GnuCOBOL Sample Programs For Version 3.2 - Final [29 June 2024 at 16:35 GMT.], for 3.3 and 4.0 (partial & tentative only).

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Table of Contents

1	FileStat-Msgs
2	COBDUMP
3	Colors
4	DAY-FROM-DATE 33
5	GCic 37
6	STREAMIO
7	GNU Free Documentation License 163

1 FileStat-Msgs

The FileStat-Msgs.cpy copybook contains an EVALUATE statement to translate the two-digit file status codes that may be generated by file I/O statements.

The copybook assumes that the file status data item name is "STATUS" and the error message data item is named "MSG". By using the COPY statement's REPLACING clause, however, you may use the data names you wish, as follows:

```
COPY FileStat-Msgs
REPLACING STATUS BY file-status-data-item-name
MSG BY error-message-data-item-name
```

Here's the current FileStat-Msgs.cpy copybook:

EVALUATE STATUS

```
WHEN OO MOVE 'SUCCESS
                                        , TO MSG
WHEN 02 MOVE 'SUCCESS DUPLICATE
                                        , TO MSG
WHEN 04 MOVE 'SUCCESS INCOMPLETE
                                        , TO MSG
                                       , TO MSG
WHEN 05 MOVE 'SUCCESS OPTIONAL
                                       , TO MSG
WHEN 06 MOVE 'LS Multiple records
                                        , TO MSG
WHEN 07 MOVE 'SUCCESS NO UNIT
WHEN 10 MOVE 'END OF FILE
                                       ' TO MSG
WHEN 14 MOVE 'OUT OF KEY RANGE
                                       , TO MSG
WHEN 21 MOVE 'KEY INVALID
                                        , TO MSG
WHEN 22 MOVE 'KEY EXISTS
                                       ' TO MSG
WHEN 23 MOVE 'KEY NOT EXISTS
                                        , TO MSG
WHEN 24 MOVE 'KEY BOUNDARY VIOLATION
                                       , TO MSG
WHEN 30 MOVE 'PERMANENT ERROR
                                        , TO MSG
WHEN 31 MOVE 'INCONSISTENT FILENAME
                                        , TO MSG
WHEN 34 MOVE 'BOUNDARY VIOLATION
                                        , TO MSG
                                       , TO MSG
WHEN 35 MOVE 'FILE NOT FOUND
WHEN 37 MOVE 'PERMISSION DENIED
                                       , TO MSG
WHEN 38 MOVE 'CLOSED WITH LOCK
                                        , TO MSG
WHEN 39 MOVE 'CONFLICT ATTRIBUTE
                                        , TO MSG
WHEN 41 MOVE 'ALREADY OPEN
                                        , TO MSG
WHEN 42 MOVE 'NOT OPEN
                                        , TO MSG
WHEN 43 MOVE 'READ NOT DONE
                                        , TO MSG
WHEN 44 MOVE 'RECORD OVERFLOW
                                        , TO MSG
WHEN 46 MOVE 'READ ERROR
                                        , TO MSG
WHEN 47 MOVE 'INPUT DENIED
                                        , TO MSG
WHEN 48 MOVE 'OUTPUT DENIED
                                        , TO MSG
WHEN 49 MOVE 'I/O DENIED
                                        , TO MSG
WHEN 51 MOVE 'RECORD LOCKED
                                       , TO MSG
WHEN 52 MOVE 'END-OF-PAGE
                                       , TO MSG
WHEN 57 MOVE 'I/O LINAGE
                                        , TO MSG
WHEN 61 MOVE 'FILE SHARING FAILURE
                                        , TO MSG
                                       , TO MSG
WHEN 71 MOVE 'BAD CHARACTER
WHEN 91 MOVE 'FILE NOT AVAILABLE
                                       , TO MSG
```

WHEN OTHER MOVE 'UNKNOWN ERROR ' TO MSG ${\tt END-EVALUATE}$.

2 COBDUMP

COBDUMP is a useful little utility subroutine to produce a formatted hexadecimal and character dump of the data area passed to it.

If you follow the GnuCOBOL forums, you've undoubtedly heard about the CBL_OC_DUMP subroutine that was the winning entry in a GnuCOBOL programming contest. It's a great tool for producing data dumps, and it's now included in the official GnuCOBOL distributions.

For now though, I'll keep using my good ol' "COBDUMP" routine. It's been my travelling companion from COBOL job to COBOL job since 1971. Here it is, all tuned up for GnuCOBOL, with new tires and a fresh coat of paint.

In addition to general GnuCOBOL concepts, this program provides a useful demonstration of the following:

- Coding a GnuCOBOL subroutine
- Using USAGE POINTER data items
- Using the ANY LENGTH data item attribute
- Coding for an OPTIONAL subprogram argument
- Using the NUMBER-OF-CALL-PARAMETERS special register
- Using the C\$PRINTABLE built-in system subroutine

The program source and cross-reference listing, produced using the GnuCOBOL Interactive Compiler front-end (GCic.cbl, one of the sample programs included here), begins on the next page.

GNUCOBOL 3.1.2 06MAR202 Source Listing

2022/03/06 COBDUMP.cbl

Line	Statement	COBDUMP.cbl Page: 1
1	>>SOURCE FORMAT IS FIXED	
2	IDENTIFICATION DIVISION.	
3	PROGRAM-ID. COBDUMP.	
4	*>*************************************	*
5	*> This is an OpenCOBOL subroutine that will generate a *	*
6	<pre>*> formatted Hex/Char dump of a storage area. To use this *</pre>	*
7	<pre>*> subroutine, simply CALL it as follows: **</pre>	*
8	*> *-	*
9	*> CALL "COBDUMP" USING <data-item> *</data-item>	*
10	*> [<length>] *</length>	
11	*> **	
12	*> If specified, the <length> argument specifies how many *</length>	
13	*> bytes of <data-item> are to be dumped. If absent, all of *</data-item>	
14	*> <data-item> will be dumped (i.e. LENGTH(<data-item>) will *</data-item></data-item>	
15	*> be assumed for <length>). **</length>	
16	*> **	
17	*> >>> Note that the subroutine name MUST be specified in <<< *	
18	*> >>> UPPERCASE	
19	*> **	
20	*> The dump is generated to STDERR, so you may pipe it to a *	
21	*> file when you execute your program using "2> file". *	
22	*> *	
23	*> AUTHOR: GARY L. CUTLER *:	
24	*> **	
25 26	*> NOTE: The author has a sentimental attachment to *: *> this subroutine - it's been around since 1971 *:	
27		
28	<pre>*> and it's been converted to and run on 10 dif- * *> ferent operating system/compiler environments *</pre>	
29	*> refer to operating system/ compiler environments **	
30	*> DATE-WRITTEN: October 14, 1971 **	
31	*> *> *	
32	*>************************************	
33	*> DATE CHANGE DESCRIPTION *-	
34	*> =====	
35	*> GC1071 Initial coding - Univac Dept. of Defense COBOL '68 *	*
36	*> GC0577 Converted to Univac ASCII COBOL (ACOB) - COBOL '74 *	*
37	*> GC1182 Converted to Univac UTS4000 COBOL - COBOL '74 w/ *	*
38	*> SCREEN SECTION enhancements **	*
39	*> GC0883 Converted to Honeywell/Bull COBOL - COBOL '74 *	*
40	*> GC0983 Converted to IBM VS COBOL - COBOL '74 *	*
41	*> GC0887 Converted to IBM VS COBOL II - COBOL '85	*
42	*> GC1294 Converted to Micro Focus COBOL V3.0 - COBOL '85 w/ *	*
43	*> extensions **	*
44	*> GCO703 Converted to Unisys Universal Compiling System (UCS) *	*
45	*> COBOL (UCOB) - COBOL '85 *:	*
46	*> GC1204 Converted to Unisys Object COBOL (OCOB) - COBOL 2002 *	
47	*> GC0609 Converted to OpenCOBOL 1.1 - COBOL '85 w/ some COBOL *	*
48	*> 2002 features **	*
49	*> GC0410 Enhanced to make 2nd argument (buffer length) **	*
50	*> optional **	*
51	*> GCO211 Ported to IBM Enterprise COBOL **	
52	*> GCO612 Updated for OpenCOBOL 2.0 **	
53	*> VC0322 Moved lines only with . to end of previous statement *	*

GNUCOBOL 3.1.2 06MAR202 Source Listing

2022/03/06 COBDUMP.cbl

Line	Statement			CUBDUMP.cbl Page: 2
54		Fix for bug #816 by making WS-	Byte-NUM	**
55	*>	UNSIGNED		**
56	*>**	***********	********	***
57	ENV	TRONMENT DIVISION.		
58	CON	FIGURATION SECTION.		
59	REP	OSITORY.		
60		FUNCTION ALL INTRINSIC.		
61	DAT	A DIVISION.		
62	WOR	KING-STORAGE SECTION.		
63	01	WS-Addr-PTR	USAGE POINTER.	
64	01	WS-Addr-NUM REDEFINES WS-Addr-PTR		
65			USAGE BINARY-LONG.	
66				
67	01	WS-Addr-SUB	USAGE BINARY-CHAR.	
68				
69	01	WS-Addr-Value-NUM	USAGE BINARY-LONG.	
70				
71		WS-Buffer-Byte-CHR.		
72		05 WS-Buffer-Byte-NUM	USAGE BINARY-CHAR	
73			UNSIGNED.	
74			0112 1 41122 1	
75		WS-Buffer-Length-NUM	USAGE BINARY-LONG.	
76		"B Bullot Bongon Non	oblide billion bolid.	
77		WS-Buffer-SUB	PIC 9(4) COMP-5.	
78		WD Duffer DOD	110 5(4) Oom 5.	
79		WS-Hex-Digit-TXT VALUE '0123456789A	RCDEE,	
80		05 WS-Hex-Digit-CHR	OCCURS 16 TIMES	
81		00 WB HEX BIGIT OHL	PIC X(1).	
82			110 K(1).	
83		WS-Nibble-SUB	PIC 9(1) COMP-5.	
84		WB NIDDIE BOD	110 9(1) COM 5.	
85		WS-Nibble-Left-SUB	PIC 9(1) COMP-5.	
86		M2-NIDDIe-Felt-20B	FIC 9(1) COMF-5.	
87		UC-Nibble-Dight-CHD	DIC O(1) COMD_E	
		WS-Nibble-Right-SUB	PIC 9(1) COMP-5.	
88		UC Output Datail TVT		
89		WS-Output-Detail-TXT.		
90		05 WS-OD-Addr-TXT.	OCCUDE O TIMES DIC 3	7
91		10 WS-OD-Addr-Hex-CHR	OCCURS 8 TIMES PIC >	Λ.
92		05 FILLER	PIC X(1).	
93		05 WS-OD-Relative-Byte-NUM	PIC Z(3)9.	
94		05 FILLER	PIC X(1).	
95		05 WS-OD-Hex-TXT	OCCURS 16 TIMES.	
96		10 WS-OD-Hex-1-CHR	PIC X.	
97		10 WS-OD-Hex-2-CHR	PIC X.	
98		10 FILLER	PIC X.	
99		05 WS-OD-ASCII-Data-TXT.	OGGUDG 46 MINDS	
100		10 WS-OD-ASCII-CHR	OCCURS 16 TIMES	
101		ua a aup	PIC X.	
102		WS-Output-SUB	PIC 9(2) COMP-5.	
103				
104		OURCE FORMAT IS FREE		
105		WS-Output-Header-1-TXT.	<u>.</u>	
106		05 VALUE '<-Addr-> Byte <	Hexadecimal ''	> <

GNUCOBOL 3.1.2 O6MAR202 Source Listing

2022/03/06 COBDUMP.cbl

Line	Statement	Page: 3
107	- Char>' PIC X(80).	========
108		
109		
110	1	
	======, PIC X(80).	
112		
113		
114		
115		
116		
117	O1 L-Buffer-Length-NUM USAGE BINARY-LONG.	
118		
119	PROCEDURE DIVISION USING L-Buffer-TXT,	
120		
121	<u> </u>	
122	IF NUMBER-OF-CALL-PARAMETERS = 1	
123	MOVE LENGTH(L-Buffer-TXT) TO WS-Buffer-Length-NUM	
124	-	
125	MOVE L-Buffer-Length-NUM TO WS-Buffer-Length-NUM	
126	END-IF	
127	MOVE SPACES TO WS-Output-Detail-TXT	
128	SET WS-Addr-PTR TO ADDRESS OF L-Buffer-TXT	
129	PERFORM 100-Generate-Address	
130	MOVE O TO WS-Output-SUB	
131	DISPLAY WS-Output-Header-1-TXT UPON SYSERR	
132	DISPLAY WS-Output-Header-2-TXT UPON SYSERR	
133	PERFORM VARYING WS-Buffer-SUB FROM 1 BY 1	
134	UNTIL WS-Buffer-SUB > WS-Buffer-Length-NUM	
135	ADD 1 TO WS-Output-SUB	
136	IF WS-Output-SUB = 1	
137	MOVE WS-Buffer-SUB TO WS-OD-Relative-Byte-NUM	
138	END-IF	
139		
140	TO WS-OD-ASCII-CHR (WS-Output-SUB)	
141	WS-Buffer-Byte-CHR	
142	DIVIDE WS-Buffer-Byte-NUM BY 16	
143		
144	6	
145		
146	8	
147	9	
148	•	
149	, , , , , , , , , , , , , , , , , , , ,	
150	<u>.</u>	
151	•	
152		
153	•	
154	• • • • • • • • • • • • • • • • • • •	
155	•	
156		
157		
158		
159	END-PERFORM	

GNUCOBOL 3.1.2 O6MAR202 Source Listing

2022/03/06 COBDUMP.cbl Page: 4

Line	Statement	Page: 4
=====		========
160		
161	CALL "C\$PRINTABLE" USING WS-OD-ASCII-Data-TXT	
162	DISPLAY WS-Output-Detail-TXT UPON SYSERR	
163	END-IF	
164	EXIT PROGRAM.	
165		
166	100-Generate-Address SECTION.	
167	MOVE 8 TO WS-Addr-SUB	
168	MOVE WS-Addr-NUM TO WS-Addr-Value-NUM	
169	MOVE ALL 'O' TO WS-OD-Addr-TXT	
170	PERFORM WITH TEST BEFORE UNTIL WS-Addr-Value-NUM = 0	
171	DIVIDE WS-Addr-Value-NUM BY 16	
172	GIVING WS-Addr-Value-NUM	
173	REMAINDER WS-Nibble-SUB	
174	ADD 1 TO WS-Nibble-SUB	
175	MOVE WS-Hex-Digit-CHR (WS-Nibble-SUB)	
176	TO WS-OD-Addr-Hex-CHR (WS-Addr-SUB)	
177	SUBTRACT 1 FROM WS-Addr-SUB	
178	END-PERFORM	
179		

GNU COBOL 2.1 23NOV2013 Cross-Reference Listing

2014/03/27

PROGRAM-ID	Identifier/Register/Function	Defn	10/Documents/Pro Where Defined	Reference	s	Page: 5
COBDUMP	000-Main		PROCEDURE			
COBDUMP	100-Generate-Address	161	PROCEDURE	124	152	
COBDUMP	L-Buffer-Length-NUM	112	LINKAGE	115	120	
COBDUMP	L-Buffer-TXT	110	LINKAGE	114	118	123
				134		
COBDUMP	NUMBER-OF-CALL-PARAMETERS		PROCEDURE	117		
COBDUMP	WS-Addr-NUM	61	WORKING-STORAGE	163		
COBDUMP	WS-Addr-PTR	60	WORKING-STORAGE	61	123*	151*
COBDUMP	WS-Addr-SUB	64	WORKING-STORAGE		171	172
COBDUMP	WS-Addr-Value-NUM	66	WORKING-STORAGE		165	166
				167*		
COBDUMP	WS-Buffer-Byte-CHR	68	WORKING-STORAGE	136		
COBDUMP	WS-Buffer-Byte-NUM	69	WORKING-STORAGE	137		
COBDUMP	WS-Buffer-Length-NUM	71	WORKING-STORAGE	118*	120*	129
COBDUMP	WS-Buffer-SUB	73	WORKING-STORAGE	128*	129	132
				134		
COBDUMP	WS-Hex-Digit-CHR	76	WORKING-STORAGE	142	144	170
COBDUMP	WS-Hex-Digit-TXT	75	WORKING-STORAGE			
COBDUMP	WS-Nibble-Left-SUB	81	WORKING-STORAGE	138*	140*	142
COBDUMP	WS-Nibble-Right-SUB		WORKING-STORAGE	139*	141*	144
COBDUMP	WS-Nibble-SUB	79	WORKING-STORAGE	168*	169*	170
COBDUMP	WS-OD-Addr-Hex-CHR	87	WORKING-STORAGE	171*		
COBDUMP	WS-OD-Addr-TXT		WORKING-STORAGE	164*		
COBDUMP	WS-OD-ASCII-CHR	96	WORKING-STORAGE	135*		
COBDUMP	WS-OD-ASCII-Data-TXT	95	WORKING-STORAGE	147C	156C	
COBDUMP	WS-OD-Hex-1-CHR	92	WORKING-STORAGE	143*		
COBDUMP	WS-OD-Hex-2-CHR		WORKING-STORAGE	145*		
COBDUMP	WS-OD-Hex-TXT		WORKING-STORAGE			
COBDUMP	t WS-OD-Relative-Byte-NUM		WORKING-STORAGE	132*		
COBDUMP	WS-Output-Detail-TXT	85	WORKING-STORAGE	122*	148	149*
				157		
COBDUMP	WS-Output-Header-1-TXT		WORKING-STORAGE	126		
COBDUMP	WS-Output-Header-2-TXT		WORKING-STORAGE	127		
COBDUMP	WS-Output-SUB	99	WORKING-STORAGE	125*	130*	131

3 Colors

Colors is a handy little GnuCOBOL utility program that will produce a screen showing all possible combinations of:

- FOREGROUND-COLOR
- BACKGROUND-COLOR
- BLINKING (or absence of BLINKING)
- HIGHLIGHT, LOWLIGHT or absence of either (i.e. "Normal")
- REVERSE-VIDEO

Here is a sample of the screen generated by this program:



The program source and cross-reference listing, produced using the cobxref, begins on the next page.

