIME.MINUTES')="VAR" then
000018        say 'EXEC.TIME.MINUTES =>'EXEC.TIME.MINUTES'<';
000019      if SYMBOL('EXEC.TIME.SECONDS')="VAR" then
000020        say 'EXEC.TIME.SECONDS =>'EXEC.TIME.SECONDS'<';
000021      if SYMBOL('EXEC.TIME.MINUTES.PSTEP01')="VAR" then
000022        say 'EXEC.TIME.MINUTES.PSTEP01=>'EXEC.TIME.MINUTES.PSTEP01'<';
000023      if SYMBOL('EXEC.TIME.SECONDS.PSTEP01')="VAR" then
000024        say 'EXEC.TIME.SECONDS.PSTEP01=>'EXEC.TIME.SECONDS.PSTEP01'<';
000025      if SYMBOL('EXEC.TIME.MINUTES.PSTEP02')="VAR" then
000026        say 'EXEC.TIME.MINUTES.PSTEP02=>'EXEC.TIME.MINUTES.PSTEP02'<';
000027      if SYMBOL('EXEC.TIME.SECONDS.PSTEP02')="VAR" then
000028        say 'EXEC.TIME.SECONDS.PSTEP02=>'EXEC.TIME.SECONDS.PSTEP02'<';
000029      if SYMBOL('EXEC.TIME.MINUTES.PSTEP03')="VAR" then
000030        say 'EXEC.TIME.MINUTES.PSTEP03=>'EXEC.TIME.MINUTES.PSTEP03'<';
000031      if SYMBOL('EXEC.TIME.SECONDS.PSTEP03')="VAR" then
000032        say 'EXEC.TIME.SECONDS.PSTEP03=>'EXEC.TIME.SECONDS.PSTEP03'<';
000033      say '-----------------------------------------';
000034      say 'EXEC.PROCSTEPS     =>'EXEC.PROCSTEPS'<';
000035      say 'EXEC.SYMBOLS       =>'EXEC.SYMBOLS'<';
000036      say '*****************************************';
000037    end;
000038    stmtptr = SRIGetStmt(stmtptr, 'NEXT');
```

… is available in a stem

HORIZONT Classification: Restricted

SmartJCL 3.4 – REXX Interface

```
 SDSF OUTPUT DISPLAY JCK16609 JOB06425  DSID    111 LINE 2        COLUMNS 02- 81
 COMMAND INPUT ===> _                                          SCROLL ===> CSR
EXEC.NAME           =>PSTEP01<
EXEC.PGM            =>IEFBR14<
EXEC.TIME           =>(1,2)<
EXEC.TIME.MINUTES   =>1<
EXEC.TIME.SECONDS   =>2<
-----------------------------------------
EXEC.PROCSTEPS      =><
EXEC.SYMBOLS        =><
*****************************************
**** EXEC STEM VARIABLE *****************
EXEC.NAME           =>PSTEP02<
EXEC.PGM            =>IEFBR14<
EXEC.TIME           =>(3,4)<
EXEC.TIME.MINUTES   =>3<
EXEC.TIME.SECONDS   =>4<
-----------------------------------------
EXEC.PROCSTEPS      =><
EXEC.SYMBOLS        =><
*****************************************
**** EXEC STEM VARIABLE *****************
EXEC.NAME           =>PSTEP03<
EXEC.PGM            =>IEFBR14<
EXEC.TIME           =>(5,6)<
EXEC.TIME.MINUTES   =>5<
EXEC.TIME.SECONDS   =>6<
-----------------------------------------
EXEC.PROCSTEPS      =><
EXEC.SYMBOLS        =><
*****************************************
**** EXEC STEM VARIABLE *****************
EXEC.NAME           =>STEP02<
EXEC.PROC           =>MYPROC<
EXEC.TIME.MINUTES.PSTEP01=>8<
EXEC.TIME.SECONDS.PSTEP01=>9<
EXEC.TIME.MINUTES.PSTEP03=>7<
EXEC.TIME.SECONDS.PSTEP03=>8<
-----------------------------------------
EXEC.PROCSTEPS      => PSTEP01 PSTEP03 <
EXEC.SYMBOLS        => PARAM1 PARAM2 <
```

Result of the REXX program

HORIZONT Classification: Restricted

SmartJCL 3.3

SmartJCL V3R3 is available since May 2016. It offers following new functions:

- z/OS 2.2 support - many new statements
  - New SCHEDULE statement
  - JES2 Execution Control Statements:
    - AFTER
    - BEFORE
    - CONCURRENT
    - ENDGROUP
    - ENDSET
    - GJOB
    - JOBGROUP
    - JOBSET
    - SCHEDULE
    - SJOB

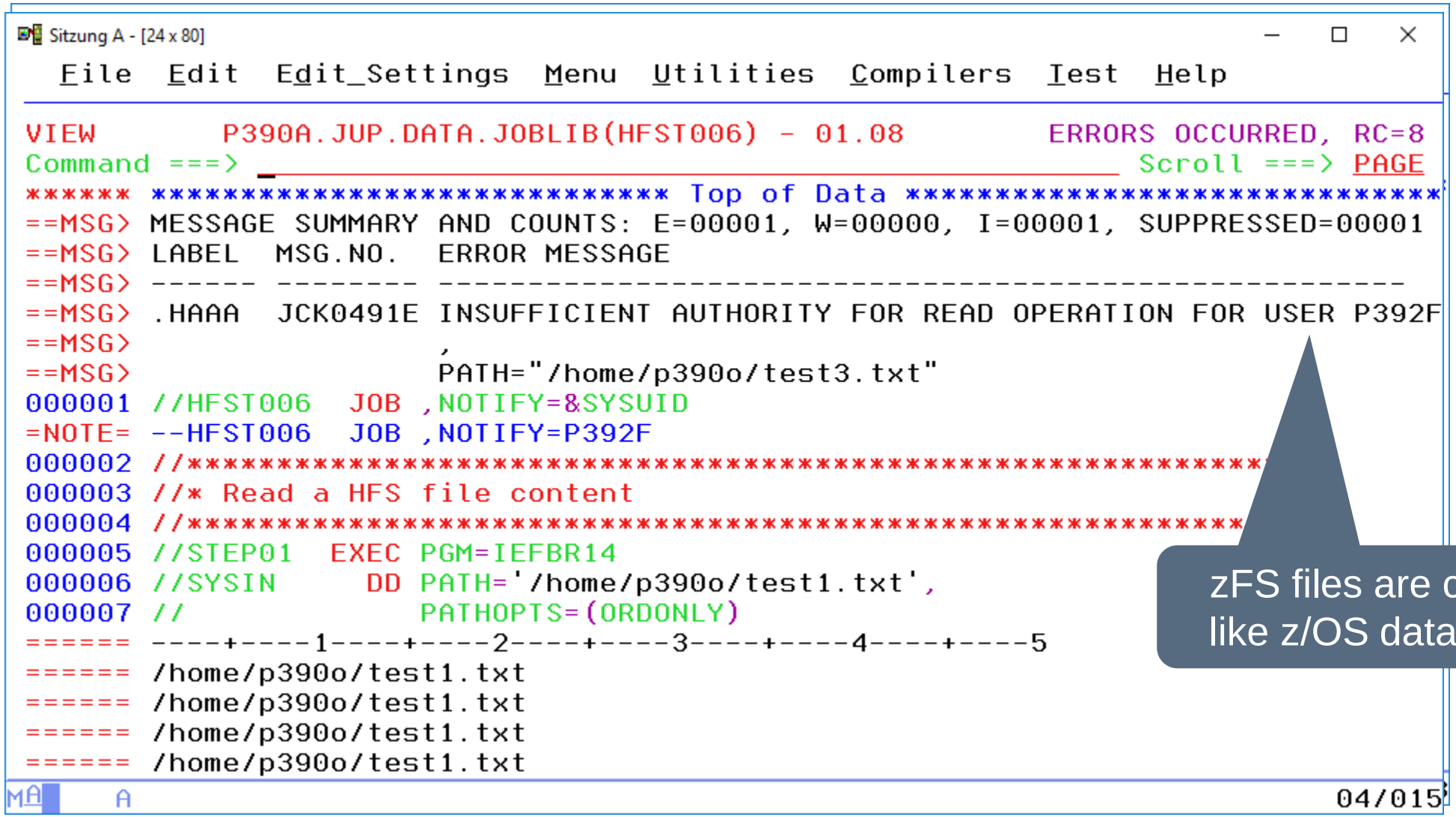
Classification: Restricted

SmartJCL 3.3

- PATH check
  - UNIX files are check in the same way as z/OS data sets
  - Files are managed in a temp. catalog of SmartJCL
- Retrieve Proclib information from system
  - z/OS 2.2 with SSI calls
- Adapted installation routine
  - ISPF dialog collects data
  - Jobs do the installation and create data sets
- Support of TWS 9.3

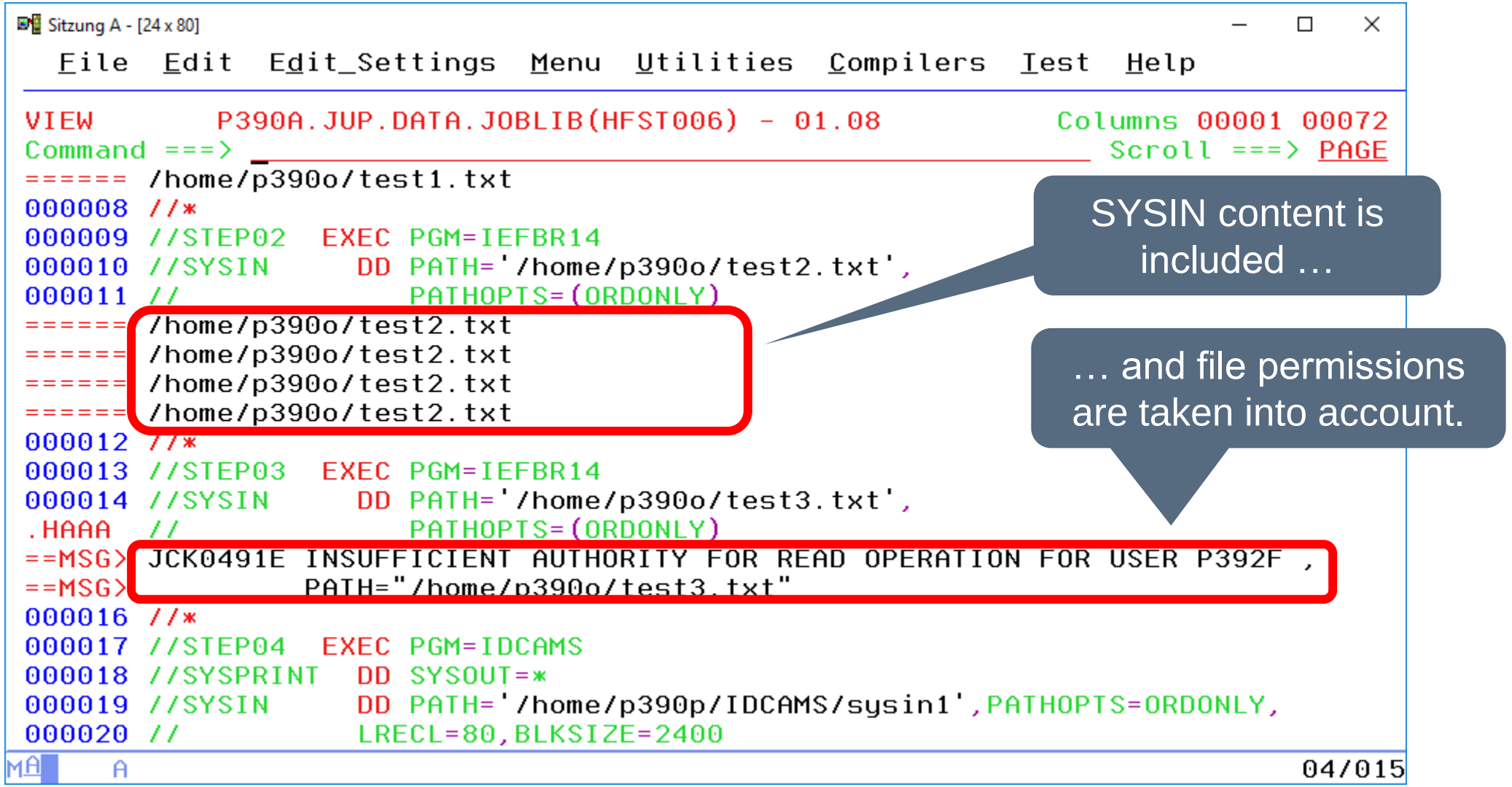
Classification: Restricted

SmartJCL 3.3 – Path Management



Classification: Restricted

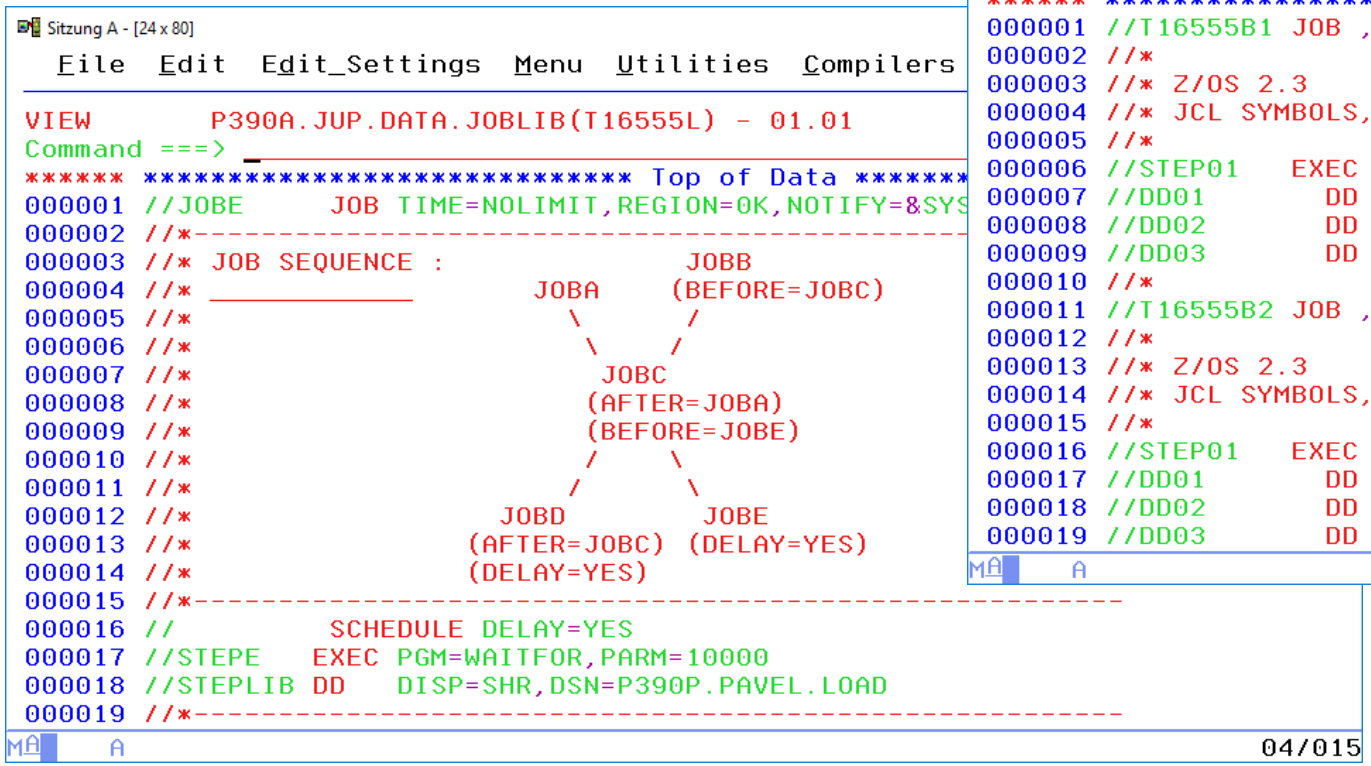
SmartJCL 3.3 – Path Management

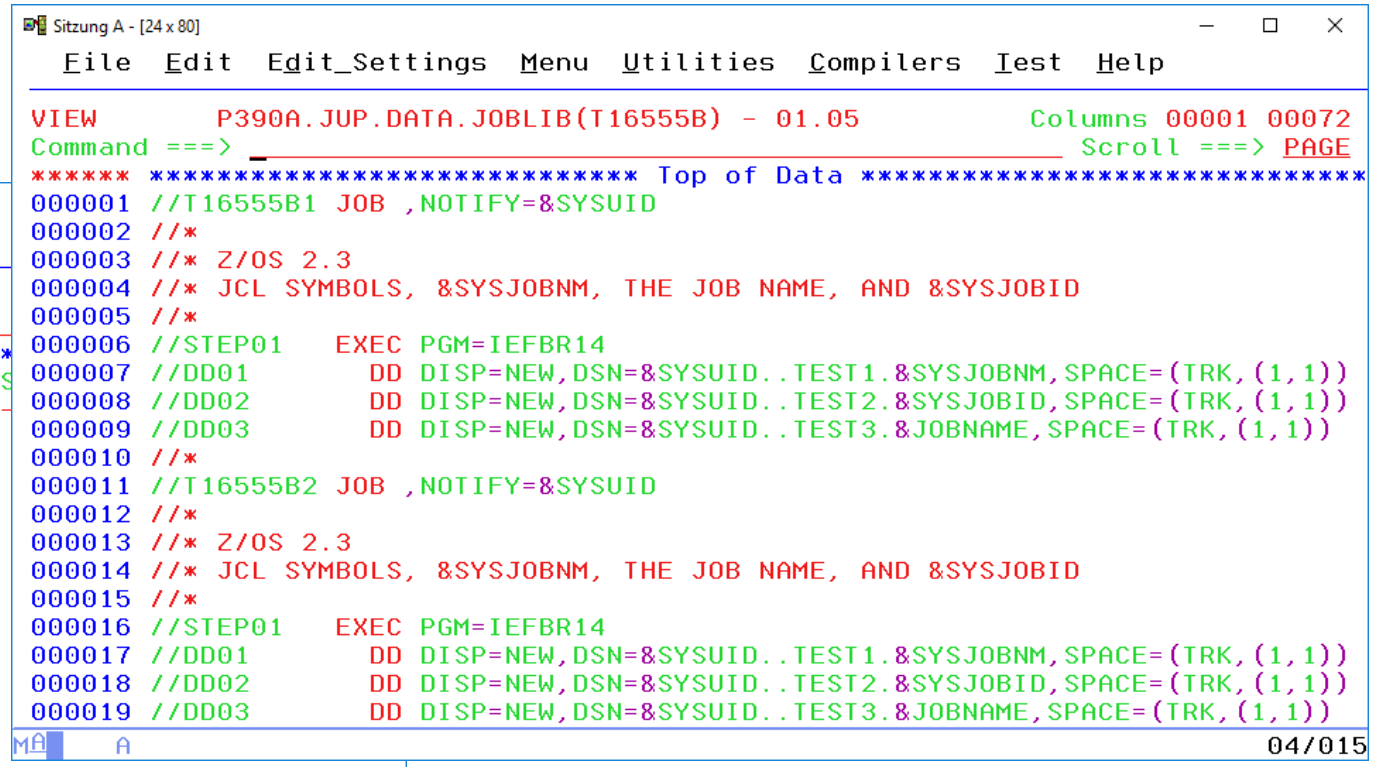


Classification: Restricted

Any questions about SmartJCL 3.3 ?

