Compute (Bridgend) Ltd

SELCOPY 2.01 New Features
for IBM Mainframe z/OS, VSE & VM/CMS Systems

8 Merthyr Mawr Road, Bridgend, Wales UK CF31 3NH

Tel: +44 (1656) 65 2222
Fax: +44 (1656) 65 2227

CBL Web Site - http://www.cbl.com

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SELCOPY 2.01 New Features

Documentation Notes

Information in this New Feature List reflects differences between SELCOPY 2.00 and SELCOPY 2.01.

SELCOPY 2.01 is a maintenance release and is equivalent to SELCOPY 2.00 with zaps 1-95 applied.

Please install SELCOPY 2.01 in a test environment and run against your existing job streams prior to migration to your production environment.

The **SELCOPY Installation Guide** and **SELCOPY New Features** are available in Adobe Acrobat PDF format at CBL web page http://www.cbl.com/selcdoc.html.

1.0 Important Changes

Section 1 documents all changes to SELCOPY in release 2.01 that may cause differences in execution of existing SELCOPY jobs.

Several fixes have been applied in release 2.01 that close loopholes in SELCOPY syntax. These address potential I/O problems and also inconsistencies between the way in which file geometry information on I/O statements is interpreted by SELCOPY and its documented effect as described by the SELCOPY User manual.

The important changes predominantly affect users who may have coded wrong file geometry information on their SELCOPY control statements, which previously was ignored, but in release 2.01 causes a SELCOPY error message.

SELCOPY Input/Output

The following are basic rules for SELCOPY I/O that are documented in the SELCOPY User manual.

1. SELCOPY performs physical I/O on a file by retrieving and writing data, one block (physical record) at a time, from an internal buffer.
2. For RECFM=F/FB/V/VB input, one logical record is presented to the user for each SELCOPY READ of the file.
3. For RECFM=U input, one physical record (block) is presented to the user for each SELCOPY READ of the file. (i.e. LRECL is equal to BLKSIZE.)
4. BLKSIZE=*n*, specified on a SELCOPY READ statement, defines the size of the internal I/O buffer which must be at least equal to the file's defined BLKSIZE. If not, ERROR 501 (Buffer too small for input block) is returned.
5. LRECL=*m*, specified on a SELCOPY READ/WRITE statement, defines the **maximum** logical record length of the input/output records read from or written to a file.
6. LRECL=*m*, specified on a SELCOPY READ/WRITE statement without RECFM, implies RECFM=F.
7. Although not strictly a rule, the SELCOPY User Manual strongly recommends that geometry for **MVS** data sets should **not** be specified on SELCOPY I/O control statements. When necessary, as on a DISP=NEW data set, geometry should be specified via the DCB parameter of the DD statement in the JCL.

Summary of Potential Error Messages

1.1.1 ERROR 501	Input buffer too small.
1.1.2 ERROR 102	Input RECFM=U LRECL/BLKSIZE conflict.
1.1.3 ERROR 581	Input RECFM=V record length exceeds specified LRECL.
1.2.1 RC=05 Truncation	Output MVS VSAM records truncated by specified LRECL.
1.2.2 ERROR 582	Output MVS dataset DCB geometry conflicts with specified RECFM/LRECL/BLKSIZE.
1.3 ERROR 584	Output dataset already open under different fname (ddname/label/filedef).
1.4 ERROR 020	Last byte of user field falls outside defined WORKLEN.

1.1 Wrongly coded LRECL=*m* is no longer ignored for RECFM=U/V input

1.1.1 ERROR 501

READ fname RECFM=U LRECL=*m*, where *m* is less than the actual input file BLKSIZE, will return the following error message in SELCOPY 2.01 (and SELCOPY 2.00 with s200z42 applied):

```
ERROR 501   F=fname - BUFFER TOO SMALL FOR INP BLK
```

Corrective Action:
Remove LRECL=*m* from the READ RECFM=U statement(s) or specify the correct value for *m*.

Reason for change:
Tighten syntax checking to conform to documentation in the SELCOPY User Manual. Wrong LRECL values should not be accepted as valid by SELCOPY.

1.1.2 ERROR 102

READ fname RECFM=U LRECL=*m* BLKSIZE=*n*, where LRECL is not equal to BLKSIZE (*m*<>*n*), will return the following error message in SELCOPY 2.01 (and SELCOPY 2.00 with s200z42 applied):

```
ERROR 102   ZAP 42 (RECFM=U INPUT LRECL NOT EQUAL TO BLKSIZE)
```

Corrective Action:
Either remove one or both of LRECL=*m* or BLKSIZE=*n* from the READ RECFM=U statement(s), or ensure that whatever remains is correct.

Note that this error may also occur if there are multiple READ RECFM=U statements for the same file whereby LRECL=*m* is specified on one READ statement and BLKSIZE=*n* is coded on another and *m*<>*n*. e.g.

```
   READ INFILE RECFM=U LRECL=8000
   READ INFILE RECFM=U            BLKSIZE=16000    * ERROR 102
```

Reason for change:
Tighten syntax checking to conform to documentation in the SELCOPY User Manual. Wrong LRECL or BLKSIZE values should not be accepted as valid by SELCOPY.