28 September 2024 Chapter Colors

ACS Cobo	l Xref v2.02.02	D:	iction	nary l	File	for CO	OLORS	0.	7/12/	2019	16:5	57:00:	:16
1	>>SOURCE FREE												
2	IDENTIFICATION DIVIS												
3	PROGRAM-ID. colors.												
4	DATA DIVISION.												
5	WORKING-STORAGE SECT	מחדי											
6	SCREEN SECTION.	10111											
7	01 S-COLORTST-SCR BA	CKGBOI	IND-C	T.OR () FOR	FCROIII	ID-COI	OR 7	RI.AN	IK SCRI	ZEN		
8	05 LINE 01.	101101101	OND O	JIOIC V	J 1 01	шаноон	10 00	1010	Бынг	5016	JUIV .		
9	10 COL 1 VALUE ' LOW	и тант			нтсн	п тант	I UMI	тснт			нтсь	и тент	Γ,
10	05 LINE + 1.	LIGHT			III GI	LIGHT	LOW	31 UII I			11101	ILI GIII	
11	10 COL 1 VALUE '												,
12	05 LINE + 1.												•
13	10 COL 1 VALUE '						RE	/FRSE	RF	EVERSE	RF	EVERSE	7)
14	05 LINE + 1.						1411	V LICOL	161	VLICEL	101	JVIIIOI	
15	10 COL 1 VALUE ' 012	34567	0123	84567	012	34567	012	34567	012	34567	013	234567	7)
16	05 LINE + 1.	.01001	VIZ	71001	012	.01001	0120	1001	012	.0 1001	012	201001	•
17	10 COL 1 VALUE '0		0		0		0		0		0		, .
18	05 LINE + 1.		Ü		Ü		Ü		•		•		•
19	10 COL 1 VALUE '1		1		1		1		1		1		, .
20	05 LINE + 1.		-		_		1		_		_		•
21	10 COL 1 VALUE '2		2		2		2		2		2		, .
22	05 LINE + 1.		2		2		2		2		2		•
23	10 COL 1 VALUE '3	1	3	2	3	3	3	4	3	5	3	6	, .
24	05 LINE + 1.	1	5	2	5	3	5	7	5	5	3	U	•
25	10 COL 1 VALUE '4		4		4		4		4		4		, .
26	05 LINE + 1.		4		4		4		4		4		•
20 27	10 COL 1 VALUE '5		5		5		5		5		5		, .
28	05 LINE + 1.		5		5		5		5		5		•
29	10 COL 1 VALUE '6		6		6		6		6		6		, .
30	05 LINE + 1.		U		U		U		U		U		•
31	10 COL 1 VALUE '7		7		7		7		7		7		, .
32	05 LINE + 1.		'		'		'		'		'		•
33	10 COL 1 VALUE ' LOV	и тент			нтсн	п тент	T OW	тсит			нтсь	и тент	Γ,
34	05 LINE + 1.	LLGIII			IIIGI	LIGIII	LOW	_1G111			111.01	ILIGII.	•
35	10 COL 1 VALUE '	BI TMK	ī	OI TMV		BLIMK	1	BLINK		BLINK		BLINE	,
36	05 LINE + 1.	DLIME		PTIMIZ		DLIMI		TIMI		DLIME		DLIM	٠.
37	10 COL 1 VALUE '						DE	/ERSE	DE	EVERSE	DI	EVERSE	,
38	05 LINE + 1.						1615	تا (11 اتا ۱	161	تا (۱۱۵ تا ۱۷	161	. 4 171701	
39	10 COL 1 VALUE ' 012	34567	0123	84567	012	34567	012	34567	012	34567	013	234567	7,
40	05 LINE + 1.	.01001	0120	1001	012	.04001	012	J-1001	012	20-1001	012	20-1001	•
41	10 COL 1 VALUE '0		0		0		0		0		0		,
42	05 LINE + 1.		O		O		U		U		O		•
43	10 COL 1 VALUE '1		1		1		1		1		1		, .
44	05 LINE + 1.		1		_		1		_		_		•
44 45	10 COL 1 VALUE '2		2		2		2		2		2		, .
46	05 LINE + 1.		۷		2		2		2		2		•
46	10 COL 1 VALUE '3	7	3	8	3	9	3	10	3	11	3	12	, .
48	05 LINE + 1.	'	J	5	J	9	J .	10	J	11	J	12	•
49	10 COL 1 VALUE '4		4		4		4		4		4		, .
50	05 LINE + 1.		-		-		I		-		-		•
51	10 COL 1 VALUE '5		5		5		5		5		5		, .
52	05 LINE + 1.		J		J		J		J		J		•
53	10 COL 1 VALUE '6		6		6		6		6		6		, .
	10 COL I VALOL O		J		0		9		J		J		•

54 05 LINE + 1.

```
ACS Cobol Xref v2.02.02
                                Dictionary File for COLORS
                                                              07/12/2019 16:57:00:16
        10 COL 1 VALUE '7
                                7
                                                                                    ٠.
   56
        *> #1
   57
        05 LINE 05.
        10 COL 2 BACKGROUND-COLOR O FOREGROUND-COLOR O LOWLIGHT VALUE 'X'.
   58
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 LOWLIGHT VALUE 'X'.
        05 LINE + 1.
        10 COL 2 BACKGROUND-COLOR 1 FOREGROUND-COLOR 0 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 1 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 LOWLIGHT VALUE 'X'.
   74
   75
        05 LINE + 1.
   76
        10 COL 2 BACKGROUND-COLOR 2 FOREGROUND-COLOR 0 LOWLIGHT VALUE 'X'.
   77
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 LOWLIGHT VALUE 'X'.
   79
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 5 LOWLIGHT VALUE 'X'.
   81
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 LOWLIGHT VALUE 'X'.
   82
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 LOWLIGHT VALUE 'X'.
   84
        05 LINE + 1.
   85
        10 COL 2 BACKGROUND-COLOR 3 FOREGROUND-COLOR 0 LOWLIGHT VALUE 'X'.
   86
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 LOWLIGHT VALUE 'X'.
        05 LINE + 1.
        10 COL 2 BACKGROUND-COLOR 4 FOREGROUND-COLOR 0 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 LOWLIGHT VALUE 'X'.
   100
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 LOWLIGHT VALUE 'X'.
   101
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 LOWLIGHT VALUE 'X'.
   102
        05 LINE + 1.
        10 COL 2 BACKGROUND-COLOR 5 FOREGROUND-COLOR 0 LOWLIGHT VALUE 'X'.
   103
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 LOWLIGHT VALUE 'X'.
   104
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 LOWLIGHT VALUE 'X'.
   105
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 LOWLIGHT VALUE 'X'.
   106
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 LOWLIGHT VALUE 'X'.
   107
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 LOWLIGHT VALUE 'X'.
   108
```

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ACS Cobol Xref v2.02.02
                                 Dictionary File for COLORS
                                                               07/12/2019 16:57:00:17
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 6 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 LOWLIGHT VALUE 'X'.
   110
   111
        05 LINE + 1.
   112
        10 COL 2 BACKGROUND-COLOR 6 FOREGROUND-COLOR 0 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 LOWLIGHT VALUE 'X'.
   113
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 LOWLIGHT VALUE 'X'.
   114
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 LOWLIGHT VALUE 'X'.
   115
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 LOWLIGHT VALUE 'X'.
   116
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 LOWLIGHT VALUE 'X'.
   117
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 LOWLIGHT VALUE 'X'.
   118
   119
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 LOWLIGHT VALUE 'X'.
   120
        05 LINE + 1.
   121
        10 COL 2 BACKGROUND-COLOR 7 FOREGROUND-COLOR 0 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 1 LOWLIGHT VALUE 'X'.
   122
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 6 LOWLIGHT VALUE 'X'.
   128
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 LOWLIGHT VALUE 'X'.
   129
        *> #2
   130
        05 LINE 05.
   131
        10 COL 12 BACKGROUND-COLOR O FOREGROUND-COLOR O VALUE 'X'.
   132
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 0 FOREGROUND-COLOR 2 VALUE 'X'.
   133
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 VALUE 'X'.
   134
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 VALUE 'X'.
   135
   136
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 VALUE 'X'.
   137
   138
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 VALUE 'X'.
   139
        05 LINE + 1.
   140
        10 COL 12 BACKGROUND-COLOR 1 FOREGROUND-COLOR 0 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 1 VALUE 'X'.
   141
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 VALUE 'X'.
   142
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 VALUE 'X'.
   143
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 VALUE 'X'.
   144
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 VALUE 'X'.
   146
   147
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 VALUE 'X'.
   148
        05 LINE + 1.
   149
        10 COL 12 BACKGROUND-COLOR 2 FOREGROUND-COLOR 0 VALUE 'X'.
   150
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 VALUE 'X'.
   151
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 VALUE 'X'.
   152
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 VALUE
   153
   154
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 5 VALUE
   155
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 VALUE 'X'.
   156
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 VALUE 'X'.
   157
        05 LINE + 1.
   158
        10 COL 12 BACKGROUND-COLOR 3 FOREGROUND-COLOR 0 VALUE 'X'.
   159
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 VALUE 'X'.
   160
   161
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 VALUE 'X'.
   162
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 VALUE 'X'.
```

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ACS Cobol Xref v2.02.02
                                Dictionary File for COLORS
                                                               07/12/2019 16:57:00:17
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 VALUE 'X'.
   164
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 VALUE 'X'.
   165
   166
        05 LINE + 1.
   167
        10 COL 12 BACKGROUND-COLOR 4 FOREGROUND-COLOR 0 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 VALUE 'X'.
   168
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 VALUE 'X'.
   169
   170
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 VALUE 'X'.
   171
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 VALUE 'X'.
   175
        05 LINE + 1.
        10 COL 12 BACKGROUND-COLOR 5 FOREGROUND-COLOR O VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 VALUE 'X'.
   181
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 VALUE 'X'.
   182
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 6 VALUE 'X'.
   183
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 VALUE 'X'.
   184
        05 LINE + 1.
   185
        10 COL 12 BACKGROUND-COLOR 6 FOREGROUND-COLOR 0 VALUE 'X'.
   186
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 VALUE 'X'.
   187
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 VALUE 'X'.
   188
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 VALUE 'X'.
   189
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 VALUE 'X'.
   190
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 VALUE 'X'.
   191
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 VALUE 'X'.
   192
   193
        05 LINE + 1.
   194
        10 COL 12 BACKGROUND-COLOR 7 FOREGROUND-COLOR 0 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 1 VALUE 'X'.
   195
   196
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 VALUE 'X'.
   197
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 VALUE 'X'.
   198
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 VALUE 'X'.
   199
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 6 VALUE 'X'.
   200
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 VALUE 'X'.
   201
   202
   203
        05 LINE 05.
   204
        10 COL 22 BACKGROUND-COLOR O FOREGROUND-COLOR O HIGHLIGHT VALUE 'X'.
   205
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 HIGHLIGHT VALUE 'X'.
   206
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 HIGHLIGHT VALUE 'X'.
   207
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 HIGHLIGHT VALUE 'X'.
   208
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 HIGHLIGHT VALUE
   209
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 HIGHLIGHT VALUE 'X'.
  210
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 HIGHLIGHT VALUE 'X'.
  211
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 HIGHLIGHT VALUE 'X'.
  212
        05 LINE + 1.
  213
        10 COL 22 BACKGROUND-COLOR 1 FOREGROUND-COLOR O HIGHLIGHT VALUE 'X'.
  214
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 1 HIGHLIGHT VALUE 'X'.
  215
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 HIGHLIGHT VALUE 'X'.
  216
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 HIGHLIGHT VALUE 'X'.
```

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ACS Cobol Xref v2.02.02
                                 Dictionary File for COLORS
                                                               07/12/2019 16:57:00:17
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 HIGHLIGHT VALUE 'X'.
   218
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 HIGHLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 HIGHLIGHT VALUE 'X'.
   219
   220
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 HIGHLIGHT VALUE 'X'.
   221
         05 LINE + 1.
         10 COL 22 BACKGROUND-COLOR 2 FOREGROUND-COLOR 0 HIGHLIGHT VALUE 'X'.
   222
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 HIGHLIGHT VALUE 'X'.
   223
   224
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 HIGHLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 HIGHLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 HIGHLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 5 HIGHLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 HIGHLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 HIGHLIGHT VALUE 'X'.
        10 COL 22 BACKGROUND-COLOR 3 FOREGROUND-COLOR O HIGHLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 HIGHLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 HIGHLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 HIGHLIGHT VALUE 'X'.
   235
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 HIGHLIGHT VALUE 'X'.
   236
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 HIGHLIGHT VALUE 'X'.
   237
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 HIGHLIGHT VALUE 'X'.
   238
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 HIGHLIGHT VALUE 'X'.
   239
         05 LINE + 1.
         10 COL 22 BACKGROUND-COLOR 4 FOREGROUND-COLOR 0 HIGHLIGHT VALUE 'X'.
   240
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 HIGHLIGHT VALUE 'X'.
   241
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 HIGHLIGHT VALUE 'X'.
   242
   243
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 HIGHLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 HIGHLIGHT VALUE 'X'.
   244
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 HIGHLIGHT VALUE 'X'.
   245
   246
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 HIGHLIGHT VALUE 'X'.
   247
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 HIGHLIGHT VALUE 'X'.
   248
         05 LINE + 1.
        10 COL 22 BACKGROUND-COLOR 5 FOREGROUND-COLOR 0 HIGHLIGHT VALUE 'X'.
   249
   250
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 HIGHLIGHT VALUE 'X'.
   251
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 HIGHLIGHT VALUE 'X'.
   252
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 HIGHLIGHT VALUE 'X'.
   253
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 HIGHLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 HIGHLIGHT VALUE 'X'.
   255
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 6 HIGHLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 HIGHLIGHT VALUE 'X'.
   256
   257
         05 LINE + 1.
   258
         10 COL 22 BACKGROUND-COLOR 6 FOREGROUND-COLOR 0 HIGHLIGHT VALUE 'X'.
   259
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 HIGHLIGHT VALUE
   260
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 HIGHLIGHT VALUE
   261
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 HIGHLIGHT VALUE
   262
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 HIGHLIGHT VALUE
   263
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 HIGHLIGHT VALUE
   264
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 HIGHLIGHT VALUE 'X'.
   265
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 HIGHLIGHT VALUE 'X'.
   266
         05 LINE + 1.
   267
         10 COL 22 BACKGROUND-COLOR 7 FOREGROUND-COLOR 0 HIGHLIGHT VALUE 'X'.
   268
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 1 HIGHLIGHT VALUE 'X'.
   269
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 HIGHLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 HIGHLIGHT VALUE 'X'.
   270
```

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ACS Cobol Xref v2.02.02
                                Dictionary File for COLORS
                                                            07/12/2019 16:57:00:18
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 HIGHLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 HIGHLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 6 HIGHLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 HIGHLIGHT VALUE 'X'.
   275
        *> #4
   276
        05 LINE 05.
        10 COL 32 BACKGROUND-COLOR O FOREGROUND-COLOR O LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        05 LINE + 1.
        10 COL 32 BACKGROUND-COLOR 1 FOREGROUND-COLOR O LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 1 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   289
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   290
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   291
   292
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   293
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   294
        05 LINE + 1.
   295
        10 COL 32 BACKGROUND-COLOR 2 FOREGROUND-COLOR 0 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   296
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   297
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   298
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   299
   300
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 5 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   301
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   302
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   303
        05 LINE + 1.
   304
        10 COL 32 BACKGROUND-COLOR 3 FOREGROUND-COLOR 0 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   305
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL 32 BACKGROUND-COLOR 4 FOREGROUND-COLOR 0 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   318
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   319
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   320
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   321
        05 LINE + 1.
   322
        10 COL 32 BACKGROUND-COLOR 5 FOREGROUND-COLOR 0 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   323
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   324
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28 September 2024 Chapter Colors

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ACS Cobol Xref v2.02.02
                                 Dictionary File for COLORS
                                                               07/12/2019 16:57:00:18
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
  328
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 6 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
  329
        05 LINE + 1.
  330
        10 COL 32 BACKGROUND-COLOR 6 FOREGROUND-COLOR 0 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
  331
  332
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        05 LINE + 1.
        10 COL 32 BACKGROUND-COLOR 7 FOREGROUND-COLOR O LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 1 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   343
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   344
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   345
   346
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 6 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   347
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   348
        *> #5
   349
        05 LINE 05.
   350
        10 COL 42 BACKGROUND-COLOR O FOREGROUND-COLOR O REVERSE-VIDEO VALUE 'X'.
   351
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 REVERSE-VIDEO VALUE 'X'.
   352
   353
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 REVERSE-VIDEO VALUE 'X'.
   354
        10 COL + 1 BACKGROUND-COLOR 0 FOREGROUND-COLOR 4 REVERSE-VIDEO VALUE 'X'.
   355
        10 COL + 1 BACKGROUND-COLOR 0 FOREGROUND-COLOR 5 REVERSE-VIDEO VALUE 'X'.
   356
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 REVERSE-VIDEO VALUE 'X'.
   357
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 REVERSE-VIDEO VALUE 'X'.
   358
        05 I.TNE + 1.
   359
        10 COL 42 BACKGROUND-COLOR 1 FOREGROUND-COLOR 0 REVERSE-VIDEO VALUE 'X'.
   360
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 1 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 REVERSE-VIDEO VALUE 'X'.
   361
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 REVERSE-VIDEO VALUE 'X'.
   362
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 REVERSE-VIDEO VALUE 'X'.
   363
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 REVERSE-VIDEO VALUE 'X'.
   366
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 REVERSE-VIDEO VALUE 'X'.
   367
        05 LINE + 1.
   368
        10 COL 42 BACKGROUND-COLOR 2 FOREGROUND-COLOR 0 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 REVERSE-VIDEO VALUE 'X'.
   370
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 REVERSE-VIDEO VALUE 'X'.
  371
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 REVERSE-VIDEO VALUE 'X'.
  372
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 REVERSE-VIDEO VALUE 'X'.
  373
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 5 REVERSE-VIDEO VALUE 'X'.
  374
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 REVERSE-VIDEO VALUE 'X'.
  375
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 REVERSE-VIDEO VALUE 'X'.
  376
        05 LINE + 1.
  377
        10 COL 42 BACKGROUND-COLOR 3 FOREGROUND-COLOR 0 REVERSE-VIDEO VALUE 'X'.
  378
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 REVERSE-VIDEO VALUE 'X'.
```