Contact: info@horizont-it.com





Classification: Restricted

SmartJCL 3.2

SmartJCL V3R2 is available since February 2014. It offers following new functions:

- New Eclipse / RDz plug-in
  - Uses Remote Check Server on z/OS for a complete JCL check on z/OS
- Enhanced support for condition code dependent steps

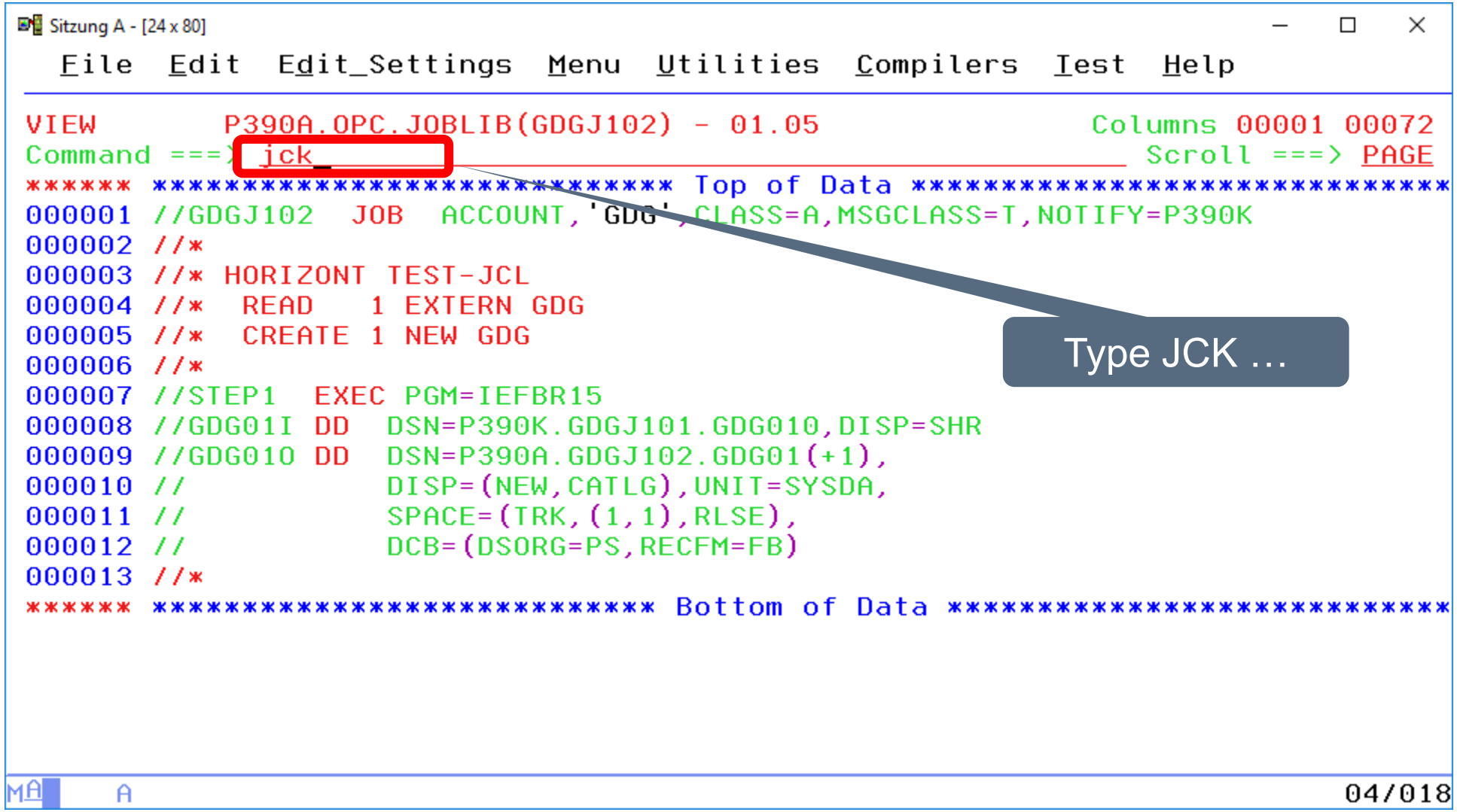
HORIZONT Classification: Restricted

SmartJCL 3.2

- Support System Symbols in PARM members
- New PARM member to exclude DSNs from catalog check
- REXX Interface supports compiled REXX pgms
- Support for
  - z/OS 1.13 Enhancements
    - JOBRC parameter
    - In-stream data in JES2 procedures
  - z/OS 2.1 Enhancements
  - TWS 9.1

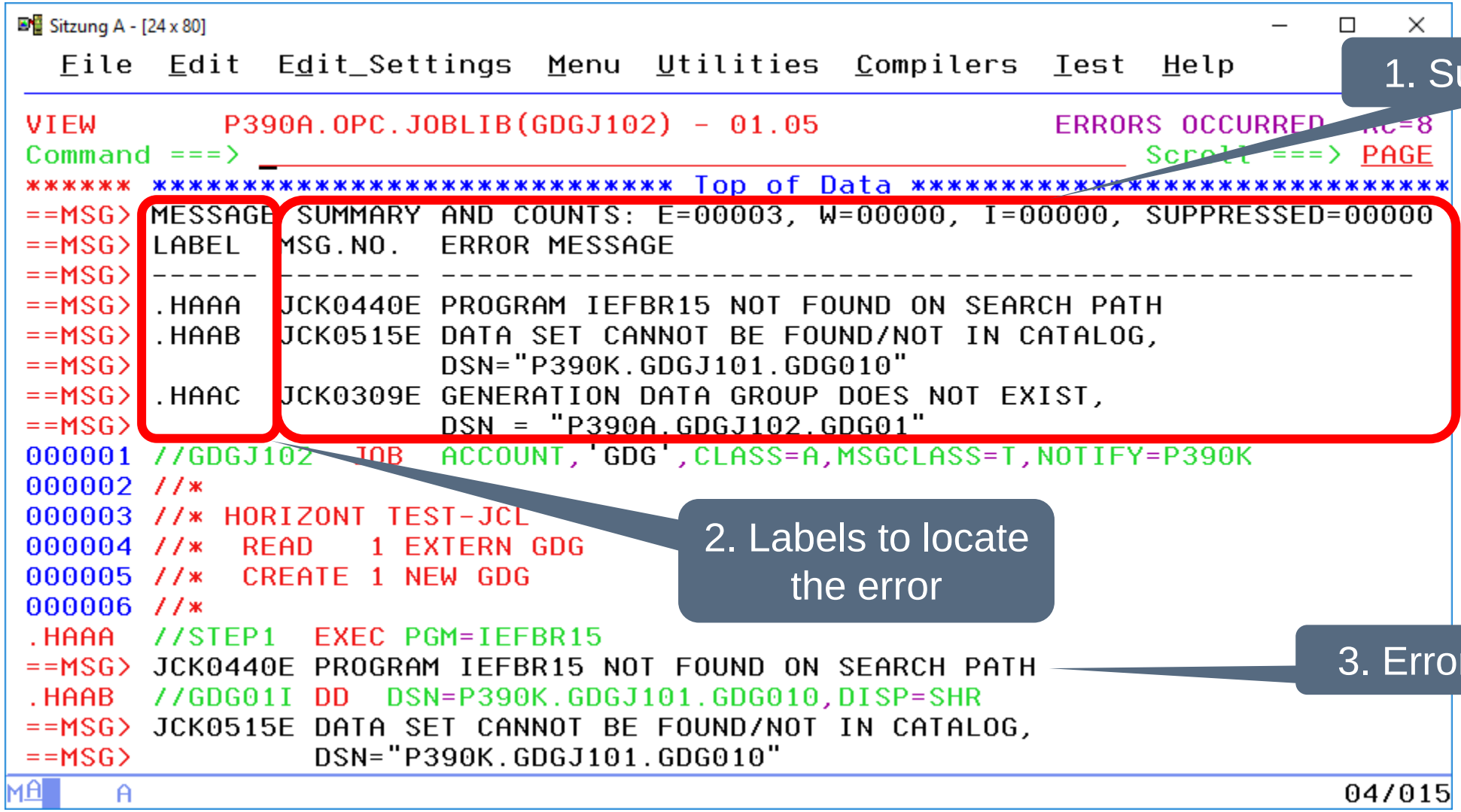
HORIZONT
Classification: Restricted

SmartJCL 3.2 – Edit Macro



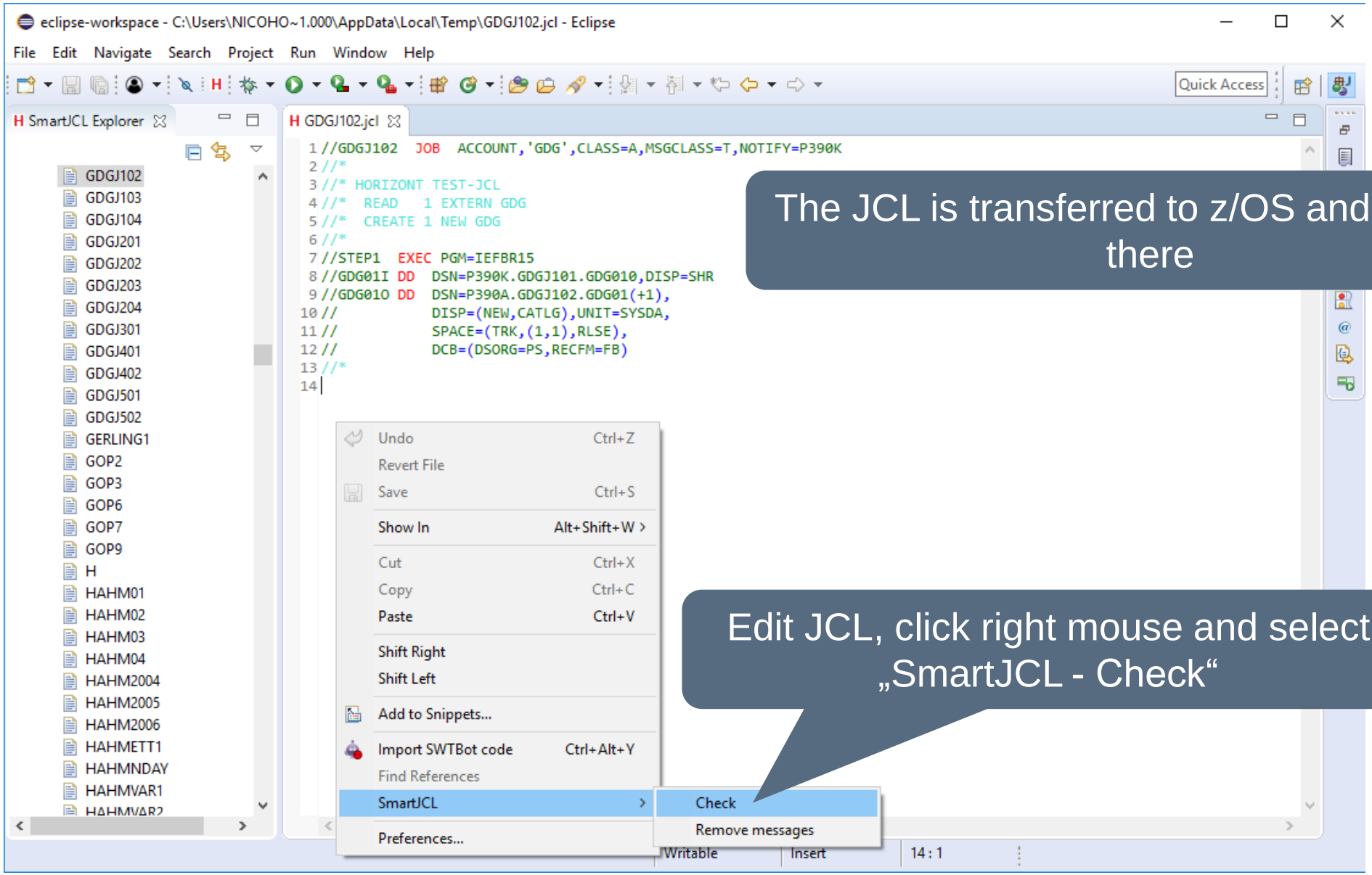
Classification: Restricted

SmartJCL 3.2 – Edit Macro



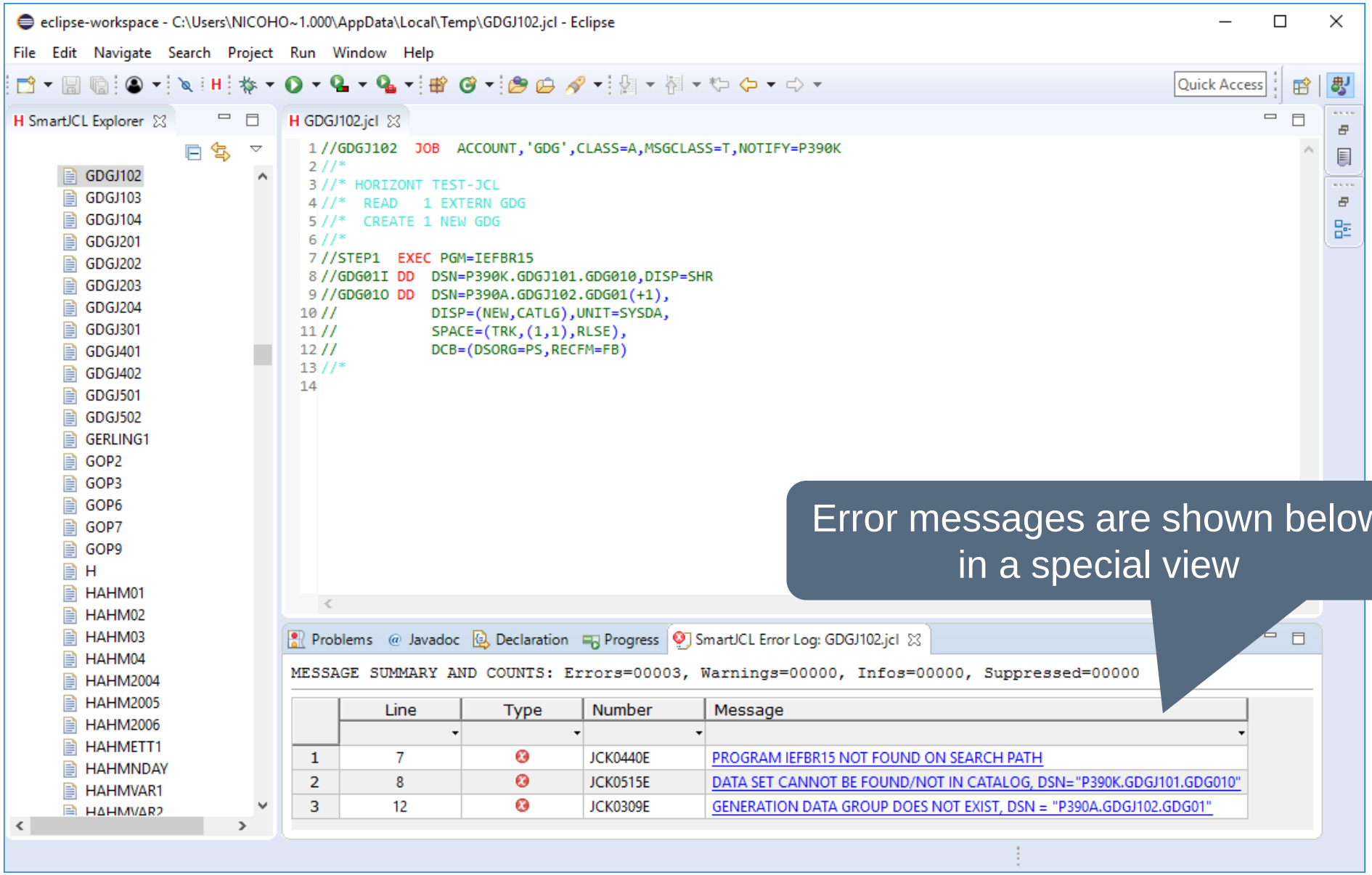
HORIZONT Classification: Restricted

SmartJCL 3.2 – Eclipse plug-in



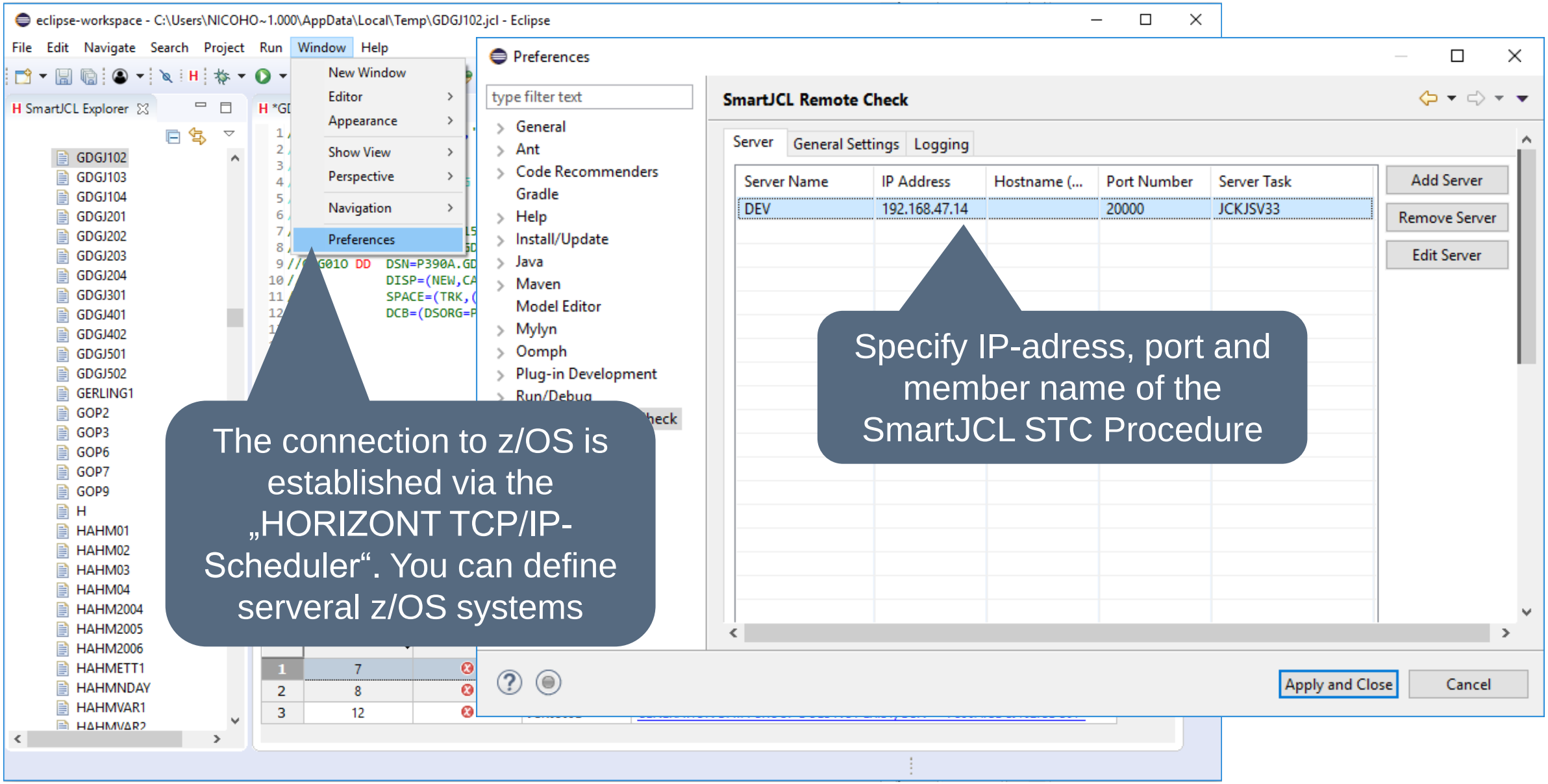
Classification: Restricted

SmartJCL 3.2 – Eclipse plug-in



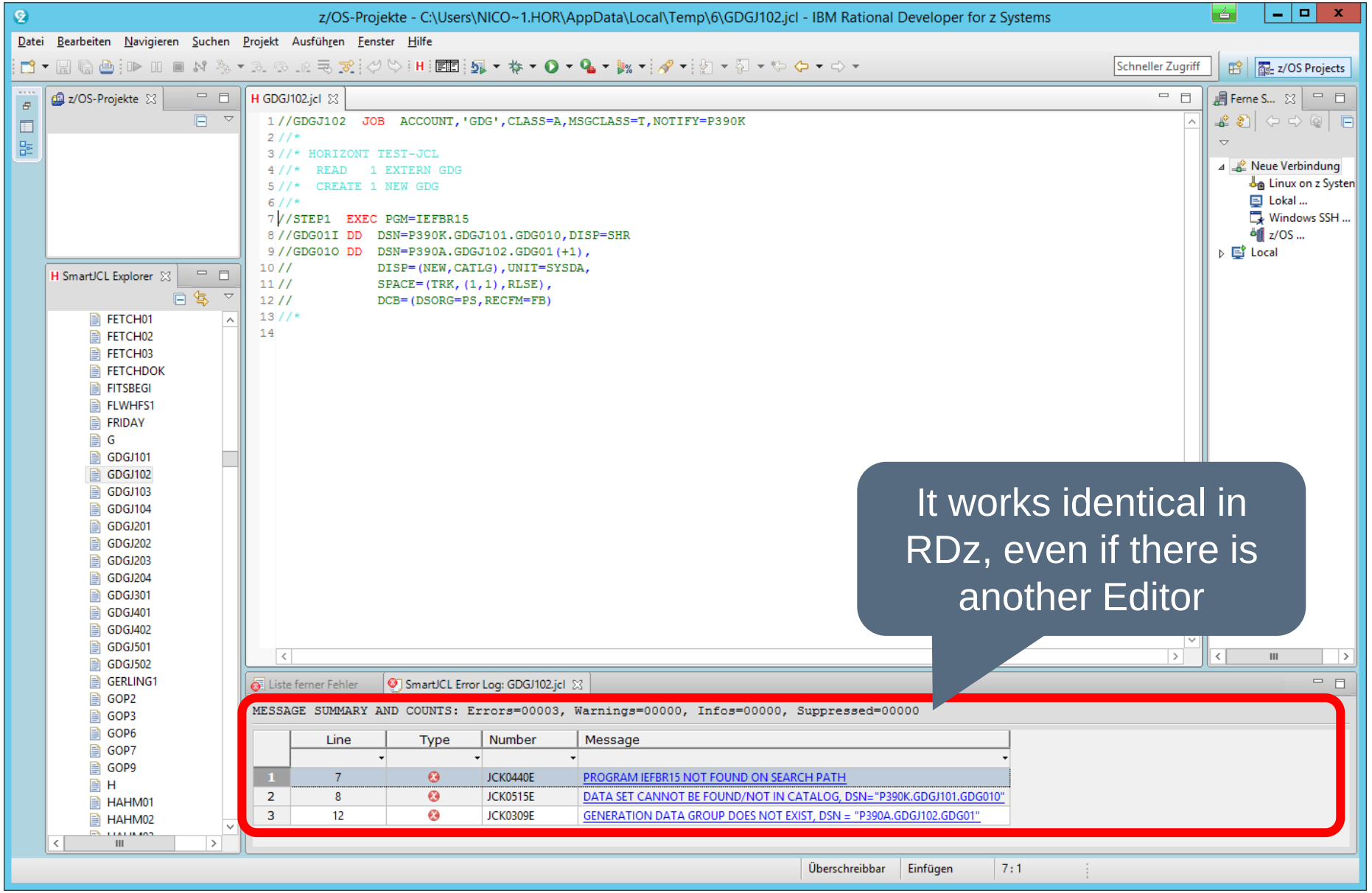
HORIZONT Classification: Restricted

SmartJCL 3.2 – Eclipse plug-in



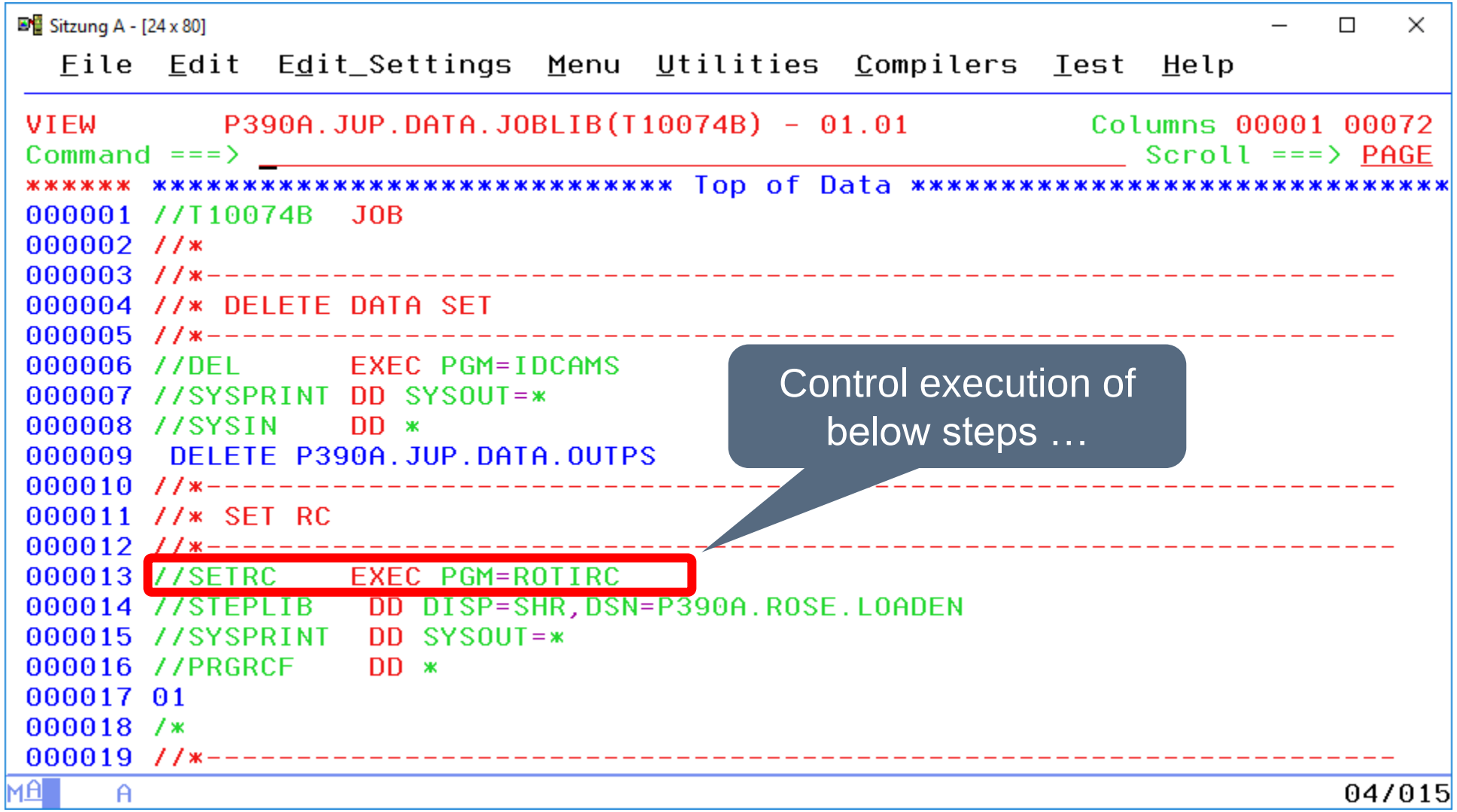
HORIZONT Classification: Restricted

SmartJCL 3.2 – RDz plug-in



