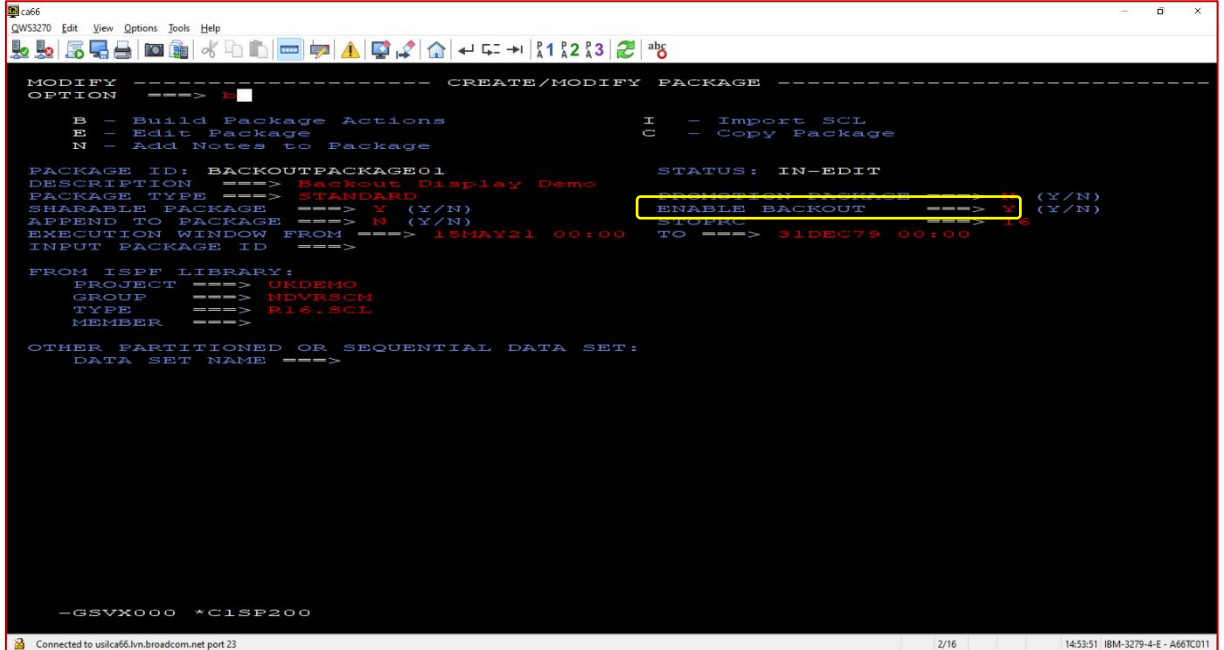


1. Create a Package with “Enable Backout” option active (Y):



```

ca66
QW53270 Edit View Options Tools Help

MODIFY ----- CREATE/MODIFY PACKAGE -----
OPTION ----> B

B - Build Package Actions          I - Import SCL
E - Edit Package                  C - Copy Package
N - Add Notes to Package

PACKAGE ID: BACKOUTPACKAGE01      STATUS: IN-EDIT
DESCRIPTION ----> Backout Display Demo  ENABLE BACKOUT ----> Y (Y/N)
PACKAGE TYPE ----> STANDARD              TOPRC ----> 16 (Y/N)
SHARABLE PACKAGE ----> Y (Y/N)
APPEND TO PACKAGE ----> N (Y/N)
EXECUTION WINDOW FROM ----> 15MAY21 00:00 TO ----> 31DEC79 00:00
INPUT PACKAGE ID ---->

FROM ISPF LIBRARY:
PROJECT ----> UNDEMO
GROUP ----> NDVRSCH
TYPE ----> R16.SCL
MEMBER ---->

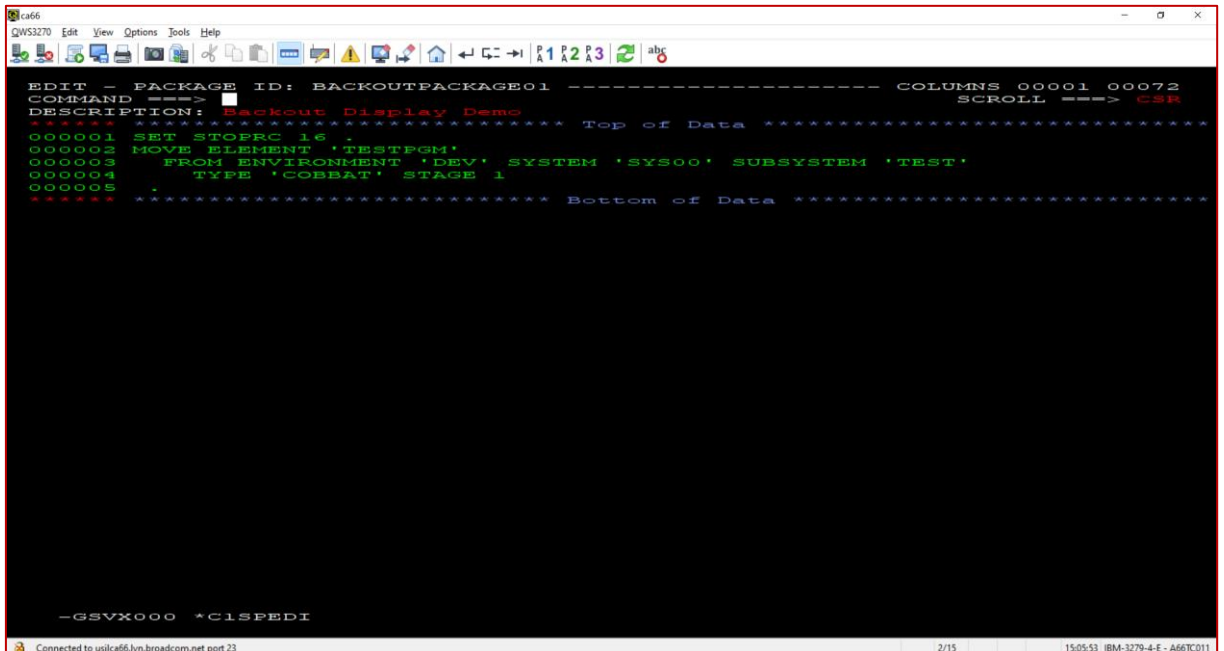
OTHER PARTITIONED OR SEQUENTIAL DATA SET:
DATA SET NAME ---->

-GSVX000 *C1SP200

Connected to usilca66.lvm.broadcom.net port 23 2/16 14:53:51 IBM-3279-4-E - A66TC011

```

2. Build the package with all the Elements that are needed:



```

ca66
QW53270 Edit View Options Tools Help

EDIT - PACKAGE ID: BACKOUTPACKAGE01 ----- COLUMNS 00001 00072
COMMAND ---->
DESCRIPTION: Backout Display Demo
