

## System fields

<p>ABCDE</p>	<p><b>Constant: Alphabet (A,B,C,...)</b></p> <p><b>Example :</b></p> <p><b>System fields I</b>  <b>REPORT ZBCTCB93 NO STANDARD PAGE HEADING.</b>  <b>DETAIL.</b>  <b>WRITE: /5 'Logon name of the user: ' RIGHT-JUSTIFIED, 40 SY-UNAME.</b>  <b>WRITE: /5 'Logon client: ' RIGHT-JUSTIFIED, 40 SY-MANDT.</b>  <b>WRITE: /5 'Logon language: ' RIGHT-JUSTIFIED, 40 SY-LANGU.</b>  <b>WRITE: /5 'Current date: ' RIGHT-JUSTIFIED, 40 SY-DATUM.</b>  <b>WRITE: /5 'Current time: ' RIGHT-JUSTIFIED, 40 SY-UZEIT.</b>  <b>WRITE: /5 'Current transaction: ' RIGHT-JUSTIFIED, 40 SY-TCODE.</b>  <b>WRITE: /5 'Main program: ' RIGHT-JUSTIFIED, 40 SY-CPROG.</b>  <b>SKIP.</b>  <b>WRITE: /5 'SAP System ID: ' RIGHT-JUSTIFIED, 40 SY-SYSID.</b>  <b>WRITE: /5 'SAP Release: ' RIGHT-JUSTIFIED, 40 SY-SAPRL.</b>  <b>WRITE: /5 'Host: ' RIGHT-JUSTIFIED, 40 SY-HOST.</b>  <b>WRITE: /5 'Operating system: ' RIGHT-JUSTIFIED, 40 SY-OPSYS.</b>  <b>WRITE: /5 'Database system: ' RIGHT-JUSTIFIED, 40 SY-DBSYS.</b></p> <p><b>SKIP TO LINE 20. POSITION 10.</b>  <b>WRITE: SY-COLNO, ',', SY-LINNO, 'Cursor position (column, row).'</b>  <b>WRITE: 'New:', SY-COLNO,',',SY-LINNO.</b>  <b>SKIP.</b>  <b>SY-ULINE = '----- Underline -----'.</b>  <b>ULINE (23).</b>  <b>WRITE: /5 'Vertical bar:', SY-VLINE.</b>  <b>TOP-OF-PAGE.</b>  <b>DETAIL.</b>  <b>WRITE: 2 'Report Title: ', SY-TITLE(20).</b>  <b>WRITE: 'Page Number: ', SY-PAGNO.</b>  <b>SKIP.</b></p>
<p>APPLI</p>	<p>SAP applications</p>
<p>BATCH</p>	<p>Background active (X)</p> <p><b>EXAMPLE :</b></p> <p><b>REPORT ZBCTCB99 NO STANDARD PAGE HEADING.</b></p> <p><b>PARAMETERS: TEST.</b></p>

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	<pre> DETAIL. IF SY-BATCH EQ SPACE.     WRITE: / 'Report was started on-line'.     WRITE: / 'Using variant:', SY-SLSET. ELSE.     WRITE: / 'Report was started in background'. ENDIF. </pre>
BATZD	Background SUBMIT: Daily
BATZM	Background SUBMIT: Monthly
BATZO	Background SUBMIT: Once
BATZS	Background SUBMIT: Immediately
BATZW	Background SUBMIT: Weekly
BINPT	Batch input active (X)
BREP4	Background SUBMIT: Root name of request report
BSPLD	Background SUBMIT: List output to spool
CALLD	CALL mode active (X)
CALLR	Print: ID for print dialog function
CCURS	Rate specification/result field (CURRENCY CONVERT)
CCURT	Table rate from currency conversion
CDATE	Date of rate from currency conversion
COLNO	Current column during list creation
	Current page number
CPAGE	<p>EXAMPLE :</p> <p>REPORT ZBCTCB90 NO STANDARD PAGE HEADING</p>

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LINE-COUNT 20 LINE-SIZE 80.

TABLES: T000.

DETAIL.

DO 5 TIMES.

SELECT \* FROM T000.