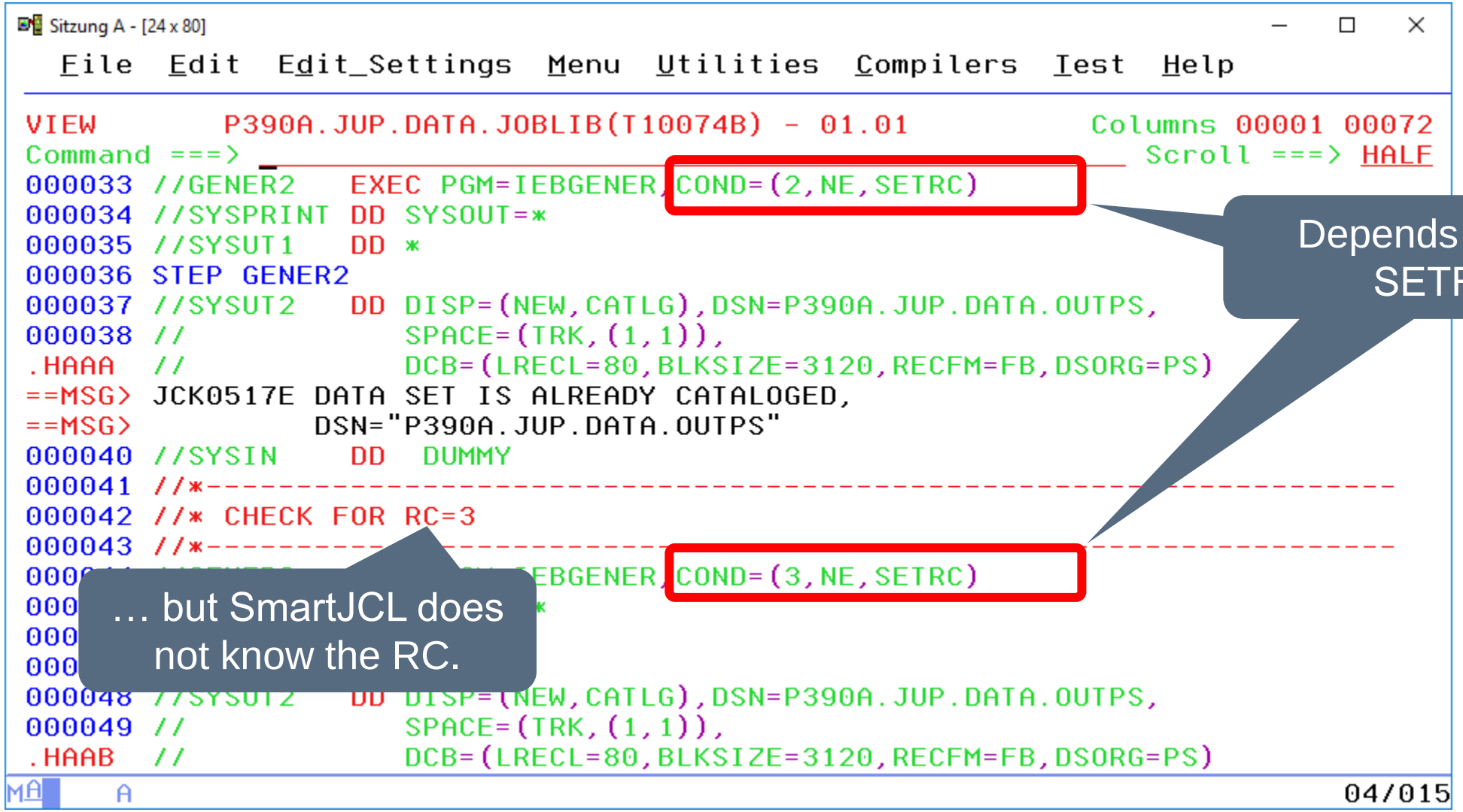
Classification: Restricted

SmartJCL 3.2 – Cond. Steps



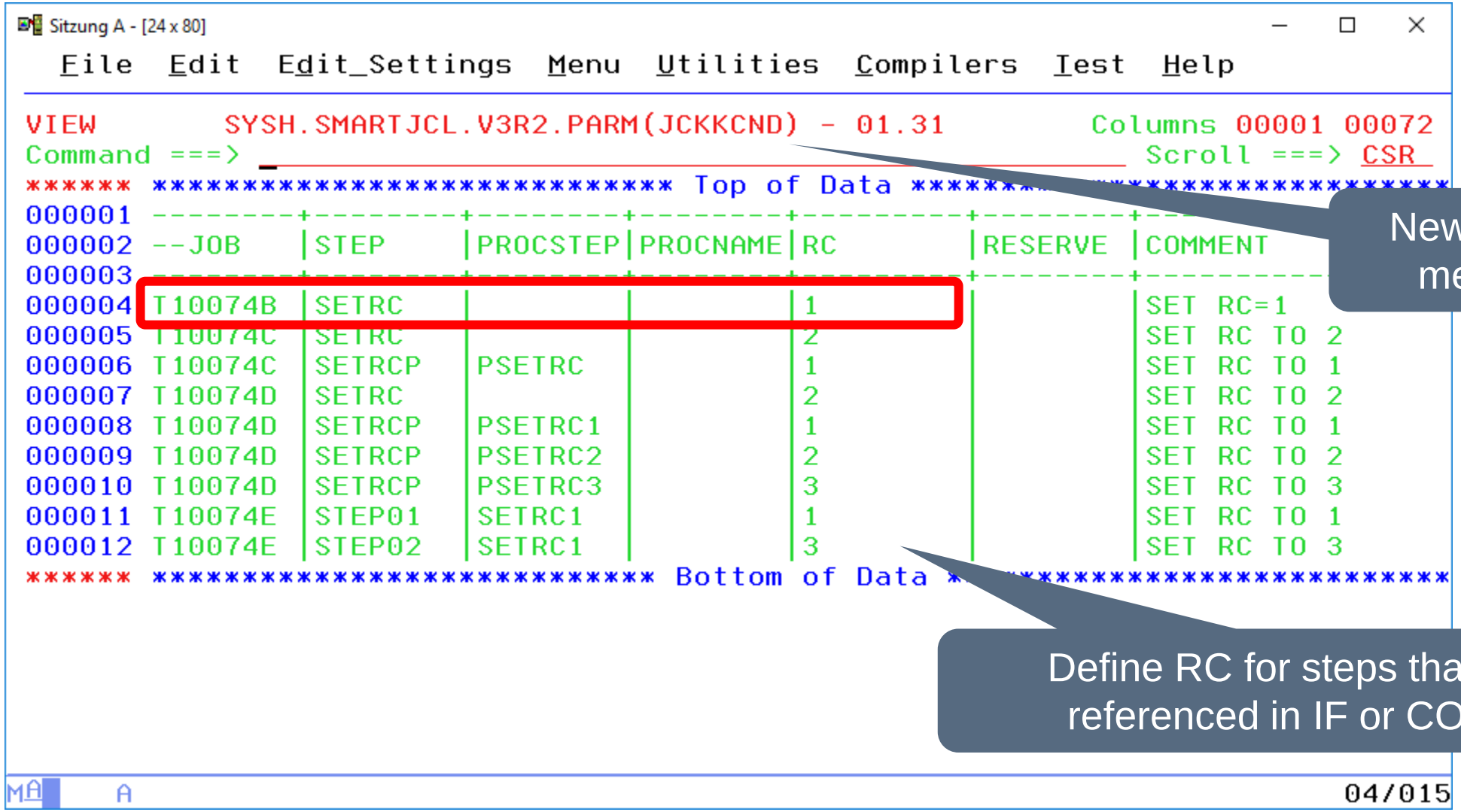
HORIZONT Classification: Restricted

SmartJCL 3.2 – Cond. Steps



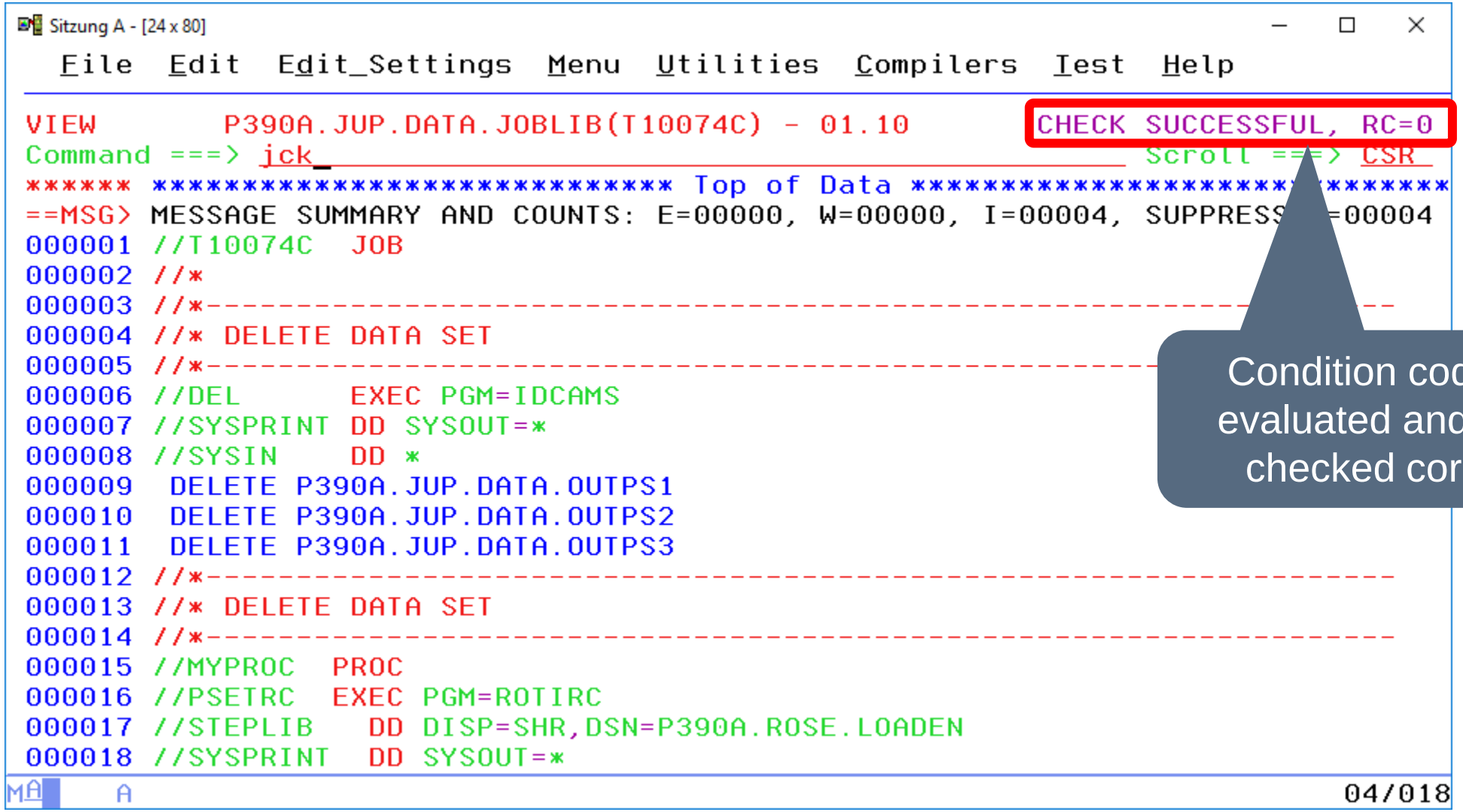
Classification: Restricted

SmartJCL 3.2 – Cond. Steps



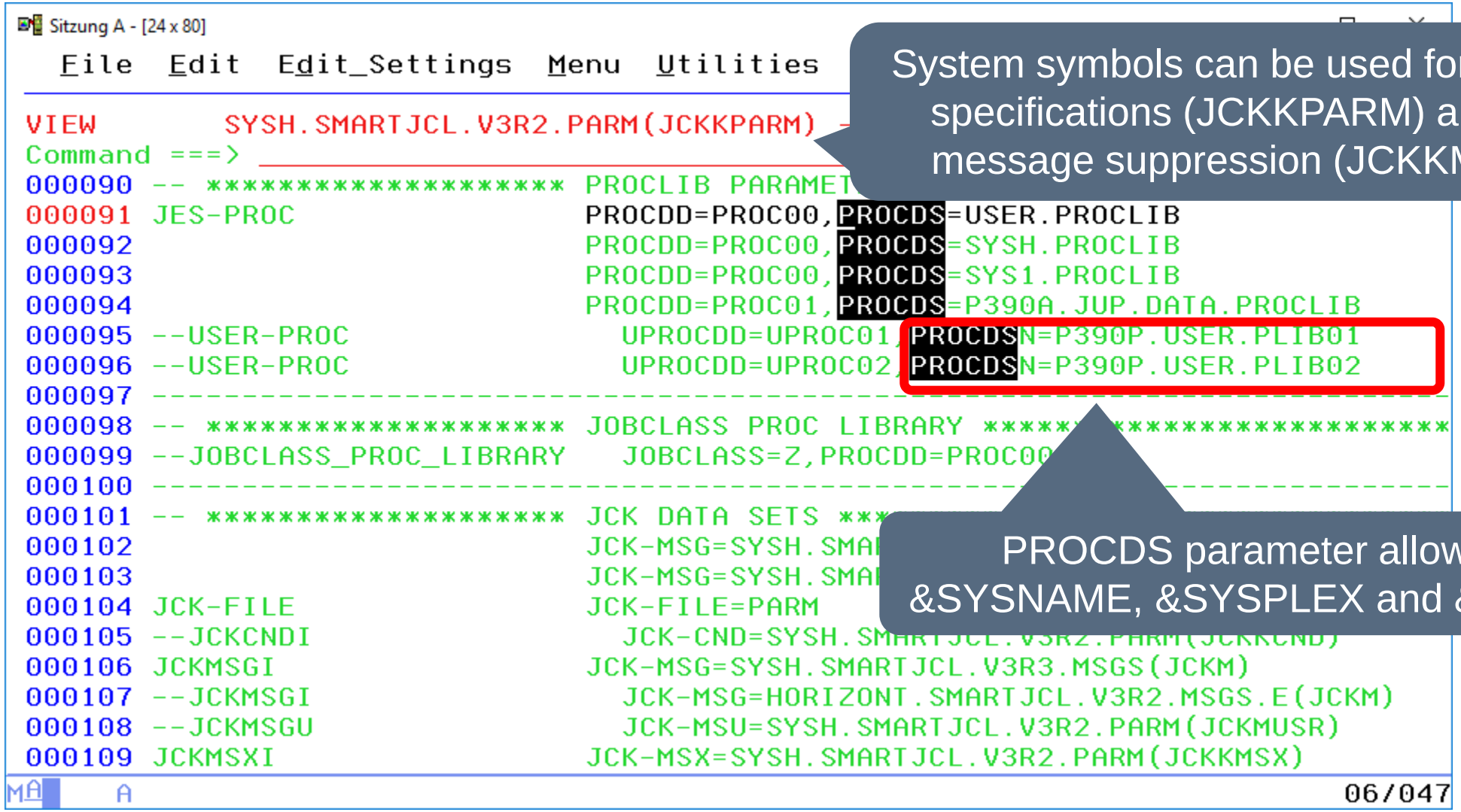
HORIZONT Classification: Restricted

SmartJCL 3.2 – Cond. Steps



HORIZONT Classification: Restricted

SmartJCL 3.2 – System Symbols

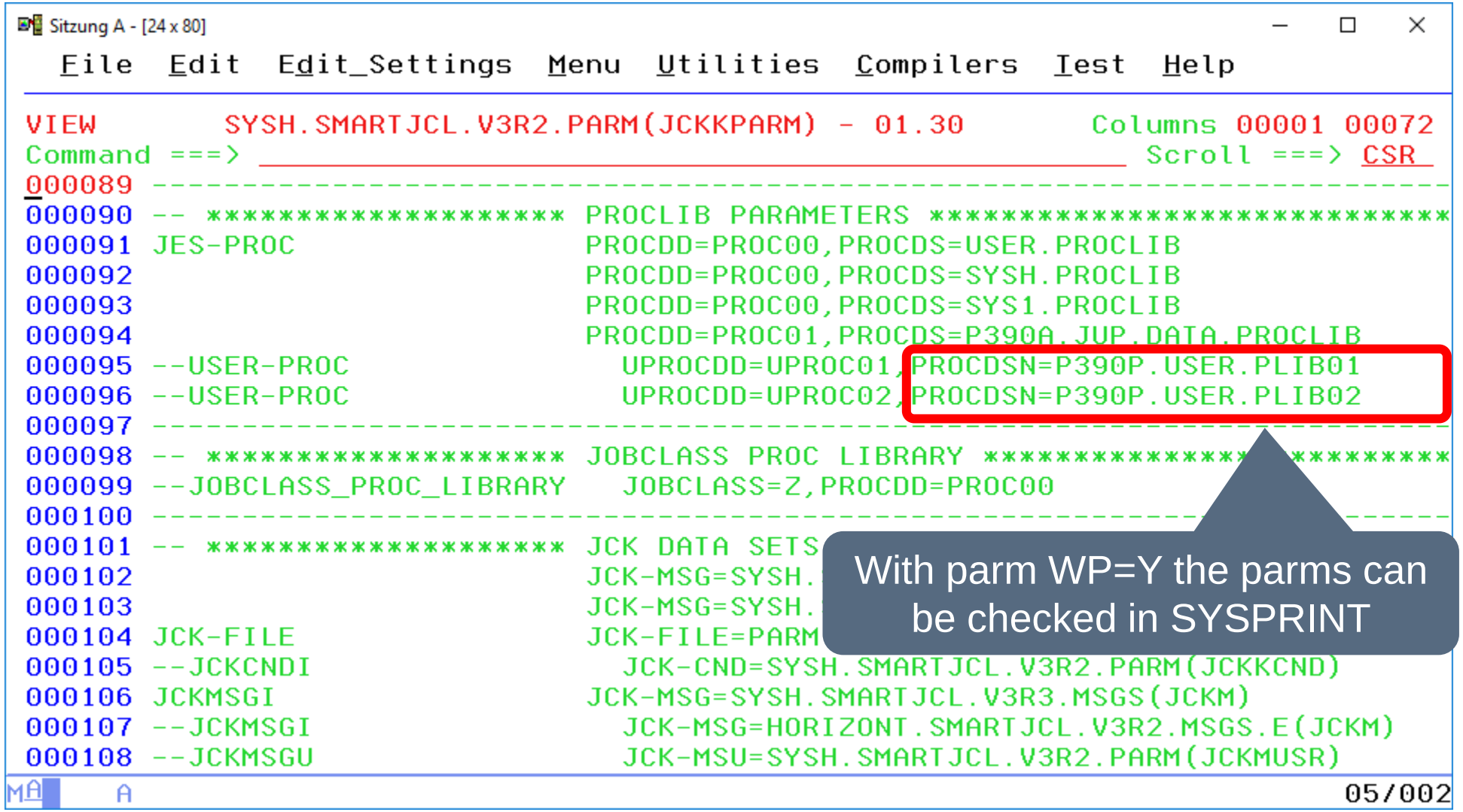


System symbols can be used for proclib specifications (JCKKPARM) and for message suppression (JCKKMSX).

PROCDS parameter allows &SYSNAME, &SYSPLEX and &LPAR

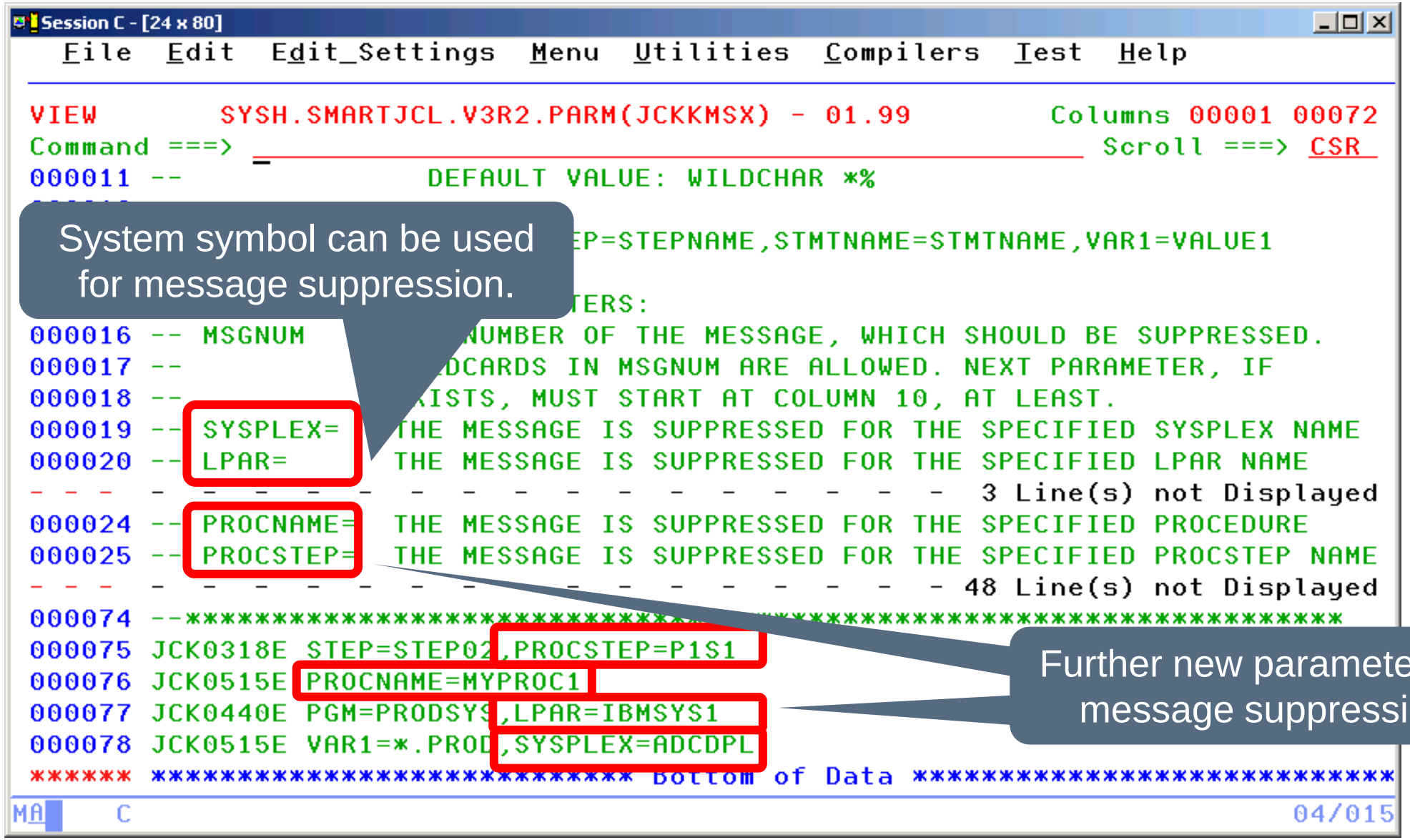
Classification: Restricted

SmartJCL 3.2 – System Symbols



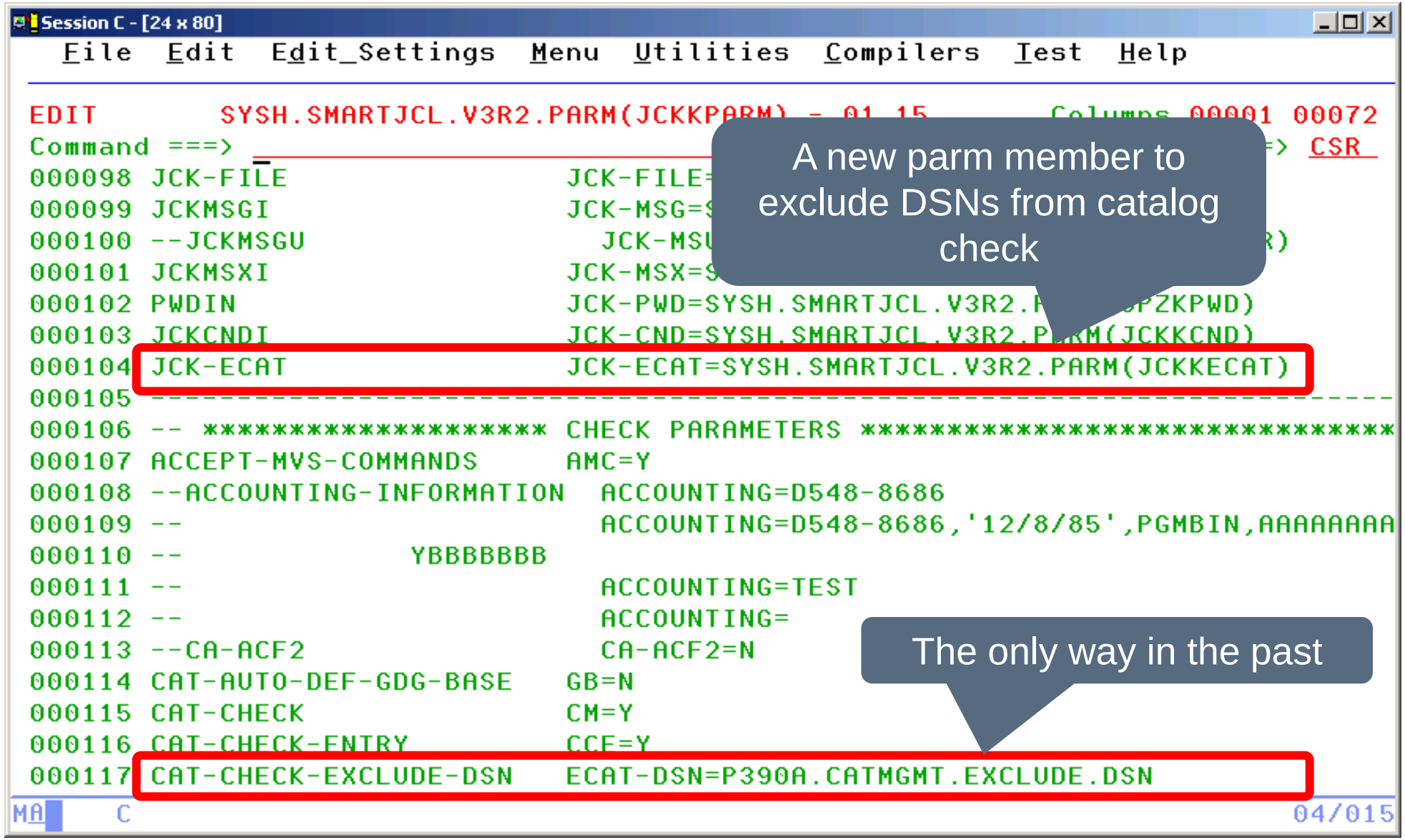
HORIZONT Classification: Restricted

SmartJCL 3.2 – System Symbols



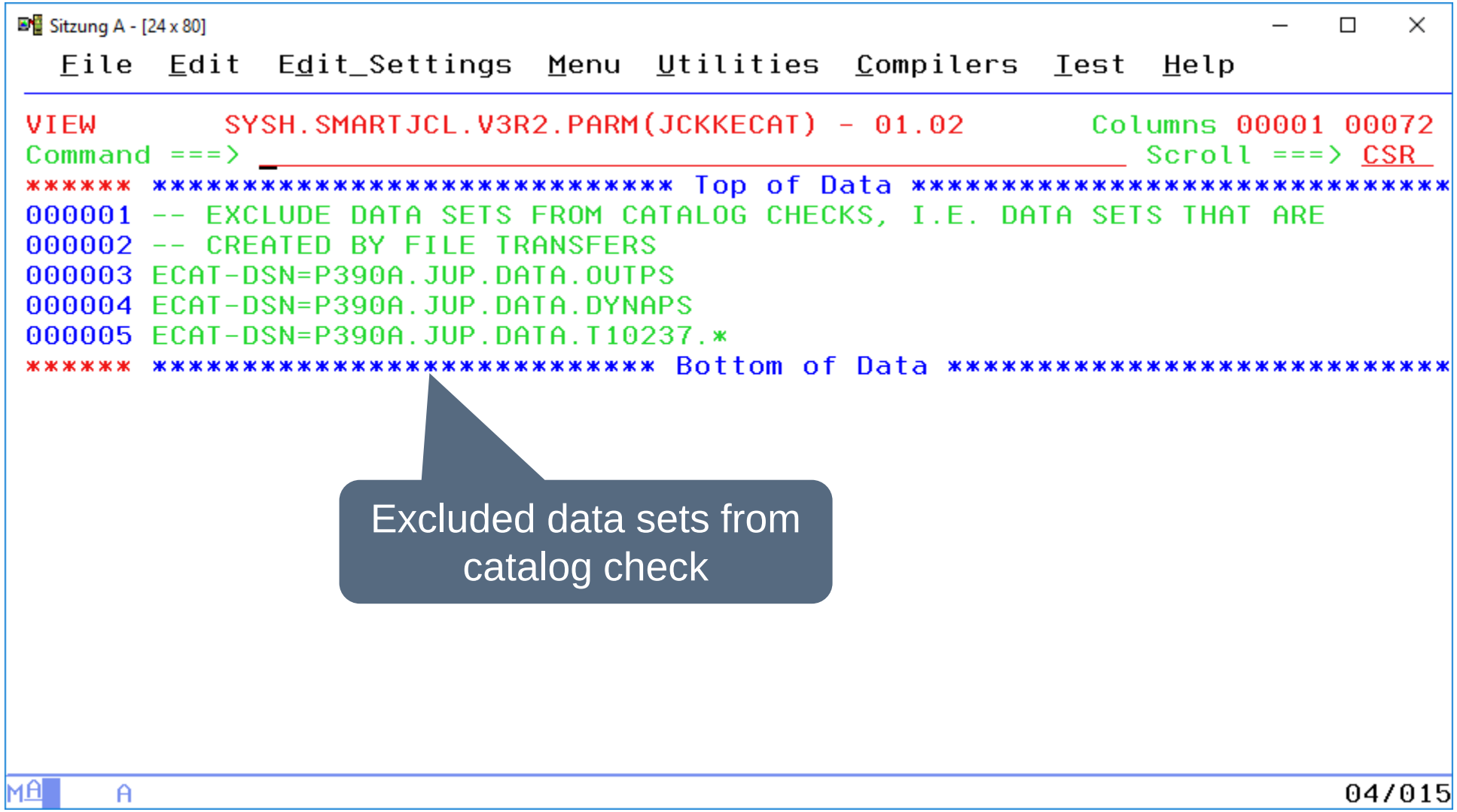
HORIZONT Classification: Restricted

SmartJCL 3.2 – JCK-ECAT



Classification: Restricted

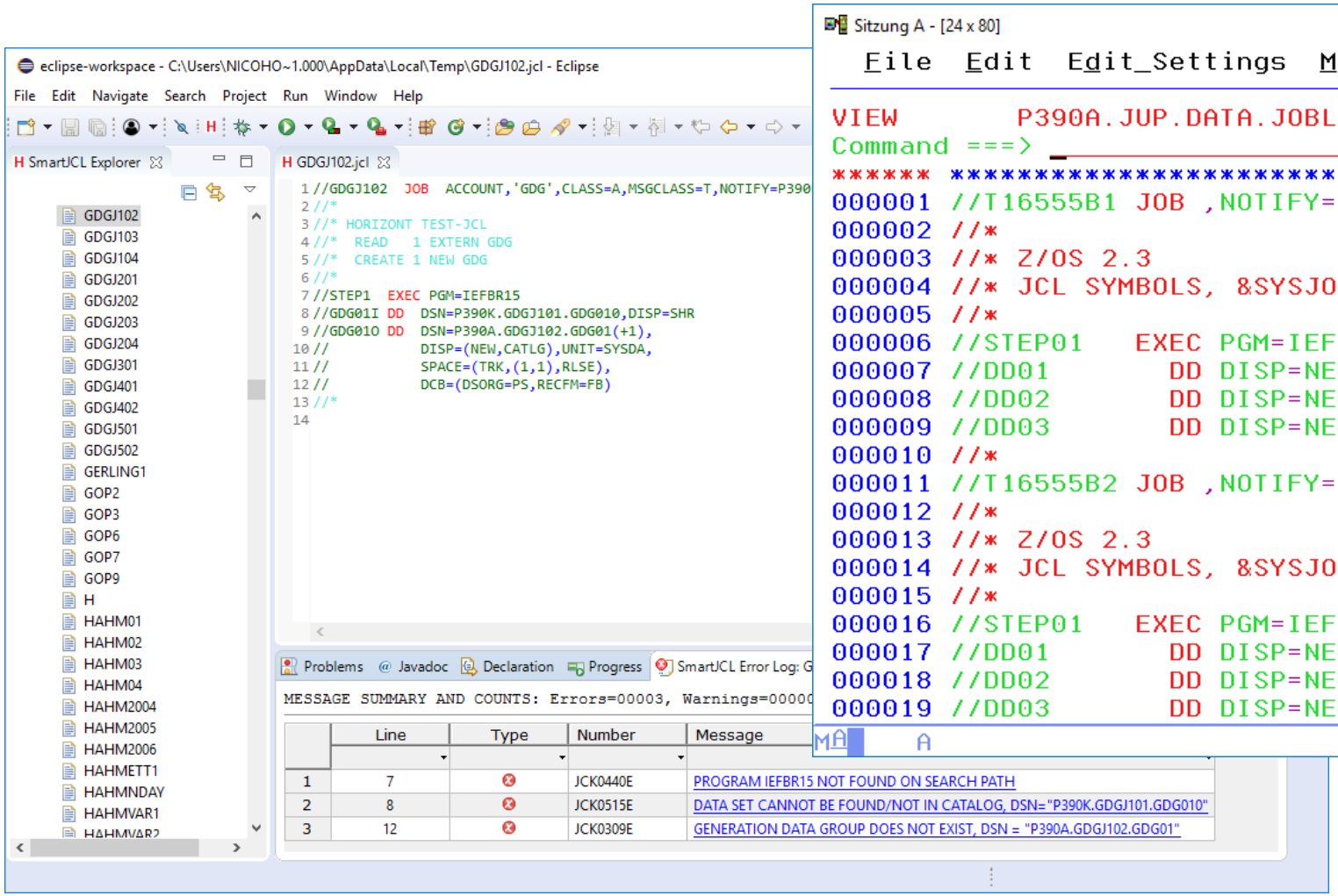
SmartJCL 3.2 – JCK-ECAT

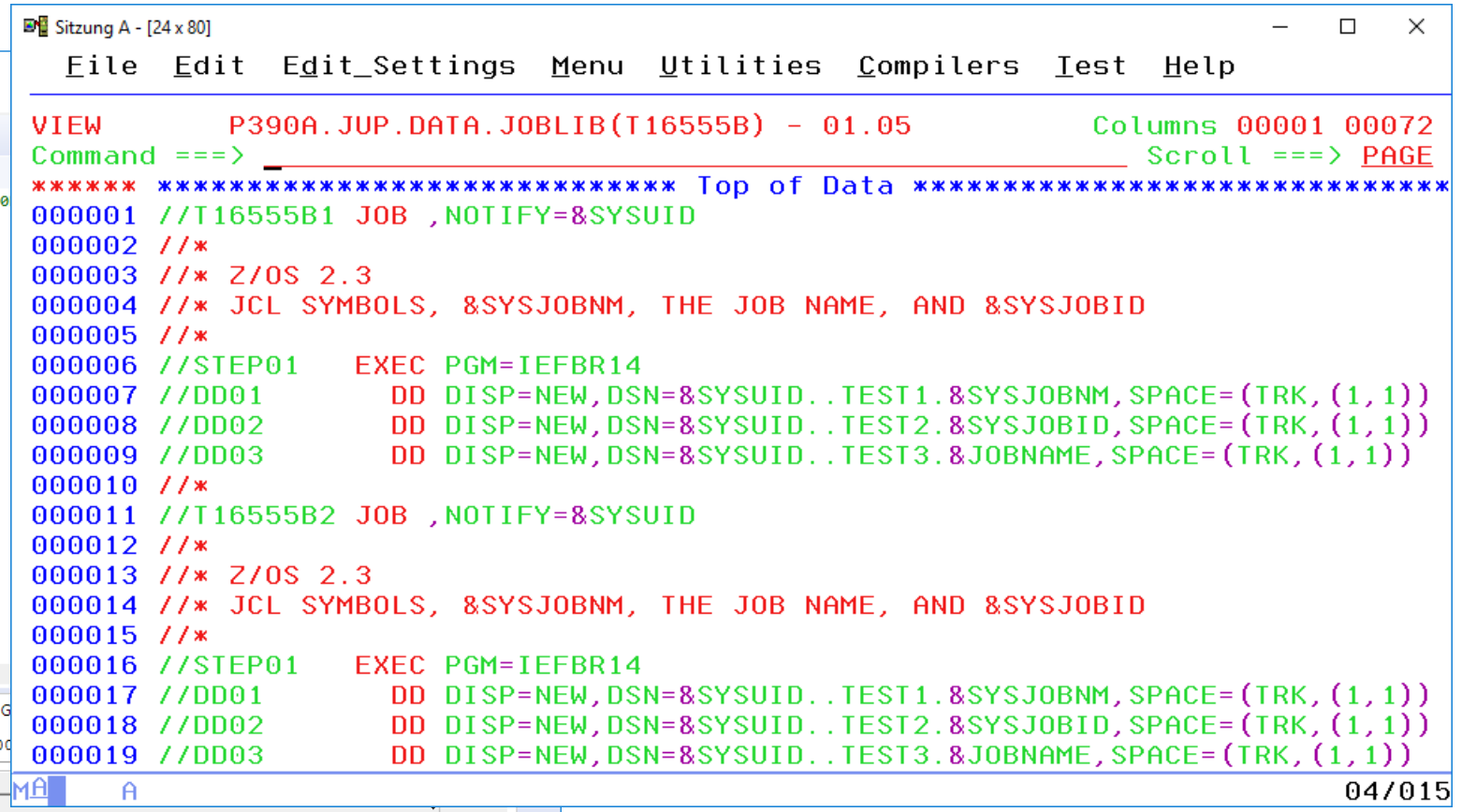


HORIZONT Classification: Restricted

Any questions about SmartJCL 3.2 ?

Contact: info@horizont-it.com





Classification: Restricted

SmartJCL 3.1