1.1.3 ERROR 581

READ fname RECFM=V LRECL=*m*, where the length of the record last read from the input file is greater than the specified maximum (LRECL=*m*), will return the following error message in SELCOPY 2.01 (and SELCOPY 2.00 with s200z43 applied):

```
ERROR 581   ZAP 43 (RECFM=V INP RDW LRECL EXCEEDS CODED LRECL)
```

Corrective Action:
Remove LRECL=*m* from the READ RECFM=V statement(s) or specify LRECL=*m* where *m* is greater than or equal to the file's defined LRECL.

Reason for change:
Tighten syntax checking to conform to documentation in the SELCOPY User Manual. Wrong LRECL values should not be accepted as valid by SELCOPY.

1.2 MVS Data Set Output

In MVS environments, data set DCB geometry is established from the existing DSCB in the VTOC which is overruled by the JFCB (DD card) which in turn gets overruled by the program's DCB, so it is strongly recommended that file geometry should not be specified on SELCOPY control statements.

Where RECFM, LRECL and/or BLKSIZE has been wrongly specified on SELCOPY control statements for MVS output, the following dangerous situations have been addressed in SELCOPY 2.01.

1.2.1 RC=05 Truncation for VSAM

WRITE fname LRECL=*m* to a VSAM (i.e. RECFM=U format) data set, where LRECL=*m* is less than the prevailing LRECL value, will return the following, non-zero return code in SELCOPY 2.01 (and SELCOPY 2.00 with s200z44 applied):

```
RC=05 Truncation has occurred.
```

LRECL=*m* on WRITE defines the **maximum** length of records that are to be written (see SELCOPY I/O rule 5.) Unlike previous releases of SELCOPY, records written to a VSAM dataset are **not** padded with the pad character (default blank) up to a length of *m* when LRECL=*m* is coded.

Corrective Action:
Where this syntax is used, it is usually the intention of the user to write a record of fixed length, *m*, to the VSAM file. To do this, LRECL=*m* on the WRITE statement should be replaced with *FROM p1, p2* syntax. (*p1* and *p2* respectively define the start and end position of the output record.) e.g.

```
   WRITE  DDKSDS  LRECL=80     * Write records of length equal to the input LRECL value..
                              * ..up to a maximum of length 80. If > 80 then RC=05.
```

should be replaced with:

```
   WRITE  DDKSDS  FROM 1, 80   * Write records of length 80 bytes.
```

Reason for change:
Prevent erroneous record format **FB** displayed for the VSAM dataset in SELCOPY's selection summary.

LRECL=*m* without RECFM on an MVS WRITE statement no longer implies **RECFM=F**. (See 3.1 Dataset Corruption Prevented.)
As a result of this, SELCOPY will no longer wrongly attempt to treat an output VSAM dataset as being RECFM=F but as RECFM=U instead.

1.2.2 ERROR 582

Where LRECL=*m*, BLKSIZE=*n* or RECFM is specified on the WRITE operation and **all** the following are true:

1. Data set is a PDS or PDSE **or** DISP=MOD/SHR.
2. The geometry on the WRITE differs from existing geometry.
3. The DSCB geometry values are non-zero.

then, in SELCOPY 2.01 (and SELCOPY 2.00 with s200z45 applied), the WRITE operation fails and the following error message is returned:

```
ERROR 582   ZAP 45 (GEOM CONFLICT FOR PDS OR DISP=MOD/SHR FILE)
```

Corrective Action:
Although specifying DISP=OLD on the JCL DD statement would bypass this message, the correct solution would be to remove all data set geometry from the WRITE statement(s) and, if necessary, update the DCB information on the DD statement in the JCL instead.

Reason for change:
ERROR 582 has been introduced to avoid **corruption** of sequential datasets and PDS or PDSE libraries.

Previously, specifying data set geometry (BLKSIZE, LRECL or RECFM) on a WRITE statement for an already allocated MVS PDS or PDSE member or sequential data set, would update the dataset's DSCB information with the specified values regardless of the DISP setting.

This is potentially disasterous, particularly if output is to a PDS or PDSE member where corruption of the entire library can occur.

1.3 ERROR 584

ERROR 584 is not a new error message. It is only mentioned here as it is known that some users had disabled it in SELCOPY 2.00.

If an attempt is made to open a file for output where the DSN matches the DSN on any other open file, then SELCOPY 2.00 and SELCOPY 2.01 return the following error message:

```
ERROR 584   F=fname - OUTPUT DSN ALREADY OPEN UNDER DIFF FN
```

Corrective Action:
Use the SELCOPY CLOSE operation to close the data set before an attempt is made to write to it using a different ddname.

Reason for change:
Prevent **corruption** of datasets that are still open for input or output when they are subsequently opened for **output** under a different filename (ddname).

1.4 ERROR 020

ERROR 020 is not a new message. It is only mentioned here as it is known that some users had disabled it in SELCOPY 2.00.

Where either of the following conditions are true:

1. A literal string is compared against a user field that has a start position within the defined WORKLEN or input record (work area) but has an end position that falls outside the work area. e.g.

```
read card                          * LRECL=80 and no workarea.
if p 80 = 'A'                      * OK on all Rels.
or p 80 = 'BC'                     * Accepted  on SELCOPY 9.80,
                                   * ERROR 020 on SELCOPY 2.00 and 2.01.
  then ...
```

2. WORKLEN is specified with a value which is less than the defined LRECL of any input file, with the exception of RECFM=F and VSAM input which is already handled by the long established "ERROR 066 - WORKLEN NOT GT LRECL". e.g.

```
read indd  into=21  worklen=100    * Allocated RECFM=V, LRECL=255.
                                   * Accepted  on SELCOPY 9.80,
                                   * ERROR 020 on SELCOPY 2.00 and 2.01.
```

SELCOPY 2.01 and SELCOPY 2.00 return the following error message:

```
ERROR 020 - POS/LRECL/INTO EXCEEDS WORKLEN
```

Corrective Action:
First verify whether WORKLEN is necessary and if not, remove WORKLEN=*x*. If required, specify WORKLEN=*x* where *x* is large enough to accommodate the input record and any user work fields.