WRITE: / T000-MANDT, T000-MTEXT.

ENDSELECT.

NEW-PAGE.

ENDDO.

TOP-OF-PAGE.

WRITE: / 'Page', SY-PAGNO.

AT LINE-SELECTION.

DETAIL.

\* SY-LSIND is the index of the current list

WRITE: / 'SY-LSIND:', SY-LSIND LEFT-JUSTIFIED.

\* SY-LISTI is the index of the previous list

WRITE: / 'SY-LISTI:', SY-LISTI LEFT-JUSTIFIED.

\* SY-LILLI is the number of the selected line in the absolute list

WRITE: / 'SY-LILLI:', SY-LILLI LEFT-JUSTIFIED.

\* SY-CUROW is the position of the selected line on the screen

WRITE: / 'SY-CUROW:', SY-CUROW LEFT-JUSTIFIED.

\* SY-CUCOL is the position of the cursor in the window

WRITE: / 'SY-CUCOL:', SY-CUCOL LEFT-JUSTIFIED.

SKIP.

WRITE: / 'SY-CPAGE and SY-STAR0 do not depend on the cursor position'.

SKIP.

\* SY-CPAGE is the currently displayed page of the list

WRITE: / 'SY-CPAGE:', SY-CPAGE LEFT-JUSTIFIED.

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	<p>* SY-STARO is the number of the topmost actual list line displayed * on the current page.</p> <p>WRITE: / 'SY-STARO:', SY-STARO LEFT-JUSTIFIED.</p> <p>SKIP.</p> <p>* contents of the selected line</p> <p>WRITE: / 'SY-LISEL:', SY-LISEL.</p>
CPROG	Runtime: Main program
CTABL	Exchange rate table from currency conversion
CTYPE	Exchange rate type 'M','B','G' from CURRENCY CONVERSION
CUCOL	Cursor position (column) .
CUROW	Cursor position (line) .
DATAR	<p>Flag: Data received</p> <p>SY-DATAR</p> <p>In transaction programming this field indicates the change of data on the screen. In the PBO part you set the default value of the input fields of the dynpro. In the PAI part you can check if they were changed. If SY-DATAR is set, then the user has modified or entered new data on the screen.</p>
DATLO	Local date for user
DATUM	System: Date
DATUT	Global date related to UTC (GMT)
DAYST	Summertime active ? ('daylight saving time')
DBCNT	<p>Number of elements in edited dataset with DB operations</p> <p>EXAMPLE :</p> <p>REPORT ZBCTCB92.</p> <p>TABLES: T000.</p> <p>DATA: BEGIN OF T OCCURS 0,</p>

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FIELD(10),

END OF T.

DATA: NUM TYPE N.

DETAIL.

\* sy-linct and sy-linsz describes a page of the list

WRITE: / 'Example of sy-linct and sy-linsz'.

SKIP.

WRITE: / SY-LINCT, 'line and', (3) SY-LINSZ, 'column is a page'.

\* sy-index works in do-endo and while-endwhile loops.

\* it contains the number of loop passes.

WRITE: /'Example of sy-index'.

SKIP.

DO 5 TIMES.

WRITE: SY-INDEX.

ENDDO.

\* sy-tabix is the index number of the currently processed row

\* for an internal table

SKIP.

WRITE: /'Example of sy-tabix'.

SKIP.

T-FIELD = 'One'. APPEND T.

T-FIELD = 'Two'. APPEND T.

T-FIELD = 'Three'. APPEND T.

T-FIELD = 'Four'. APPEND T.

T-FIELD = 'Five'. APPEND T.

WRITE: /'Example of sy-tabix I'.

SKIP.

LOOP AT T.

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WRITE: / SY-TABIX, T-FIELD.

ENDLOOP.

*sy-fdpos contains off-set after string comparison and search operations

SKIP.

WRITE: /'Example of sy-fdpos'.

SKIP.

CLEAR T.

SEARCH T FOR 're'.

READ TABLE T INDEX SY-TABIX.

WRITE: / SY-TABIX, T-FIELD.

SKIP.

WRITE: /9 'At the example of sy-tabix, Row', (3) SY-TABIX, ',',
      'keyword "re" found at off-set position:', (3) SY-FDPOS.