SmartJCL V3R1 will be available in September 2011. It will have following new functions:

- Many new parameters and options for JCL Check and Reformat
  - Get DB2 subsystem from system control blocks
  - Reformat only selected or changed JCL statements
  - Control setting ISPF member statistics in output file JCKJCLO
  - Check TSO program call

HORIZONT Classification: Restricted

SmartJCL 3.1

- Support for z/OS 1.12 SORT enhancements
  - JOINKEYS Application
  - Date Field Conversions
  - MERGE Operator
  - MERGEIN Alternate ddnames
  - …
- Support for TWS 8.6

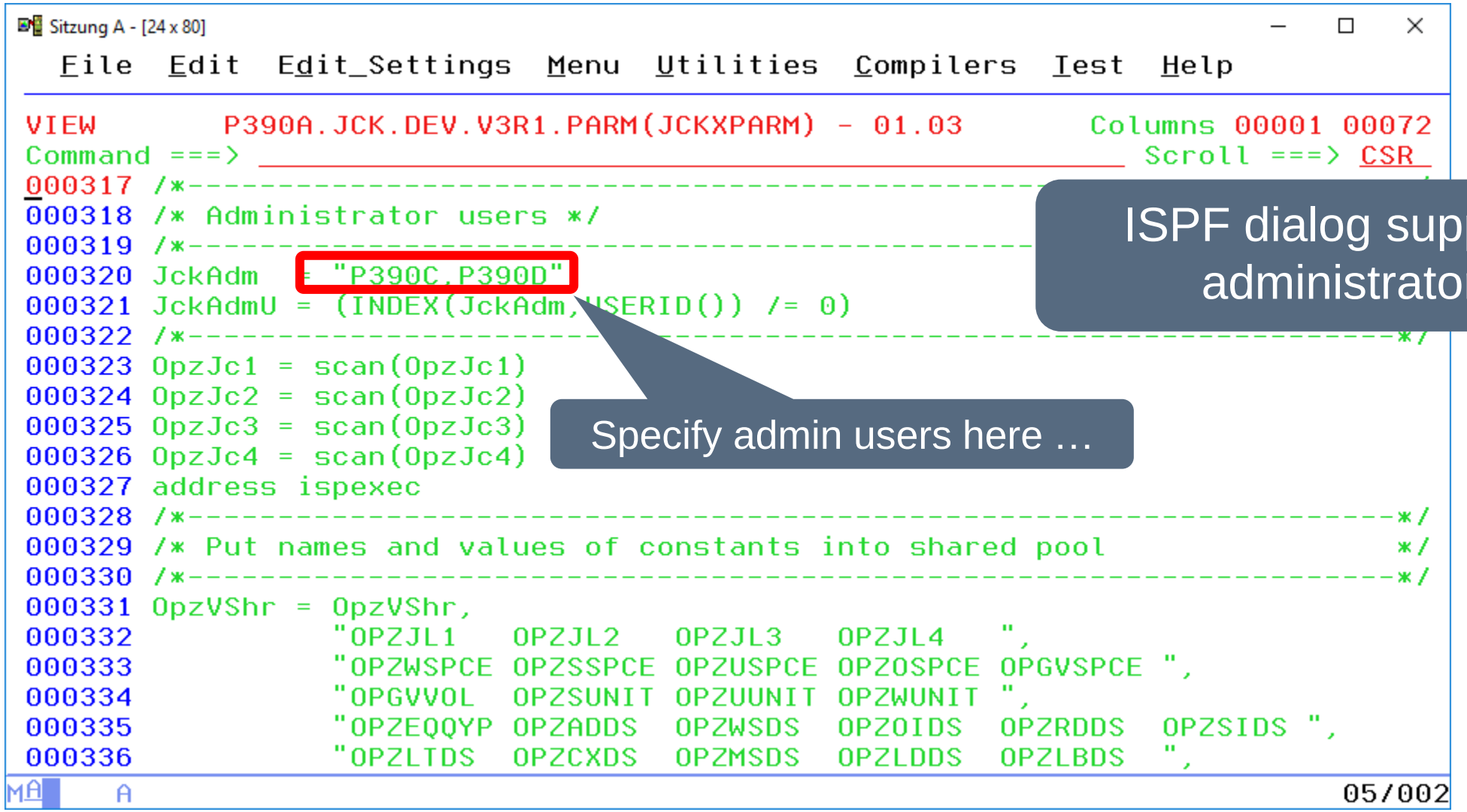
HORIZONT
Classification: Restricted

SmartJCL 3.1

- ISPF dialog supports administrators
  - Admins are defined during installation or in JCKXPARM
  - Admins have additional configuration options
  - Users can only “use” SmartJCL

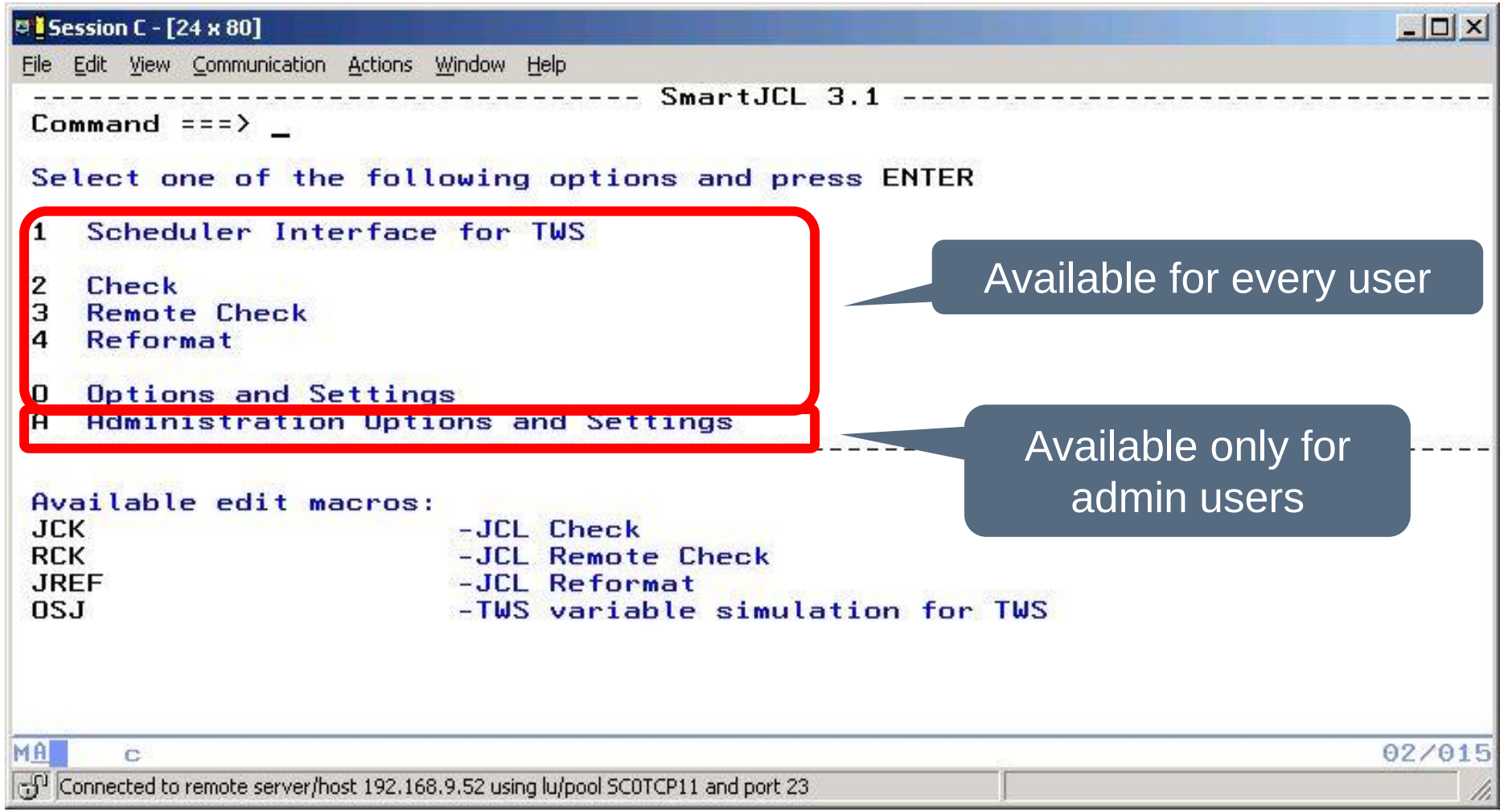
HORIZONT
Classification: Restricted

SmartJCL 3.1



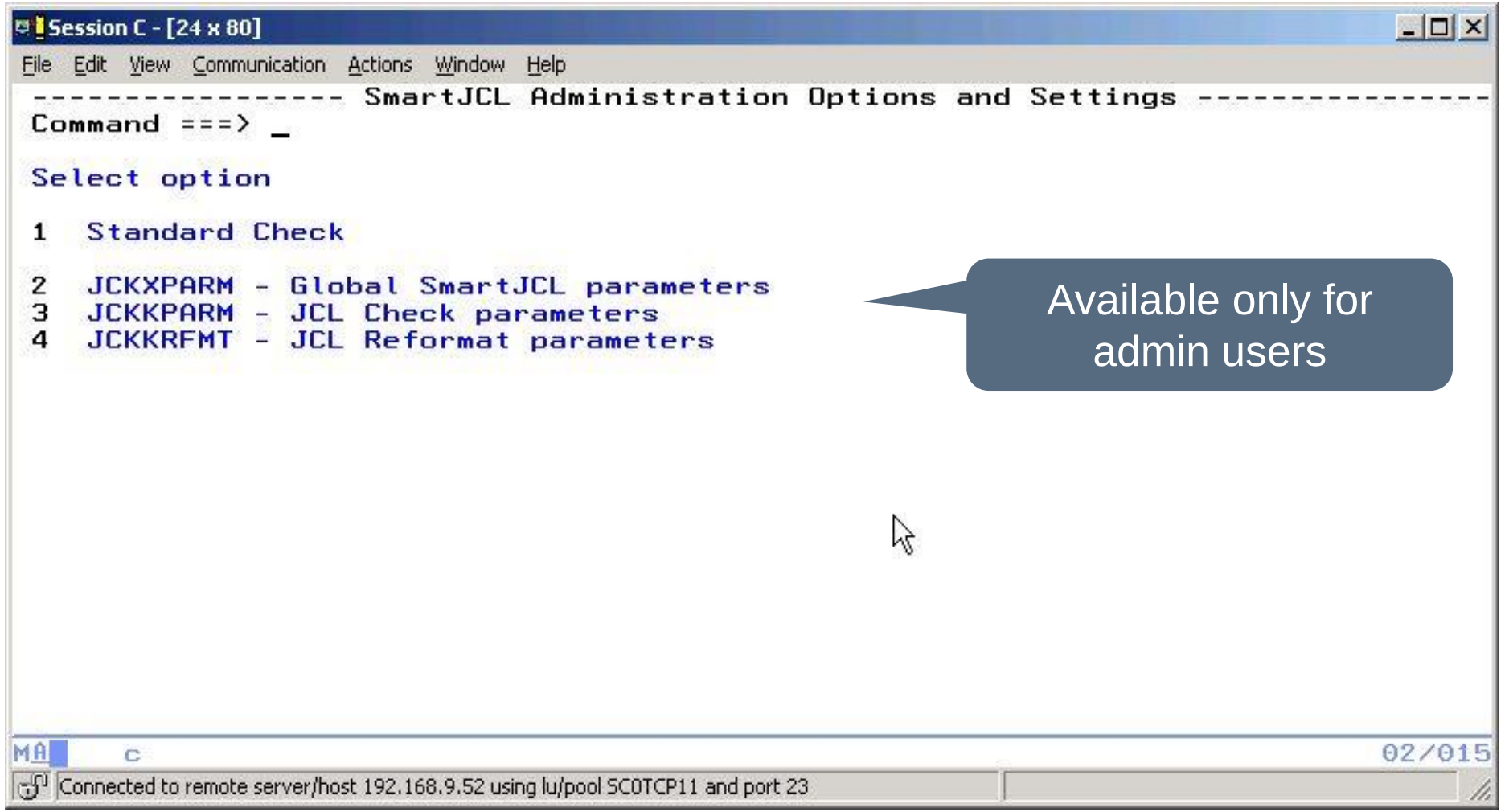
Classification: Restricted

SmartJCL 3.1



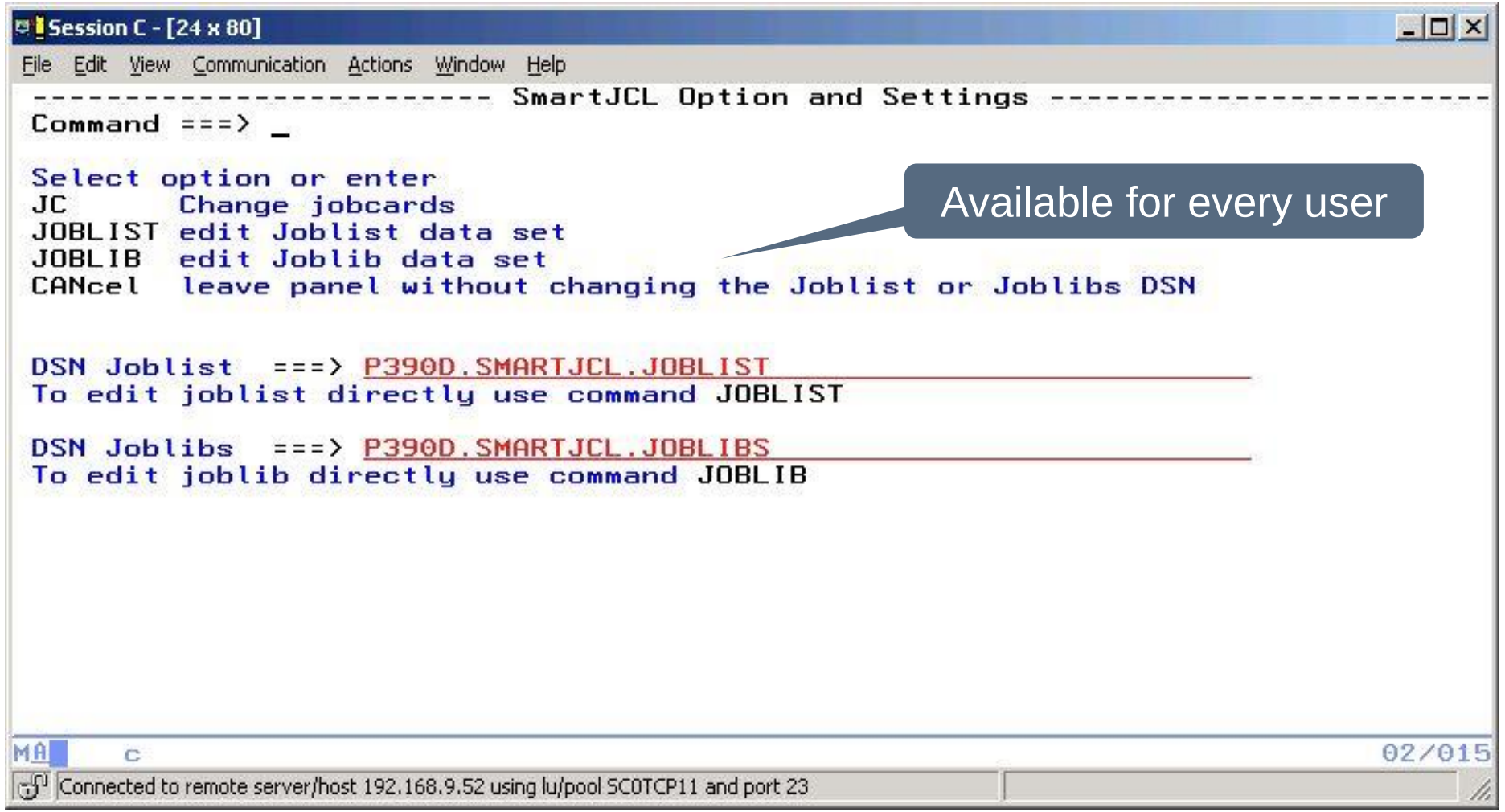
HORIZONT Classification: Restricted

SmartJCL 3.1



HORIZONT Classification: Restricted

SmartJCL 3.1



HORIZONT
Classification: Restricted

SmartJCL 3.1

- New SRI function “SriCatEntry” for catalog access and informations
  - Returns
    - Entry name (=DSN)
    - Catalog name