Beware, when reading variable length records with WORKLEN=*x*, residue from records with length greater than the current input record should be cleared before testing field positions. e.g.

```
read indd   worklen=1000   * Allocated RECFM=V, LRECL=255.
pos LRECL+1, 255 = ' '     * Clear residue up to position 255.
```

Reason for change:
Testing bytes that fall outside the defined WORKLEN or input record (work area) cannot be intentional and is potentially confusing.

Reading a file with records that are potentially too long to fit within a user defined work area (WORKLEN=*x*) should not be accepted by SELCOPY.

2.0 New Facilities

2.1 SELCOPY Startup EXIT Routine

SELCOPY 2.01 supports a startup EXIT routine, CBLXS001 on all IBM Mainframe platforms.

This EXIT has been introduced as a result of user requests to be able to restrict SELCOPY SYSIN/SYSIPT input as only originating from a pre-defined list of source libraries.

With the enabler zap applied (see below), SELCOPY always attempts to load and then call the CBLXS001 exit with R1=0 to indicate control statements will be read from SYSIN/SYSIPT.

When SELCOPY is run interactively via CBLi, then CBLi will call the CBLXS001 exit with R1 pointing to the address/length pair of a field identifying the SELCOPY control statement source file. If the length of the field is less than or equal to 8 and contains no dots (qualifier separators), then the field contains a pre-allocated fname (ddname) which may reference a concatenation of fileids. Otherwise, the field contains a single explicit fileid.

The exit should return with R15 set to zero or unchanged to indicate successful validation of SYSIN/SYSIPT, or any other non-zero value to indicate SYSIN/SYSIPT is invalid. ERROR 023 will result if source is invalid.

In order to enable this new facility, apply the following zap.

```
VER   01F23C   47F0,72E0
REP   01F23C   4110,72B0
```

Once this zap is applied, you **must** ensure that the CBLXS001 MVS Load Module, VSE PHASE or CMS TEXT deck is available.

3.0 Other Changes

3.1 Dataset Corruption Prevented

For **MVS** only, output to an **existing** sequential, PDS or PDSE dataset using **WRITE fname LRECL=*m*** where no **RECFM** is specified, can no longer corrupt the dataset.

LRECL=*m* without RECFM on a SELCOPY input or output control statement implies **RECFM=F** as specified by SELCOPY I/O rule 6 under Important Changes.

This is potentially disasterous for MVS output, as the RECFM defined in the output dataset's DSCB is updated by the system to become RECFM=F when SELCOPY closes the file. If it is not already defined as being RECFM=F, then this causes the dataset to become corrupted.
For example, writing to a RECFM=V PDS member with RECFM=F would corrupt the entire PDS library.

SELCOPY 2.01 (and release 2.00 with s200z44 applied) introduces an exception to SELCOPY I/O rule 6 whereby, unless RECFM is undefined in the DSCB and JFCB, RECFM=F is **no longer** implied for MVS data set output. Instead, SELCOPY uses the RECFM defined in the JFCB if a DD JCL statement is supplied, otherwise the RECFM defined in the DSCB.

See also 1.2.1 RC=05 Truncation for VSAM.

3.2 SELCOPY 2.00 Zaps applied

Zap ID	Op. Sys.	Query Ref.	Description
S200z01	MVS	(SQ10762 - 2001/05/18)	Use of DD DUMMY on more than 1 output file gave ERROR 584. Same problem in release 9.8P but did not occur for 9.80 because it has no ERROR 584 check.
S200z02	All	(SQ10778 - 2001/05/29)	CVFC error converting numbers of the (decimal) form n.999999... which round up to the next integer. CVFC gives n instead of n+1. e.g. 69.99999999 converts to 69.0 instead of 70.0. Same problem in previous release.
S200z03	VSE	(SQ10791 - 2001/05/29)	DL/1 abend when only one PCB in the PSB. The 1st PCB is used as parm 2 in the GSCD call to get the SCD address. When the 1st PCB is the only PCB it has its high bit on which indicates last parm. This results in the GSCD call appearing to have only 2 parms and hence the abend. See also Zap 21.
S200z04	All	(SQ10793 - 2001/05/31)	ERROR 584 given erroneously if an output DSN is the same as the DSN on some other open file, but is on a different volume. Zap 04 checks the VolSer number too and bypasses the check if the VolSer is unknown. An advantageous side effect of Zap 04 is that Volume Serial numbers will be displayed on Selection Summary lines, following the DSN.
S200z05	All	(SQ10807 - 2001/06/01)	MOD stmt, with unusual reversed syntax where the first param is a literal defining the source field was accepted by S980 and S98P, but gives ERROR 045 for S200. e.g. "MOD 'LIT' POS=11" The bug was caused by a correction to accept the syntax "MOD 22 AT 100 XOR POS 201" as on the Unix and PC versions. Please note that even with Zap 05 applied, an unquoted numeric literal using reversed syntax, will still be treated as an error. e.g. "MOD 7 POS=11" will still fail.
S200z06	All	(SQ10819 - 2001/05/30)	MOD stmt, with FILL='*' or FILL='=' gets padded with "" chars instead of as requested. This bug was introduced with Zap 36 for S980 (Zap 31 for S98P), which fixed a problem when a blank-separated equals sign preceded the FILL argument.
S200z07	All	(SQ10831 - 2001/06/01)	REPORT HEAD usage caused modification of the time and date format in the heading to use the International format, e.g. "2001/05/31 22:53", instead of "22.53 THU 31 MAY 2001" as in the default heading for a 132 byte page width, in spite of the fact that PAGEWIDTH=n had not been changed from the default.
S200z08	VSE	(SQ10840 - 2001/06/01)	DL/1 abend DLZ133I occurs with batch MPS due to SELCOPY's erroneous attempt to use the GSCD function in that environment.
S200z09	VSE	(SQ10790 - 2001/06/04)	4367I RC=48 CVH PROCESS FAILURE during open after dynamic allocation of a DLBL for SELCNAM has been found on systems using either of the 3rd party products, EPIC or FAQS. Application of S200Z09 will not have any adverse effect on systems without 3rd party file management software. It simply zeroizes the Extent Sequence number in the dynamic DLBL to satisfy software that may be less tolerant than the IBM open routine.