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ACS Cobol Xref v2.02.02
                                Dictionary File for COLORS
                                                              07/12/2019 16:57:00:18
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 REVERSE-VIDEO VALUE 'X'.
  384
  385
        05 LINE + 1.
  386
        10 COL 42 BACKGROUND-COLOR 4 FOREGROUND-COLOR 0 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 REVERSE-VIDEO VALUE 'X'.
        10 COL 42 BACKGROUND-COLOR 5 FOREGROUND-COLOR O REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 REVERSE-VIDEO VALUE 'X'.
   397
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 REVERSE-VIDEO VALUE 'X'.
   398
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 REVERSE-VIDEO VALUE 'X'.
   399
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 REVERSE-VIDEO VALUE 'X'.
   400
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 REVERSE-VIDEO VALUE 'X'.
   401
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 6 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 REVERSE-VIDEO VALUE 'X'.
   402
        05 LINE + 1.
   403
        10 COL 42 BACKGROUND-COLOR 6 FOREGROUND-COLOR 0 REVERSE-VIDEO VALUE 'X'.
   404
   405
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 REVERSE-VIDEO VALUE 'X'.
   406
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 REVERSE-VIDEO VALUE 'X'.
   407
   408
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 REVERSE-VIDEO VALUE 'X'.
   409
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 REVERSE-VIDEO VALUE 'X'.
   410
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 REVERSE-VIDEO VALUE 'X'.
  411
        05 LINE + 1.
  412
   413
        10 COL 42 BACKGROUND-COLOR 7 FOREGROUND-COLOR 0 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 1 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 REVERSE-VIDEO VALUE 'X'.
   417
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 REVERSE-VIDEO VALUE 'X'.
   419
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 6 REVERSE-VIDEO VALUE 'X'.
   420
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 REVERSE-VIDEO VALUE 'X'.
   421
        *> #6
   422
        05 LINE 05.
   423
        10 COL 52 BACKGROUND-COLOR O FOREGROUND-COLOR O HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
  424
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
  425
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
  426
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
  427
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
  428
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
  429
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
  430
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
  431
        05 LINE + 1.
   432
        10 COL 52 BACKGROUND-COLOR 1 FOREGROUND-COLOR 0 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
```

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ACS Cobol Xref v2.02.02
                                 Dictionary File for COLORS
                                                               07/12/2019 16:57:00:19
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 1 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   434
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   435
   436
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   437
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   438
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   439
   440
         05 LINE + 1.
         10 COL 52 BACKGROUND-COLOR 2 FOREGROUND-COLOR O HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   441
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 5 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
         05 LINE + 1.
         10 COL 52 BACKGROUND-COLOR 3 FOREGROUND-COLOR 0 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   451
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   452
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   453
   454
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   455
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   456
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   457
   458
         05 LINE + 1.
         10 COL 52 BACKGROUND-COLOR 4 FOREGROUND-COLOR 0 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   459
   460
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   461
   462
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   463
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   464
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   465
   466
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   467
         05 LINE + 1.
   468
        10 COL 52 BACKGROUND-COLOR 5 FOREGROUND-COLOR 0 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   469
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   470
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   471
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 HIGHLIGHT REVERSE-VIDEO VALUE
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 HIGHLIGHT REVERSE-VIDEO VALUE
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 6 HIGHLIGHT REVERSE-VIDEO VALUE
   475
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   476
   477
         10 COL 52 BACKGROUND-COLOR 6 FOREGROUND-COLOR 0 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   478
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   479
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   480
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   481
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   482
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   483
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   484
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   485
         05 LINE + 1.
   486
         10 COL 52 BACKGROUND-COLOR 7 FOREGROUND-COLOR 0 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
```

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ACS Cobol Xref v2.02.02
                                 Dictionary File for COLORS
                                                               07/12/2019 16:57:00:19
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 1 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   489
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   490
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   491
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 6 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   492
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   493
   494
        *> #7
   495
        05 LINE 17.
        10 COL 02 BACKGROUND-COLOR O FOREGROUND-COLOR O LOWLIGHT BLINK VALUE 'X'.
   496
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 LOWLIGHT BLINK VALUE 'X'.
   505
        10 COL 02 BACKGROUND-COLOR 1 FOREGROUND-COLOR 0 LOWLIGHT BLINK VALUE 'X'.
   506
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 1 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 LOWLIGHT BLINK VALUE 'X'.
   507
   508
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 LOWLIGHT BLINK VALUE 'X'.
   509
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 LOWLIGHT BLINK VALUE 'X'.
   510
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 LOWLIGHT BLINK VALUE 'X'.
   511
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 LOWLIGHT BLINK VALUE 'X'.
   512
        05 LINE + 1.
   513
        10 COL 02 BACKGROUND-COLOR 2 FOREGROUND-COLOR 0 LOWLIGHT BLINK VALUE 'X'.
   514
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 LOWLIGHT BLINK VALUE 'X'.
   515
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 LOWLIGHT BLINK VALUE 'X'.
   516
   517
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 LOWLIGHT BLINK VALUE 'X'.
   518
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 LOWLIGHT BLINK VALUE 'X'.
   519
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 5 LOWLIGHT BLINK VALUE 'X'.
   520
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 LOWLIGHT BLINK VALUE 'X'.
   521
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 LOWLIGHT BLINK VALUE 'X'.
   522
        05 LINE + 1.
        10 COL 02 BACKGROUND-COLOR 3 FOREGROUND-COLOR 0 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 LOWLIGHT BLINK VALUE 'X'.
   525
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 LOWLIGHT BLINK VALUE 'X'.
   526
   527
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 LOWLIGHT BLINK VALUE 'X'.
   530
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 LOWLIGHT BLINK VALUE 'X'.
   531
        05 LINE + 1.
   532
        10 COL O2 BACKGROUND-COLOR 4 FOREGROUND-COLOR O LOWLIGHT BLINK VALUE 'X'.
   533
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 LOWLIGHT BLINK VALUE 'X'.
  534
  535
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 LOWLIGHT BLINK VALUE 'X'.
  536
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 LOWLIGHT BLINK VALUE 'X'.
  537
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 LOWLIGHT BLINK VALUE 'X'.
  538
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 LOWLIGHT BLINK VALUE 'X'.
  539
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 LOWLIGHT BLINK VALUE 'X'.
   540
        05 LINE + 1.
```

28 September 2024

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ACS Cobol Xref v2.02.02
                                 Dictionary File for COLORS
                                                               07/12/2019 16:57:00:19
        10 COL 02 BACKGROUND-COLOR 5 FOREGROUND-COLOR 0 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 LOWLIGHT BLINK VALUE 'X'.
  543
  544
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 LOWLIGHT BLINK VALUE 'X'.
  545
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 LOWLIGHT BLINK VALUE 'X'.
  546
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 6 LOWLIGHT BLINK VALUE 'X'.
  547
  548
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 LOWLIGHT BLINK VALUE 'X'.
  549
        05 LINE + 1.
        10 COL 02 BACKGROUND-COLOR 6 FOREGROUND-COLOR 0 LOWLIGHT BLINK VALUE 'X'.
  550
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 LOWLIGHT BLINK VALUE 'X'.
   559
        10 COL 02 BACKGROUND-COLOR 7 FOREGROUND-COLOR 0 LOWLIGHT BLINK VALUE 'X'.
   560
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 1 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 LOWLIGHT BLINK VALUE 'X'.
   561
   562
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 LOWLIGHT BLINK VALUE 'X'.
   563
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 LOWLIGHT BLINK VALUE 'X'.
   564
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 6 LOWLIGHT BLINK VALUE 'X'.
   565
   566
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 LOWLIGHT BLINK VALUE 'X'.
        *> #8
   567
   568
        05 LINE 17.
        10 COL 12 BACKGROUND-COLOR O FOREGROUND-COLOR O BLINK VALUE 'X'.
   569
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 BLINK VALUE 'X'.
   570
  571
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 BLINK VALUE 'X'.
  572
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 BLINK VALUE 'X'.
  573
  574
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 BLINK VALUE 'X'.
  575
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 BLINK VALUE 'X'.
  576
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 BLINK VALUE 'X'.
  577
        05 LINE + 1.
        10 COL 12 BACKGROUND-COLOR 1 FOREGROUND-COLOR 0 BLINK VALUE 'X'.
   578
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 1 BLINK VALUE 'X'.
   579
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 BLINK VALUE 'X'.
   580
   581
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 BLINK VALUE 'X'.
   582
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 BLINK VALUE 'X'.
   583
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 BLINK VALUE 'X'.
   584
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 BLINK VALUE 'X'.
   585
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 BLINK VALUE 'X'.
   586
  587
        10 COL 12 BACKGROUND-COLOR 2 FOREGROUND-COLOR O BLINK VALUE 'X'.
  588
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 BLINK VALUE 'X'.
  589
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 BLINK VALUE 'X'.
  590
  591
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 BLINK VALUE 'X'.
  592
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 5 BLINK VALUE 'X'.
  593
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 BLINK VALUE 'X'.
  594
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 BLINK VALUE 'X'.
```

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ACS Cobol Xref v2.02.02
                                Dictionary File for COLORS
                                                              07/12/2019 16:57:00:19
  595
        05 LINE + 1.
  596
        10 COL 12 BACKGROUND-COLOR 3 FOREGROUND-COLOR O BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 BLINK VALUE 'X'.
  599
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 BLINK VALUE 'X'.
  600
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 BLINK VALUE 'X'.
  601
  602
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 BLINK VALUE 'X'.
        05 LINE + 1.
        10 COL 12 BACKGROUND-COLOR 4 FOREGROUND-COLOR 0 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 BLINK VALUE 'X'.
        05 LINE + 1.
   614
        10 COL 12 BACKGROUND-COLOR 5 FOREGROUND-COLOR 0 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 BLINK VALUE 'X'.
   615
   616
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 BLINK VALUE 'X'.
  617
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 BLINK VALUE 'X'.
  618
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 BLINK VALUE 'X'.
  619
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 6 BLINK VALUE 'X'.
  620
  621
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 BLINK VALUE 'X'.
  622
        05 LINE + 1.
        10 COL 12 BACKGROUND-COLOR 6 FOREGROUND-COLOR O BLINK VALUE 'X'.
  623
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 BLINK VALUE 'X'.
  624
  625
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 BLINK VALUE 'X'.
  626
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 BLINK VALUE 'X'.
  627
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 BLINK VALUE 'X'.
  628
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 BLINK VALUE 'X'.
  629
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 BLINK VALUE 'X'.
  630
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 BLINK VALUE 'X'.
   631
        05 LINE + 1.
        10 COL 12 BACKGROUND-COLOR 7 FOREGROUND-COLOR 0 BLINK VALUE 'X'.
   632
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 1 BLINK VALUE 'X'.
   633
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 BLINK VALUE 'X'.
   635
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 BLINK VALUE 'X'.
  637
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 BLINK VALUE 'X'.
  638
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 6 BLINK VALUE 'X'.
  639
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 BLINK VALUE 'X'.
  640
  641
        05 LINE 17.
        10 COL 22 BACKGROUND-COLOR O FOREGROUND-COLOR O HIGHLIGHT BLINK VALUE 'X'.
  642
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 HIGHLIGHT BLINK VALUE 'X'.
  643
  644
        10 COL + 1 BACKGROUND-COLOR 0 FOREGROUND-COLOR 2 HIGHLIGHT BLINK VALUE 'X'.
  645
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 HIGHLIGHT BLINK VALUE 'X'.
  646
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 HIGHLIGHT BLINK VALUE 'X'.
  647
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 HIGHLIGHT BLINK VALUE 'X'.
  648
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 HIGHLIGHT BLINK VALUE 'X'.
```

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ACS Cobol Xref v2.02.02
                                 Dictionary File for COLORS
                                                               07/12/2019 16:57:00:20
   649
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 HIGHLIGHT BLINK VALUE 'X'.
   650
         05 LINE + 1.
         10 COL 22 BACKGROUND-COLOR 1 FOREGROUND-COLOR 0 HIGHLIGHT BLINK VALUE 'X'.
   651
   652
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 1 HIGHLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 HIGHLIGHT BLINK VALUE 'X'.
   653
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 HIGHLIGHT BLINK VALUE 'X'.
   654
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 HIGHLIGHT BLINK VALUE 'X'.
   655
   656
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 HIGHLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 HIGHLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 HIGHLIGHT BLINK VALUE 'X'.
         05 LINE + 1.
         10 COL 22 BACKGROUND-COLOR 2 FOREGROUND-COLOR O HIGHLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 HIGHLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 HIGHLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 HIGHLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 HIGHLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 5 HIGHLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 HIGHLIGHT BLINK VALUE 'X'.
   667
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 HIGHLIGHT BLINK VALUE 'X'.
   668
   669
         10 COL 22 BACKGROUND-COLOR 3 FOREGROUND-COLOR 0 HIGHLIGHT BLINK VALUE 'X'.
   670
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 HIGHLIGHT BLINK VALUE 'X'.
   671
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 HIGHLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 HIGHLIGHT BLINK VALUE 'X'.
   672
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 HIGHLIGHT BLINK VALUE 'X'.
   673
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 HIGHLIGHT BLINK VALUE 'X'.
   674
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 HIGHLIGHT BLINK VALUE 'X'.
   675
   676
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 HIGHLIGHT BLINK VALUE 'X'.
   677
         05 LINE + 1.
         10 COL 22 BACKGROUND-COLOR 4 FOREGROUND-COLOR O HIGHLIGHT BLINK VALUE 'X'.
   678
   679
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 HIGHLIGHT BLINK VALUE 'X'.
   680
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 HIGHLIGHT BLINK VALUE 'X'.
   681
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 HIGHLIGHT BLINK VALUE 'X'.
   682
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 HIGHLIGHT BLINK VALUE 'X'.
   683
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 HIGHLIGHT BLINK VALUE 'X'.
   684
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 HIGHLIGHT BLINK VALUE 'X'.
   685
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 HIGHLIGHT BLINK VALUE 'X'.
   686
         05 LINE + 1.
         10 COL 22 BACKGROUND-COLOR 5 FOREGROUND-COLOR O HIGHLIGHT BLINK VALUE 'X'.
   687
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 HIGHLIGHT BLINK VALUE 'X'.
   688
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 HIGHLIGHT BLINK VALUE 'X'.
   690
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 HIGHLIGHT BLINK VALUE 'X'.
   691
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 HIGHLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 HIGHLIGHT BLINK VALUE 'X'.
   693
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 6 HIGHLIGHT BLINK VALUE 'X'.
   694
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 HIGHLIGHT BLINK VALUE 'X'.
   695
         05 LINE + 1.
         10 COL 22 BACKGROUND-COLOR 6 FOREGROUND-COLOR 0 HIGHLIGHT BLINK VALUE 'X'.
   696
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 HIGHLIGHT BLINK VALUE 'X'.
   697
   698
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 HIGHLIGHT BLINK VALUE 'X'.
   699
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 HIGHLIGHT BLINK VALUE 'X'.
   700
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 HIGHLIGHT BLINK VALUE 'X'.
   701
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 HIGHLIGHT BLINK VALUE 'X'.
   702
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 HIGHLIGHT BLINK VALUE 'X'.
```