    - Entey type
    - Volser
  - Easier than LISTCAT and scanning output

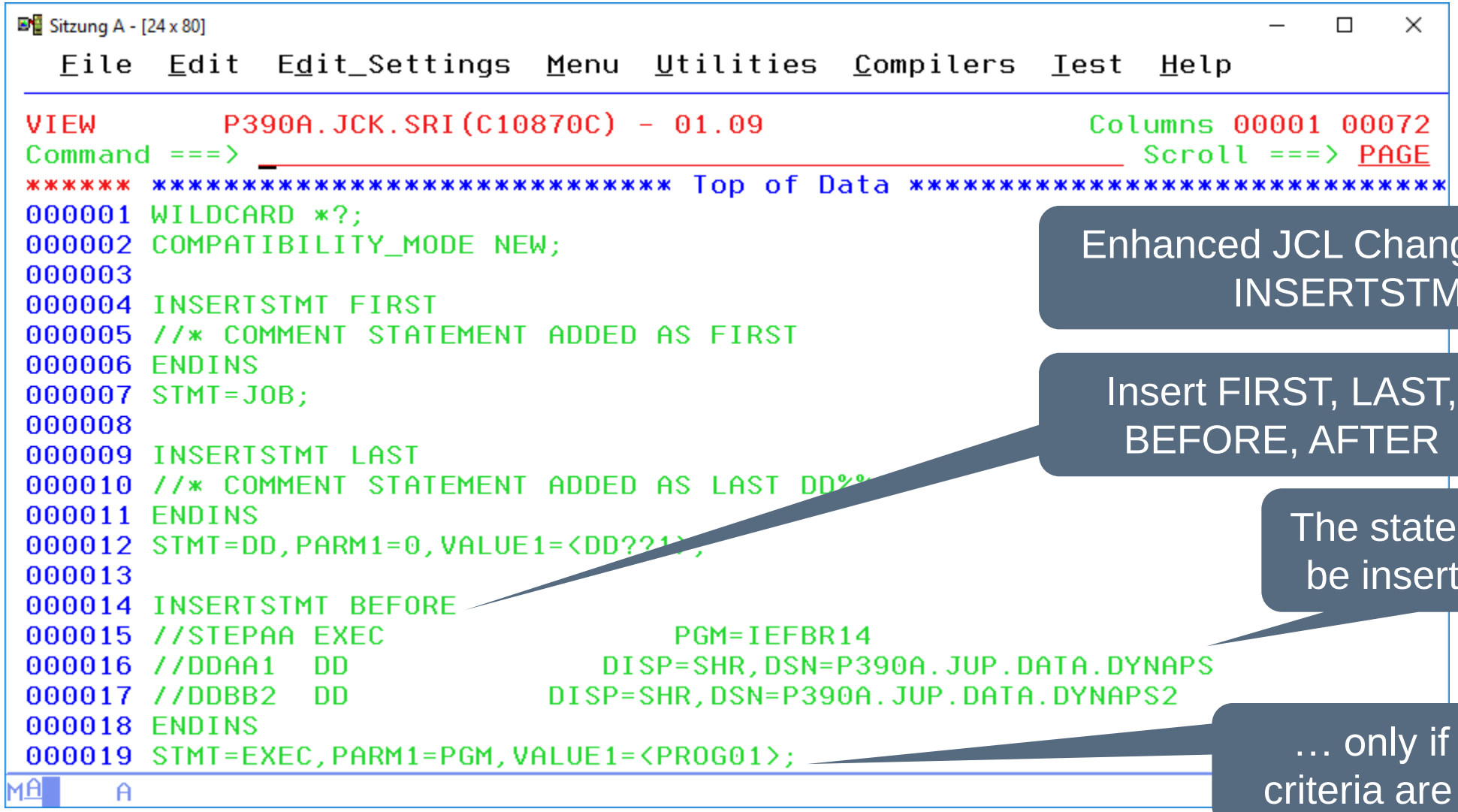
HORIZONT
Classification: Restricted

SmartJCL 3.1

- Enhanced JCL Change Facility
  - New commands DELSTMT, DELSTEP, INSERTSTMT, INSERTSTMT BEFORE FIRST (i.e. before first EXEC)
  - DO/ENDDO block to summarize more actions for one condition
  - RANGE (Column 1-72)

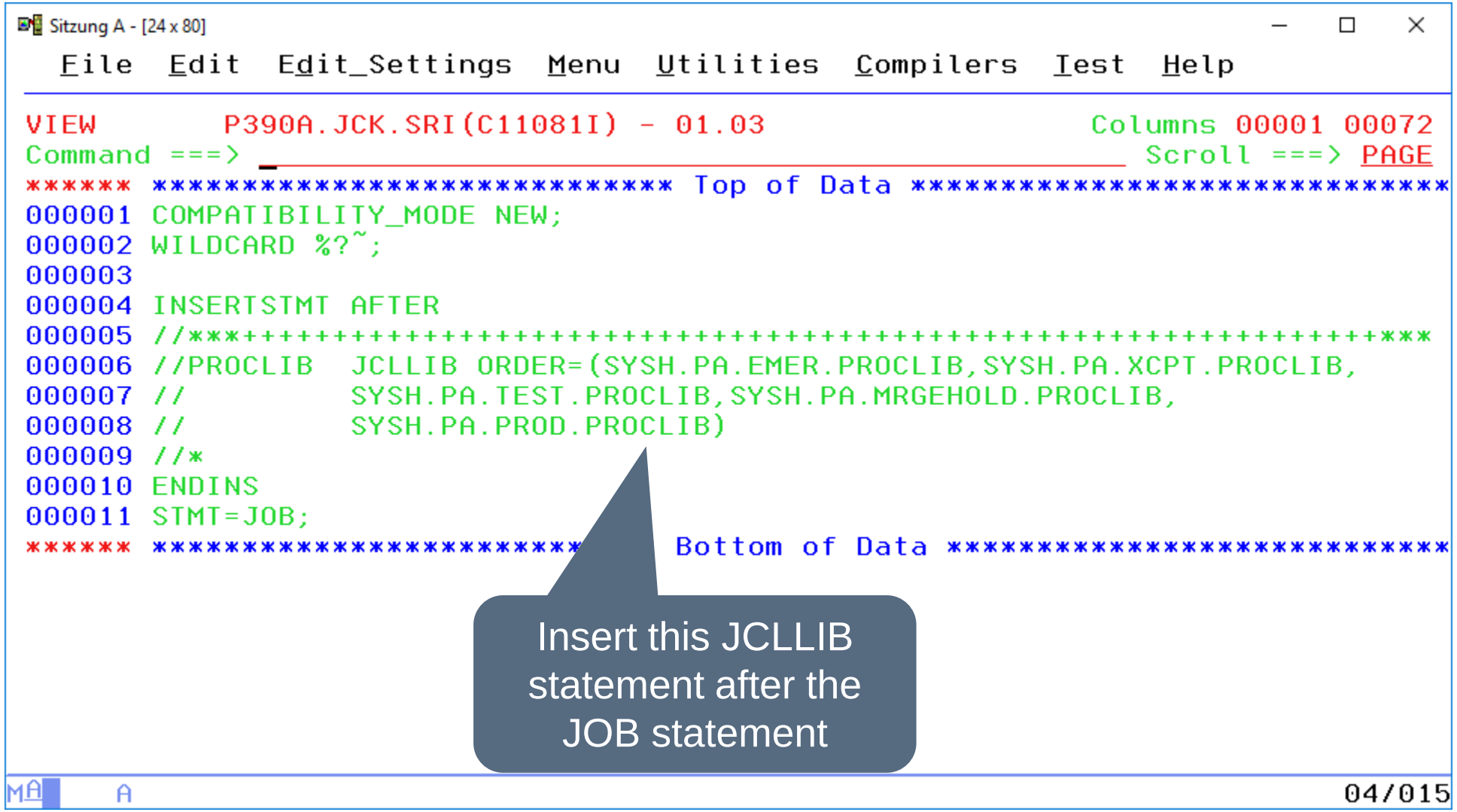
HORIZONT
Classification: Restricted

SmartJCL 3.1



HORIZONT Classification: Restricted

SmartJCL 3.1

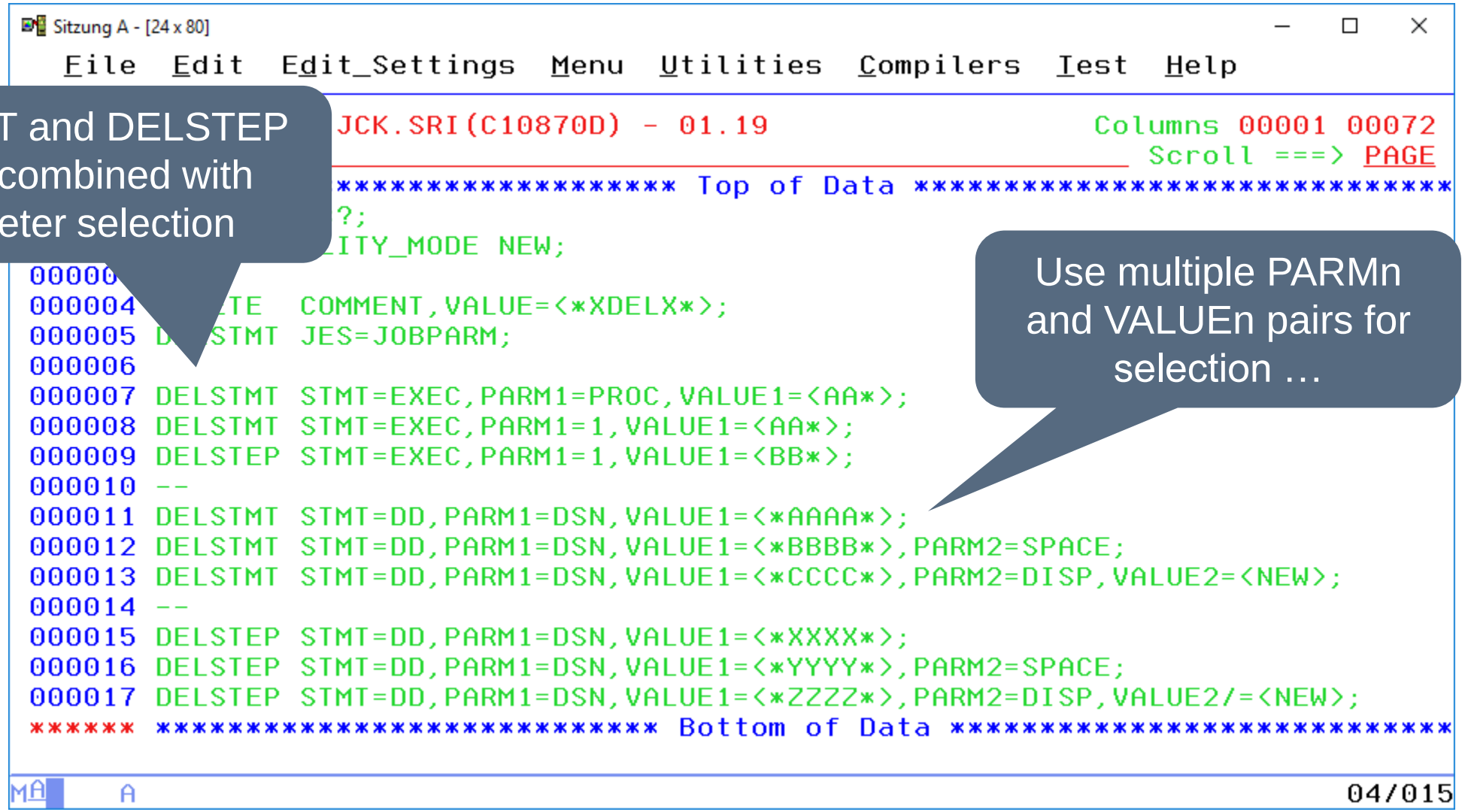


HORIZONT Classification: Restricted

SmartJCL 3.1

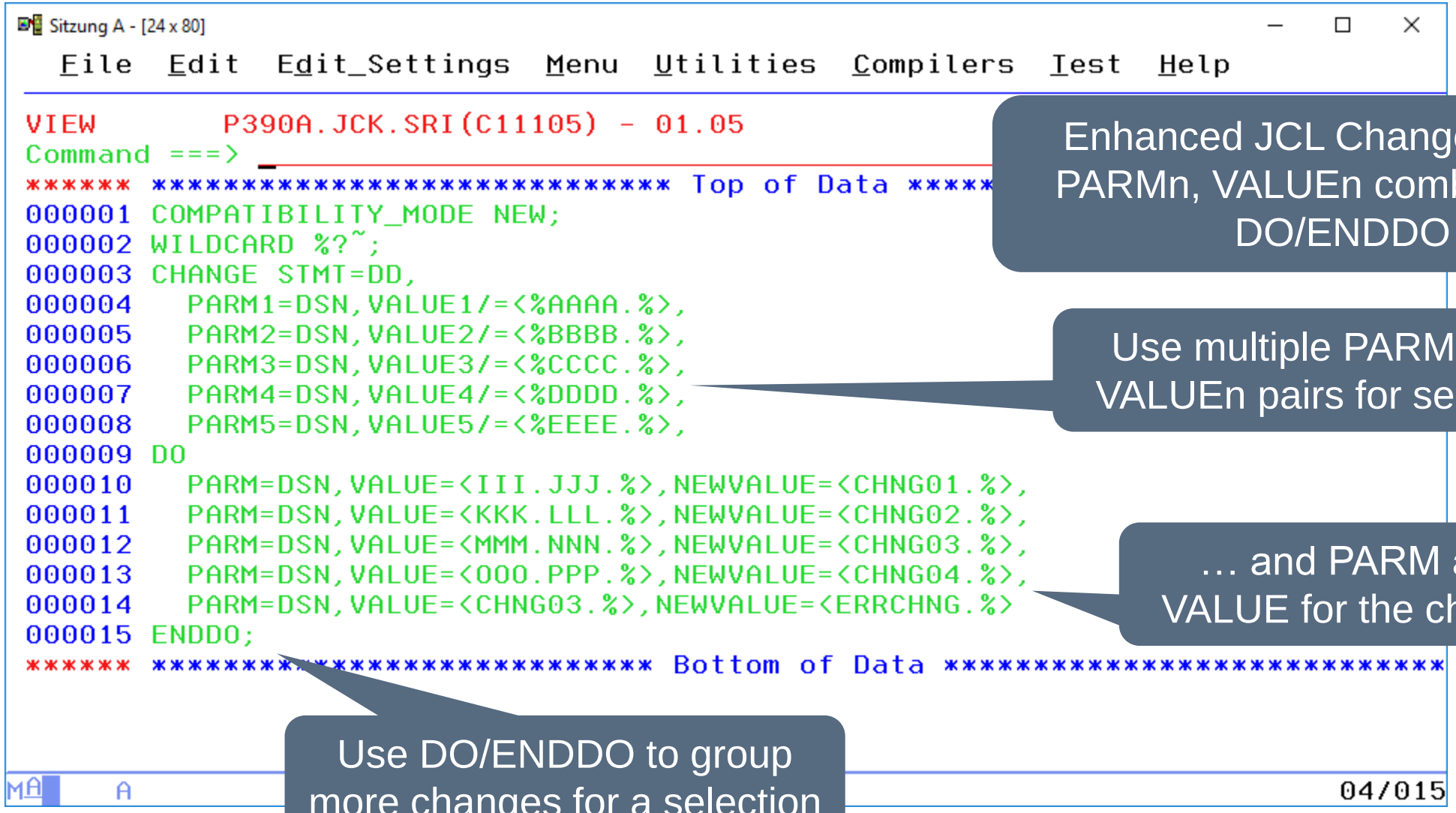
DELSTMT and DELSTEP can be combined with parameter selection

Use multiple PARMn and VALUEn pairs for selection …



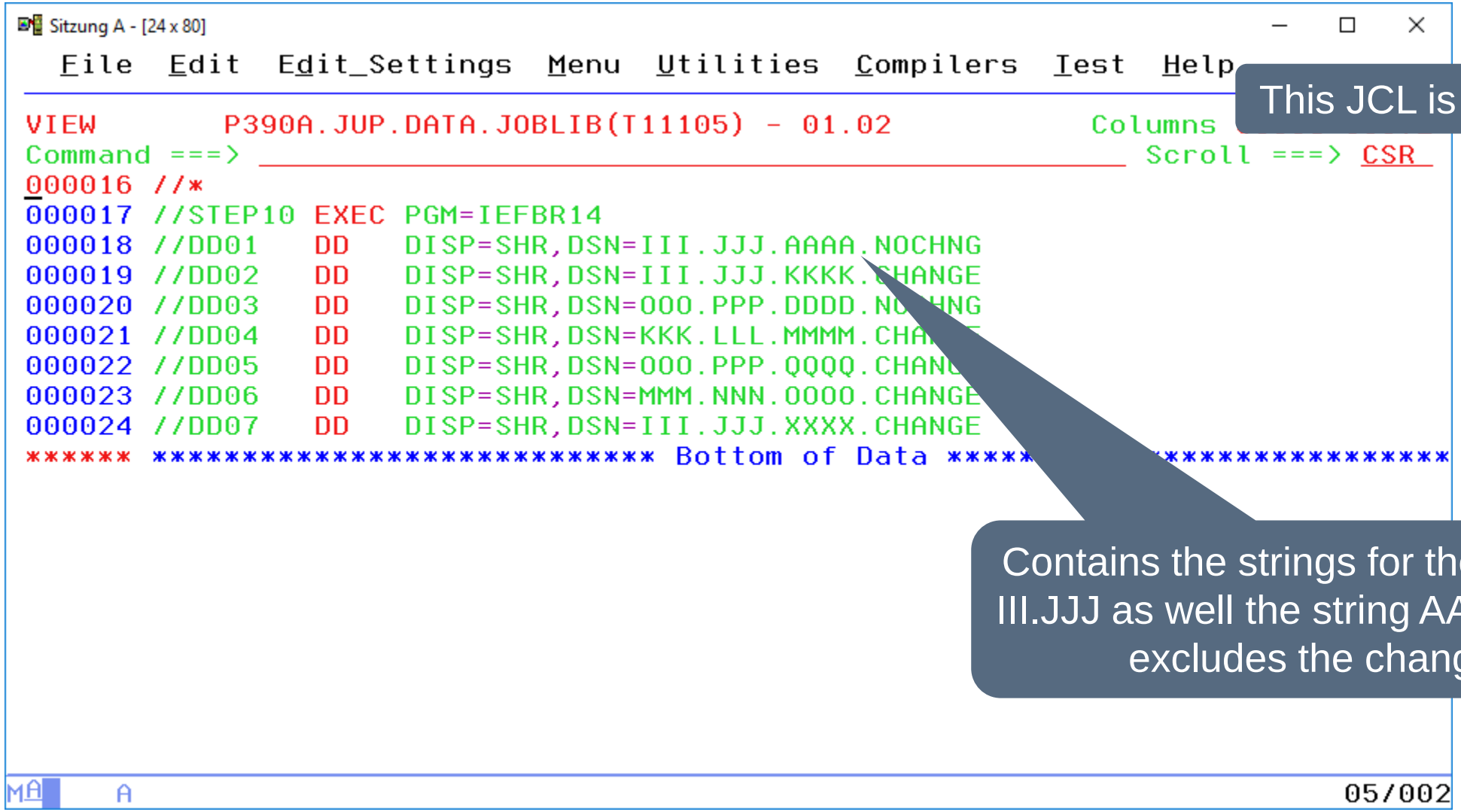
Classification: Restricted

SmartJCL 3.1



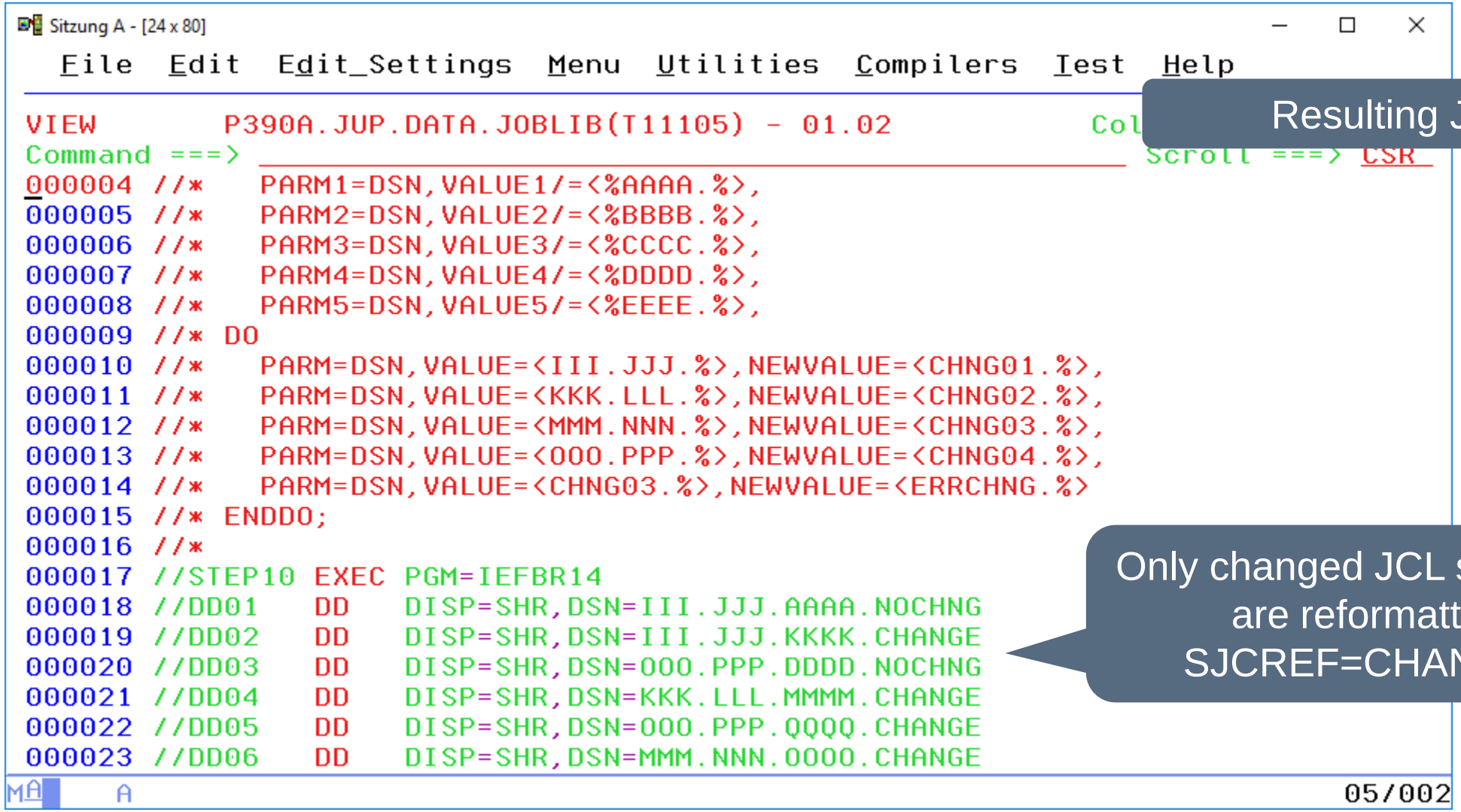
HORIZONT Classification: Restricted

SmartJCL 3.1



HORIZONT Classification: Restricted

SmartJCL 3.1



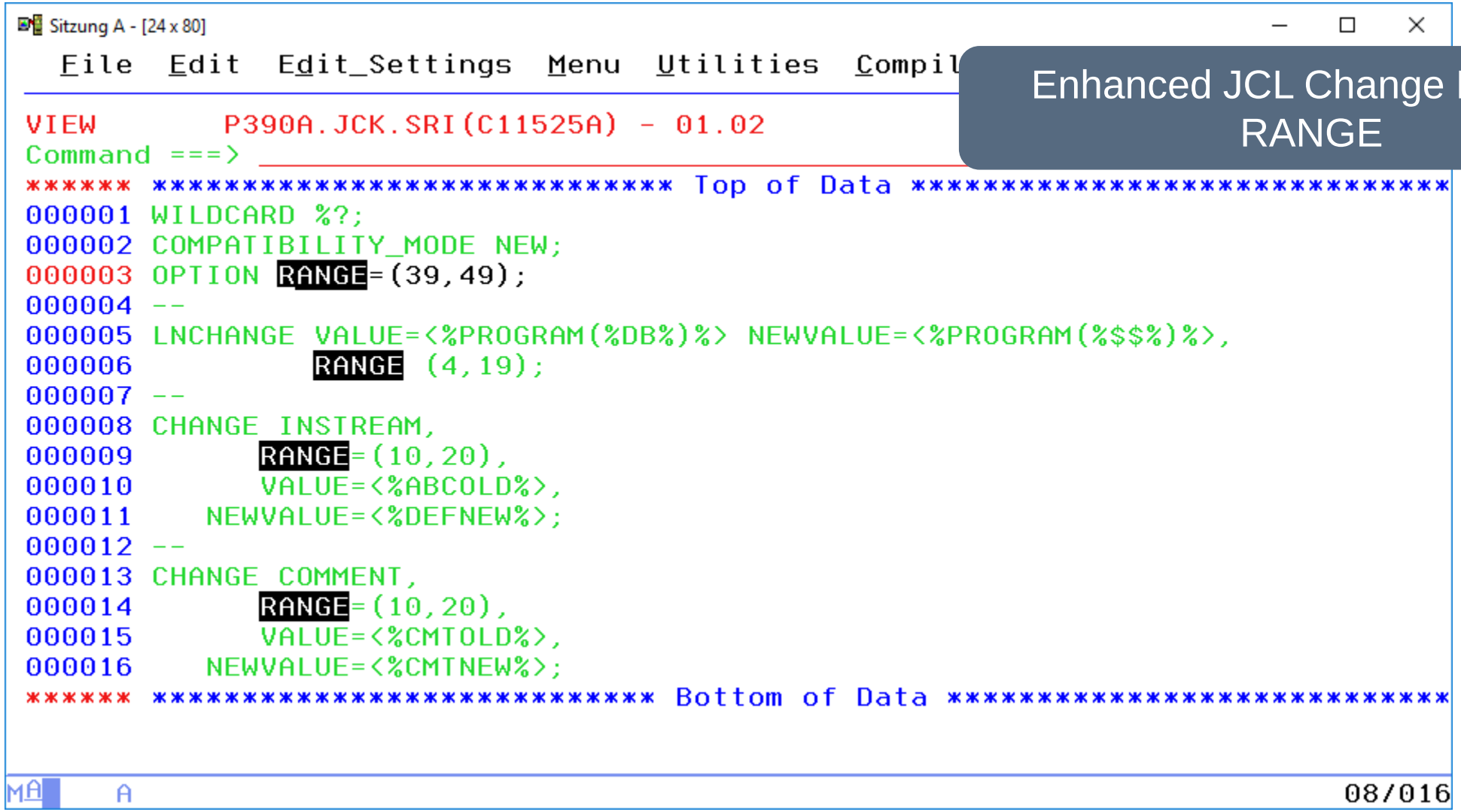
Resulting JCL:

Only changed JCL statement are reformatted:
SJCREF=CHANGED

HORIZONT Classification: Restricted

SmartJCL 3.1

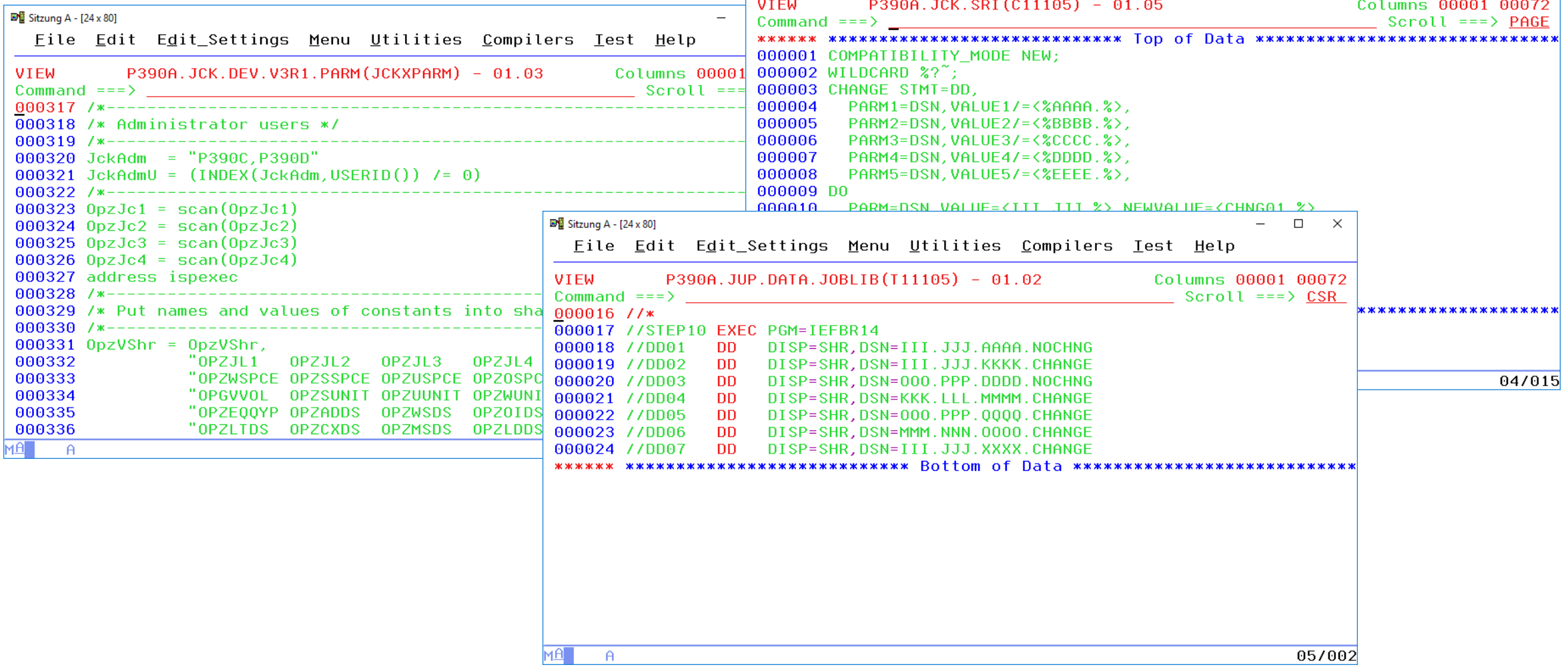
Enhanced JCL Change Facility: RANGE



HORIZONT Classification: Restricted

Any questions about SmartJCL 3.1 ?