Zap ID	Op. Sys.	Query Ref.	Description
S200z10	VSE	(SQ10820 - 2001/06/04)	Storage overwrite of 4 bytes, with unpredictable results, can occur under the following circumstances: 1. Running under VSE. 2. The CALL stmt must be used to invoke a separately compiled user routine. (No problem with the EXIT stmt.) 3. At the end of Control Card processing, SELCOPY releases 46k of its storage which becomes available for WORKLEN and I/O buffer allocation. If the combination of WORKLEN and I/O buffer requirements, excluding values greater than the length still unused, results in more than 38k of the 48k being used, then overwrite occurs. (These figures are approximate.) Same problem in S98P with Zap 16 applied.
S200z11	VSE	(SQ10860 - 2001/06/06)	0S03I Program Check interruption code 10 SEGMENT TRANSLATION EXCEPTION at offset X'348' in IBM's $IJBPROC when using the XV function in VSE. Problem caused by $IJBPROC getting into AMODE 31 incorrectly. Same problem in previous release.
S200z12	All	(SQ10873 - 2001/06/07)	ABEND 0C4 at offset 19966 in SELCOPY when an ELSEIF condition element (length X'60') is allocated at the end of a page and the next page is fetch protected. This problem can only occur for large SELCOPY programs (more than about 500 statements) that use ELSEIF. Even then, it will only happen if we are unlucky in the placement of the ELSEIF condition element control block. Same problem in previous release.
S200z13	All	(SQ10886 - 2001/06/11)	ASA0 option is required to revert to the S980 method of using an ASA char of C'0' for blank lines in SELCOPY's PRINT output, for users who post-process SELCOPY output. Zap 13 introduces OPT ASA0 and OPT NOASA0, which may be coded in the SELCOPY control cards, or in SELCNAM as an installation default.
S200z14	All	(SQ10945 - 2001/06/12)	The record format coded on a SELCOPY control stmt for a file will be ignored if all of the following are true: 1. Running under VSE, or processing an MVS unlabelled tape, where the RECFM is not available to SELCOPY from the system. 2. LRECL=V or LRECL=U is coded, meaning RECFM=V or U. 3. The open is deferred. either by coding the DEFER keyword, or from the presence of an explicit OPEN or CLOSE for the file in question, or by use of dynamic allocation. 4. RECFM is omitted. For input, the symptom is ERROR 502 - INP BLK NOT MULT OF LRECL, where the default of RECFM=F,LRECL=80 is used instead of that specified. For output, the symptom is wrong RECFM on the output file, defaulted to the RECFM of the prime input file. This problem could also be avoided by coding RECFM=x instead of LRECL=x to define record format.
S200z15	VSE	(SQ10950 - 2001/06/15)	Prevent EP075 ERROR LOCATING LABEL GROUP xxxx when using 3rd party product EPIC's simulated JCL concatenation.
S200z16	VSE	(SQ10881 - 2001/07/11)	4883I INVALID LOGICAL UNIT SELCNAM occurs on a multi-SELCOPY job where the 2nd or subsequent SELCOPY invocation follows a // RESET ALL command which has unassigned the programmer logical unit associated with the SELCNAM label. Zap 15 is a pre-requisite.
S200z17	MVS	(SQ10957 - 2001/07/11)	ABEND 0C4 at SELCOPY+4430 when using the LOG REPLY feature in batch MVS when the length of the reply given is greater than the length specified minus 2 (using REPLY n AT p).
S200z18	All	(SQ10968 - 2001/07/11)	ERROR 045 on a READ statement if both the following are true: 1. fname is part of an EQU stmt which also includes a keyword denoting the file organisation. e.g. KSDS. 2. A further keyword exists which is valid only for the file organisation specified in the EQU stmt, and whose argument is enclosed in quotes. e.g. STARTKEY = 'ABCD'
S200z19	VSE	(SQ10988 - 2001/07/11)	Volume serial number is not reported under the VOL/CAT header of the SELCOPY output summary when SYS=nn or DEV=cuu (i.e. not VOL=volser) is used to dynamically allocate a non-VSAM file. Same problem in previous release.
S200z20	VSE	(SQ10991 - 2001/07/11)	DL/1 processing erroneously gives LRECL=89 for every record read from the 2nd and susequent DL/1 files (DBDNAMEs). However, all records read from the 1st mentioned DL/1 file get the correct LRECL.