***** Top of Data *****
000001 SET STOPRC 16
000002 MOVE ELEMENT 'TESTPGM'
000003 FROM ENVIRONMENT 'DEV' SYSTEM 'SYS00' SUBSYSTEM 'TEST'
000004 TYPE 'COBBAT' STAGE 1
000005
***** Bottom of Data *****

-GSVX000 *C1SPEDI

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```

3. CAST the package (and APPROVE it if it is required).

#### 4. Execute the Package:

```

ca66
QW53270 Edit View Options Tools Help
----- EXECUTE/SUBMIT PACKAGE -----
EXECUTE OPTION ==> [ ]
      E - Execute Package                      S - Submit Package

PACKAGE ID: BACKOUTPACKAGE01                STATUS: APPROVED
DESCRIPTION: Backout Display Demo            PROMOTION PKG: N
PACKAGE TYPE: STANDARD
SHARABLE PACKAGE: Y
EXECUTION WINDOW FROM ==> 15MAY21 00:00 TO ==> 31DEC79 00:00

      USER ID  DATE      TIME
CREATED:      15JUN21  13:54
LAST UPDATED: 15JUN21  15:17
CAST:         15JUN21  15:18
APPROVED:     15JUN21  15:18
EXECUTED:                                RC:

-GSVX000 *C1SP500

Connected to uslica66.lvn.broadcom.net port 23      2/15      16:17:58 IBM-3279-4-E - A46TC011

```

#### 5. Once the package is successfully executed, we can display the package status using the corresponding option in the main package panel:

```

ca66
QW53270 Edit View Options Tools Help
----- PACKAGE DISPLAY -----
DISPLAY OPTION ==> [ ]
      Blank - Display Action Summary          B - Display Data Set Backout Info
      A - Display Approvers                  BU - Display USS Backout Information
      R - Display Cast Report                SH - Display Ship Status Information
      N - Display Package Notes              H - Display Promotion History
      S - Display SCL

PACKAGE ID: BACKOUTPACKAGE01                STATUS: EXECUTED    SHARABLE PKG: Y
DESCRIPTION: Backout Display Demo            BACKOUT ENABLED: Y  ENTERPRISE PKG: N
PACKAGE TYPE: STANDARD
PROMOTION PKG: N
CA-7 SCHEDULED PKG EXEC JOB:
EXECUTION WINDOW FROM: 15MAY21 00:00          DEPENDENT JOB:
TO: 31DEC79 00:00

      USER ID  DATE      TIME
CREATED:      15JUN21  13:54
LAST UPDATED: 15JUN21  16:11
CAST:         15JUN21  16:11
APPROVED/DENIE 15JUN21  16:11
EXECUTED:      15JUN21  16:11
LAST SHIPPED:
BACKED OUT:
COMMITTED:

RC: 0004
DEST-ID:
BACKED IN:

GSVX000P *C1SP100 -DSLIST

Connected to uslica66.lvn.broadcom.net port 23      2/15      17:21:02 IBM-3279-4-E - A46TC011

```

6. In order to find out the members that have been backed-out and the libraries where they reside, we should select option B (Display Data Set Backout Info):

```

ca66
QW53270 Edit View Options Tools Help
----- PACKAGE DISPLAY -----
DISPLAY
OPTION ==> B

Blank - Display Action Summary
A - Display Approvals
R - Display Cast Report
N - Display Package Notes
S - Display SCL
PACKAGE ID: BACKOUTPACKAGE01
DESCRIPTION: Backout Display Demo
PACKAGE TYPE: STANDARD
PROMOTION PKG: N
CA-7 SCHEDULED PKG EXEC JOB:
EXECUTION WINDOW FROM: 15MAY21 00:00

B - Display Data Set Backout Info
BU - Display USS Backout Information
SH - Display Ship Status Information
H - Display Promotion History
STATUS: EXECUTED
SHARABLE PKG: Y
BACKOUT ENABLED: Y
ENTERPRISE PKG: N
DEPENDENT JOB:
TO: 31DEC79 00:00

USER ID DATE TIME
CREATED: 15JUN21 13:54
LAST UPDATED: 15JUN21 16:11
CAST: 15JUN21 16:11
APPROVED/DENIE 15JUN21 16:11
EXECUTED: 15JUN21 16:11
LAST SHIPPED:
BACKED OUT:
COMMITTED:

RC: 0004
DEST-ID:
BACKED IN:

GSVX000P *C1SP100 -DSLIST
Connected to uslca66.lvm.broadcom.net port 23 2/17 17:22:40 IBM-3279-4-E - A66TC011

```

The Members and libraries are shown:

```

ca66
QW53270 Edit View Options Tools Help
----- DATA SET BACKOUT INFORMATION ----- Row 1 to 7 of 7
DISPLAY
COMMAND ==> B
SCROLL ==> CDR

PACKAGE ID: BACKOUTPACKAGE01
DESCRIPTION: Backout Display Demo
PACKAGE TYPE: STANDARD
STATUS: EXECUTED

MEMBER BACKOUT STATUS DATE TIME DSNAME
TESTPGM 15JUN21 16:12 CADEMO.ENDV.PRCS.DEVINT.LOADBOO
TESTPGM 15JUN21 16:12 CADEMO.ENDV.PRCS.DEVINT.DB2BIND
TESTPGM 15JUN21 16:12 CADEMO.ENDV.PRCS.DEVINT.LIST
WSC1SHIP 15JUN21 16:12 CADEMO.ENDV.PRCS.DEVINT.COPY00
WSC1SHIP 15JUN21 16:12 CADEMO.ENDV.PRCS.DEVINT.COPY00
WSC1SHIP 15JUN21 16:12 CADEMO.ENDV.PRCS.DEVINT.CICSNEW
WSC1SHIP 15JUN21 16:12 CADEMO.ENDV.PRCS.DEVINT.LIST