Contact: info@horizont-it.com



HORIZONT Classification: Restricted

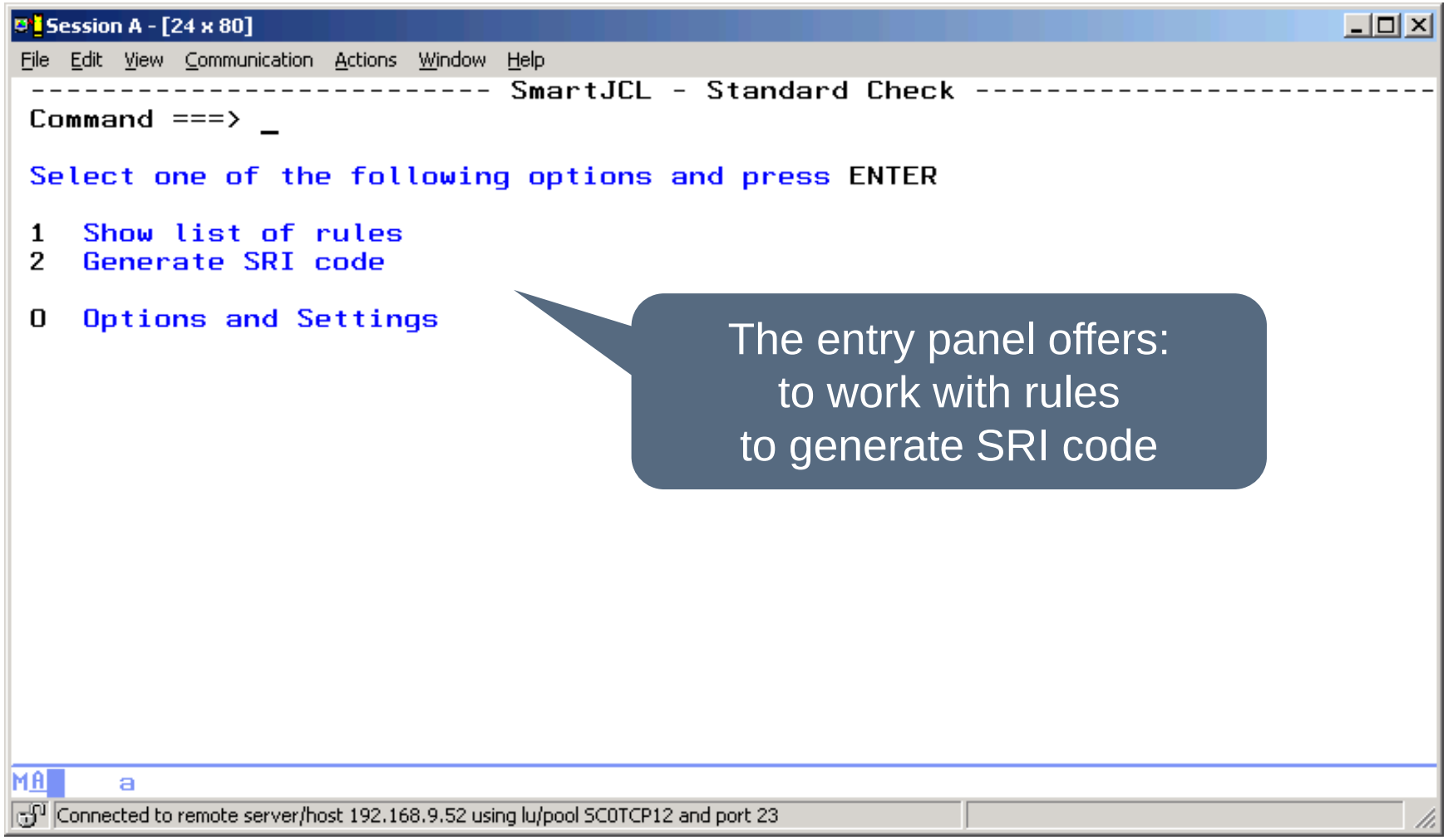
SmartJCL 3.0

SmartJCL V3R0 is available since September 2009. It will have following major new functions:

- ISPF Dialog to specify rules according to customer specific standards
  - Every site has individual rules, e.g. „UNI must be SYSDA in SORT step“
  - Up to now checks required usage of SmartJCL‘s REXX interface
  - SmartJCL will enable non-programmers to specify complex rules by using a simple ISPF dialog
  - See dialog on next slides

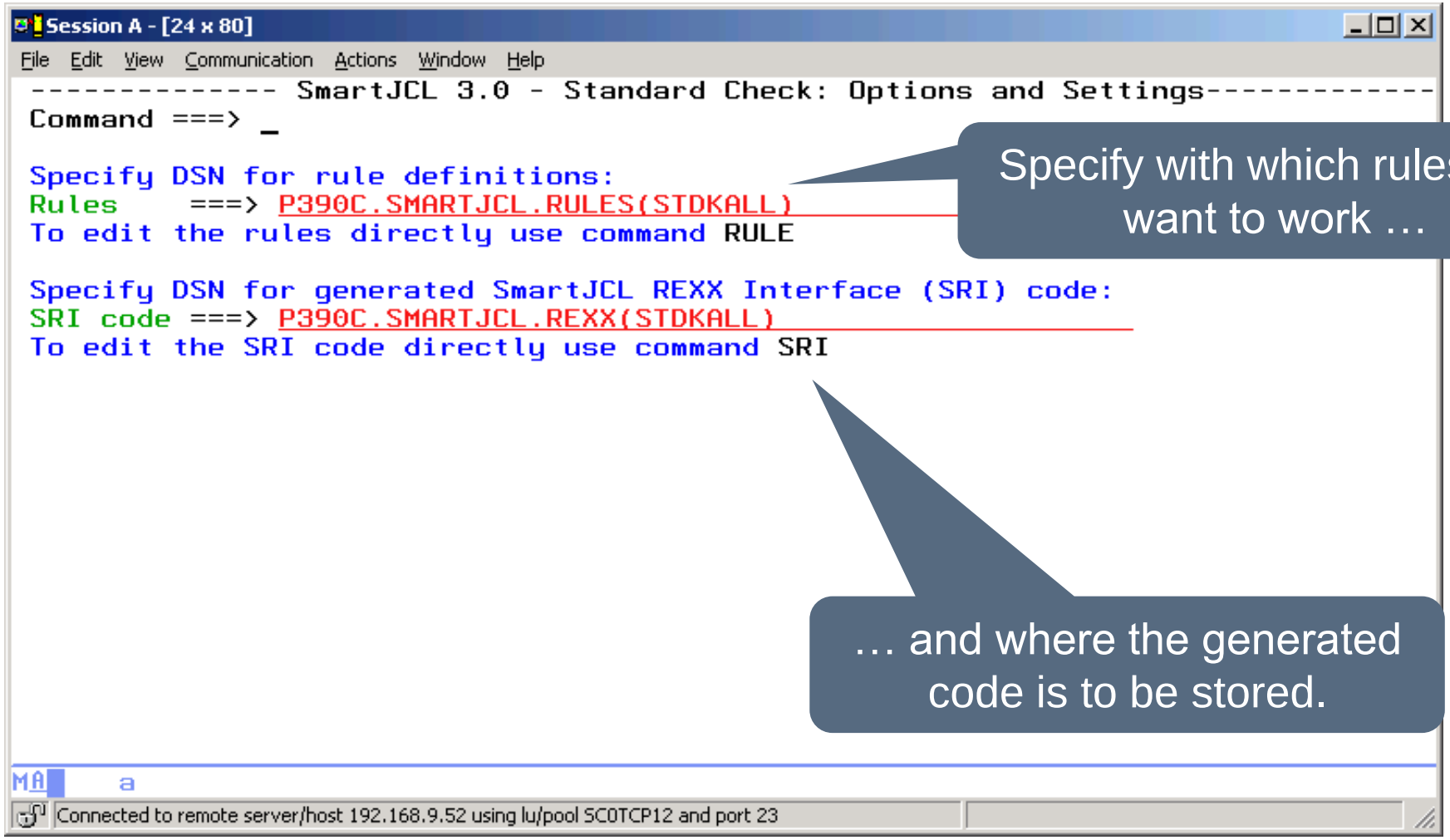
HORIZONT Classification: Restricted

Standard Check: Entry Panel



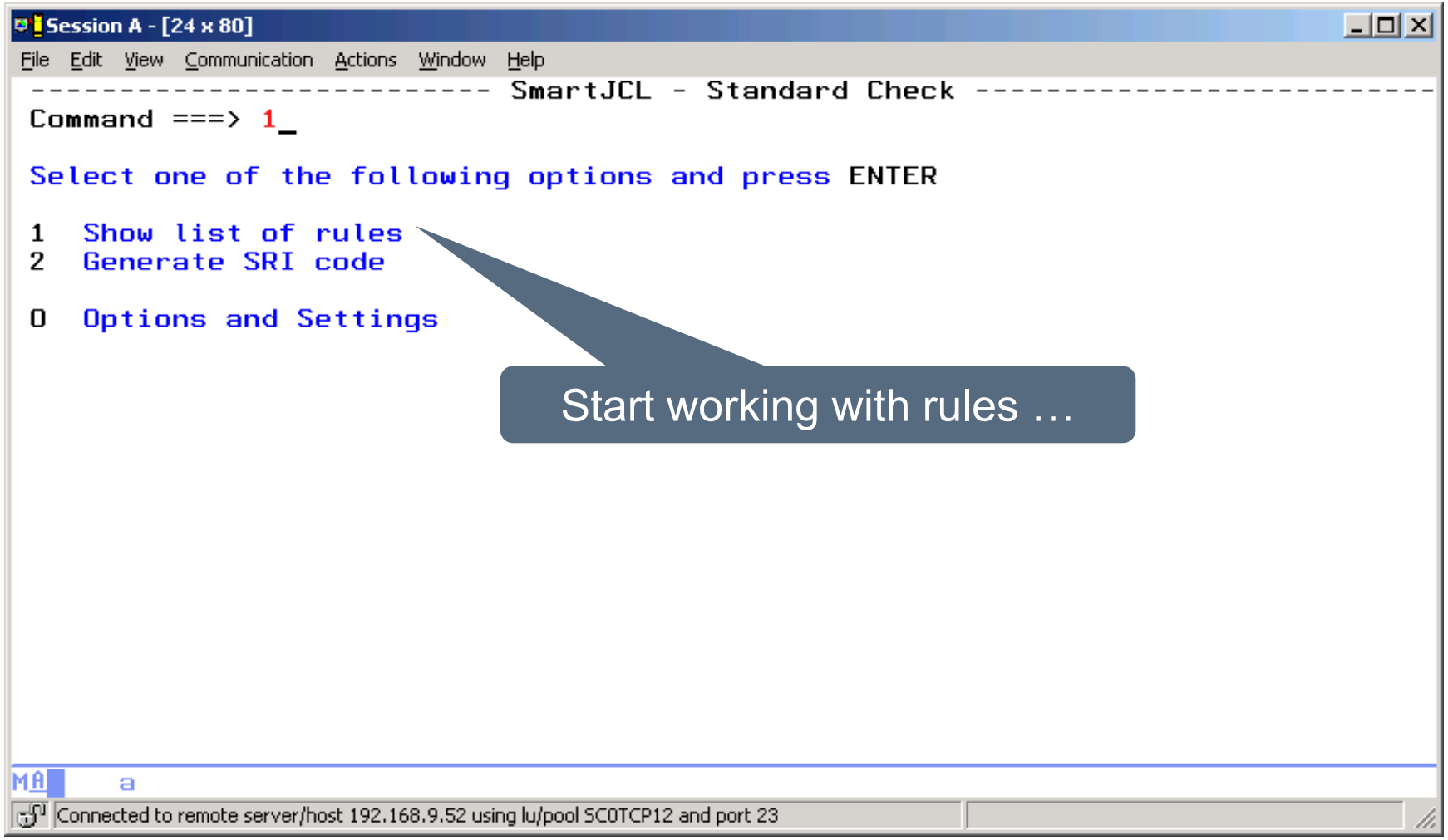
HORIZONT
Classification: Restricted

Standard Check: Options



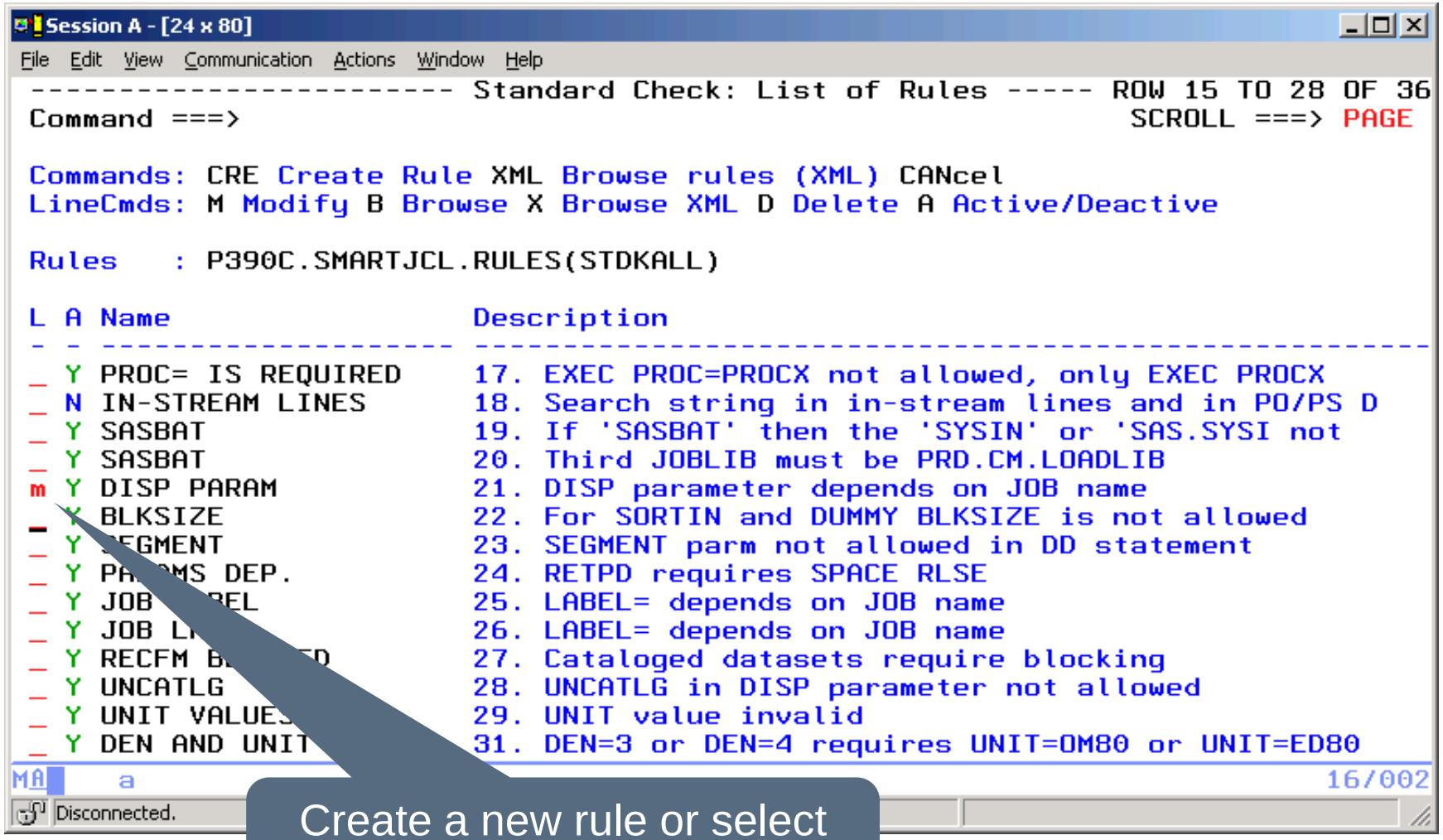
HORIZONT Classification: Restricted

Standard Check: Entry Panel



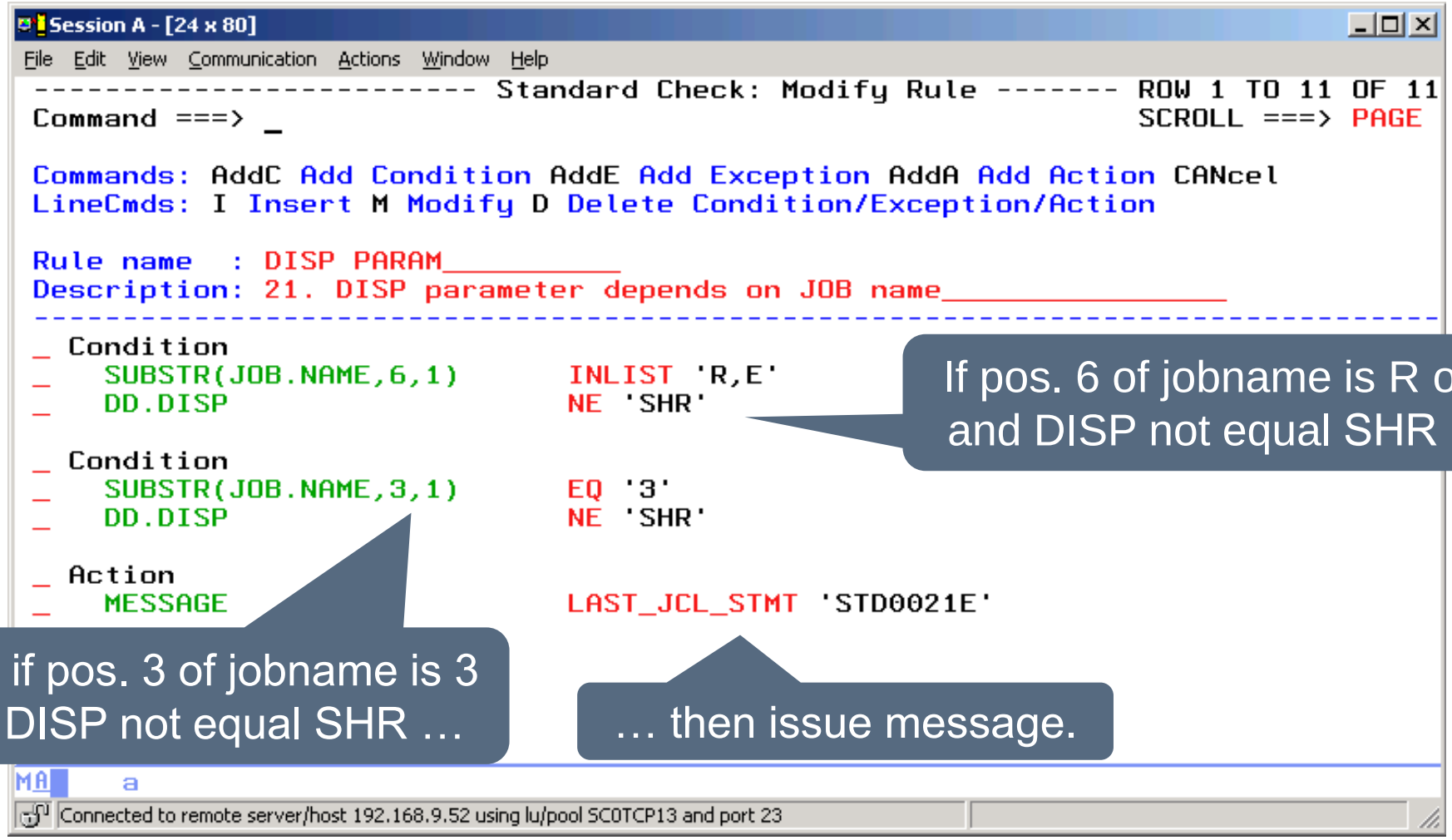
HORIZONT Classification: Restricted

List of Rules



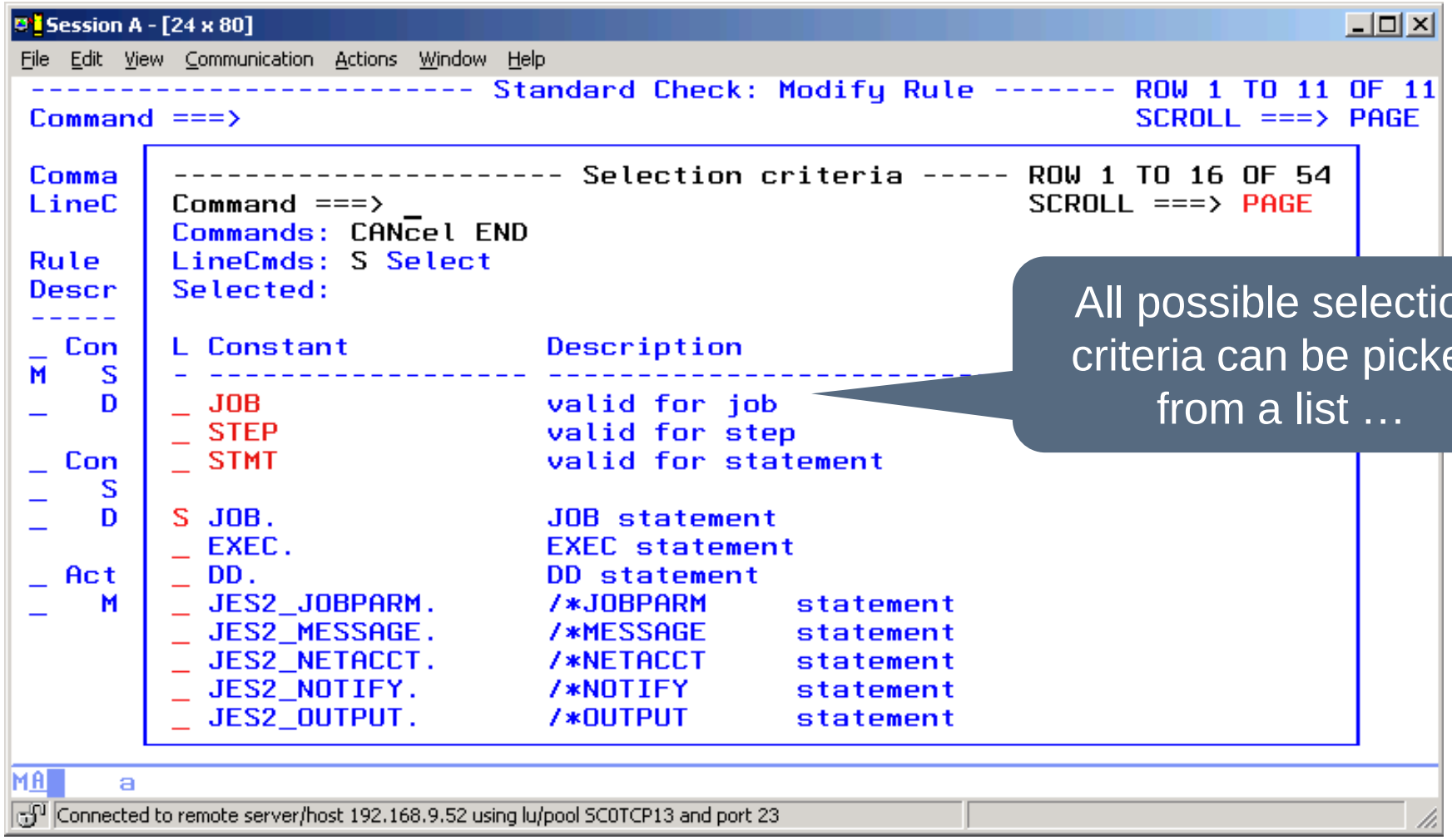
HORIZONT Classification: Restricted

Modify Rule



HORIZONT Classification: Restricted

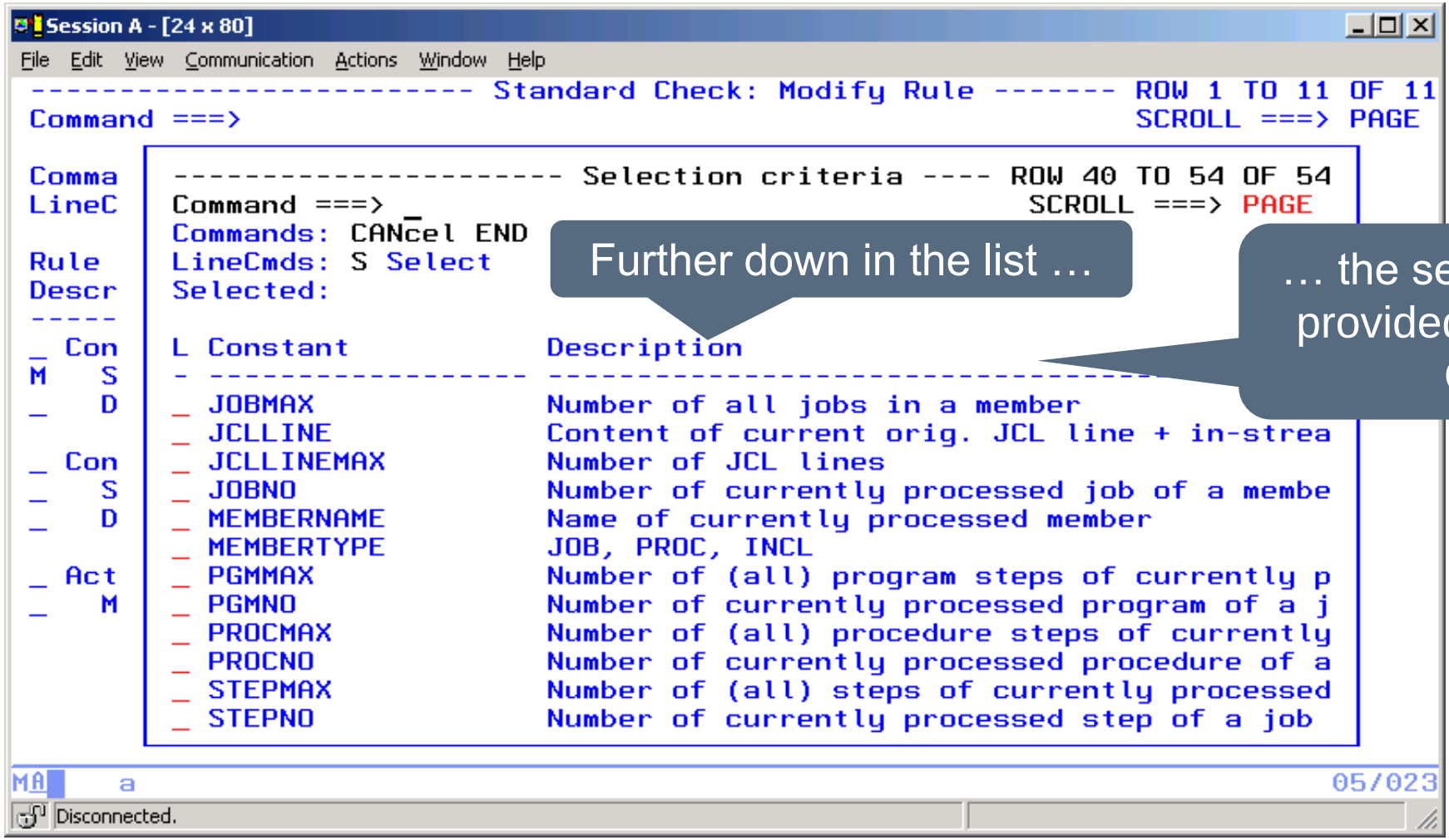
Selection Criteria



All possible selection criteria can be picked from a list …

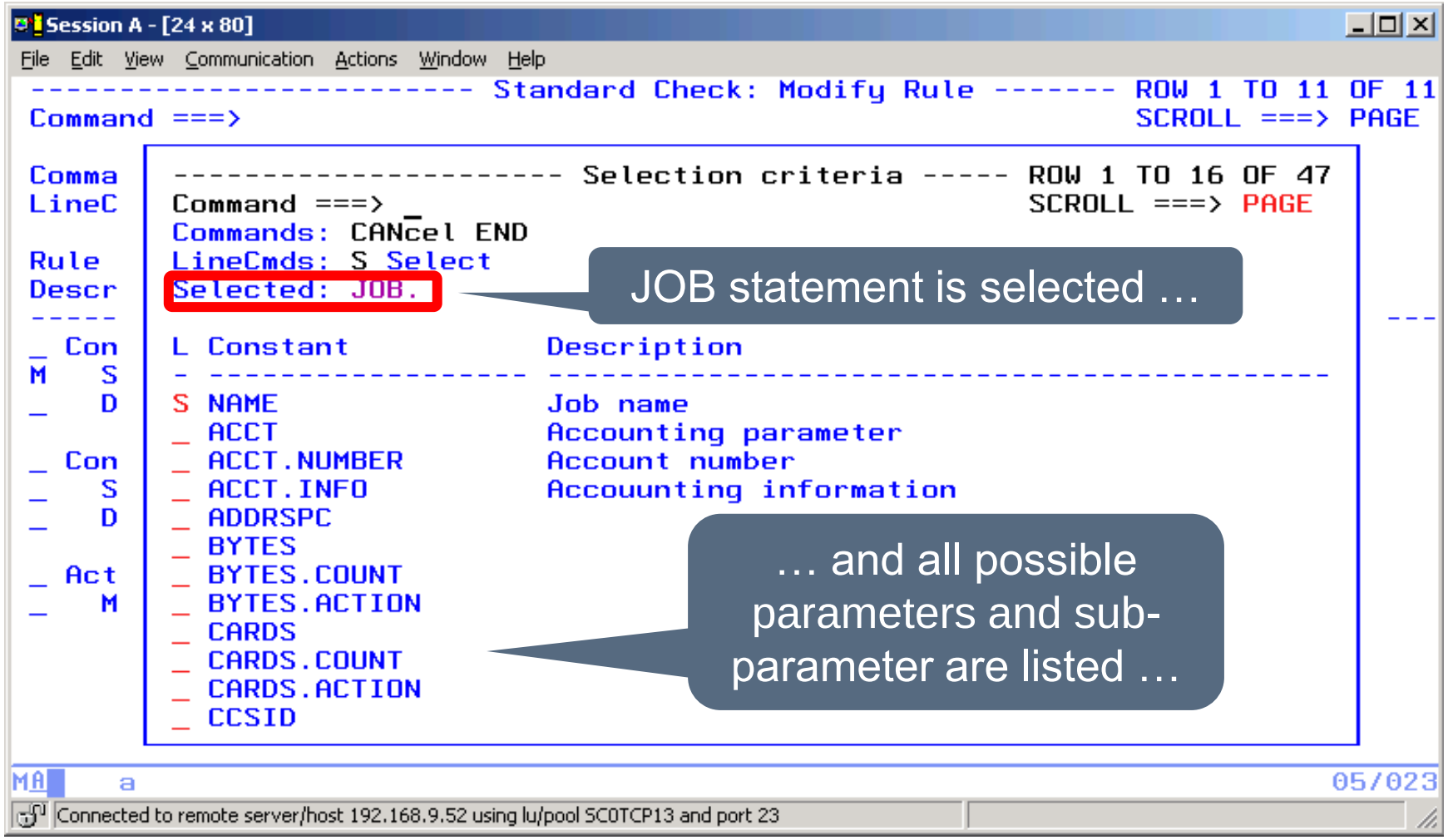
HORIZONT Classification: Restricted

Selection Criteria



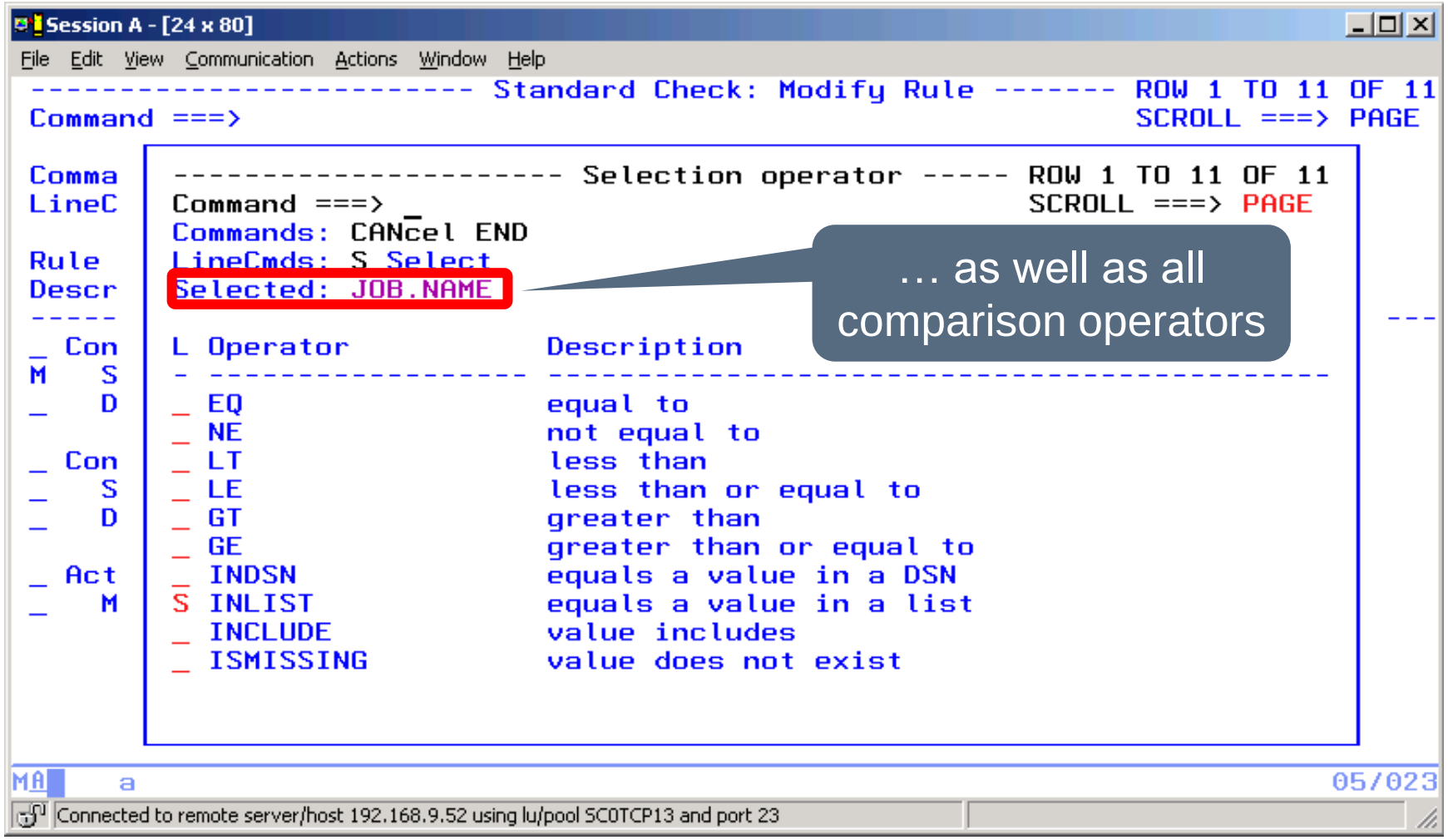