Zap ID	Op. Sys.	Query Ref.	Description
S200z21	VSE	(SQ10993 - 2001/07/25)	DL/1 processing issues a DUMP MACRO when SELCOPY calls DLZLI000 to establish the PST address for a database with a PL/1 PSB. Zap 03 is a pre-requisite.
S200z22	VSE	(SQ10958 - 2001/07/11)	VSAM UPDATE issued after a failed READ KEY causes storage to be overwritten which can result in garbage being printed in the summary after the ERROR 527 has been issued. Same problem in previous release.
S200z23	All	(SQ10995 - 2001/08/01)	ERROR 523 for an IF EOF test that specifies an undefined filename, reports the wrong filename in the error message, and gives no Selection Id. Also, RC=52 is given instead of RC=48. Same problem in previous release.
S200z24	All	(SQ11013 - 2001/08/10)	ZEROES is documented as a synonym for ZEROS but gives syntax ERROR 045. Same problem in previous release. Zap 28 must also be applied, in order to fix a problem introduced by Zap 24.
S200z25	All	(SQ11014 - 2001/08/10)	SPACE used with no argument results in the word being treated as a user label, instead of being treated as SPACE=1. Same problem in previous release.
S200z26	VSE	(SQ11004 - 2001/10/12)	TAPEnn file name is treated as a TAPE device despite the existance of a DLBL for TAPEnn. Similarly, file name without DEV=TAPE coded on the I/O statement is treated as a DISK file despite the existance of a TLBL for that file name. Same problem in previous release.
S200z27	All	(SQ11016 - 2001/08/13)	NOBAN option should be silently ignored for compatibility with the PC and Unix versions of SELCOPY. Also NOBANNER, BAN, and BANNER. Zap 13 is a pre-requisite. Same problem in previous release.
S200z28	All	(SQ11015 - 2001/08/13)	IF INCOUNT fname LT 2 gives ERROR 007 when Zap 24 is applied. This problem does not occur if Zap 24 is not applied. However, Zap 28 is self sufficient and may be applied with or without Zap 24.
S200z29	VSE	(SQ11012 - 2001/08/21)	Use of IJSYSIN on disk for control card input, under the control of the 3rd party product EPIC, results in blanking out some control cards in an apparently random fashion. Rerunning the job results in different records being blanked out.
S200z30	All	(SQ11027 - 2001/09/07)	Use of ADD/SUB with an INTO parameter which overlaps the field that is being ADDed/ SUBtracted gives wrong result. e.g. SUB 3 AT 1 FROM 2 AT 11 INTO 2 AT 2 Same problem in previous release.
S200z31	All	(SQ11029 - 2001/10/18)	ERROR 557 for a DB2 OPEN failure should not be issued for a LOCK condition, (SQL RC=-911), without first attempting 5 retries, each following a 3 second delay, to allow the locking process to end. Same problem in previous release.
S200z32	MVS	(SQ11035 - 2001/10/18)	Dynamic Allocation failures, due to the dataset being in use by another process, results in up to 10 retries. The intended delay of 3 seconds between retries did not occur.
S200z33	MVS	(SQ11036 - 2001/10/18)	Explicit OPEN of a DB2 table, using the OPEN stmt, causes a loop. Same problem in previous release.
S200z34	All	(SQ11038 - 2001/10/18)	PRINT TYPE=S with position 1 of the output area containing the ASA character '0' results in the ASA character being blanked out in the user's record/work area along with a blank line preceding the intended output line (as if SELCOPY were internally obeying the '0' ASA char). Zap 13 is a pre-requisite.
S200z35	VSE	(SQ11047 - 2001/10/18)	When SELCOPY is called from REXX, the REXX procedure was terminated with error ARX0980E. For VSE/SP2 or later systems, capable of receiving SELCOPY's return code at EOJ, return to the operating system was via the $IJBJCN transient phase, which eventually issues an SVC 14, which in turn has EOJ implications for SELCOPY called from REXX. Although callers of SELCOPY from REXX can overcome this problem by adding an entry in table ARXEOJTB for SELCOPY, Zap 35 makes this unnecessary by forcing SELCOPY to do a standard return which all modern VSE releases now support as for MVS.
S200z36	MVS	(SQ11065 - 2002/05/07)	An ENQ is applied to output files written to a PDS with the DISP=SHR attribute, in order to protect from simultaneous update by two users writing separate members to the same PDS. The ENQ was also wrongly applied to members of PDSEs which do not have the same restriction. Same problem in previous release.
S200z37	MVS	(SQ11078 - 2002/05/07)	"ATE " displayed instead of "2.00", the SELCOPY release no, in the header of the DB2 CBLSQLOG file.