----- Bottom of the List -----

GSVX000P *C1SP140 -DSLIST
Connected to uslca66.lvm.broadcom.net port 23 2/15 17:22:59 IBM-3279-4-E - A66TC011

```

7. If we look to the options available at the Package Display panel, option “BX” is not displayed. This option is hidden and is used to get the backout members name in the corresponding libraries:

```

ca66
QW53270 Edit View Options Tools Help
----- PACKAGE DISPLAY -----
OPTION ==> BX

Blank - Display Action Summary
A - Display Approvers
R - Display Cast Report
N - Display Package Notes
S - Display SCL
PACKAGE ID: BACKOUTPACKAGE01
DESCRIPTION: Backout Display Demo
PACKAGE TYPE: STANDARD
PROMOTION PKG: N
CA-7 SCHEDULED PKG EXEC JOB:
EXECUTION WINDOW FROM: 15MAY21 00:00

B - Display Data Set Backout Info
BU - Display USS Backout Information
SH - Display Ship Status Information
H - Display Promotion History
STATUS: EXECUTED
SHARABLE PKG: Y
BACKOUT ENABLED: Y
ENTERPRISE PKG: N
DEPENDENT JOB:
TO: 31DEC79 00:00

USER ID DATE TIME
CREATED: 15JUN21 13:54
LAST UPDATED: 15JUN21 16:11
CAST: 15JUN21 16:11
APPROVED/DENIED: 15JUN21 16:11
EXECUTED: 15JUN21 16:11
LAST SHIPPED:
BACKED OUT:
COMMITTED:

RC: 0004
DEST-ID:
BACKED IN:

GSVX000P *C1SP100 -DSL1ST

```

Connected to us1ca66.lvn.broadcom.net port 23 2/18 17:21:28 IBM-3279-4-E - A66TC011

Panel C1SP1500 (Package Backout Information) is displayed, showing the members Backed-out and the libraries where they are located. Under each Dataset Name, We can see a hexadecimal value compose of 16 hexadecimal digits (nibbles) or 8 bytes:

```

ca66
QW53270 Edit View Options Tools Help
----- PACKAGE BACKOUT INFORMATION ----- Row 1 to 7 of 7
COMMAND ==> SCROLL ==> CSR

PACKAGE ID: BACKOUTPACKAGE01
DESCRIPTION: Backout Display Demo
PACKAGE TYPE: STANDARD
STATUS: EXECUTED

Member Dataset Name
TESTPGM CADEMO.ENDV.PRC.S.DEVINT.LOADB00
TESTPGM CADEMO.ENDV.PRC.S.DEVINT.DB2BIND
TESTPGM TESTPGM FED3C2F6F1F3F4E8
TESTPGM CADEMO.ENDV.PRC.S.DEVINT.LIST
TESTPGM TESTPGM FED3C2F6F1F3F7C9
WSC1SHIP CADEMO.ENDV.PRC.S.DEVINT.COPY00
WSC1SHIP WSC1SHIP FED3C2F6F1F3C5F8
WSC1SHIP CADEMO.ENDV.PRC.S.DEVINT.COPY00
WSC1SHIP WSC1SHIP FED3C2F6F1F3C9F4
WSC1SHIP CADEMO.ENDV.PRC.S.DEVINT.CICSNEW
WSC1SHIP WSC1SHIP FED3C2F6F1F3D1D9
WSC1SHIP CADEMO.ENDV.PRC.S.DEVINT.LIST
WSC1SHIP WSC1SHIP FED3C2F6F1F3D2C3