SKIP.

* sy-dbcnt contains the number of selected records.

* sy-subrc is 0 if an operation was successful.

WRITE: /'Example of sy-dbcnt and sy-subrc I'.

SKIP.

SELECT * FROM T000 WHERE MANDT BETWEEN '000' AND '066'.

      WRITE: /10 'Mandant:', T000-MANDT.

ENDSELECT.

WRITE: /12 'Number of selected records:', SY-DBCNT CENTERED.

WRITE: /12 'Return code: ' RIGHT-JUSTIFIED, SY-SUBRC .

SKIP.

WRITE: /'Example of sy-dbcnt and sy-subrc II: don't find records'.

SKIP.

SELECT * FROM T000 WHERE MANDT EQ -1.

ENDSELECT.
```

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	<p>WRITE: /12 'Number of selected records:', SY-DBCNT CENTERED.</p> <p>WRITE: /12 'Return code: ' RIGHT-JUSTIFIED, SY-SUBRC.</p>
DBNAM	Logical database for ABAP/4 program
DBSYS	System: Database system
DCSYS	System: Dialog system
DSNAM	Runtime: Name of dataset for spool output
DYNGR	Screen group of current screen
DYNNR	Number of current screen
FDAYW	<p>Factory calendar weekday</p> <p>EXAMPLE :</p> <p>REPORT ZBCTCB93 NO STANDARD PAGE HEADING.</p> <p>PARAMETERS: TEST.</p> <p>DATA: SESSION TYPE I.</p> <p>DATA: BEGIN OF T_TSTCT OCCURS 10.</p> <p>    INCLUDE STRUCTURE TSTCT.</p> <p>DATA: END OF T_TSTCT.</p> <p>DETAIL.</p> <p>SESSION = SY-MODNO + 1.</p> <p>SET MARGIN 5 3.</p> <p>* The report must have a selection screen and from there execute+print</p> <p>* should be called the SET MARGIN to take effect.</p> <p>WRITE: / 'Number of this session:', SESSION.</p> <p>WRITE: / 'List starts from the ', SY-MACOL, ',', SY-MAROW, 'upper-left corner.'</p> <p>SKIP.</p>

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	<p>WRITE: / 'This is the', SY-FDAYW, ', workday of the week.'</p> <p>APPEND T_TSTCT.</p> <p>APPEND T_TSTCT.</p> <p>APPEND T_TSTCT.</p> <p>DESCRIBE TABLE T_TSTCT.</p> <p>WRITE: / 'Line width of internal table: 1 (lang) + 4 (tcode) + 36 (text) =', SY-TLENG.</p> <p>WRITE: / 'OCCURS parameter:', SY-TOCCU.</p> <p>WRITE: / 'Number of entries in internal table:', SY-TFILL.</p>
FDPOS	Location of a string
FMKEY	Current function code menu
HOST	Host
INDEX	Number of loop passes
LANGU	SAP logon language key
LDBPG	Program: ABAP/4 database program for SY-DBNAM
LILLI	Number of current list line
LINCT	Number of list lines
LINNO	Current line for list creation
LINSZ	Line size of list
LISEL	Interact.: Selected line
LISTI	Number of current list line
LOCDB	Local database exists
LOCOP	Local database operation