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ACS Cobol Xref v2.02.02
                                Dictionary File for COLORS
                                                               07/12/2019 16:57:00:20
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 HIGHLIGHT BLINK VALUE 'X'.
   704
        05 LINE + 1.
   705
        10 COL 22 BACKGROUND-COLOR 7 FOREGROUND-COLOR 0 HIGHLIGHT BLINK VALUE 'X'.
   706
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 1 HIGHLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 HIGHLIGHT BLINK VALUE 'X'.
   707
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 HIGHLIGHT BLINK VALUE 'X'.
   708
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 HIGHLIGHT BLINK VALUE 'X'.
   709
   710
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 HIGHLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 6 HIGHLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 HIGHLIGHT BLINK VALUE 'X'.
   713
        *> #10
        05 LINE 17.
        10 COL 32 BACKGROUND-COLOR O FOREGROUND-COLOR O LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   721
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   722
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   723
        05 LINE + 1.
   724
        10 COL 32 BACKGROUND-COLOR 1 FOREGROUND-COLOR 0 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   725
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 1 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   726
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   727
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   728
   729
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   730
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   731
   732
   733
        10 COL 32 BACKGROUND-COLOR 2 FOREGROUND-COLOR 0 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   734
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   735
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   736
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   737
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   738
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 5 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   739
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   740
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   741
        05 LINE + 1.
        10 COL 32 BACKGROUND-COLOR 3 FOREGROUND-COLOR 0 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   748
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   749
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   750
   751
        10 COL 32 BACKGROUND-COLOR 4 FOREGROUND-COLOR 0 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   752
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   753
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   754
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   755
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   756
```

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ACS Cobol Xref v2.02.02
                                 Dictionary File for COLORS
                                                               07/12/2019 16:57:00:20
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   758
   759
         05 LINE + 1.
        10 COL 32 BACKGROUND-COLOR 5 FOREGROUND-COLOR 0 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   760
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   761
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   762
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   763
   764
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 6 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL 32 BACKGROUND-COLOR 6 FOREGROUND-COLOR O LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   775
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   776
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   777
         05 LINE + 1.
   778
         10 COL 32 BACKGROUND-COLOR 7 FOREGROUND-COLOR 0 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   779
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 1 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   780
   781
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   782
   783
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 6 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   784
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   785
   786
         *> #11
   787
         05 LINE 17.
   788
        10 COL 42 BACKGROUND-COLOR O FOREGROUND-COLOR O BLINK REVERSE-VIDEO VALUE 'X'.
   789
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 BLINK REVERSE-VIDEO VALUE 'X'.
   790
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 BLINK REVERSE-VIDEO VALUE 'X'.
   791
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 BLINK REVERSE-VIDEO VALUE 'X'.
   792
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 BLINK REVERSE-VIDEO VALUE 'X'.
   793
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 BLINK REVERSE-VIDEO VALUE 'X'.
   795
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 BLINK REVERSE-VIDEO VALUE 'X'.
   796
   797
         10 COL 42 BACKGROUND-COLOR 1 FOREGROUND-COLOR O BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 1 BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 BLINK REVERSE-VIDEO VALUE 'X'.
   800
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 BLINK REVERSE-VIDEO VALUE 'X'.
   801
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 BLINK REVERSE-VIDEO VALUE 'X'.
   802
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 BLINK REVERSE-VIDEO VALUE 'X'.
   803
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 BLINK REVERSE-VIDEO VALUE 'X'.
   804
   805
         05 LINE + 1.
   806
         10 COL 42 BACKGROUND-COLOR 2 FOREGROUND-COLOR O BLINK REVERSE-VIDEO VALUE 'X'.
   807
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 BLINK REVERSE-VIDEO VALUE 'X'.
   808
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 BLINK REVERSE-VIDEO VALUE 'X'.
   809
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 BLINK REVERSE-VIDEO VALUE 'X'.
   810
```

```
ACS Cobol Xref v2.02.02
                                Dictionary File for COLORS
                                                              07/12/2019 16:57:00:21
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 5 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 BLINK REVERSE-VIDEO VALUE 'X'.
  814
        05 LINE + 1.
        10 COL 42 BACKGROUND-COLOR 3 FOREGROUND-COLOR 0 BLINK REVERSE-VIDEO VALUE 'X'.
  815
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 BLINK REVERSE-VIDEO VALUE 'X'.
  816
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 BLINK REVERSE-VIDEO VALUE 'X'.
        05 LINE + 1.
        10 COL 42 BACKGROUND-COLOR 4 FOREGROUND-COLOR O BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 BLINK REVERSE-VIDEO VALUE 'X'.
  829
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 BLINK REVERSE-VIDEO VALUE 'X'.
  830
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 BLINK REVERSE-VIDEO VALUE 'X'.
   831
  832
  833
        10 COL 42 BACKGROUND-COLOR 5 FOREGROUND-COLOR 0 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 BLINK REVERSE-VIDEO VALUE 'X'.
  834
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 BLINK REVERSE-VIDEO VALUE 'X'.
  835
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 BLINK REVERSE-VIDEO VALUE 'X'.
  836
  837
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 BLINK REVERSE-VIDEO VALUE 'X'.
   838
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 6 BLINK REVERSE-VIDEO VALUE 'X'.
  839
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 BLINK REVERSE-VIDEO VALUE 'X'.
  840
  841
        05 LINE + 1.
  842
        10 COL 42 BACKGROUND-COLOR 6 FOREGROUND-COLOR O BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 BLINK REVERSE-VIDEO VALUE 'X'.
  843
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 BLINK REVERSE-VIDEO VALUE 'X'.
  844
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 BLINK REVERSE-VIDEO VALUE 'X'.
   849
  851
        10 COL 42 BACKGROUND-COLOR 7 FOREGROUND-COLOR 0 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 1 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 BLINK REVERSE-VIDEO VALUE 'X'.
  854
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 BLINK REVERSE-VIDEO VALUE 'X'.
  855
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 BLINK REVERSE-VIDEO VALUE 'X'.
  856
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 BLINK REVERSE-VIDEO VALUE 'X'.
  857
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 6 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 BLINK REVERSE-VIDEO VALUE 'X'.
  858
  859
        *> #12
  860
        05 LINE 17.
  861
        10 COL 52 BACKGROUND-COLOR O FOREGROUND-COLOR O HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  862
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  863
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  864
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ACS Cobol Xref v2.02.02
                                 Dictionary File for COLORS
                                                               07/12/2019 16:57:00:21
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  868
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        05 LINE + 1.
  869
        10 COL 52 BACKGROUND-COLOR 1 FOREGROUND-COLOR O HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  870
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 1 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  871
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL 52 BACKGROUND-COLOR 2 FOREGROUND-COLOR 0 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   883
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   884
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 5 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   885
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   886
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   887
         05 LINE + 1.
        10 COL 52 BACKGROUND-COLOR 3 FOREGROUND-COLOR 0 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   888
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   889
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   890
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   891
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   892
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   893
   894
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   895
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   896
        05 LINE + 1.
        10 COL 52 BACKGROUND-COLOR 4 FOREGROUND-COLOR O HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   897
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   898
   899
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   900
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   901
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   902
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   904
   905
        05 LINE + 1.
   906
        10 COL 52 BACKGROUND-COLOR 5 FOREGROUND-COLOR 0 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   908
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   909
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  910
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  911
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  912
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 6 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  913
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  914
        05 LINE + 1.
  915
        10 COL 52 BACKGROUND-COLOR 6 FOREGROUND-COLOR O HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  916
  917
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  918
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
```

```
ACS Cobol Xref v2.02.02
                                Dictionary File for COLORS
                                                              07/12/2019 16:57:00:21
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  922
  923
        05 LINE + 1.
        10 COL 52 BACKGROUND-COLOR 7 FOREGROUND-COLOR 0 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  924
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 1 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  925
  926
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 6 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        PROCEDURE DIVISION.
        000-Main SECTION.
        DISPLAY S-COLORTST-SCR.
  935 STOP RUN.
             *>>>Info: Total Copy Depth Used = 01
```

ACS Cobol Xref v2.02.02 Dictionary File for COLORS 07/12/2019 16:57:00:22 Symbols of Module: COLORS (COLORS)

Data Section (SCREEN) Defn Locations

S-COLORTST-SCR 000007S 000934

ACS Cobol Xref v2.02.02 Dictionary File for COLORS 07/12/2019 16:57:00:22

Symbols of Module: COLORS (COLORS)

Procedure Defn Locations

None

ACS Cobol Xref v2.02.02 Dictionary File for COLORS 07/12/2019 16:57:00:22 Symbols of Module: COLORS (COLORS)

Unreferenced Working Storage Symbols

None

ACS Cobol Xref v2.02.02 Dictionary File for COLORS 07/12/2019 16:57:00:22

Symbols of Module: COLORS (COLORS)

Unreferenced Procedures

None

4 DAY-FROM-DATE

DAY-FROM-DATE is a user-defined function that accepts a single numeric USAGE DISPLAY argument —æ either a 7-digit Julian date in the form yyyyddd or an 8-digit Gregorian date in the form yyyymmdd. This argument may be supplied either as a PIC 9(n) USAGE DISPLAY data item (n=7 or 8) or as a 7- or 8-digit numeric literal.

The subroutine will determine if the supplied date is a valid date in the year range 0000 through 9999 and what day of the week that date fell on.

The value returned will be zero if the date argument was invalid or an integer in the range 1-7, representing Sunday through Saturday.

In addition to general GnuCOBOL concepts, this program provides a useful demonstration of the following:

- Coding a GnuCOBOL user-defined function
- Using the ANY LENGTH data item attribute
- Using the RETURNING option in a subprogram
- Using the DATE-OF-INTEGER intrinsic function
- Using the C\$PARAMSIZE built-in system subroutine

The program source and cross-reference listing, produced using the GnuCOBOL Interactive Compiler front-end (GCic.cbl, one of the sample programs included here), begins on the next page.

GNU COBOL 2.1 23NOV2013 Source Listing

2014/03/27

C:/Users/tda010/Documents/Programs/Samples/DAY-FROM-DATE.cbl Line Statement Page: 1 _____ >>SOURCE FORMAT IS FIXED IDENTIFICATION DIVISION. FUNCTION-ID. DAY-FROM-DATE. 4 *> This GNU COBOL user-defined function converts a Gregorian or ** 5 6 7 8 *> Arguments: 9 ** 10 *> Calendar-Date A PIC 9 data item or numeric literal which ** 11 *> will be treated as a calendar date as fol- ** 12 *> ** 13 *> 7-digit value: Interpreted as a Julian date ** 14 *> in the form yyyyddd 15 *> 8-digit value: Interpreted as a Gregorian 16 *> 17 date in the form yyyymmdd ** 19 *> The result returned will be one of the following: 20 *> 0: The supplied date is invalid *> 1: The supplied date is a Sunday 23 *> 2: The supplied date is a Monday ** 24 ***>** . ** 25 ***>** . 26 ***>** . 27 *> 7: The supplied date is a Saturday *>****************** 28 ENVIRONMENT DIVISION. 29 CONFIGURATION SECTION. 30 REPOSITORY. 31 32 FUNCTION ALL INTRINSIC. 33 DATA DIVISION. 34 WORKING-STORAGE SECTION. wS-Inpu 05 WS-II 05 WS-ID 05 WS-ID 01 WS-Y-NUM 01 WS-M-NUP 01 WS 01 WS-Input-Date-DT.
05 WS-ID-YYYY-NIM 35 PIC 9(4). PIC 9(2). 05 WS-ID-YYYY-NUM 36 05 WS-ID-MM-NUM 37 05 WS-ID-DD-NUM PIC 9(2). 38 39 BINARY-LONG. 40 BINARY-LONG. 01 WS-Temp-NUM 41 BINARY-LONG. LINKAGE SECTION. 42 43 01 L-Input-Date-DT PIC 9 ANY LENGTH. 01 L-Output-Day-NUM USAGE BINARY-LONG 44 SIGNED. 45 PROCEDURE DIVISION USING L-Input-Date-DT 46

RETURNING L-Output-Day-NUM.

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CALL "C\$PARAMSIZE" USING 1

000-Main SECTION.

Page: 1

47

48

GNU COBOL 2.1 23NOV2013 Source Listing

C:/Users/tda010/Documents/Programs/Samples/DAY-FROM-DATE.cbl Page: 2 _____ EVALUATE RETURN-CODE WHEN 7 51 52 IF TEST-DAY-YYYYDDD(L-Input-Date-DT) > 0 53 MOVE O TO L-Output-Day-NUM 54 GOBACK 55 END-IF 56 MOVE DATE-OF-INTEGER(INTEGER-OF-DAY(L-Input-Date-DT)) 57 TO WS-Input-Date-DT 58 WHEN 8 59 IF TEST-DATE-YYYYMMDD(L-Input-Date-DT) > 0 MOVE O TO L-Output-Day-NUM 60 61 GOBACK 62 END-IF MOVE L-Input-Date-DT TO WS-Input-Date-DT 63 64 WHEN OTHER MOVE O TO L-Output-Day-NUM 65 66 GOBACK 67 END-EVALUATE *> IF january OR february *> y = year - 1 70 *> m = month + 10 71 *> ELSE 72 *> y = year 73 *> m = month - 274 *> END-IF 75 *> For Gregorian calendar: 76 result = $(day + y + y/4 - y/100 + y/400 + (31*m)/12) \mod 7$ 77 *> (All divisions are integer divisions, discarding any remainder) 78 IF WS-ID-MM-NUM = 1 OR 279 SUBTRACT 1 FROM WS-ID-YYYY-NUM GIVING WS-Y-NUM 80 ADD WS-ID-MM-NUM, 10 GIVING WS-M-NUM ELSE 81 82 MOVE WS-ID-YYYY-NUM TO WS-Y-NUM 83 SUBTRACT 2 FROM WS-ID-MM-NUM GIVING WS-M-NUM END-IF COMPUTI 84 85 COMPUTE L-Output-Day-NUM = 86 WS-ID-DD-NUM 87 + WS-Y-NUM + 1..

- INTEGER(WS-Y-NUm, 1)

+ INTEGER((31*WS-M-NUM)/12,

DIVIDE L-Output-Day-NUM BY 7

GIVING WS-Temp-NUM

REMAINDER L-Output-Day-N 88 89 90 91 + INTEGER((31*WS-M-NUM)/12) 92 93 REMAINDER L-Output-Day-NUM 96

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Page: 2

97

GNU COBOL 2.1 23NOV2013 Cross-Reference Listing

2014/03/27

	C:/Users/tda	010/Doc	uments/Programs/	Samples/DAY-	-FROM-	DATE.cbl
PROGRAM-ID	Identifier/Register/Function	Defn	Where Defined	References		Page: 3
=========		=====	=========	========		======
DAY-FROM-DATE	000-Main	48	PROCEDURE			
DAY-FROM-DATE	L-Input-Date-DT	43	LINKAGE	46	52	56
				59	63	
DAY-FROM-DATE	L-Output-Day-NUM	44	LINKAGE	47	53*	60*
				65*	85*	92
				94*	95*	
DAY-FROM-DATE	RETURN-CODE		PROCEDURE	50		
DAY-FROM-DATE	WS-ID-DD-NUM	38	WORKING-STORAGE	86		
DAY-FROM-DATE	WS-ID-MM-NUM	37	WORKING-STORAGE	78	80	83
DAY-FROM-DATE	WS-ID-YYYY-NUM	36	WORKING-STORAGE	79	82	
DAY-FROM-DATE	WS-Input-Date-DT	35	WORKING-STORAGE	57*	63*	
DAY-FROM-DATE	WS-M-NUM	40	WORKING-STORAGE	*08	83*	91
DAY-FROM-DATE	WS-Temp-NUM	41	WORKING-STORAGE	93*		
DAY-FROM-DATE	WS-Y-NUM	39	WORKING-STORAGE	79*	82*	87
				88	89	90

70'- for OSV Comminist (C) 2000 2014 Comm I Cutlon CDI

5 GCic

This is MUCH more than a mere demonstration program – it's also a very practical utility! The "GCic" (GnuCOBOL Interactive Compiler) is a TUI (Textual User Interface) program that may be used as a full-screen interface to the "cobc" compiler. In addition, GCic can produce neat, concise and useful cross-reference listings of GnuCOBOL programs, showing not only where user-defined names and built-in registers and intrinsic functions are referenced, but also where user-defined data items ARE MODIFIED by program code!