----- Bottom of the List -----

-GSVX000 *C1SP150 ISR0PRIM

```

Connected to us1ca66.lvn.broadcom.net port 23 2/15 17:12:54 IBM-3279-4-E - A66TC011

The hexadecimal value represents the name of the Backout member expressed in EBCDIC character encoding (Zone/Digit). Using the following table, we can get the actual name of the member in the library:

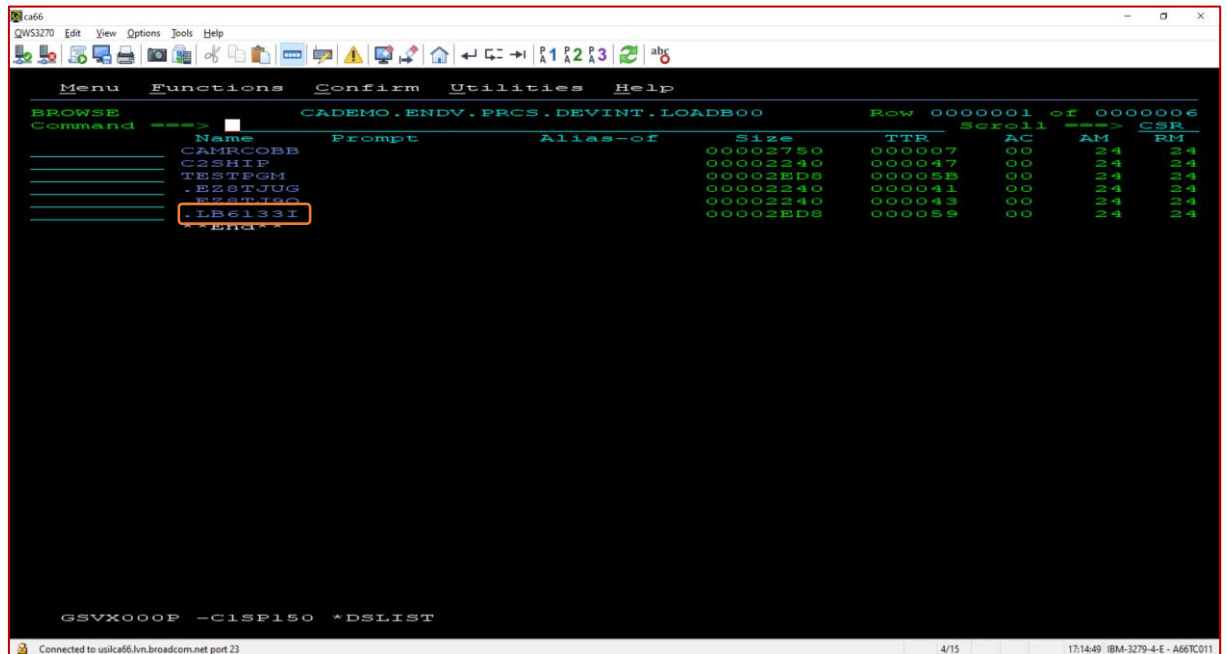
	1st hex digit															
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	NUL	DLE	DS		SP	&	-									0
1	SOH	DC1	SOS				/		a	j			A	J		1
2	STX	DC2	FS	SYN					b	k	s		B	K	S	2
3	ETX	TM							c	l	t		C	L	T	3
4	PF	RES	BYP	PN					d	m	u		D	M	U	4
5	HT	NL	LF	RS					e	n	v		E	N	V	5
6	LC	BS	ETB	UC					f	o	w		F	O	W	6
7	DEL	IL	ESC	EOT					g	p	x		G	P	X	7
8		CAN							h	q	y		H	Q	Y	8
9		EM							i	r	z		I	R	Z	9
A	SMM	CC	SM		C CENT	!		:								
B	VT	CU1	CU2	CU3		\$	.	#								
C	FF	IFS		DC4	<	*	%	@								
D	CR	IGS	ENQ	NAK	(	)	_	'								
E	SO	IRS	ACK		+	:	>	=								
F	SI	IUS	BEL	SUB		-	?	"								

Using as an example the first hex value in the above screenshot (**FED3C2F6F1F3F3C9**), the first byte 'FE' will be represented under ISPF editor as character '.' and the remaining bytes 'D3C2F6F1F3F3C9' will be translated to the EBCDIC characters according to the encoding table.

Therefore, the hex value **FED3C2F6F1F3F3C9** equivalence would be **.LB6133I** in EBCDIC.



8. Browsing the library associated to the member with the hex value described before, we will be able to find the Backout member:



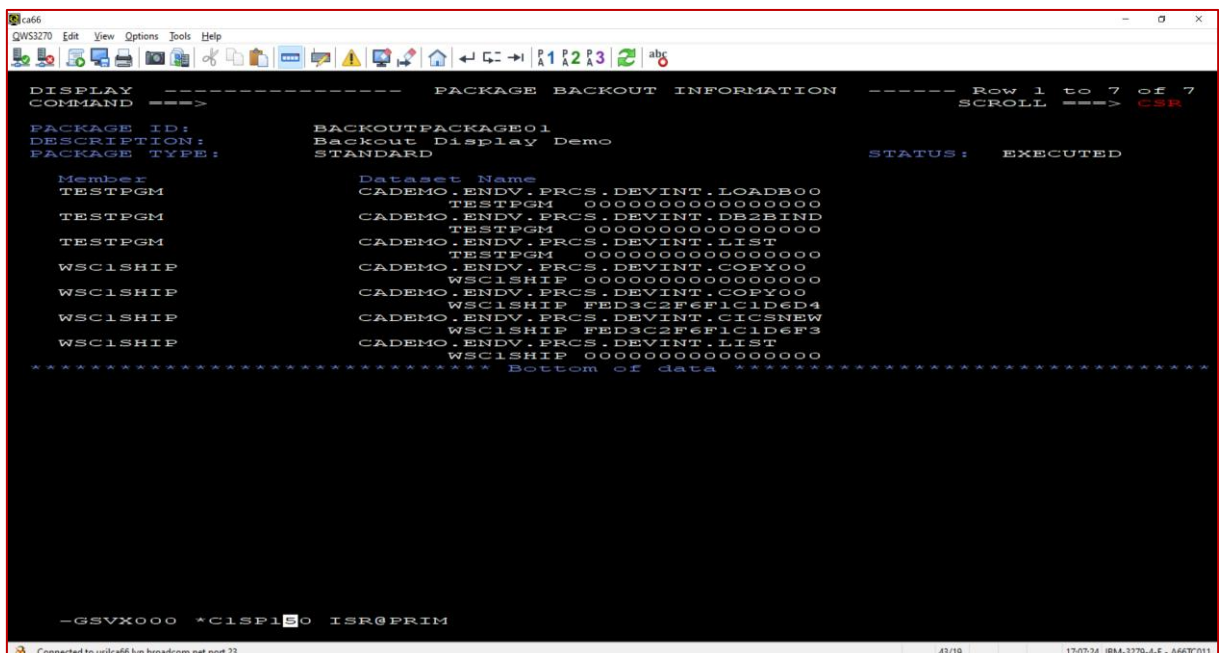