LOOPC	Number of LOOP lines at screen step loop
LSIND	Number of secondary list



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LSTAT	Interact.: Status information for each list level
MACDB	Program: Name of file for matchcode access
MACOL	Number of columns from SET MARGIN
MANDT	Client number from SAP logon
MARKY	Current line character for MARK
MAROW	No. of lines from SET MARGIN statement
MODNO	Number of alternative modi
MSGID	<p>Message ID</p> <p>EXAMPLE :</p> <pre> REPORT ZSYSTEM LINE-SIZE 255. TABLES: T100. * Batch-input data DATA: BEGIN OF G_BDCDATA OCCURS 100. INCLUDE STRUCTURE BDCDATA. DATA: END OF G_BDCDATA.  DATA: G_MESSAGE(200).  PERFORM FILL_BDCDATA. CALL TRANSACTION 'FI01' USING G_BDCDATA MODE 'N'. * of course it is nicer with a message itab, but this example * should also demonstrate the use of system variables. SELECT SINGLE * FROM T100 WHERE SPRSL = 'E' AND ARBGB = SY-MSGID AND MSGNR = SY-MSGNO. G_MESSAGE = T100-TEXT.  PERFORM REPLACE_PARAMETERS USING SY-MSGV1 SY-MSGV2 SY-MSGV3 SY-MSGV4 CHANGING G_MESSAGE.  WRITE: / 'System variables:'. SKIP. WRITE: / ' Sy-msgty:', SY-MSGTY. WRITE: / ' Sy-msgid:', SY-MSGID. WRITE: / ' Sy-msgno:', SY-MSGNO. WRITE: / ' Sy-msgv1:', SY-MSGV1. WRITE: / ' Sy-msgv2:', SY-MSGV2. WRITE: / ' Sy-msgv3:', SY-MSGV3. </pre>

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```
WRITE: / ' Sy-msgv4:', SY-MSGV4.
SKIP.
WRITE: / 'The transaction was called with a wrong country code.'.
WRITE: / 'The error message should be either that or that you have'.
WRITE: / ' no authorisation to execute the transaction'.
SKIP.
WRITE: / 'Message:'.
SKIP.
WRITE: / SY-MSGTY, G_MESSAGE.

*-----*
* Build up the BDC-table *
*-----*

FORM FILL_BDCDATA.
REFRESH G_BDCDATA.

PERFORM BDC_DYNPRO USING 'SAPMF02B' '0100'.
PERFORM BDC_FIELD USING 'BNKA-BANKS' 'ZZZ'.
PERFORM BDC_FIELD USING 'BDC_OKCODE' 'QQQQQ'.

ENDFORM.

*-----*
* FORM BDC_DYNPRO *
*-----*
* Batchinput: Start new Dynpro *
*-----*

FORM BDC_DYNPRO USING P_PROGRAM P_DYNPRO.
CLEAR G_BDCDATA.
G_BDCDATA-PROGRAM = P_PROGRAM.
G_BDCDATA-DYNPRO = P_DYNPRO.
G_BDCDATA-DYNBEGIN = 'X'.
APPEND G_BDCDATA.
ENDFORM. " BDC_DYNPRO

*-----*
* FORM BDC_FIELD *
*-----*
* Batchinput: Feld hinzufügen *
*-----*

FORM BDC_FIELD USING P_FNAM P_FVAL.
CLEAR G_BDCDATA.
G_BDCDATA-FNAM = P_FNAM.
G_BDCDATA-FVAL = P_FVAL.
APPEND G_BDCDATA.
ENDFORM. " BDC_FIELD

*-----*
* FORM REPLACE_PARAMETERS *
*-----*
* ..... *
*-----*
* --> P_PAR_1 *
```