The program is well documented (IMHO) and you should find it fairly easy to follow. The GCic.cbl program was written to work with a native Windows or Windows/MinGW build of GnuCOBOL as well as a Windows/Cygwin, UNIX or OS X build.

Source listings generated by GCic will show the original source code of your programs, with all indentation and comments preserved. Additionally, any COPYed code will be included in the listing immediately (in compressed form) following the COPY statement that triggered its inclusion into your program.

Cross-reference listings will show all user-defined data items and procedures as well as intrinsic function and special register references. In addition to showing the line numbers at which items were defined and referenced, those references that MODIFY the contents of the data item will have an asterisk appended to them.

In addition to general GnuCOBOL concepts, this program provides a useful demonstration of the following:

- Creating a GnuCOBOL compilation unit that consists of multiple programs
- Using CDF conditional compilation facilities
- Using the SCREEN SECTION and associated ACCEPT and DISPLAY statements
- Using DECLARATIVES to trap file I/O errors
- Using FILE-STATUS
- Using the REPLACING clause on a CDF COPY statement
- Using the following statements:
 - o ACCEPT FROM COMMAND-LINE statement
 - o ACCEPT FROM DATE/TIME statement
 - o ACCEPT FROM ENVIRONMENT statement
 - o EXIT PERFORM statement
 - o EXIT SECTION statement
 - o INSPECT statement
 - o PERFORM FOREVER statement
 - o SEARCH ALL statement
 - o SET ENVIRONMENT statement
 - o SORT statement
 - o STRING statement
 - o UNSTRING statement

- Using the following built-in subroutines:
 - o C\$JUSTIFY built-in system subroutine
 - o C\$SLEEP built-in system subroutine
 - o CBL_CHANGE_DIR built-in system subroutine
 - o CBL_CHECK_FILE_EXIST built-in system subroutine
 - o CBL_DELETE_FILE built-in system subroutine
 - o SYSTEM built-in system subroutine
- Using the following intrinsic functions:
 - o CONCATENATE intrinsic function
 - o LENGTH intrinsic function
 - o LOWER-CASE intrinsic function
 - o NUMVAL intrinsic function
 - o TRIM intrinsic function
 - o UPPER-CASE intrinsic function
- Using the COB-CRT-STATUS, Special Registers special register
- Programmatically producing a report destined for either portrait or landscape printing

Here is a sample of the screen generated by this program:



The program source and cross-reference listing, generated by cobxref, begins on the next page.

28 September 2024 Chapter GCic

```
ACS Cobol Xref v2.02.04
                               Dictionary File for GCIC
                                                           06/03/2022 23:09:10:96 Page
             >>SOURCE FORMAT IS FIXED
    2
             *> CONFIGURATION SETTINGS: adjust const-set-1.cpy before
    3
             *> compiling GCic to adjust the way it works.
             *copy "const-set-1.cpy".
    4
             *> CONFIGURATION SETTINGS: Set these switches before compiling:
    5
    6
    7
             *> Set these 2 for the compiler version.
    8
    9
              >>DEFINE CONSTANT COMP-VERS AS 'GNUCOBOL 3.1.2 O6MAR2022'
              >>DEFINE CONSTANT COMP-YEAR AS '2022'
   10
   11
   12
             *> LINEDRAW Set to:
                O To use spaces (no lines)
   13
             *>
   14
             *>
                   1 To use the line-drawing characterset (PC codepage 437)
             *> 2 To use conventional ASCII characters (+, -, |)
   15
   16
             *>
                       OSX USERS - To use the linedrawing characterset,
   17
             *>
                                    set your 'terminal' font to 'Lucida Console'
   18
             *>
   19
             *>
   20
             *> OS
                        Set to one of the following:
   21
             *>
                        'CYGWIN' For a Windows/Cygwin version
   22
             *>
                        'MINGW'
                                   For a Windows/MinGW version
                        'OSX' For a Macintosh OSX vers:
'UNIX' For a Unix/Linux version
   23
             *>
                                   For a Macintosh OSX version
   24
             *>
   25
             *>
                        'WINDOWS' For a Native Windows version
   26
             *>
             *> SELCHAR Set to the desired single character to be used as the red
   27
   28
             *> 'feature selected' character on the screen.
   29
             *>
                         SUGGESTIONS: '>', '*', '=', '+'
   30
             *>
             \star\!\!> LPP \, Set to maximum printable lines per page when the listing
   31
   32
                         should be generated for LANDSCAPE orientation (can be over-
             *>
   33
             *>
                        ridden at execution time using the GCXREF_LINES environment
                        variable.
   34
             *>
   35
             *>
   36
            *> LPPP Set to maximum printable lines per page when the listing
   37
            *>
                     should be generated for PORTRAIT orientation (can be over-
   38
             *>
                       ridden at execution time using the GCXREF_LINES_PORT
   39
             *>
                        environment variable.
   40
             *>
   41 GCO712 >> DEFINE CONSTANT LINEDRAW
                                         AS 2
   42 GCO712 >>DEFINE CONSTANT OS AS 'UNIX'
                                         AS '>'
   43 GCO712 >>DEFINE CONSTANT SELCHAR
   44 GC1213 >> DEFINE CONSTANT LPP AS 50 *> LANDSCAPE (GCXREF_LINES)
45 GC1213 >> DEFINE CONSTANT LPPP AS 60 *> PORTRAIT (GCXREF_LINES_PORT)
             *> ------
   46
   47
             *> Now set these switches to establish initial (default) settings
   48
             *> for the various on-screen options. Set them to a value of
   49
             *> 0 if they are to be 'OFF' and 1 if they are to be 'ON'
   50 GC1213*> (for F5, 1=0N (Landscape), 2=0N (Portrait))
   51
   52 GCO712 >>DEFINE CONSTANT F1 AS 0 *> Assume WITH DEBUGGING MODE
   53 GCO712 >>DEFINE CONSTANT F2 AS 0 *> Procedure+Statement Trace
   54 GCO712 >> DEFINE CONSTANT F3 AS 0 *> Make A Library (DLL)
```

```
ACS Cobol Xref v2.02.04
                             Dictionary File for GCIC
                                                      06/03/2022 23:09:10:96 Page
   55 GCO712 >>DEFINE CONSTANT F4 AS 0 *> Execute If Compilation OK
   56 GC1213 >> DEFINE CONSTANT F5 AS 0 *> Listings
   57 GCO712 >> DEFINE CONSTANT F6 AS 1 *> "FUNCTION" Is Optional
   58 GCO712 >> DEFINE CONSTANT F7 AS 1 *> Enable All Warnings
   59 GCO712 >>DEFINE CONSTANT F8 AS 1 *> Source Is Free-Format
   60 GC0712 >> DEFINE CONSTANT F9 AS 1 *> No COMP/BINARY Truncation
   61 GCO712 >> DEFINE CONSTANT F12 AS 4 *> Default config file (1-7):
                                        1 = BS2000
   62
            *>
                                        2 = COBOL85
   63
            *>
   64
                                        3 = COBOL2002
            *>
   65
                                        4 = DEFAULT
            *>
   66
            *>
                                        5 = IBM
   67
            *>
                                        6 = MF (i.e. Microfocus)
   68
            *>
                                        7 = MVS
   69
            /
   70
            IDENTIFICATION DIVISION.
   71
            PROGRAM-ID. GCic.
   72
            73
                  >NOTE< >NOTE< >NOTE< >NOTE< >NOTE<
   74
   75
            *> If this program is compiled with '-fdebugging-line', you
   76
            *> will need to pipe SYSERR to a text file when executing GCic **
   77
            *> (by adding the text '2> filename' to the end of the GCic
   78
            *> command). You may also need to press the ENTER key when
   79
            *> GCic is finished.
            *>********************
   80
            *> This program provides a Textual User Interface (TUI) to the **
   81
   82
            *> process of compiling and (optionally) executing a GNU COBOL **
   83
            *> program.
   84
            *>
                                                                     **
   85
            *> This programs execution syntax is as follows:
                                                                     **
   86
            *>
                                                                     **
   87
            *> GCic cprogram-path-and-filename> [ <switch>... ]
                                                                     **
   88
            *>
                                                                     **
   89
            *> Once executed, a display screen will be presented showing
                                                                     **
            *> the compilation options that will be used. The user will
   90
                                                                     **
   91
            *> have the opportunity to change options, specify new ones
                                                                     **
   92
            *> and specify any program execution arguments to be used if
                                                                     **
   93
            *> you select the 'Execute' option. When you press the Enter
   94
            *> key the program will be compiled.
                                                                     **
   95
            *>
                                                                     **
   96
            *> The SCREEN SECTION contains an image of the screen.
   97
            *>
            *> The '010-Parse-Args' section in the PROCEDURE DIVISION has
   99
            *> documentation on switches and their function.
            *>********************
  100
  101
            *>
  102
                           GARY L. CUTLER
                           Copyright (C) 2009-2018, Gary L. Cutler, GPL
  103
            *>
            *> Updated by Vincent B Coen, 2018-2020+.
  104
                                                                     **
  105
            *>
                                                                     **
  106
            *> DATE-WRITTEN: June 14, 2009
                                                                     **
  107
            *>
                                                                     **
  108
```

ACS Cobol	Xref v	2.02.04	Dictionary File for GCIC 06/03/2022 23:	09:10:96	Page	3
109	*>	DATE	CHANGE DESCRIPTION	**		
110	*>	=====		**		
111	*>	GC0609	Don't display compiler messages file if compilation	**		
112	*>	GLC	Is successful. Also don't display messages if the	**		
113	*>		output file is busy (just put a message on the	**		
114	*>		screen, leave the OC screen up & let the user fix	**		
115	*>		the problem & resubmit.	**		
116	*>	GC0709	When 'EXECUTE' is selected, a 'FILE BUSY' error will	**		
117	*>	CLC	still cause the (old) executable to be launched.	**		
118	*>		Also, the 'EXTRA SWITCHES' field is being ignored.	**		
119	*>		Changed the title bar to lowlighted reverse video &	**		
120	*>		the message area to highlighted reverse-video.	**		
121	*>		Add a SPACE in front of command-line args when	**		
122	*>	GLC	executing users program. Add a SPACE after the	**		
123	*>		-ftraceall switch when building cobc command.	**		
124			Convert to work on Cygwin/Linux as well as MinGW	**		
125	*>	GC0310	Virtualized the key codes for S-F1 thru S-F7 as they			
126	*>	GLC	differ depending upon whether PDCurses or NCurses is	**		
127	*>		being used.	**		
128	*>	GC0410	Introduced the cross-reference and source listing	**		
129	*>	GLC	features. Also fixed a bug in EXTRA switch proces-	**		
130	*>		sing where garbage will result if more than the	**		
131	*>		EXTRA switch is specified.	**		
132	*>	GC1010	Corrected several problems reported by Vince Coen:	**		
133	*>	GLC	1) Listing/Xref wouldn't work if '-I' additional	**		
134	*>		cobc switch specified.	**		
135	*>		2) Programs coded with lowercase reserved words did	**		
136	*>		not get parsed properly when generating listing	**		
137	*>		and/or xref reports.	**		
138	*>		3) Reliance on a TEMP environment variable caused	**		
139	*>		non-recoverable errors when generating listing	**		
140	*>		and/or xref reports in a session that lacks a	**		
141	*>		TEMP variable.	**		
142	*>		As a result of this change, GCic no longer runs a	**		
143	*>		second 'cobc' when generating listing and/or xref	**		
144	*>		reports. A '-save-temps' (without '=dir') specified	**		
145	*>		in the EXTRA options field will be ignored. A	**		
146	*>		'-save-temps=dir' specified in the EXTRA options	**		
147	*>		field will negate both the XREF and SOURCE opts,	**		
148	*>		if specified.	**		
149			Tailored for 29APR2011 version of GNU COBOL 2.0	**		
150			Replaced all switches with configuration settings;	**		
151	*>	GLC	Tailored for 11FEB2012 version of GNU COBOL 2.0;	**		
152	*>		Reformatted screen layout to fit a 24x80 screen	**		
153	*>		rather than a 25x81 screen and to accommodate shell	**		
154	*>		environments having only F1-F12 (like 'terminal' in	**		
155	*>		OSX); Fully tested under OSX (required a few altera-	**		
156	*>		tions); Expanded both extra-options and runtime-	**		
157	*>		arguments areas to TWO lines (152 chars total) each;			
158	*>		Added support for MF/IBM/BS2000 listing-control	**		
159	*>		directives EJECT, SKIP1, SKIP2, SKIP3 (any of these in	**		
160	*>		copybooks will be ignored)	**		
161	*>		Expand the source code record from 80 chars to 256	**		
162	*>	GLC	to facilitate looking for "LINKAGE SECTION" in a	**		

```
ACS Cobol Xref v2.02.04
                                Dictionary File for GCIC
                                                            06/03/2022 23:09:10:96
                                                                                      Page
                                                                                              4
   163
                       free-format file.
             *{\hspace{-0.01cm}}{\hspace{-0.01cm}} GC1113 Edited to support the change of "OpenCOBOL" to "GNU
   164
   165
             *> GLC COBOL"
                                                                            **
             *> GC1213 Updated for 23NOV2013 version of GNU COBOL 2.1
   166
                                                                            **
             *> GC0114 Introduce a "Press ENTER to Close" action after run- **
   167
   168
             *> GLC ning the compiled program in the compiler window (F4)**
             *> VCO617 Remove the Blinking in meny screen as uncomfortable **
   169
             *> VBC Update version printed to 2.2 30JUN2017.
   170
                                                                            **
   171
             *>
                       Move the system constant settings to a copy file
                                                                            **
                       const-set-1.cpy in case GCic is updated.
   172
             *>
                                                                            **
                       Added SET ENVIRONMENT "COB_EXIT_WAIT" TO "O" to
   173
             *>
                                                                            **
   174
             *>
                       100-Initialization section.
                                                                            **
   175
             *> VCO717 Replaced compile param instrinsic=all with
                                                                            **
   176
             *> VBC intrinstics=ALL. Changed mod detail inits for Gary
                                                                            **
   177
             *>
                       from GCL to GLC.
                                                                            **
   178
             *>
                       Update version printed to 2.2 20JUL2017.
                                                                             **
   179
             *>
                       Should really get this from the compiler if avail?
                                                                            **
   180
             *> VC1217 Update compiler version to v3.0 24DEC2017.
                                                                            **
                       and copyright to 2018 (in 3 places).
   181
   182
             *> VCO811 Updated compiler to 3.1 July2020 and the copyright.
   183
             *> VC0322 Update compiler version to v3.1.2 06MAR2022.
   184
             *>**************
   185
             *>
   186
             ENVIRONMENT DIVISION.
   187
              CONFIGURATION SECTION.
   188
              REPOSITORY.
   189
                  FUNCTION ALL INTRINSIC.
   190
              INPUT-OUTPUT SECTION.
   191
              FILE-CONTROL.
   192 GC1010 SELECT F-Cobc-Output-FILE
                                              ASSIGN TO WS-Listing-Filename-TXT
                                              ORGANIZATION IS LINE SEQUENTIAL.
   193
   194
   195
                  SELECT F-Source-Code-FILE
                                              ASSIGN TO WS-File-Name-TXT
                                              ORGANIZATION IS LINE SEQUENTIAL
   196
                                              FILE STATUS IS WS-FSM-Status-CD.
   197
   198
   199
              DATA DIVISION.
   200
              FILE SECTION.
   201
              FD F-Cobc-Output-FILE.
   202
              01 F-Cobc-Output-REC
                                                        PIC X(256).
   203
   204
              FD F-Source-Code-FILE.
   205 GC0313 01 F-Source-Code-REC
                                                        PIC X(256).
   206
   207
              WORKING-STORAGE SECTION.
   208
              >>source free
   209
       *>C
                  COPY screenio.
   210
       *> Copyright (C) 2008-2012, 2015-2016 Free Software Foundation, Inc.
   211
           Written by Roger While
   212
       *>
   213 *>
           This file is part of GnuCOBOL.
   214
       *>
           The GnuCOBOL compiler is free software: you can redistribute
   215 *>
   216 *>
           it and/or modify it under the terms of the GNU General Public
```