HORIZONT Classification: Restricted

Selection Criteria



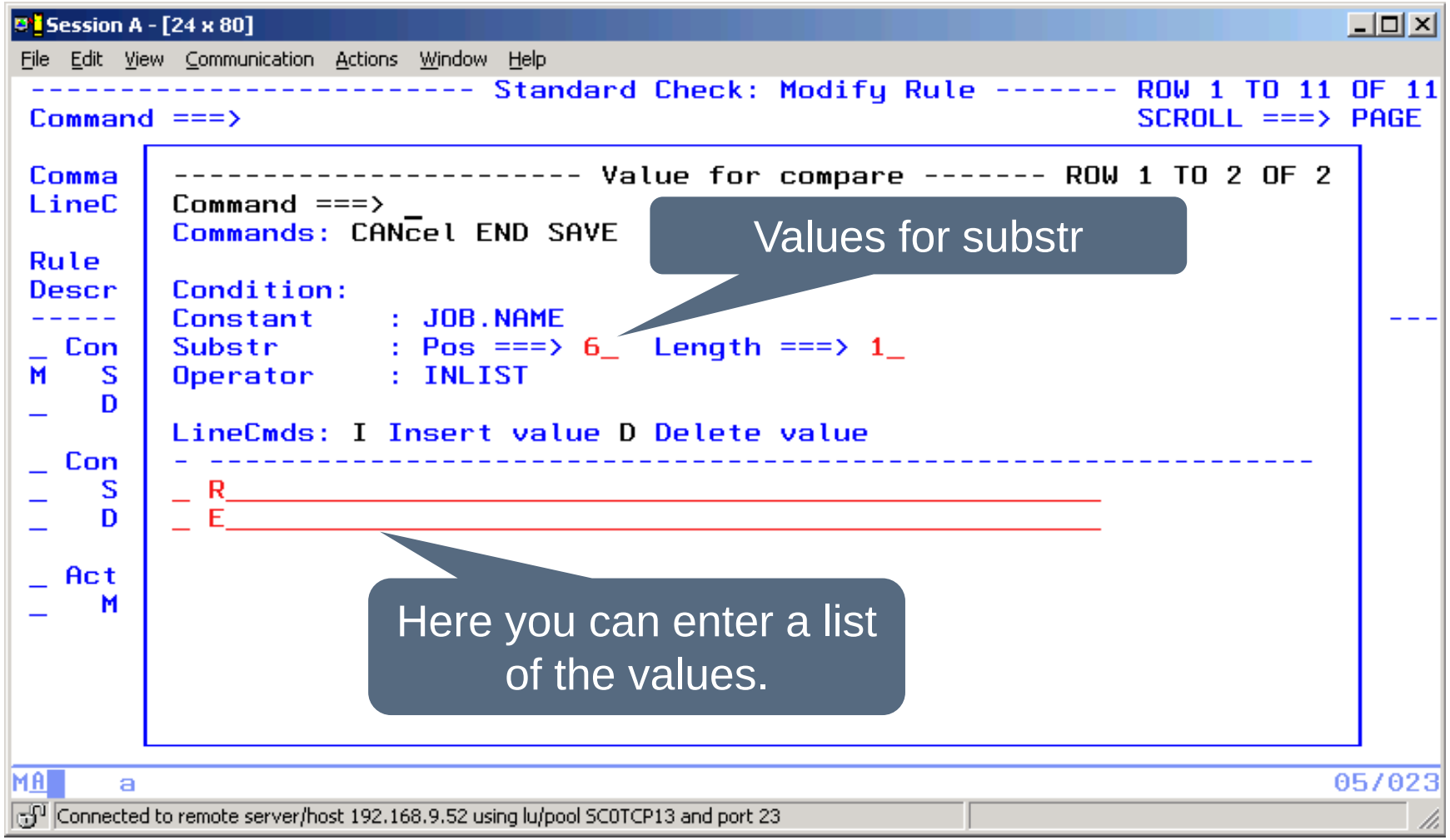
Classification: Restricted

Comparison Opertors



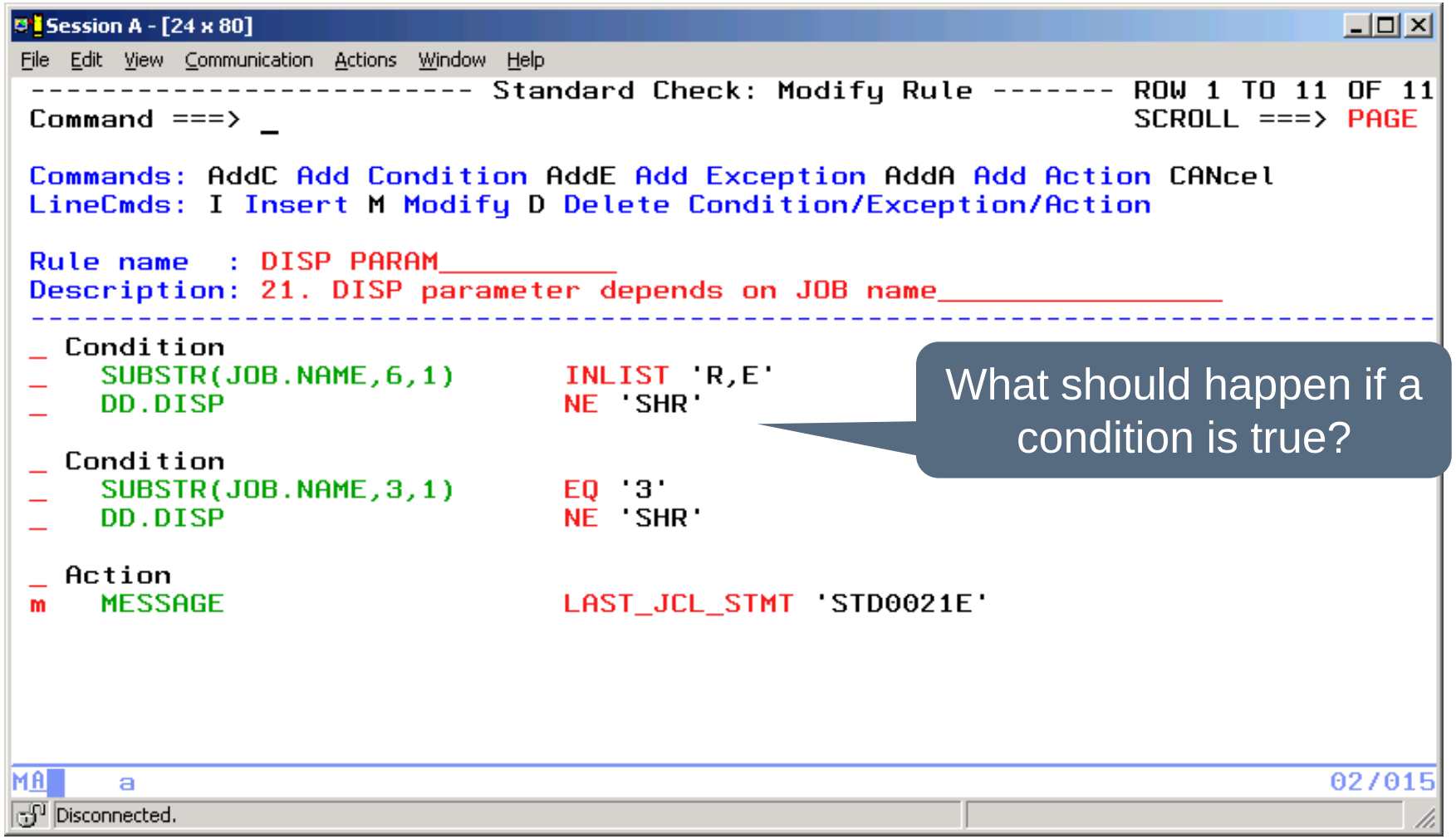
HORIZONT Classification: Restricted

Specify Compare Values



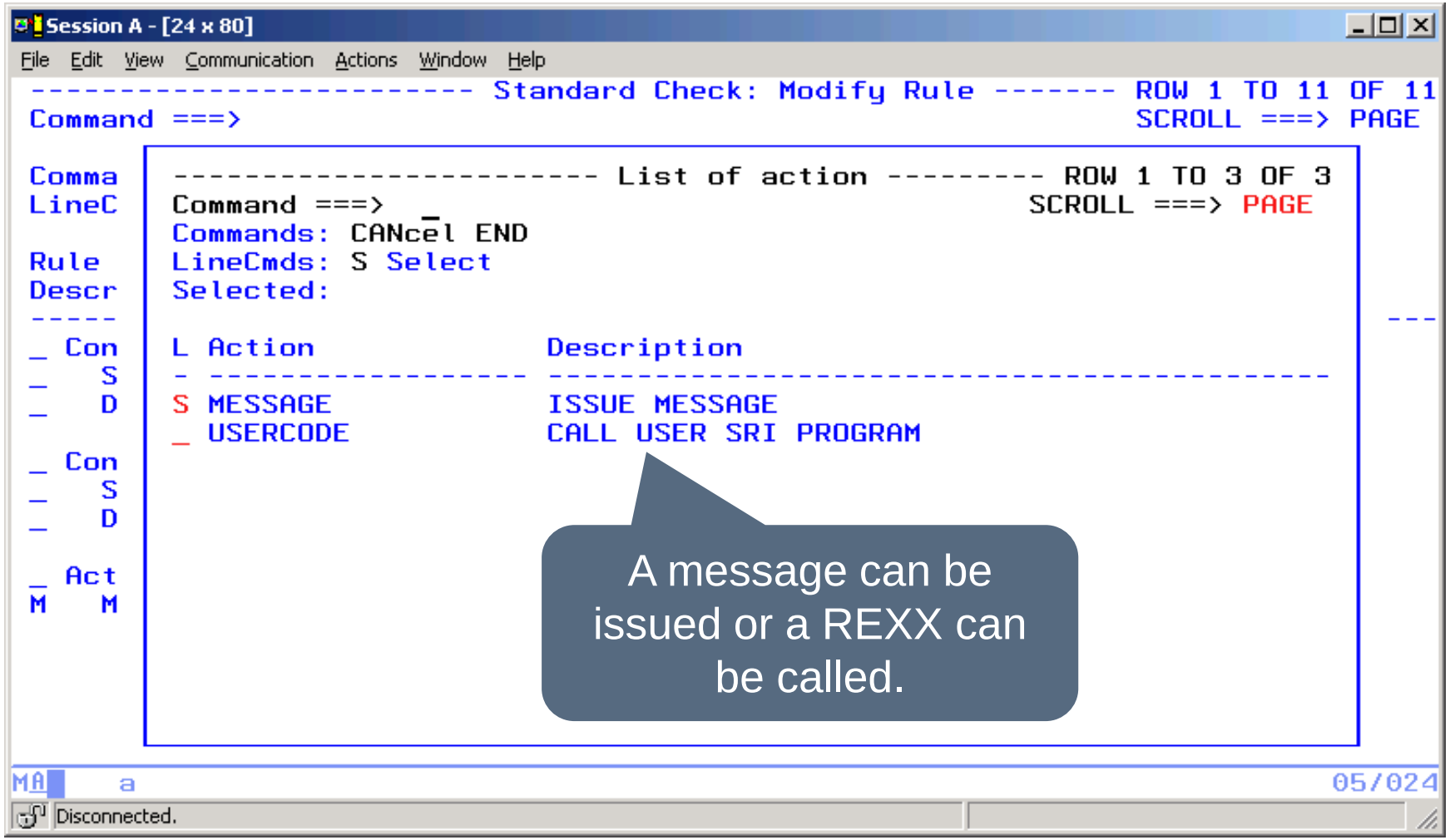
HORIZONT Classification: Restricted

Action for a Rule



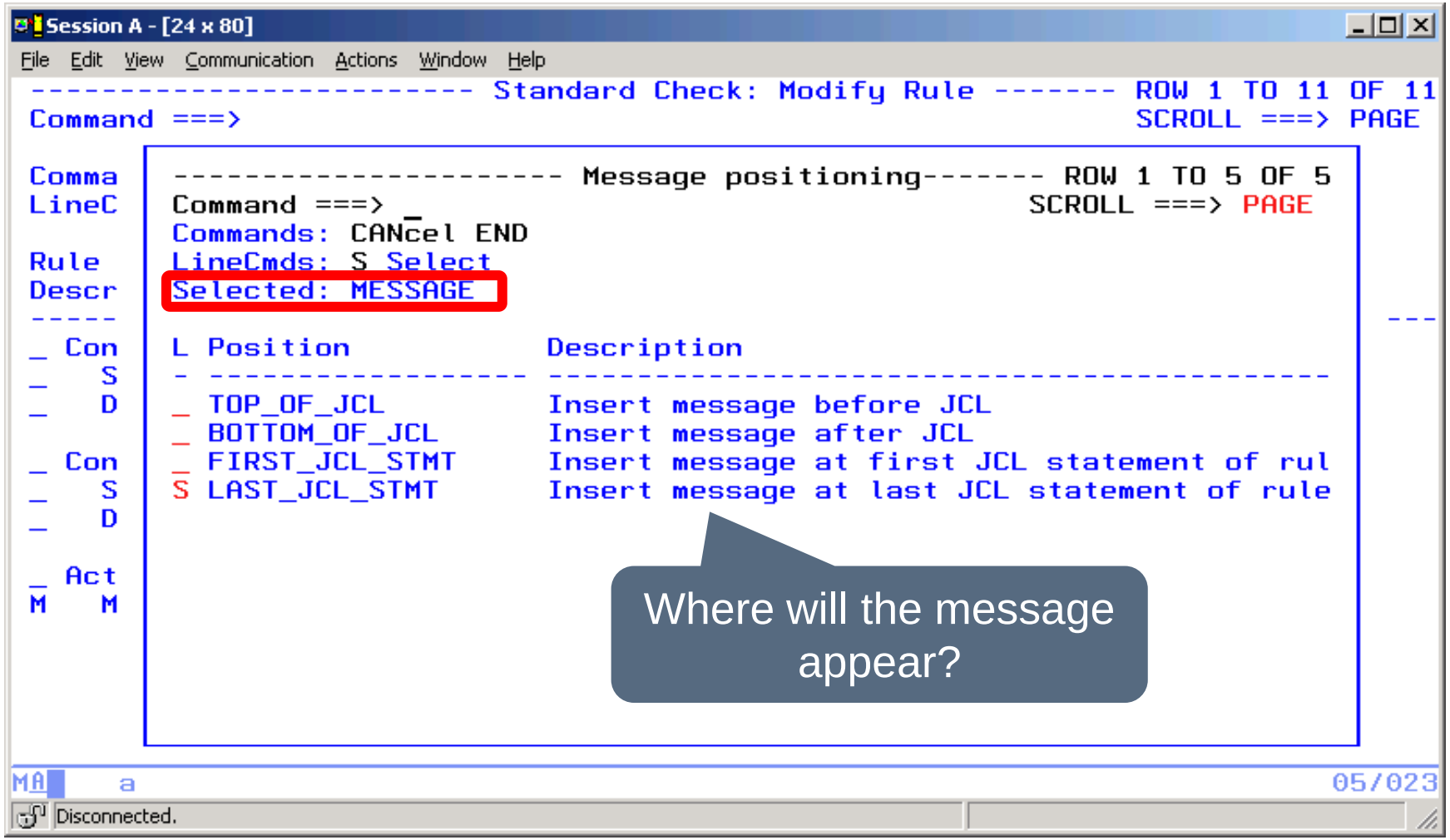
HORIZONT Classification: Restricted

Action for a Rule



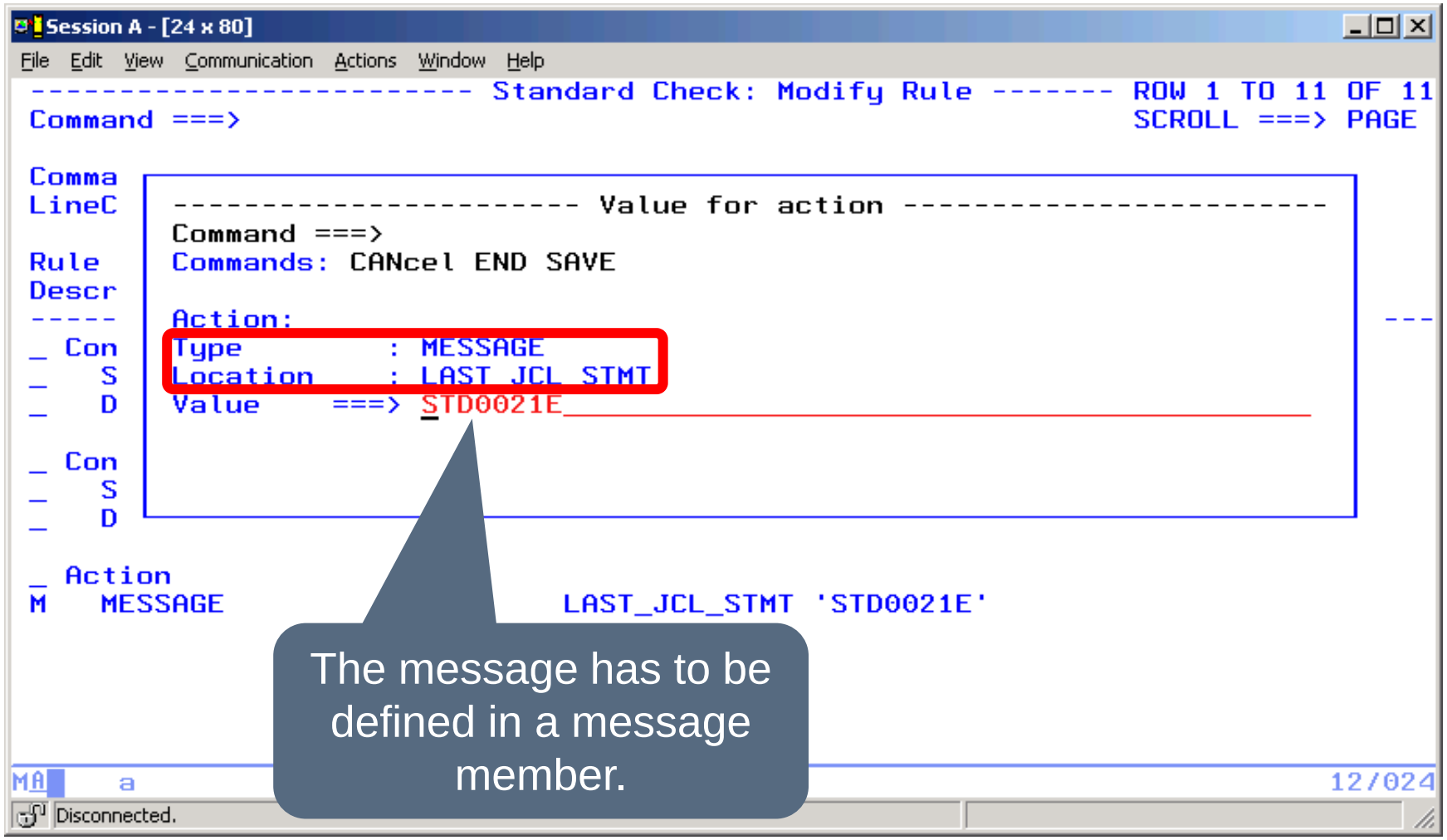
Classification: Restricted

Action for a Rule



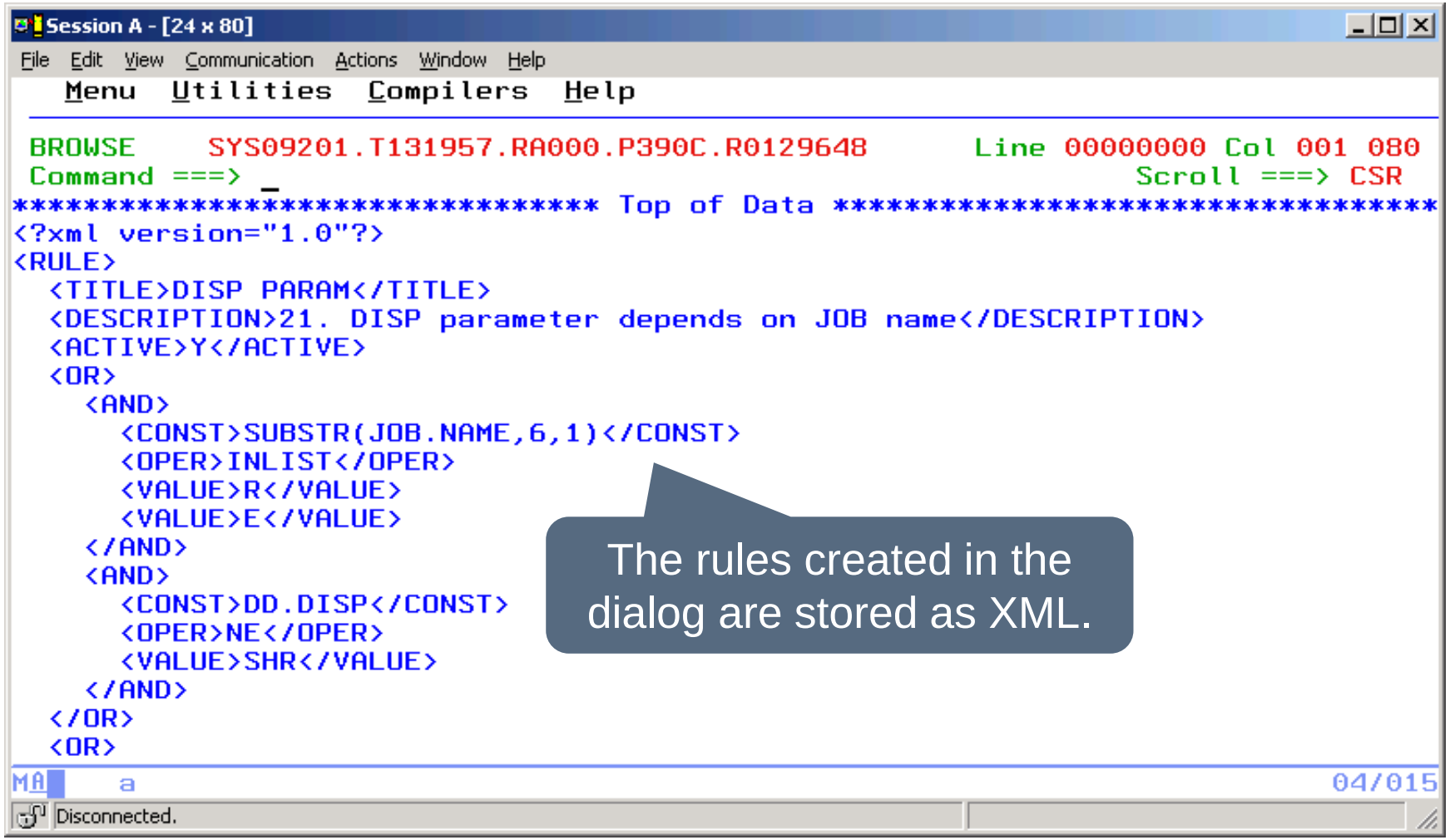
HORIZONT Classification: Restricted

Action for a Rule



HORIZONT Classification: Restricted

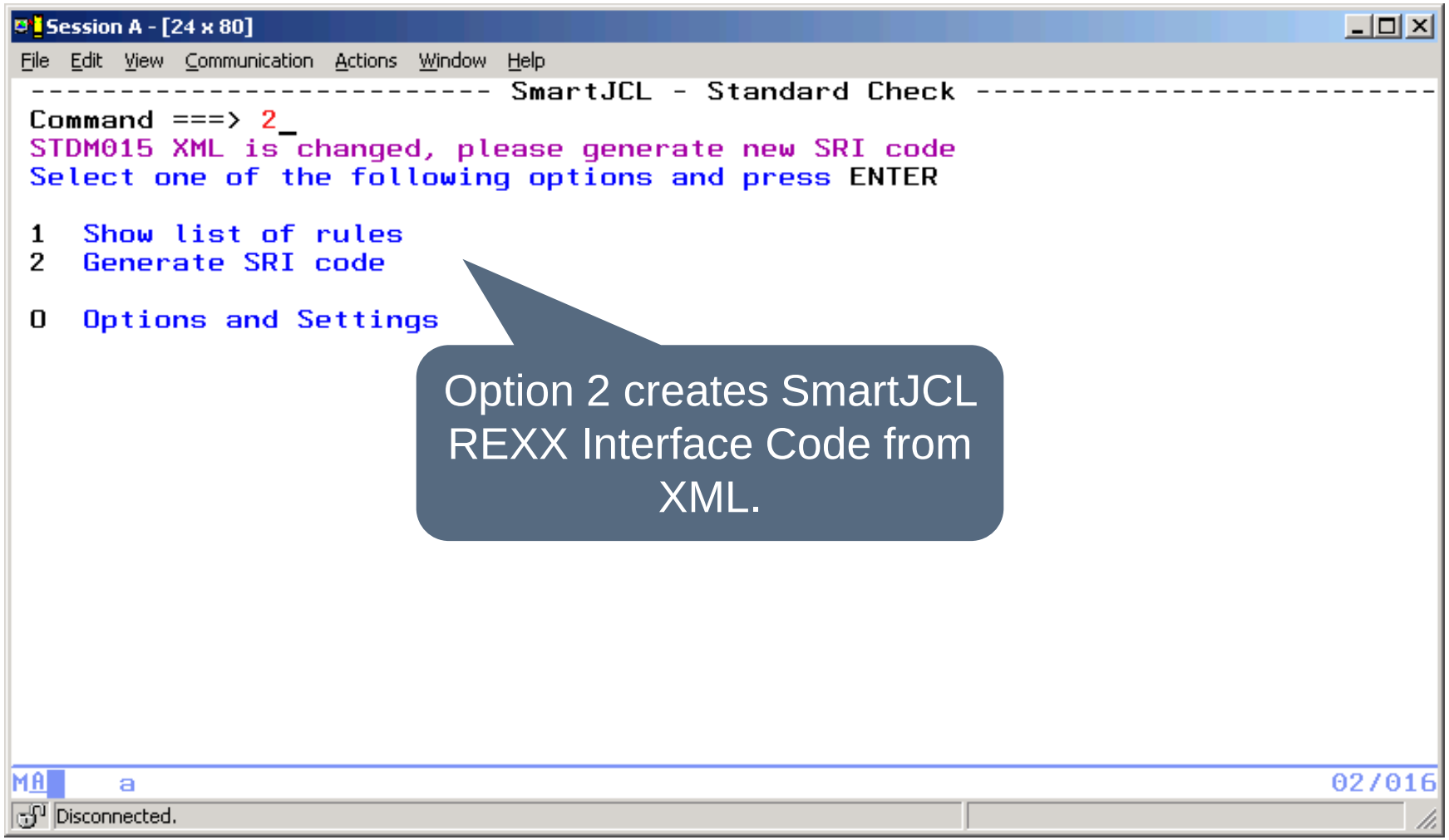
XML for a Rule



The rules created in the dialog are stored as XML.

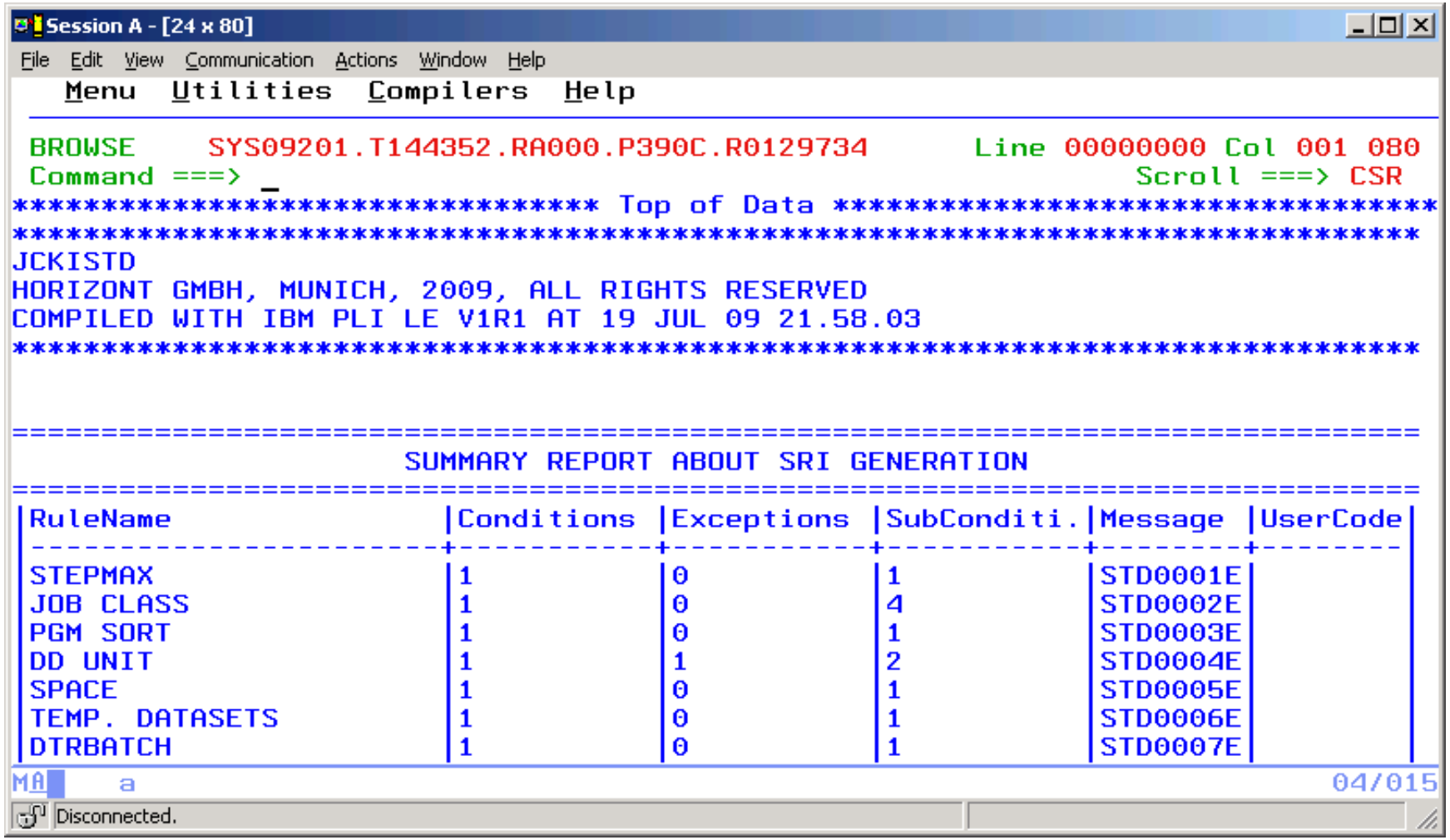
HORIZONT Classification: Restricted

Generate SRI Code



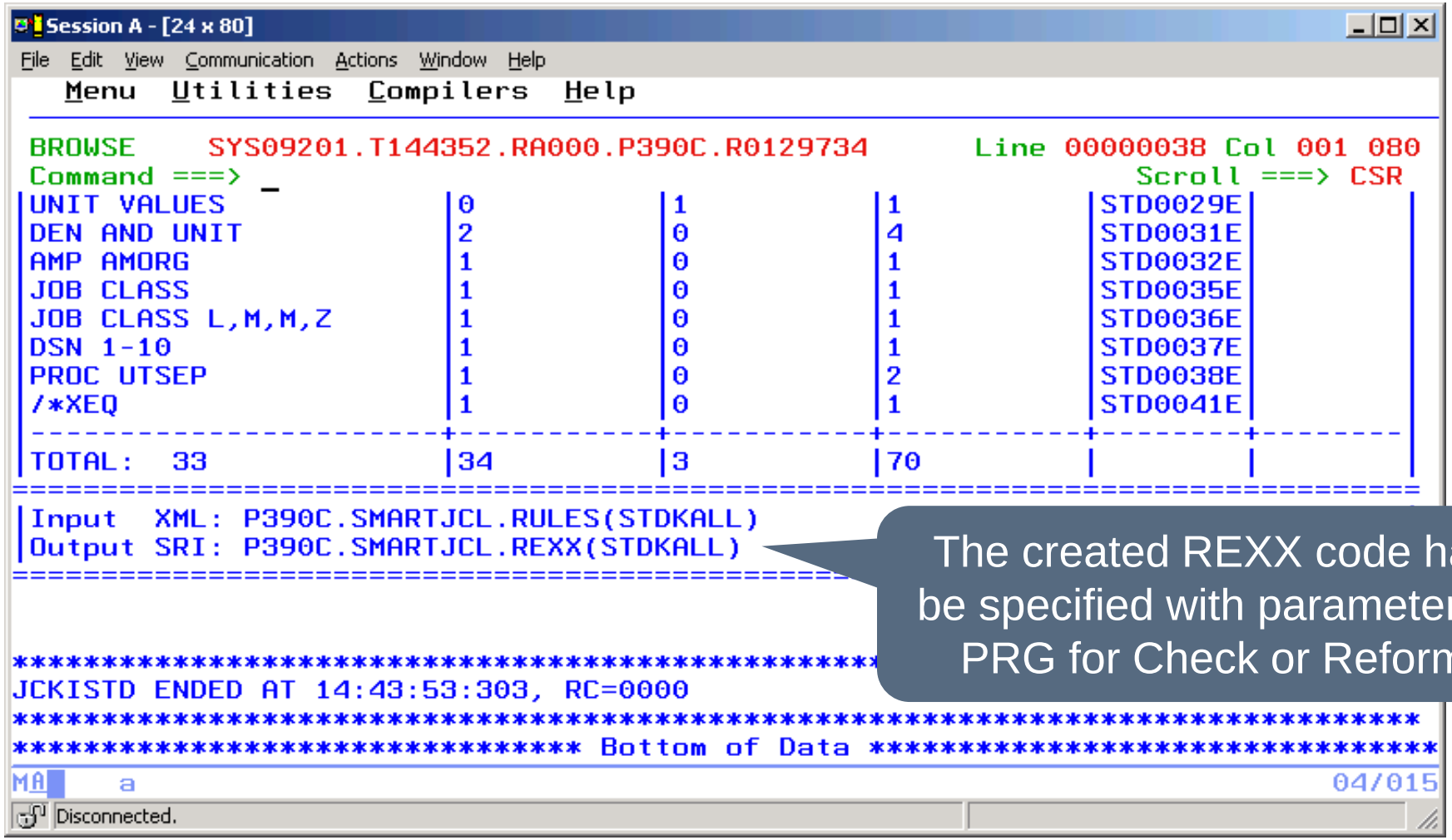
HORIZONT Classification: Restricted

Generate SRI Code



Classification: Restricted

Generate SRI Code



The created REXX code has to be specified with parameter SRI-PRG for Check or Reformat.

Classification: Restricted

SmartJCL 3.0

Other new functions and enhancements:

- Installation – Own PARM dataset
  - Strict separation of product libraries and parameter library (OPZXPARM in CLIST caused problems).