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```
* --> P_PAR_2 *
* --> P_PAR_3 *
* --> P_PAR_4 *
* --> P_MESSAGE *
*-----*
FORM REPLACE_PARAMETERS USING P_PAR_1
P_PAR_2
P_PAR_3
P_PAR_4
CHANGING P_MESSAGE.

* erst mal pruefen, ob numerierte Parameter verwendet wurden
DO.
REPLACE '&1' WITH P_PAR_1 INTO P_MESSAGE.
IF SY-SUBRC <> 0.
EXIT.
ENDIF.
ENDDO.
DO.
REPLACE '&2' WITH P_PAR_2 INTO P_MESSAGE.
IF SY-SUBRC <> 0.
EXIT.
ENDIF.
ENDDO.
DO.
REPLACE '&3' WITH P_PAR_3 INTO P_MESSAGE.
IF SY-SUBRC <> 0.
EXIT.
ENDIF.
ENDDO.
DO.
REPLACE '&4' WITH P_PAR_4 INTO P_MESSAGE.
IF SY-SUBRC <> 0.
EXIT.
ENDIF.
ENDDO.
* falls keine numerierten Parameter vorh., ersetzen wie gehabt
REPLACE '&' WITH P_PAR_1 INTO P_MESSAGE.
CONDENSE P_MESSAGE.
IF SY-SUBRC EQ 0.
REPLACE '&' WITH P_PAR_2 INTO P_MESSAGE.
CONDENSE P_MESSAGE.
IF SY-SUBRC EQ 0.
REPLACE '&' WITH P_PAR_3 INTO P_MESSAGE.
CONDENSE P_MESSAGE.
IF SY-SUBRC EQ 0.
REPLACE '&' WITH P_PAR_4 INTO P_MESSAGE.
CONDENSE P_MESSAGE.
ENDIF.
ENDIF.
ENDIF.
```

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	ENDFORM. "replace_parameters
MSGLI	Interact.: Message line (line 23)
MSGNO	Message number
MSGTY	Message type (E,I,W,...)
MSGV1	Message variable
MSGV2	Message variable
MSGV3	Message variable
MSGV4	Message variable
OPSYS	System: Operating system
PAART	<u>Print: Format</u>
PAGCT	<u>Page size of list from REPORT statement</u>
PAGNO	<u>Runtime: Current page in list</u>
	<u>Print: Output device</u>
	EXAMPLE :
	REPORT ZZBETO98. PARAMETERS: PARAM(6) DEFAULT 'TEST'. WRITE: / 'System variables for printing.' WRITE: / 'Please check the spool for the printout'. SKIP. * check is necessary to prevent further recursive calls of this program. IF NOT ( SY-PDEST IS INITIAL ). SKIP. WRITE: / 'System variables for printing.' SKIP. WRITE: / ' Layout: SY-PAART',SY-PAART. * This can be used in normal lists as well. * If used with 'new-page print on', it continues counting WRITE: / ' Current page number: SY-PAGNO', SY-PAGNO. WRITE: / ' Printer: SY-PDEST', SY-PDEST. WRITE: / ' Priority: SY-PEXPI', SY-PEXPI. WRITE: / ' List name: SY-PLIST', SY-PLIST. WRITE: / ' Department: SY-PRABT', SY-PRABT. * output cover sheet with the report's parameters WRITE: / ' Output cover sheet: SY-PRBIG', SY-PRBIG. WRITE: / ' No. of copies: SY-PRCOP', SY-PRCOP.
PDEST	

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```

WRITE: / ' Dataset name: SY-PRDSN', SY-PRDSN.
WRITE: / ' Print immediately: SY-PRIMM', SY-PRIMM.
WRITE: / ' New list: SY-PRNEW', SY-PRNEW.
* Receiver must be a valid user-id
WRITE: / ' Receiver: SY-PRREC', SY-PRREC.
WRITE: / ' Delete after output: SY-PRREL', SY-PRREL.
WRITE: / ' Cover text: SY-PRTXT', SY-PRTXT.
EXIT.
ENDIF.
SUBMIT ZZBETO98 TO SAP-SPOOL
DESTINATION 'ST03'
COPIES 3
LIST NAME 'NEWLIST'
LIST DATASET 'TESTLIST'
COVER TEXT 'Test of system variables'
LIST AUTHORITY 'BASIS'
IMMEDIATELY ''
KEEP IN SPOOL 'X'
NEW LIST IDENTIFICATION 'X'
DATASET EXPIRATION '8'
LINE-COUNT 90
LINE-SIZE 120
LAYOUT 'X_90_120'
SAP COVER PAGE 'X'
COVER PAGE 'X'
RECEIVER 'SAP*'
DEPARTMENT 'DEP.'
WITHOUT SPOOL DYNPRO.