The screenshot shows the CA66 interface with a list of members. The member 'LB6133I' is highlighted in the list. The list includes columns for Name, Prompt, Alias-of, Size, TTR, Scroll, AC, AM, and CSR.

Name	Prompt	Alias-of	Size	TTR	Scroll	AC	AM	CSR
CAMRCOBB			00002750	000007	00	24	24	24
C2SHIP			00002240	000047	00	24	24	24
TESTPGM			00002ED8	00005B	00	24	24	24
.EZSTJUG			00002240	000041	00	24	24	24
.EZAT190			00002240	000043	00	24	24	24
.LB6133I			00002ED8	000059	00	24	24	24

Command: LB6133I

GSVX000P -C1SP150 \*DSLST

**Note:** When it is the first time a member is generated in the output dataset with Backout option enabled, the hex value shown in the Backout Information panel will be an 8-byte string of zeroes



The screenshot shows the CA66 interface with the BACKOUT PACKAGE INFORMATION panel. The package ID is 'BACKOUTPACKAGE01' and the status is 'EXECUTED'.

Member	Dataset Name
TESTPGM	CADEMO.ENDV.PRC.S.DEVINT.LOADB00
TESTPGM	TESTPGM 00000000000000000000
TESTPGM	CADEMO.ENDV.PRC.S.DEVINT.DB2BIND
TESTPGM	TESTPGM 00000000000000000000
TESTPGM	CADEMO.ENDV.PRC.S.DEVINT.LIST
TESTPGM	TESTPGM 00000000000000000000
WSC1SHIP	CADEMO.ENDV.PRC.S.DEVINT.COPY00
WSC1SHIP	WSC1SHIP 00000000000000000000
WSC1SHIP	CADEMO.ENDV.PRC.S.DEVINT.COPY00
WSC1SHIP	WSC1SHIP FED3C2F6F1C1D6D4
WSC1SHIP	CADEMO.ENDV.PRC.S.DEVINT.CICSNEW
WSC1SHIP	WSC1SHIP FED3C2F6F1C1D6F3
WSC1SHIP	CADEMO.ENDV.PRC.S.DEVINT.LIST
WSC1SHIP	WSC1SHIP 00000000000000000000

\*\*\*\*\* Bottom of data \*\*\*\*\*

-GSVX000 \*C1SP150 ISR@PRIM