Zap ID	Op. Sys.	Query Ref.	Description
S200z38	MVS	(SQ11116 - 2002/05/07)	ERROR 501 - BUFFER TOO SMALL FOR INP BLOCK should not be issued for PDSEs. For efficiency purposes, and to provide a BLKSIZE validation check, SELCOPY overrides the actual RECFM with RECFM=U and the BLKSIZE with BLKSIZE+1 If SELCOPY is successful in reading a block of length BLKSIZE+1 then ERROR 501 is issued. For RECFM=V PDSEs this is not a valid check since the input buffer will be filled with as many complete logical records able to fit. An input block of length BLKSIZE+1, if rare, is therefore valid. With this zap applied PDSE input is read using its genuine RECFM and BLKSIZE For RECFM=F PDSEs this zap will also result in considerable performance benefits, as the original technique's RECFM=U override resulted in unblocked input. Zap 36 is a pre-requisite. Same problem in previous release.
S200z39	All	(SQ11139 - 2002/05/07)	ERROR 064 given erroneously for ISAM output.
S200z40	All	(SQ11160 - 2002/05/07)	Incorrect SEGMENT Length for IMS/ESA 7.0 or later. May result in ERROR 576. Same problem in previous release.
S200z41	All	(SQ11158 - 2002/05/24)	CVCP (PACK) operation supports a maximum destination field length 16 bytes of packed data. CVPC (UNPK) operation only supports a maximum source field length of 8 bytes of packed data. S200Z41 extends the maximum source length for CVPC to 16 bytes in order to match CVCP. Same problem in previous release.
S200z42	All	(SQ11171 - 2003/02/21)	RECFM=U sequential file input where LRECL, but not BLKSIZE, is specified on the READ statement, should use BLKSIZE=LRECL instead of the device track capacity, FBA default or value returned in the DCB. ERROR 102 or ERROR 602 is now issued if LRECL and BLKSIZE are specified on a RECFM=U input statement where BLKSIZE and LRECL values are not equal. RECFM, LRECL and BLKSIZE on Native CMS READ is is still ignored. Same problem in previous release.
S200z43	All	(SQ11178 - 2003/02/21)	Where RECFM=V input record length is greater than the value coded on the LRECL parameter of a READ statement, the record is erronoeusly processed normally as though LRECL had not been specified. S200z43 causes ERROR 581 to be issued following a read of a RECFM=V record (not native CMS variable input which is RECFM=U) with an LRECL larger than the LRECL=n value quoted on the input statement. Same problem in previous release.
S200z44	MVS	(SQ11180 - 2003/02/21)	Output data set DCB RECFM value is erroneously updated to RECFM=F when LRECL=n is specified on the WRITE statement without RECFM. LRECL without RECFM on an MVS WRITE statement no longer forces RECFM=F. Same problem in previous release.
S200z45	MVS	(SQ11181 - 2003/02/21)	RECFM, BLKSIZE and/or LRECL on WRITE erroneously overrides existing DCB values for allocated data sets. In most cases, this renders existing data unreadable by the access method. Zap 45 introduces ERROR 582 if all the following are true: 1. Data set is a PDS/PDSE or DISP=MOD/SHR 2. Geom on WRITE differs to that in the DCB 3. DCB geom values are non-zero Please note that SELCOPY WRITE to sequential data sets with DISP=SHR no longer allows changes to RECFM, BLKSIZE and LRECL values in the DCB. Zap 42 is a pre-requisite. See also Zap 76. Same problem in previous release.
S200z46	VSE	(SQ11176 - 2002/06/21)	ERROR 501 returned for CMS guest VSE CKD disk file input (DOS=OFF) on VM/ESA 2.4 or later. Same problem in previous release.
S200z47	VSE	(SQ11193 - 2002/06/21)	ERROR 502 or ERROR 505 on input of file with BLKSIZE > 46456 and SYSRES device is a 3390 DASD. Same problem in previous release.
S200z48	MVS	(SQ11198 - 2002/06/21)	IEC141I 013-18 or ERROR 501 on re-open of a DDNAME which has been dynamically allocated to a PDS/PDSE using DSN specified as a field in the workarea, and DIRDATA is coded Same problem in previous release.