```

PEXPI	Print: Spool retention period
PFKEY	Runtime: Current F key status
PLIST	Print: Name of spool request (list name)
PRABT	Print: Department on cover sheet
PRBIG	Print: Selection cover sheet
PRCOP	Print: Number of copies
PRDSN	Print: Name of spool dataset
PREFX	ABAP/4 prefix for background jobs
PRIMM	Print: Print immediately
PRNEW	Print: New spool request (list)

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PRREC	Print: Recipient
PRREL	Print: Delete after printing
PRTXT	Print: Text for cover sheet
REPID	Program: Name of ABAP/4 program
RTITL	Print: Report title of program to be printed
SAPRL	System: SAP Release
SCOLS	Columns on screen
SLSET	Name of selection set
SPONO	Runtime: Spool number for list output
SPONR	Runtime: Spool number from TRANSFER statement
SROWS	Lines on screen
STACO	Interact.: List displayed from column
STARO	Interact.: Page displayd from line
STEPL	Number of LOOP line at screen step
SUBRC	Return value after specific ABAP/4 statements
SUBTY	ABAP/4: Call type for SUBMIT
SYSID	System: SAP System ID
TABIX	Runtime: Current line of an internal table
TCODE	Session: Current transaction code
TFDSN	Runtime: Dataset for data extracts
TFILL	Current number of entries in internal table
TIMLO	Local time for user
TIMUT	Global time related to UTC (GMT)
TITLE	Title of ABAP/4 program

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TLENG	Line width of an internal table
TMAXL	Maximum number of entries in internal table (?)
TNAME	Name of internal table after an access (?)
TOCCU	OCCURS parameter with internal tables
TPAGI	Flag indicating roll-out of internal table to paging area (?)
TSTLO	Timestamp (date and time) for user
TSTUT	Timestamp (date and time) related to UTC (GMT)
TTABC	Number of line last read in an internal table (?)
TTABI	Offset of internal table in roll area (?)
TVAR0	Runtime: Text variable for ABAP/4 text elements
TVAR1	Runtime: Text variable for ABAP/4 text elements
TVAR2	Runtime: Text variable for ABAP/4 text elements
TVAR3	Runtime: Text variable for ABAP/4 text elements
TVAR4	Runtime: Text variable for ABAP/4 text elements
TVAR5	Runtime: Text variable for ABAP/4 text elements
TVAR6	Runtime: Text variable for ABAP/4 text elements
TVAR7	Runtime: Text variable for ABAP/4 text elements
TVAR8	Runtime: Text variable for ABAP/4 text elements
TVAR9	Runtime: Text variable for ABAP/4 text elements
TZONE	Time difference from 'Greenwich Mean Time' (UTC) in seconds
UCOMM	Interact.: Command field function entry
ULINE	Constant: Underline (-----...)
UNAME	Session: SAP user from SAP logon
UZEIT	System: Time

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VLINE	Constant: Vertical bar
WAERS	T001: Company code currency after reading B segment
WILLI	Number of current window line
WINCO	Cursor position in window (column)
WINDI	Index of current window line
WINRO	Cursor position in window (line)
WINSL	Interact.: Selected window line
WINX1	<p>Window coordinate (column left)</p> <p>EXAMPLE :</p> <pre> REPORT  ZSYSTEM. * You must click on a row to see results.  DATA:          L_SROW      TYPE      I      VALUE      10. DATA:          L_SCOL      TYPE      I      VALUE      15. DATA:          L_EROW      TYPE      I      VALUE      20. DATA: L_ECOL TYPE I VALUE 70.  WRITE:          /          '          Initial          values:          '. WRITE:          /          '          SY-WINX1:',          SY-WINX1. WRITE:          /          '          SY-WINX2:',          SY-WINX2. WRITE:          /          '          SY-WINY1:',          SY-WINY1. WRITE:          /          '          SY-WINY2:',          SY-WINY2. AT LINE-SELECTION. WINDOW STARTING AT L_SCOL L_SROW ENDING AT L_ECOL L_EROW . WRITE: / ' Values are from the upper left corner of the window.'. SKIP. WRITE: / ' After displaying the new window:          '. SKIP. WRITE: / ' SY-WINX1:', SY-WINX1, '(Column of the left side)'. WRITE: / ' SY-WINX2:', SY-WINX2, '(Column of the right side)'. WRITE: / ' SY-WINY1:', SY-WINY1, '(Row of the upper side)'. WRITE: / ' SY-WINY2:', SY-WINY2, '(Row of the lower side)'. </pre>
WINX2	Window coordinate (column right)
WINY1	Window coordinate (line left)
WINY2	Window coordinate (line right)
WTITL	Standard page header indicator



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XCODE	Extended command field
ZONLO	Time zone of user