28 September 2024 Chapter GCic

```
ACS Cobol Xref v2.02.04
                               Dictionary File for GCIC
                                                          06/03/2022 23:09:10:96
                                                                                    Page
                                                                                            5
           License as published by the Free Software Foundation, either
           version 3 of the License, or (at your option) any later
  218 *>
  219 *>
           version.
  220 *>
  221 *>
           GnuCOBOL is distributed in the hope that it will be useful,
           but WITHOUT ANY WARRANTY; without even the implied warranty of
  222 *>
           MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
  223 *>
           GNU General Public License for more details.
  224 *>
  225 *>
  226 *>
           You should have received a copy of the GNU General Public
  227 *>
           License along with GnuCOBOL.
  228 *>
           If not, see <a href="http://www.gnu.org/licenses/">http://www.gnu.org/licenses/>.</a>
  229 *>
  230 *>
            Colors
  231 *>
  232 78 cob-color-black
                               value 0.
  233 78 COB-COLOR-BLUE
                               VALUE 1.
  234 78 COB-COLOR-GREEN
                               VALUE 2.
  235 78 COB-COLOR-CYAN
                               VALUE 3.
  236
       78 COB-COLOR-RED
                               VALUE 4.
  237
        78 COB-COLOR-MAGENTA
                               VALUE 5.
  238
        78 COB-COLOR-YELLOW
                               VALUE 6.
  239
       78 COB-COLOR-WHITE
                               VALUE 7.
  240 *>
  241 *> Values that may be returned in CRT STATUS (or COB-CRT-STATUS)
  242 *> Normal return - Value 0000
  243
       78 COB-SCR-OK
                               VALUE O.
  244 *> Function keys - Values 1xxx
  245 78 COB-SCR-F1
                         VALUE 1001.
  246
       78 COB-SCR-F2
                               VALUE 1002.
        78 COB-SCR-F3
  247
                              VALUE 1003.
        78 COB-SCR-F4
  248
                              VALUE 1004.
        78 COB-SCR-F5
                              VALUE 1005.
  249
       78 COB-SCR-F6
  250
                              VALUE 1006.
  251
        78 COB-SCR-F7
                              VALUE 1007.
  252
       78 COB-SCR-F8
                              VALUE 1008.
  253
        78 COB-SCR-F9
                               VALUE 1009.
  254
        78 COB-SCR-F10
                               VALUE 1010.
  255
        78 COB-SCR-F11
                               VALUE 1011.
  256
        78 COB-SCR-F12
                               VALUE 1012.
  257
        78 COB-SCR-F13
                               VALUE 1013.
  258
        78 COB-SCR-F14
                               VALUE 1014.
  259
        78 COB-SCR-F15
                               VALUE 1015.
  260
                               VALUE 1016.
        78 COB-SCR-F16
  261
                               VALUE 1017.
        78 COB-SCR-F17
  262
                               VALUE 1018.
        78 COB-SCR-F18
  263
        78 COB-SCR-F19
                               VALUE 1019.
  264
        78 COB-SCR-F20
                               VALUE 1020.
  265
        78 COB-SCR-F21
                               VALUE 1021.
  266
        78 COB-SCR-F22
                               VALUE 1022.
  267
        78 COB-SCR-F23
                               VALUE 1023.
  268
        78 COB-SCR-F24
                               VALUE 1024.
                              VALUE 1025.
  269
        78 COB-SCR-F25
        78 COB-SCR-F26
  270
                               VALUE 1026.
```

```
ACS Cobol Xref v2.02.04
                              Dictionary File for GCIC
                                                        06/03/2022 23:09:10:97
                                                                                 Page
                                                                                         6
  271
        78 COB-SCR-F27
                              VALUE 1027.
  272
        78 COB-SCR-F28
                              VALUE 1028.
        78 COB-SCR-F29
                              VALUE 1029.
  273
  274
        78 COB-SCR-F30
                              VALUE 1030.
  275
        78 COB-SCR-F31
                              VALUE 1031.
        78 COB-SCR-F32
                              VALUE 1032.
  276
        78 COB-SCR-F33
                              VALUE 1033.
  277
  278
        78 COB-SCR-F34
                              VALUE 1034.
  279
       78 COB-SCR-F35
                             VALUE 1035.
  280
       78 COB-SCR-F36
                             VALUE 1036.
  281
       78 COB-SCR-F37
                            VALUE 1037.
  282 78 COB-SCR-F38
                            VALUE 1038.
  283 78 COB-SCR-F39
                            VALUE 1039.
                            VALUE 1040.
  284 78 COB-SCR-F40
       78 COB-SCR-F41
                            VALUE 1041.
  285
       78 COB-SCR-F42
                            VALUE 1042.
  286
  287
        78 COB-SCR-F43
                            VALUE 1043.
                           VALUE 1044.
VALUE 1045.
VALUE 1046.
  288
        78 COB-SCR-F44
  289
        78 COB-SCR-F45
  290
        78 COB-SCR-F46
                           VALUE 1046.
VALUE 1047.
VALUE 1048.
VALUE 1049.
VALUE 1050.
VALUE 1051.
VALUE 1052.
VALUE 1053.
VALUE 1054.
  291
        78 COB-SCR-F47
  292
        78 COB-SCR-F48
  293
        78 COB-SCR-F49
  294
        78 COB-SCR-F50
        78 COB-SCR-F51
  295
  296
        78 COB-SCR-F52
  297
        78 COB-SCR-F53
       78 COB-SCR-F54
  298
                            VALUE 1055.
  299
       78 COB-SCR-F55
  300
                            VALUE 1056.
       78 COB-SCR-F56
  301 78 COB-SCR-F57
                            VALUE 1057.
  302 78 COB-SCR-F58
                            VALUE 1058.
                            VALUE 1059.
  303 78 COB-SCR-F59
       78 COB-SCR-F60
                            VALUE 1060.
  304
  305 78 COB-SCR-F61
                            VALUE 1061.
       78 COB-SCR-F62
  306
                             VALUE 1062.
       78 COB-SCR-F63
  307
                              VALUE 1063.
       78 COB-SCR-F64
  308
                              VALUE 1064.
  309 *> Exception keys - Values 2xxx
       78 COB-SCR-PAGE-UP VALUE 2001.
  310
  311
        78 Cob-Scr-Page_Up
                              value 2001.
        78 COB-SCR-PAGE-DOWN VALUE 2002.
  312
        78 Cob-Scr-Page_Down value 2002.
  313
       78 COB-SCR-KEY-UP
  314
                              VALUE 2003.
        78 COB-SCR-KEY_UP
  315
                              VALUE 2003.
  316
        78 COB-SCR-KEY-DOWN
                              VALUE 2004.
  317
        78 COB-SCR-KEY_DOWN
                              VALUE 2004.
                              VALUE 2005.
  318
        78 COB-SCR-ESC
                              VALUE 2006.
  319
        78 COB-SCR-PRINT
        78 COB-SCR-TAB
                              VALUE 2007.
  320
  321
        78 COB-SCR-BACK-TAB
                              VALUE 2008.
  322
                              VALUE 2009.
        78 COB-SCR-KEY-LEFT
  323
        78 COB-SCR-KEY-RIGHT VALUE 2010.
  324 *> The following exception keys are currently *only* returned
```

28 September 2024

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ACS Cobol Xref v2.02.04
                                                 Dictionary File for GCIC
                                                                                           06/03/2022 23:09:10:97
                                                                                                                                   Page
                                                                                                                                               7
    325 *> on ACCEPT OMITTED
            78 COB-SCR-INSERT
    326
                                                 VALUE 2011.
            78 COB-SCR-DELETE
                                                 VALUE 2012.
    327
            78 COB-SCR-BACKSPACE VALUE 2013.
    328
            78 COB-SCR-KEY-HOME VALUE 2014.
    329
           78 COB-SCR-KEY-END
    330
                                                VALUE 2015.
    331 *> Input validation - Values 8xxx
    332
            78 COB-SCR-NO-FIELD VALUE 8000.
    333 78 COB-SCR-TIME-OUT
                                                VALUE 8001.
    334 *> Other errors - Values 9xxx
    335 78 COB-SCR-FATAL VALUE 9000.
    336 78 COB-SCR-MAX-FIELD VALUE 9001.
    337
                   >>source fixed
    338 GC0712 01 WS-Compilation-Switches-TXT.
    339 GC0712
                            05 WS-CS-Args-TXT VALUE SPACES.
   340 GC0712 10 WS-CS-Arg-H1-TXT PIC X(76).

341 GC0712 10 WS-CS-Arg-H2-TXT PIC X(76).

342 GC0712 05 WS-CS-Filenames-TXT.

343 GC0712 10 VALUE 'BS2000' PIC X(9).

344 GC0712 10 VALUE 'COBOL85' PIC X(9).

345 GC0712 10 VALUE 'COBOL2002' PIC X(9).

346 GC0712 10 VALUE 'DEFAULT' PIC X(9).

347 GC0712 10 VALUE 'IBM' PIC X(9).

348 GC0712 10 VALUE 'MF' PIC X(9).

349 GC0712 10 VALUE 'MF' PIC X(9).

350 GC0712 05 WS-CS-Filenames-TAble-TXT REDEFINES WS-CS-Filenames-TXT.

351 GC0712 10 WS-CS-Filename-TXT OCCURS 7 TIMES
                           10 WS-CS-Arg-H1-TXT
10 WS-CS-Arg-H2-TXT
    340 GC0712
                                                                                     PIC X(76).
    351 GC0712 10 WS-CS-Filename-TXT OCCURS 7 TIMES
    352 GC0712
                                                                                     PIC X(9).
    353 GC0712 >>IF F12 < 1
    354 GC0712 05 WS-CS-Config-NUM VALUE 4
                                                                                     PIC 9(1).
    355 GC0712 >>ELIF F12 > 7
    356 GC0712 05 WS-CS-Config-NUM
                                                                VALUE 4
                                                                                     PIC 9(1).
    357 GC0712 >>ELSE
    358 GC0712 05 WS-CS-Config-NUM VALUE F12
                                                                                     PIC 9(1).
    359 GC0712 >>END-IF
    360 GC0712 05 WS-CS-Extra-TXT VALUE SPACES.
   360 GC0712 05 WS-CS-Extra-TXT VALUE SPACES.
361 GC0712 10 WS-CS-Extra-H1-TXT
362 GC0712 10 WS-CS-Extra-H2-TXT
363 GC0712 05 WS-CS-Switch-Defaults-TXT.
364 GC0712 10 VALUE F1
365 GC0712 10 VALUE F8
366 GC0712 10 VALUE F8
367 GC0712 10 VALUE F3
368 GC0712 10 VALUE F5
369 GC0712 10 VALUE F5
370 GC0712 10 VALUE F6
370 GC0712 10 VALUE F9
371 GC0712 10 VALUE F9
371 GC0712 10 VALUE F7
373 GC0712 10 VALUE F7
                                                                                     PIC X(76).
                                                                                     PIC X(76).
                                                                                     PIC 9(1). *> WS-CS-DEBUG-CHR
                                                                                     PIC 9(1). *> WS-CS-EXECUTE-CHR
                                                                                     PIC 9(1). *> WS-CS-FREE-CHR
                                                                                     PIC 9(1). *> WS-CS-LIBRARY-CHR
                                                                                     PIC 9(1). *> WS-CS-LISTING-CHR
                                                                                     PIC 9(1). *> WS-CS-NOFUNC-CHR
                                                                                      PIC 9(1). *> WS-CS-NOTRUNC-CHR
                                                                                      PIC 9(1). *> WS-CS-TRACEALL-CHR
                                                                                     PIC 9(1). *> WS-CS-WARNALL-CHR
    373 GC0712 05 WS-CS-All-Switches-TXT REDEFINES
    374 GC0712
                                                                 WS-CS-Switch-Defaults-TXT.

      375
      GC0712
      10 WS-CS-DEBUG-CHR

      376
      GC0712
      10 WS-CS-EXECUTE-CHR

      377
      GC0712
      10 WS-CS-FREE-CHR

      378
      GC0712
      10 WS-CS-LIBRARY-CHR

                                                                                     PIC X(1).
                                                                                     PIC X(1).
                                                                                    PIC X(1).
                                                                                    PIC X(1).
```

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ACS Cobol Xref v2.02.04
                               Dictionary File for GCIC 06/03/2022 23:09:10:97 Page
                                                                                           8
  379 GC0712
                   10 WS-CS-LISTING-CHR
                                                      PIC X(1).
  380 GC0712
                    10 WS-CS-NOFUNC-CHR
                                                      PIC X(1).
  381 GC0712
                    10 WS-CS-NOTRUNC-CHR
                                                      PIC X(1).
  382 GC0712
                    10 WS-CS-TRACEALL-CHR
                                                      PIC X(1).
  383 GC0712
                   10 WS-CS-WARNALL-CHR
                                                      PIC X(1).
  384
  385 GC0909 01 WS-Cmd-TXT
                                                      PIC X(512).
  386
  387 GC0712 01 WS-Cmd-Args-TXT
                                                      PIC X(256).
  388
  389 GC0712 01 WS-Cmd-End-Quote-CHR
                                                      PIC X(1).
  390
  391 GC0712 01 WS-Cmd-SUB
                                                      USAGE BINARY-LONG.
  392
             01 WS-Cobc-Cmd-TXT
                                                      PIC X(256).
  393
  394
             01 WS-Config-Fn-TXT
                                                      PIC X(12).
  395
  396
  397 GC1113 01 WS-Delete-Fn-TXT
                                                      PIC X(256).
  398
  399
              01 WS-File-Name-TXT.
  400
                 05 WS-FN-CHR
                                                      OCCURS 256 TIMES
  401
                                                      PIC X(1).
  402
  403
            01 WS-File-Status-Message-TXT.
  404
                 05 VALUE 'Status Code: '
                                                    PIC X(13).
                                                     PIC 9(2).
  405
                 05 WS-FSM-Status-CD
                                                   PIC X(11).
PIC X(25).
  406
                 05 VALUE ', Meaning: '
  407
                 05 WS-FSM-Msg-TXT
  408
                                           PIC X(80).
  409 GC0909 01 WS-Horizontal-Line-TXT
  410 GC0909
                                                      USAGE BINARY-LONG.
  411 01 WS-I-SUB
  412
  413
            01 WS-J-SUB
                                                      USAGE BINARY-LONG.
  414
  415 GC1213 01 WS-Listing-CD VALUE F5
                                                      PIC 9(1).
  416
  417 GCO712 01 WS-Listing-Filename-TXT
                                                      PIC X(256).
  418
  419 GC1213 01 WS-Listing-TXT VALUE SPACES
                                                      PIC X(27).
  420
  421
              01 WS-OC-Compile-DT
                                                      PIC XXXX/XX/XXBXX/XX.
  422
  423 GCO712 >>IF OS = 'CYGWIN'
  424 GCO712 01 WS-OS-Dir-CHR
                                       VALUE '/'
                                                      PIC X(1).
  425 GC0712 78 WS-OS-Exe-Ext-CONST VALUE '.exe'.
426 GC0712 78 WS-OS-Lib-Ext-CONST VALUE '.dll'.
  427 GCO712 78 WS-OS-Lib-Type-CONST VALUE 'DLL)'.
  428 GC0712 01 WS-OS-Type-CD
                                       VALUE 2
                                                      PIC 9(1).
  429 GCO712 >>ELIF OS = 'MINGW'
  430 GC0712 01 WS-OS-Dir-CHR
                                       VALUE '\'
                                                      PIC X(1).
  431 GCO712 78 WS-OS-Exe-Ext-CONST VALUE '.exe'.
  432 GC0712 78 WS-OS-Lib-Ext-CONST VALUE '.dll'.
```