  - Easier distribution/maintenance of SmartJCL to multiple z/OS systems.
- Scheduler Interface for TWS
  - TWS 8.5 support

HORIZONT Classification: Restricted

Other new functins and enhancements (2):

- JCL Checker
  - z/OS 1.11 support
    - DD EATTR parameter and SORT enhancements
  - Check IEHPROGM control statements and consider them for catalog check
  - Issue warning for RACF unprotected datasets
  - Issue warning if no alias exists for first qualifier
    - To avoid data sets in the master catalog
  - Message suppression: allow wildcards for message number
    - To suppress all messages for particular members
    - Example for PARM (JCKKMSX): JCK*MEMBER=MEMNAME

Classification: Restricted

Other new functions and enhancements (3):

- JCL Reformat
  - Reformat writes directly to PO files
    - In the past a PS dataset with IEBUPDTE format was used
    - ISPF member statistic is updated
  - Reformat COMMAND statement

Classification: Restricted

Other new functions and enhancements (4):

- SmartJCL REXX Interface (SRI)
  - New function %SRIInclude to avoid copies of same code
  - New function SRIChangeRef to adapt references to changes stepnames
  - Same line numbers in SRI messages as in trace

Classification: Restricted

Thanks for your attention! Do you have any questions?

HORIZONT

Please feel free to visit us in Munich or send an email to

info@horizont-it.com