Zap ID	Op. Sys.	Query Ref.	Description
S200z49	MVS	(SQ11198 - 2002/06/21)	SELCOPY's dynamic allocation uses the FREE=CLOSE function to automatically unallocate the fname when it is closed. As well as freeing the fname for subsequent job steps, this allows another dataset to be dynamically allocated using that same fname (provided it follows an explicit SELCOPY statement to OPEN/ CLOSE fname). With APAR OW52822 applied FREE=CLOSE is no longer supported for VSAM files, so that SELCOPY's second and subsequent dynamic allocation on the same fname will always use the same DSN. This fix will free such files when a SELCOPY OPEN/CLOSE statement is executed, thus retaining the ability to handle multiple VSAM files using the same fname. Same problem in previous release.
S200z50	MVS	(SQ11198 - 2002/06/21)	0C4 or ERROR 505 on PDS DIRDATA where an OPEN statement without DIRDATA is processed prior to READ DIRDATA on the same fname. Same problem in previous release.
S200z51	All	(SQ11216 - 2002/07/26)	Packed Decimal data is returned on a CVCB (ConVert Character to Binary) operation for numerical character strings of length greater than 16 bytes, even if the string contains insignificant leading zeroes. See also Zap 58 and Zap 63 Same problem in previous release.
S200z52	All	(SQ11217 - 2002/07/26)	UXADIFF binary field is erroneosly updated following an IF RETCD/ INCOUNT/ LINE test. Same problem in previous release.
S200z53	All	(SQ11221 - 2002/07/26)	Following a padded compare, where field1 is shorter than field2 and field1 occupies the last positions of the work area and the first difference exists in the padded area of field1, then POS DIFF is set to a position outside the workarea. Attempts to update data at POS DIFF in this circumstance should fail and give RC=8. Same problem in previous release.
S200z54	All	(SQ11218 - 2002/07/26)	Following a padded compare, where field1 is shorter than field2 and the first difference exists in the padded area of field1, then POS DIFF is always set to the first position following field1. In this situation, S200Z54 forces POS DIFF to point at an offset from field1 equal to the offset of the mismatching data in field2 from the start of field2. Same problem in previous release.
S200z55	All	(SQ11227 - 2002/07/26)	ERROR 069 LENGTH PARAM REQD on MOVE even when source and/or destination fields are specified using POS p1 LEN n syntax. Same problem in previous release.
S200z56	MVS	(SQ11209 - 2002/09/20)	Test for operator command START is always false in applications that execute in job steps following a SELCOPY step. This is because SELCOPY, for efficiency purposes, frees all CIBs as it performs its scan for an operator STOP CIB. Same problem in previous release.
S200z57	MVS	(SQ11229 - 2002/09/20)	Execution of SELCOPY as a sub task is not correctly identified. IEE342I MODIFY REJECTED TASK BUSY is incorrectly returned from an operator MODIFY command when SELCOPY is run as a sub task. Same problem in previous release.
S200z58	All	(SQ11234 - 2002/09/20)	With S200Z51 applied, hexadecimal zeroes are returned for CVCP (ConVert Character to Packed) where character source data contains more than 15 numerical digits. S200Z58 corrects this so that a maximum of 256 numerical digits may be specified on CVCP with truncation of high order digits if necessary. Zap 51 is a pre-requisite. See also Zap 63
S200z59	MVS	(SQ11242 - 2002/11/15)	RECFM=F is forced for an output data set where RECFM is not already defined in the DCB and prime input is RECFM=V SYSIN CARD data. Output data sets should inherit geometry of the prime input file if DCB information is not available from any other source. Same problem in previous release.
S200z60	VSE	(SQ11256 - 2002/11/15)	With S200Z49 applied, 0S03I Program Check interruption code 01 OPERATION EXCEPTION at offset X'106B8' may occur on VSE sequential I/O when no VSAM file processing is performed in the same SELCOPY execution. S200Z49 branches into SELCOPY storage which, if no VSAM processing is involved, has been released and made available for WORKLEN and I/O buffer allocation.
S200z61	All	(SQ11266 - 2002/11/29)	Operation Exception at SELCOPY+3108 when EOF reached on prime input file while in SUSP state and, 1. an EOF test exists for prime input 2. another input file exists
S200z62	MVS	(SQ11265 - 2002/11/29)	POS DSN should be updated for each dataset in a JCL concatenated input file.
S200z63	All	(SQ11285 - 2003/01/10)	With S200Z51 applied, a character field is always treated as being positive if it contains non-significant leading zeroes immediately before a decimal point, despite the presence of a leading minus sign. Zap 51 is a pre-requisite. See also Zap 58
S200z64	MVS	(SQ11286 - 2003/01/10)	0C4 PROTECTION EXCEPTION or garbage data for input data set with ACCBIAS=SYSTEM (System Managed Buffering.) Input buffer addresses are now tested and ERROR 585 returned if above the 16MB line. Same problem in previous release.