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ACS Cobol Xref v2.02.04
                                Dictionary File for GCIC
                                                           06/03/2022 23:09:10:97
                                                                                     Page
                                                                                             9
  433 GCO712 78 WS-OS-Lib-Type-CONST VALUE 'DLL)'.
  434 GC0712 01 WS-OS-Type-CD
                                        VALUE 5
                                                       PIC 9(1).
  435 GC0712 >>ELIF OS = 'OSX'
  436 GC0712 01 WS-OS-Dir-CHR
                                        VALUE '/'
                                                       PIC X(1).
                                        VALUE ''.
  437 GC0712 78 WS-OS-Exe-Ext-CONST
                                        VALUE '.dylib'.
  438 GC0712 78 WS-OS-Lib-Ext-CONST
  439 GCO712 78 WS-OS-Lib-Type-CONST VALUE 'DYLIB)'.
  440 GC0712 01 WS-OS-Type-CD
                                        VALUE 4
                                                       PIC 9(1).
  441 GC0712 >>ELIF OS = 'UNIX'
  442 GC0712 01 WS-OS-Dir-CHR
                                        VALUE '/'
                                                       PIC X(1).
  443 GCO712 78 WS-OS-Exe-Ext-CONST
                                        VALUE ' '.
  444 GCO712 78 WS-OS-Lib-Ext-CONST
                                        VALUE '.so'.
  445 GCO712 78 WS-OS-Lib-Type-CONST VALUE 'SO)'.
  446 GC0712 01 WS-OS-Type-CD
                                        VALUE 3
                                                       PIC 9(1).
  447 GCO712 >>ELIF OS = 'WINDOWS'
                                        VALUE '\'
                                                       PIC X(1).
  448 GC0712 01 WS-OS-Dir-CHR
   449 GCO712 78 WS-OS-Exe-Ext-CONST VALUE '.exe'.
   450 GC0712 78 WS-OS-Lib-Ext-CONST
                                       VALUE '.dll'.
   451 GCO712 78 WS-OS-Lib-Type-CONST VALUE 'DLL)'.
   452 GC0712 01 WS-OS-Type-CD
                                        VALUE 1
                                                       PIC 9(1).
   453 GC0712 >>END-IF
   454 GC0909
                  88 WS-OS-Windows-BOOL VALUE 1, 5.
   455 GC0909
                  88 WS-OS-Cygwin-BOOL VALUE 2.
                  88 WS-OS-UNIX-BOOL
   456 GC0712
                                        VALUE 3, 4.
                  88 WS-OS-OSX-BOOL
   457 GC0712
                                        VALUE 4.
   458
   459
              01 WS-OS-Type-FILLER-TXT.
   460
                  05 VALUE 'Windows'
                                                       PIC X(14).
                  05 VALUE 'Windows/Cygwin'
   461
                                                       PIC X(14).
   462
                  05 VALUE 'UNIX/Linux'
                                                       PIC X(14).
   463
                  O5 VALUE 'OSX'
                                                       PIC X(14).
  464
                  05 VALUE 'Windows/MinGW'
                                                       PIC X(14).
              01 WS-OS-Types-TXT REDEFINES WS-OS-Type-FILLER-TXT.
  465
  466
                  05 WS-OS-Type-TXT
                                                       OCCURS 5 TIMES
  467
                                                       PIC X(14).
  468
   469
              01 WS-Output-Msg-TXT
                                                       PIC X(80).
   470
   471
              01 WS-Path-Delimiter-CHR
                                                       PIC X(1).
   472
   473
              01 WS-Prog-Extension-TXT
                                                       PIC X(256).
   474
  475
              01 WS-Prog-Folder-TXT
                                                       PIC X(256).
  476
   477
       GC0712 01 WS-Prog-File-Name-TXT.
       GC0712
                  05 WS-PFN-CHR
                                                       OCCURS 256 TIMES
   478
  479
       GC0712
                                                       PIC X(1).
   480
       GC0712 01 WS-Pgm-Nm-TXT
   481
                                                       PIC X(31).
   482
   483
              01 WS-Runtime-Switches-TXT.
   484
                  05 WS-RS-Compile-OK-CHR
                                                       PIC X(1).
   485
                   88 WS-RS-Compile-OK-BOOL
                                                       VALUE 'Y'.
                                                       VALUE 'W'.
   486 GC0909
                   88 WS-RS-Compile-OK-Warn-BOOL
```

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ACS Cobol Xref v2.02.04
                           Dictionary File for GCIC
                                                  06/03/2022 23:09:10:97 Page
                                                                              10
  487
                 88 WS-RS-Compile-Failed-BOOL
                                               VALUE 'N'.
  488 GC0609
               05 WS-RS-Complete-CHR
                                               PIC X(1).
               88 WS-RS-Complete-BOOL
  489 GC0609
                                              VALUE 'Y'.
                88 WS-RS-Not-Complete-BOOL
                                              VALUE 'N'.
  490 GC0609
             05 WS-RS-Quote-CHR
  491 GC0712
                                              PIC X(1).
                88 WS-RS-Double-Quote-Used-BOOL VALUE 'Y' FALSE 'N'.
  492 GC0712
  493 GC0809
              05 WS-RS-IDENT-DIV-CHR
                                              PIC X(1).
               88 WS-RS-1st-Prog-Complete-BOOL
  494 GC0809
                                              VALUE 'Y'.
  495 GC0809
                                              VALUE 'N'.
                 88 WS-RS-More-To-1st-Prog-BOOL
                                              PIC X(1).
  496
              05 WS-RS-No-Switch-Chgs-CHR
  497
                 88 WS-RS-No-Switch-Changes-BOOL VALUE 'Y'.
                 88 WS-RS-Switch-Changes-BOOL
  498
                                             VALUE 'N'.
  499 GC0709
              05 WS-RS-Output-File-Busy-CHR
                                              PIC X(1).
               88 WS-RS-Output-File-Busy-BOOL
  500 GC0709
                                              VALUE 'Y'.
  501 GC0709
                 88 WS-RS-Output-File-Avail-BOOL
                                              VALUE 'N'.
  502 GC0809 05 WS-RS-Source-Record-Type-CHR
                                              PIC X(1).
               88 WS-RS-Source-Rec-Linkage-BOOL VALUE 'L'.
  503 GC0809
               88 WS-RS-Source-Rec-Ident-BOOL
  504 GC0809
                                               VALUE 'I'.
  505 GC0712
                88 WS-RS-Source-Rec-Ignored-BOOL VALUE ' '.
                                       PIC X(1).
  506
              05 WS-RS-Switch-Error-CHR
  507
                  88 WS-RS-Switch-Is-Bad-BOOL
                                             VALUE 'Y'.
  508
                  88 WS-RS-Switch-Is-Good-BOOL
                                              VALUE 'N'.
  509
  510
            01 WS-Tally-QTY
                                               USAGE BINARY-LONG.
  511
  512
            SCREEN SECTION.
  513
  514
           *> Here is the layout of the GCic screen.
  515
           *>
  516
           *> The sample screen below shows how the screen would look if the LINEDRAW
           *> configuration setting is set to a value of 2
  517
  518
           *>
  519
           *> The following sample screen layout shows how the screen looks with line-drawing
           *> characters disabled.
  520
  521
           *>
                           2 3 4 5
  522
                                                             6
                    1
  523
           *>12345678901234567890123456789012345678901234567890123456789012345678901234567890
  524
           525 VC 01 *> GCic (2020/08/11 23:00) - GNU COBOL V3.1 01July2020 Interactive Compilation
  526
         02 *>+-----
  527
         03 *> | Folder: E:\GNU COBOL\Samples
  528
        04 *>| Filename: GCic.cbl
  529
        05 *>+-----+
  530
        06 *> Set/Clr Switches Via F1-F9; Set Config Via F12; ENTER Key Compiles; ESC Quits
  531
        07 *>+-----
        08 *> F1 Assume WITH DEBUGGING MODE F6 "FUNCTION" Is Optional
  532
                                                                 | Current
        09 *>| F2 Procedure+Statement Trace F7 Enable All Warnings | Config: |
10 *>| F3 Make A Library (DLL) F8 Source Is Free-Format | XXXXXXXXXX |
11 *>| F4 Execute If Compilation OK F9 No COMP/BINARY Truncation |
  533
  534
  535
  536
        12 *>| F5 >Produce Listing (Landscape)
  537
        13 *>+-----
         14 *> Extra "cobc" Switches, If Any ("-save-temps=xxx" Prevents Listings):
  538
        15 *>+-----
  539
  540
```

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ACS Cobol Xref v2.02.04
                        Dictionary File for GCIC 06/03/2022 23:09:10:97 Page
       17 *>| ______ |
       18 *>+-----
  542
       19 *> Program Execution Arguments, If Any:
  543
       20 *>+-----
  544
  545
       21 *>| ______ |
  546
       22 *>| ______ |
        23 *>+-----+
  547
  548 VC 24 *> GCic Copyright (C) 2009-2022, Gary L. Cutler, GPL
          549
          550
  551
              1 2 3 4 5 6 7 8
          *>
  552
  553
          *> If this program is run on Windows, it must run with codepage 437 activated to
          *> display the line-drawing characters. With a native Windows build or a
  554
          *> Windows/MinGW build, one could use the command 'chcp 437' to set that codepage
  555
          *> for display within a Windows console window (that should be the default though).
  556
          *> With a Windows/Cygwin build, set the environment variable CYGWIN to a value of
  557
  558
          *> 'codepage:oem' (this cannot be done from within the program though - you will
  559
          *> have to use the 'Computer/Advanced System Settings/Environment Variables' (Vista
  560
          *> or Windows 7) function to define the variable. XP Users: use 'My Computer/
  561
          *> Properties/Advanced/Environment Variables'.
  562
  563
          *> OSX users may use line drawing characters in this and any GNU COBOL program
  564
          *> simply by setting their 'terminal' application's font to "Lucida Console".
  565
          >>IF LINEDRAW IS EQUAL TO O
  566
  567
          78 LD-UL-Corner
                                  VALUE ' '.
  568
          78 LD-LL-Corner
                                  VALUE ' '.
          78 LD-UR-Corner
                                  VALUE ''.
  569
  570
          78 LD-LR-Corner
                                  VALUE ''.
  571
          78 LD-Upper-T
                                  VALUE ''.
          78 LD-Lower-T
                                  VALUE ''.
  572
          78 LD-Horiz-Line
                                  VALUE ''.
  573
                                  VALUE ''.
  574
          78 LD-Vert-Line
          >>ELIF LINEDRAW IS EQUAL TO 1
  575
  576
          78 LD-UL-Corner
                                  VALUE X'DA'.
          78 LD-LL-Corner
  577
                                  VALUE X'CO'.
          78 LD-UR-Corner
  578
                                  VALUE X'BF'.
          78 LD-LR-Corner
  579
                                  VALUE X'D9'.
          78 LD-Upper-T
  580
                                  VALUE X'C2'.
  581
          78 LD-Lower-T
                                  VALUE X'C1'.
  582
          78 LD-Horiz-Line
                                  VALUE X'C4'.
  583
          78 LD-Vert-Line
                                  VALUE X'B3'.
  584
          >>ELSE
  585
          78 LD-UL-Corner
                                  VALUE '+'.
  586
          78 LD-LL-Corner
                                  VALUE '+'.
  587
          78 LD-UR-Corner
                                  VALUE '+'.
  588
          78 LD-LR-Corner
                                  VALUE '+'.
                                  VALUE '+'.
  589
          78 LD-Upper-T
          78 LD-Lower-T
                                  VALUE '+'.
  590
                                  VALUE '-'.
  591
          78 LD-Horiz-Line
          78 LD-Vert-Line
                                  VALUE '|'.
  592
          >>END-IF
  593
  594
```

ACS Cob	ol Xref v	2.02.04	:		Dic	ctic	nary	File	for G	C]	IC	06/03/	2022	23:09:10:	97	Page	12
595 596	0:	1 S-Bla	nk-SCF	R LI	NE 1	L CC	LUMN	1 BL	ANK SC	RI	EEN.						
597	0:	1 S-Swi	tches-	-SCR													
598					FOF	REGF	ROUND	-COLOI	R COB-	-C(OLOR-W	HITE A	UTO.				
599	*>																
600		GENERA	L SCRE	ΞEN	FRAN	1EWC	JRK										
601	*>	02 D4	.CKGROU	TATE	COT C	חם כ	מ מחי	ים מס זס	OT ACIZ								
602 603			REGROU							и	гсні тс	шт					
	GC0712		LINE									Corner					
605	GC0712											izonta		e-TXT.			
606		05			COL							Corner					
607																	
608	GC0712	05	LINE	03	COL	01			VALUE	ΞΙ	LD-Ver	t-Line					
609		05	i		COL	80			VALUE	ΞΙ	LD-Ver	t-Line					
610																	
	GC0712		LINE	04								t-Line					
612		05	•		COL	80			VALUE	: I	_D-Ver	t-Line	•				
613 614	GC0712	05	LINE	05	COT	Λ1			WALLE	, т	D-11-	Corner					
	GC0712	05										izonta		e-TXT.			
616	000112	05			COL		110	11(10)				Corner		0 11111			
617																	
618	GC0712	05	LINE	07	COL	01			VALUE	Ξ Ι	LD-UL-	Corner					
619	GC0712	05	i				PIC	X(65)	FROM	V	WS-Hor	izonta	l-Lin	e-TXT.			
	GC0712	05			COL						LD-Upp						
621	GC0712	05					PIC	X(12)				izonta		e-TXT.			
622 623		05	•		COL	80			VALUE	: I	_D-UR-	Corner	•				
	GC0712	05	LINE	08	COI	01			VALUE	, 1	D-Ver	t-Line					
625	GC0712	05			COL							t-Line					
626		05			COL							t-Line					
627																	
628	GC0712	05	LINE	09	COL	01			VALUE	Ι	LD-Ver	t-Line					
629	GC0712	05			COL							t-Line					
630		05	•		COL	80			VALUE	Ι	LD-Ver	t-Line	•				
631	GC0712	05	LINE	10	COT	Λ1			WATITE	, т	D-Vor	t-Line					
633	GC0712	05			COL							t-Line					
634	400.12	05			COL							t-Line					
635																	
636	GC0712	05	LINE	11	COL	01			VALUE	ΞΙ	LD-Ver	t-Line					
637	GC0712	05	;		COL							t-Line					
638		05	i		COL	80			VALUE	Ι	LD-Ver	t-Line					
639	220E10			4.0	201												
640	GC0712		LINE									t-Line					
641 642	GC0712	05 05			COL							t-Line t-Line					
643		00	•		JUL	-			VALUE	. 1	ACT OF	2 PIHE	•				
644	GC0712	05	LINE	13	COL	01			VALUE	Ι	LD-LL-	Corner					
645	GC0712	05					PIC	X(65)				izonta		e-TXT.			
646	GC0712	05	•		COL	67			VALUE	Ι	LD-Low	er-T.					
647	GC0712	05					PIC	X(12)				izonta		e-TXT.			
648		05	•		COL	80			VALUE	Ι	LD-LR-	Corner	•				

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ACS Cobol Xref v2.02.04
                                Dictionary File for GCIC
                                                             06/03/2022 23:09:10:97
                                                                                       Page
                                                                                             13
  649
  650
                    05 LINE 15 COL 01
                                                 VALUE LD-UL-Corner.
       GC0712
                               COL 02 PIC X(78) FROM WS-Horizontal-Line-TXT.
  651
       GC0712
                    05
  652
                    05
                                COL 80
                                                 VALUE LD-UR-Corner.
  653
                    05 LINE 16 COL 01
  654
       GC0712
                                                 VALUE LD-Vert-Line.
                               COL 80
                                                 VALUE LD-Vert-Line.
  655
  656
  657 GC0712
                    05 LINE 17 COL 01
                                                 VALUE LD-Vert-Line.
  658
                               COL 80
                                                 VALUE LD-Vert-Line.
  659
                    05 LINE 18 COL 01
  660 GC0712
                                                 VALUE LD-LL-Corner.
  661 GC0712
                               COL 02 PIC X(78) FROM WS-Horizontal-Line-TXT.
                                                 VALUE LD-LR-Corner.
  662
                               COL 80
  663
  664 GC0712
                    05 LINE 20 COL 01
                                                 VALUE LD-UL-Corner.
  665 GC0712
                               COL 02 PIC X(78) FROM WS-Horizontal-Line-TXT.
   666
                               COL 80
                                                VALUE LD-UR-Corner.
   667
   668
       GC0712
                    05 LINE 21 COL 01
                                                VALUE LD-Vert-Line.
   669
                                COL 80
                                                 VALUE LD-Vert-Line.
   670
   671
      GC0712
                    05 LINE 22 COL 01
                                                 VALUE LD-Vert-Line.
  672
                                COL 80
                                                 VALUE LD-Vert-Line.
  673
                    05 LINE 23 COL 01
   674 GC0712
                                                 VALUE LD-LL-Corner.
   675 GC0712
                                COL 02 PIC X(78) FROM WS-Horizontal-Line-TXT.
                    05
  676
                    05
                                COL 80
                                                 VALUE LD-LR-Corner.
  677
             *>
             *> TOP AND BOTTOM LINES
  678
  679
             *>
  680 GC0712
                 O3 BACKGROUND-COLOR COB-COLOR-BLUE
                    FOREGROUND-COLOR COB-COLOR-WHITE HIGHLIGHT.
  681
  682 GC0410
                    O5 LINE O1 COL O1 VALUE ' GCic ('.
  683 GC0410
                    05
                                COL 08 PIC X(16) FROM WS-OC-Compile-DT.
  684 GC1213
                                COL 24 VALUE ') GNUCOBOL 3.1.2 O6MAR2022 ' &
   685 GC0410
                                             'Interactive Compilation
                 O3 BACKGROUND-COLOR COB-COLOR-RED
   686 VC0617
                    FOREGROUND-COLOR COB-COLOR-WHITE HIGHLIGHT.
   687
       GC0712
   688
       GC0712
                    05 LINE 24 COL 01 PIC X(80) FROM WS-Output-Msg-TXT.
   689
             *>
   690
             *> LABELS
   691
   692
                  O3 BACKGROUND-COLOR COB-COLOR-BLACK
   693
                    FOREGROUND-COLOR COB-COLOR-CYAN HIGHLIGHT.
  694 GC0712
                    05 LINE 06 COL 02 VALUE 'Set/Clr Switches Via F1-F9; ' &
   695
       GC0712
                                             'Set Config Via F12; Enter Key ' &
       GC0712
  696
                                             'Compiles; Esc Quits'.
       GC0712
  697
                    05 LINE 14 COL 02 VALUE 'Extra "cobc" Switches, If Any ' &
  698 GC0712
                                             '("-save-temps=xxx" Prevents '
  699 GC0712
                                             'Listings):'.
  700 GC0712
                    05 LINE 19 COL 02 VALUE 'Program Execution Arguments, ' &
  701 GC0712
                                             'If Any:'.
                 O3 BACKGROUND-COLOR COB-COLOR-BLACK
  702 GC0712
```