Zap ID	Op. Sys.	Query Ref.	Description
S200z65	CMS	(SQ11311 - 2003/05/30)	No files selected when FM omitted from FN.FT.FM mask for DIR or DIRDATA input. FM now defaults to asterisk (*). Same problem in previous release.
S200z66	CMS	(SQ11143 - 2003/05/30)	Immediate End-of-File when Dynamic Allocation, with parameter DSN, is used to specify the file mask for DIR or DIRDATA input. Same problem in previous release.
S200z67	CMS	(SQ11330 - 2003/05/30)	CMS last command issued does not appear in the SELCOPY output listing file for current releases of VM/ESA. Same problem in previous release.
S200z68	MVS	(SQ11351 - 2004/07/29)	Allow ADABAS interface module SELCOPAD (ADAUSER) to be linked AMODE=31 (RMODE=ANY). Same problem in previous release.
S200z69	MVS	(SQ11353 - 2004/07/29)	ERROR 552 with ADABAS Error Code 25 when a SEARCH parameter is used on the first mentioned ADABAS read. Same problem in previous release.
S200z70	MVS	(SQ11358 - 2004/07/29)	ERROR 552 with ADABAS Error Code 55 when STARTKEY=nnn used to supply a non alphanumeric key. The application of this zap means that any STARTKEY argument must be provided using the standard format of the descriptor. Same problem in previous release.
S200z71	All	(SQ11373 - 2004/07/29)	New feature: POS DATE+68 references a 6-byte field containing 'Wk:nn ' where nn is the week of the year conforming to the ISO 8601 standard. i.e. Week numbers are 1-53, Monday is day 1 and Wk:01 is week containing Jan 04. cf. POS DATE+54 where valid weeks numbers are 0-52.
S200z72	MVS	(SQ11380 - 2004/07/29)	New feature: WR fname DSN= 'SYSOUT=x'.
S200z73	All	(SQ11417 - 2004/07/29)	IMS ABEND 476 on CHKP (checkpoint) for PL1 PSB. Same problem in previous release.
S200z74	All	(SQ11419 - 2004/07/29)	ERROR 026 occurs on a non-IMS/DL1 output statement that immediately follows a CHKP (checkpoint) operation. Same problem in previous release.
S200z75	All	(SQ11455 - 2005/02/15)	CANCELLED.
S200z76	All	(SQ11472 - 2005/02/16)	With Zap 45 applied, SELCOPY still allows over- write of existing DCB information via a WRITE operation to an MVS sequential data set with DISP=SHR. Zap 42 and Zap 45 are pre-requisite. Same problem in previous release.
S200z77	All	(SQ11470 - 2005/02/16)	CEE3191E User Abend when a SELCOPY CALL statement is used to call an LE compliant COBOL program which in turn calls a further program which is linked as AMODE(24). This zap forces the SELCOPY Language Environment interface module SELCOPLE to use the runtime options ALL31(OFF) and STACK(,,BELOW). Same problem in previous release.
S200z78	VSE	(SQ11464 - 2005/02/16)	SYSPUNCH output with DEFER option defaults to geometry of prime input. Same problem in previous release.
S200z79	VSE	(SQ11465 - 2005/02/16)	OPEN /CLOSE PUNCH should be treated as OPEN /CLOSE SYSPUNCH. Same problem in previous release.
S200z80	MVS	(SQ11483 - 2005/02/25)	READ/ WRITE fname, where fname is an ESDS, should not require the ESDS keyword. Prior to this zap SELCOPY was able to establish only that fname was VSAM, and performed an OPEN suitable for KSDS/RRDS files. With this zap applied SELCOPY is able to detect that fname is an ESDS following the initial incorrect OPEN, the file is then closed and suitably re -opened. Zap 49 is a pre -requisite. Same problem in previous release.
S200z81	MVS	(SQ11488 - 2005/03/17)	ERROR 557 DB2: OPEN FAILED with SQLCODE = -519, when using multiple concurrently open SELECT cursors which are explicitly CLOSEed and re-opened in an order other than the reverse of which they were originally opened. Same problem in previous release.
S200z82	All	(SQ11491 - 2005/09/09)	ERROR 082 - Duplicate label, occurs when one of OPT, OPTION or OPTIONS operation keywords is specified on multiple control statements with no parameters or with parameter NOPRINT (or its derivatives) only. In these cases the operation keyword is erroneously treated as a user label. Zap 82 reserves these keywords so that they may not be used as user labels. Please scan existing SELCOPY jobs for instances of OPT, OPTION or OPTIONS being deliberately used as a user label. These jobs will return ERROR 522 LABEL ON GOTO NOT FOUND if unchanged. Same problem in previous release.
S200z83	All	(SQ11503 - 2005/09/09)	Garbage beyond column 80 of SYSPRINT records for any zero length (blank) control statement of a RECFM=V SYSIN dataset.

Zap ID	Op. Sys.	Query Ref.	Description
S200z84	All	(SQ11508 - Unconfirmed)	Support user exit CBLXS001. Loads and calls the CBLXS001 exit with R1=0 to indicate control statements will be read from SYSIN/SYSIPT. The exit should return with R15 set to zero or unchanged to indicate validation of SYSIN/SYSIPT successful, or any other non-zero value to indicate SYSIN/SYSIPT is invalid. ERROR 023 will result if source is invalid.
S200z85	All	(SQ11507 - 2005/09/09)	Abend 0C4 or possible storage overwrite on input of DL1/IMS data base with segment length >8K and no WORKLEN specified. Same problem in previous release.
S200z86	All	(SQ11526 - 2005/09/09)	Abend 0C4 at SELCOPY+019D8C with Register 8 containing the characters ' NOP' at Register 7 pointing beyond the last 3 characters of a storage page. Problem occurs when a control statement token (or its EQUated result) is length < 3 and, as a function of dynamic storage management, occupies the last 2 bytes approaching a page boundary. Same problem in previous release.
S200z87	MVS	(SQ11525 - 2005/09/09)	On DB2 input for decimal columns with CHAR: 1. -4 is returned for columns defined as DEC(1,0). 2. Scale is lost for columns defined as DEC(n,1) or DEC(n,n) (i.e. precision = scale.) Same problem in previous release.
S200z88	MVS	(SQ11534 - 2005/09/21)	Report DB2 PREPARE and OPEN CPU times separately in CBLSQLOG.
S200z89	MVS	(SQ11540 - 2005/11/07)	CBLS011E - No cursor available for OPEN after 8 SQL SELECT statements have failed with a bad SQL return code.
S200z90	All	(SQ11544 - 2005/11/14)	Extention to S200z77. IGZ0033S (An attempt was made to pass a parameter address above 16 megabytes to an AMODE(24) program) when an AMODE(24) LE COBOL program called from SELCOPY in turn calls and passes addresses within its WORKING-STORAGE as paratemeters to another AMODE(24) program.
S200z91	MVS	(SQ11545 - 2005/11/14)	SELCOPLE module not deleted at EOJ. SELCOPY Interactive abends on second run of a Language Environment CALLing job.
S200z92	All	(SQ11546 - 2005/11/29)	ERR571 returned instead of ERR071 for file OPEN failure during control statement analysis. Same problem in previous release.
S200z93	MVS	(SQ11551 - 2006/01/03)	0C4 Abend for SQL clause that ends with ";" (semi-colon) which occurs on a page boundary during SELCOPY DB2 tokenisation. Same problem in previous release.
S200z94	MVS	(SQ11558 - 2006/02/03)	Incorrect segment length or 0C4 Abend for input via Circle Software's DL/2 interface to DB2 table data. Requires DL/2 software patch ref: FX230404. Same problem in previous release.
S200z95	MVS	(SQ11567 - 2006/04/11)	Possible Addressing/Protection Exception when CALLing a Language Environment compliant user program.