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ACS Cobol Xref v2.02.04
                                                Dictionary File for GCIC 06/03/2022 23:09:10:98 Page
    703 GC0712
                            FOREGROUND-COLOR COB-COLOR-WHITE HIGHLIGHT.
   703 GC0712 FOREGROUND-CULUR COB-CULUR-WH
704 GC0712 05 LINE 06 COL 23 VALUE 'F1'.
705 GC0712 05 COL 26 VALUE 'F9'.
706 GC0712 05 COL 45 VALUE 'F12'
707 GC0712 05 COL 50 VALUE 'ENTE
708 GC0712 05 COL 70 VALUE 'ESC'
                                            COL 45 VALUE 'F12'.
                                      COL 50 VALUE 'ENTER'.
                                             COL 70 VALUE 'ESC'.
    709 *>
    710
                  *> TOP SECTION BACKGROUND
    711
    712
                         O3 BACKGROUND-COLOR COB-COLOR-BLACK
    713
                          FOREGROUND-COLOR COB-COLOR-WHITE HIGHLIGHT.
    714 GC0712
                            05 LINE 03 COL 62 VALUE 'Enter'.
    715 GC0712 05 LINE 04 COL 62 VALUE 'Esc'.
    716
                       O3 BACKGROUND-COLOR COB-COLOR-BLACK
    717
                           FOREGROUND-COLOR COB-COLOR-GREEN HIGHLIGHT.
    718
    719 GC0712 05 LINE 04 COL 03 VALUE 'Folder: '.
720 GC0712 05 LINE 03 COL 03 VALUE 'Filename: '.
                           05 LINE 04 COL 03 VALUE 'Folder: '.
    721
    722 GC0712 05 LINE 03 COL 67 VALUE ': Compile '. 723 GC0712 05 LINE 04 COL 65 VALUE ': Quit
    724
    725
                    *> TOP SECTION PROGRAM INFO
    726
    727
                          O3 BACKGROUND-COLOR COB-COLOR-BLACK
                           FOREGROUND-COLOR COB-COLOR-WHITE HIGHLIGHT.
    728
    729 GC0712
                              05 LINE 03 COL 13 PIC X(66) FROM WS-Prog-File-Name-TXT.
                         05 LINE 04 COL 13 PIC X(66) FROM WS-Prog-Folder-TXT.
    730 GC0712
    731 *>
                   *> MIDDLE LEFT SECTION F-KEYS
    732
    733
                 03 BACKGROUND-COLOR COB-COLOR-BLACK
    734
                        FOREGROUND-COLOR COB-COLOR-WHITE HIGHLIGHT.
    735
    736 GC0712 O5 LINE 08 COL 03 VALUE 'F1'.
737 GC0712 O5 LINE 09 COL 03 VALUE 'F2'.
738 GC0712 O5 LINE 10 COL 03 VALUE 'F3'.
739 GC0712 O5 LINE 11 COL 03 VALUE 'F4'.
740 GC0712 O5 LINE 12 COL 03 VALUE 'F5'.
    741
    742 GC0712 05 LINE 08 COL 35 VALUE 'F6'.
743 GC0712 05 LINE 09 COL 35 VALUE 'F7'.
744 GC0712 05 LINE 10 COL 35 VALUE 'F8'.
745 GC0712 05 LINE 11 COL 35 VALUE 'F9'.
    746
    747
                    *> MIDDLE LEFT SECTION SWITCHES
    748
    749
                          O3 BACKGROUND-COLOR COB-COLOR-BLACK
    750
                              FOREGROUND-COLOR COB-COLOR-RED HIGHLIGHT.
   FOREGROUND-COLOR COB-COLOR-RED HIGHLIGHT.

751 GC0712 05 LINE 08 COL 06 PIC X(1) FROM WS-CS-DEBUG-CHR.

752 GC0712 05 LINE 09 COL 06 PIC X(1) FROM WS-CS-TRACEALL-CHR.

753 GC0712 05 LINE 10 COL 06 PIC X(1) FROM WS-CS-LIBRARY-CHR.

754 GC0712 05 LINE 11 COL 06 PIC X(1) FROM WS-CS-EXECUTE-CHR.

755 GC0712 05 LINE 12 COL 06 PIC X(1) FROM WS-CS-LISTING-CHR.
    756
```

28 September 2024

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ACS Cobol Xref v2.02.04
                                           Dictionary File for GCIC
                                                                                06/03/2022 23:09:10:98 Page 15
   757 GC0712
                          05 LINE 08 COL 38 PIC X(1) FROM WS-CS-NOFUNC-CHR.
   758 GC0712
                           05 LINE 09 COL 38 PIC X(1) FROM WS-CS-WARNALL-CHR.
                      05 LINE 10 COL 38 PIC X(1) FROM WS-CS-NOTRUNC-CHR.
   759 GC0712
   760 GC0712
   761
                  *> MIDDLE LEFT SECTION BACKGROUND
   762
   763
   764
                       O3 BACKGROUND-COLOR COB-COLOR-BLACK
   765
                         FOREGROUND-COLOR COB-COLOR-GREEN HIGHLIGHT.
   766 GC0712
                           05 LINE 08 COL 07 VALUE 'Assume WITH DEBUGGING MODE'.
   766 GC0712 O5 LINE O8 COL O7 VALUE 'ASSUME WITH DEBOGGING HODE'.
767 GC0712 O5 LINE O9 COL O7 VALUE 'Procedure+Statement Trace '.
768 GC0712 O5 LINE 10 COL O7 VALUE 'Make a Library ('.
769 GC0712 O5 COL 23 VALUE WS-OS-Lib-Type-CONST.
770 GC0712 O5 LINE 11 COL O7 VALUE 'Execute If Compilation OK '.
771 GC1213 O5 LINE 12 COL O7 FROM WS-Listing-TXT.
   772
773 GC0712
05 LINE 08 COL 39 VALUE '"FUNCTION" Is Optional '.
774 GC0712
05 LINE 09 COL 39 VALUE 'Enable All Warnings '.
775 GC0712
05 LINE 10 COL 39 VALUE 'Source Is Free-Format '.
776 GC0712
05 LINE 11 COL 39 VALUE 'No COMP/BINARY Truncation '.
   772
   777
   778
                  *> MIDDLE RIGHT SECTION Text
   779
   780
                       O3 BACKGROUND-COLOR COB-COLOR-BLACK
                         FOREGROUND-COLOR COB-COLOR-GREEN HIGHLIGHT.
   781
   782 GC0712
                           05 LINE 08 COL 69 VALUE 'Current'.
   783 GC0712
                           05 LINE 09 COL 69 VALUE 'Config:'.
   784
                  *> MIDDLE RIGHT SECTION CONFIG FILE
   785
   786
   787
                       O3 BACKGROUND-COLOR COB-COLOR-BLACK
   788
                        FOREGROUND-COLOR COB-COLOR-WHITE HIGHLIGHT.
   789 GC0712
                           05 LINE 10 COL 69 PIC X(10)
   790 GC0712
                           FROM WS-CS-Filename-TXT (WS-CS-Config-NUM).
   791
                *>
   792
                 *> FREE-FORM OPTIONS FIELDS
   793
   794
                       O3 BACKGROUND-COLOR COB-COLOR-BLACK
                        FOREGROUND-COLOR COB-COLOR-WHITE HIGHLIGHT.
   795
   796 GC0712
                          05 LINE 16 COL 03 PIC X(76) USING WS-CS-Extra-H1-TXT.
                    O5 LINE 16 COL O3 PIC X(76) USING WS-CS-Extra-H1-TXT.
O5 LINE 17 COL O3 PIC X(76) USING WS-CS-Extra-H2-TXT.
O5 LINE 21 COL O3 PIC X(76) USING WS-CS-Arg-H1-TXT.
   797 GC0712
   798 GC0712
   799 GC0712
                           05 LINE 22 COL 03 PIC X(76) USING WS-CS-Arg-H2-TXT.
   800
   801
                  PROCEDURE DIVISION.
   802
                  *>*******************
   803
                  *> Legend to procedure names:
   804
                *> 00x-xxx All MAIN driver procedures

*> 0xx-xxx All GLOBAL UTILITY procedures

*> 1xx-xxx All INITIALIZATION procedures

*> 2xx-xxx All CORE PROCESSING procedures

*> 9xx-xxx All TERMINATION procedures
   805
   806
   807
   808
   809
   810
```

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ACS Cobol Xref v2.02.04
                         Dictionary File for GCIC 06/03/2022 23:09:10:98 Page 16
          DECLARATIVES.
  812
          000-File-Error SECTION.
  813
           USE AFTER STANDARD ERROR PROCEDURE ON F-Source-Code-FILE.
          * COPY FileStat-Msgs
  814
  815
          * REPLACING STATUS BY WS-FSM-Status-CD
  816
                 MSG BY WS-FSM-Msg-TXT.
          817
          *> ** Author: Gary L. Cutler
  818
          *> ** CutlerGL@gmail.com
  819
                                                              **
  820
          *> **
                                                              **
  821
          *> ** This copybook defines an EVALUATE statement capable of
          *> ** translating two-digit FILE-STATUS codes to a message.
          *> ** Use the REPLACING option to COPY to change the names of **
          *> ** the MSG and STATUS identifiers to the names your program **
 EVALUATE WS-FSM-Status-CD
WHEN OO MOVE 'SUCCESS
              WHEN 61 MOVE 'FILE SHARING FAILURE ' TO WS-FSM-Msg-TXT
WHEN 91 MOVE 'FILE NOT AVAILABLE ' TO WS-FSM-Msg-TXT
  857
  858
  859
              END-EVALUATE.
  860 *>>W Msg29 Caution: One or more replacing sources not found
      MOVE SPACES TO WS-Output-Msg-TXT
  861
  862
              IF WS-FSM-Status-CD = 35
                 DISPLAY
  863
  864
                     'File not found: "'
```

28 September 2024

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ACS Cobol Xref v2.02.04
                         Dictionary File for GCIC
                                               06/03/2022 23:09:10:98 Page
                                                                         17
  865
                    TRIM(WS-File-Name-TXT,TRAILING)
  866
  867
              ELSE
  868
                 DISPLAY
                    'Error accessing file: "'
  869
  870
                    TRIM(WS-File-Name-TXT, TRAILING)
  871
  872
              END-IF
              GOBACK
  873
  874
  875
           END DECLARATIVES.
  876
  877
           000-Main SECTION.
  878
              PERFORM 100-Initialization
  879 GC0609
              SET WS-RS-Not-Complete-BOOL TO TRUE
  880 GC0609
              PERFORM UNTIL WS-RS-Complete-BOOL
  881 GC0609
                 PERFORM 200-Let-User-Set-Switches
  882 GC0609
                 PERFORM 210-Run-Compiler
  883 GC0410
                 IF (WS-RS-Compile-OK-BOOL OR WS-RS-Compile-OK-Warn-BOOL)
  884 GC0712
                 AND (WS-CS-LISTING-CHR > SPACE)
  885 GC0712
                    DISPLAY S-Blank-SCR
  886 GC0410
                    PERFORM 220-Make-Listing
  887 GC0410
               END-IF
  888 GC0709
                 IF (WS-CS-EXECUTE-CHR NOT = SPACES)
  889 GC0709
                 AND (WS-RS-Output-File-Avail-BOOL)
  890 GC0609
                    PERFORM 230-Run-Program
  891 GC0609
                 END-IF
  892 GC0712
                 PERFORM 250-Autoload-Listing
  893 GC0609
             END-PERFORM
              PERFORM 900-Terminate
  894
  895
          * -- Control will NOT return
  896
  897
  898
          899
          *> Perform all program-wide initialization operations
  900
          901
           100-Initialization SECTION.
  902
          903
          *> Make sure full screen-handling is in effect
  904
          905
              SET ENVIRONMENT 'COB_SCREEN_EXCEPTIONS' TO 'Y'
  906
              SET ENVIRONMENT 'COB_SCREEN_ESC'
  907
     VC0617
              SET ENVIRONMENT "COB_EXIT_WAIT"
  908
          *>**********************
  909
          *> Get GCic Compilation Date/Time
          910
  911
              MOVE WHEN-COMPILED (1:12) TO WS-OC-Compile-DT
  912
              INSPECT WS-OC-Compile-DT
  913
                 REPLACING ALL '/' BY ':'
  914
                 AFTER INITIAL SPACE
  915
          *>**********************
  916
          *> Convert WS-CS-All-Switches-TXT to Needed Alphanumeric Values**
  917
          *>**********************
              INSPECT WS-CS-All-Switches-TXT
  918
```

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ACS Cobol Xref v2.02.04
                            Dictionary File for GCIC 06/03/2022 23:09:10:98 Page
                                                                                18
                   REPLACING ALL 'O' BY SPACE
  919
                           ALL '1' BY SELCHAR
  920
                           ALL '2' BY SELCHAR
  921 GC1213
       922
           *> Process filename (the only command-line argument)
  923
           924
  925 GC0712
               ACCEPT WS-Cmd-Args-TXT FROM COMMAND-LINE
  926 GC0712 MOVE 1 TO WS-Cmd-SUB
  927 GC0712 IF WS-Cmd-Args-TXT(WS-Cmd-SUB:1) = '"' OR "'"
               MOVE WS-Cmd-Args-TXT(WS-Cmd-SUB:1)
  928 GC0712
  928 GC0712

929 GC0712

930 GC0712

931 GC0712

932 GC0712

933 GC0712

934 GC0712
                   TO WS-Cmd-End-Quote-CHR
                ADD 1 TO WS-Cmd-SUB
                 UNSTRING WS-Cmd-Args-TXT
                     DELIMITED BY WS-Cmd-End-Quote-CHR
                      INTO WS-File-Name-TXT
                      WITH POINTER WS-Cmd-SUB
  935 GC0712 ELSE
               UNSTRING WS-Cmd-Args-TXT
  936 GC0712
  937 GC0712
                      DELIMITED BY ALL SPACES
  938 GC0712
939 GC0712
                       INTO WS-File-Name-TXT
                       WITH POINTER WS-Cmd-SUB
  940 GC0712 END-IF
  941
              IF WS-File-Name-TXT = SPACES
  942 GC0712
                   DISPLAY 'No program filename was specified'
  943
                   PERFORM 900-Terminate
           * ----- Control will NOT return
  944
  945
               END-IF
  946
           *>************************
           *> Determine if 'Make A Library' feature should be forced 'ON' **
  947
           948
  949
               PERFORM 240-Find-LINKAGE-SECTION
  950
           951
           *> Split 'WS-File-Name-TXT' into 'WS-Prog-Folder-TXT' and
  952
           *> 'WS-Prog-File-Name-TXT'
  953
           954 GC0909
               IF WS-OS-Cygwin-BOOL AND WS-File-Name-TXT (2:1) = ':'
  955 GC0712
                   MOVE '\' TO WS-OS-Dir-CHR
  956 GC0909
               END-IF
  957 GC0712 MOVE LENGTH(WS-File-Name-12)
958 GC0712 PERFORM UNTIL WS-I-SUB = 0
959 GC0712 OR WS-FN-CHR (WS-I-SUB) = V
               MOVE LENGTH(WS-File-Name-TXT) TO WS-I-SUB
               OR WS-FN-CHR (WS-I-SUB) = WS-OS-Dir-CHR
  960
                   SUBTRACT 1 FROM WS-I-SUB
             END-PERFORM
  961
  962
               IF WS-I-SUB = 0
  963
                   MOVE SPACES
                                TO WS-Prog-Folder-TXT
  964
                   MOVE WS-File-Name-TXT TO WS-Prog-File-Name-TXT
  965
               ELSE
  966
                   MOVE '*' TO WS-FN-CHR (WS-I-SUB)
  967
                   UNSTRING WS-File-Name-TXT DELIMITED BY '*'
  968
                       INTO WS-Prog-Folder-TXT
  969
                           WS-Prog-File-Name-TXT
  970 GC0712
                   MOVE WS-OS-Dir-CHR TO WS-FN-CHR (WS-I-SUB)
  971
               FND-TF
  972
               IF WS-Prog-Folder-TXT = SPACES
```

28 September 2024

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ACS Cobol Xref v2.02.04
                           Dictionary File for GCIC
                                                  06/03/2022 23:09:10:98 Page 19
  973
                   ACCEPT WS-Prog-Folder-TXT FROM ENVIRONMENT 'CD'
  974 GC0909
               ELSE
                  CALL 'CBL_CHANGE_DIR'
  975 GC0909
  976 GC0909
                   USING TRIM(WS-Prog-Folder-TXT, TRAILING)
  977
               END-IF
               IF WS-OS-Cygwin-BOOL AND WS-File-Name-TXT (2:1) = ':'
  978 GC0909
               MOVE '/' TO WS-OS-Dir-CHR
  979 GC0712
  980 GC0909
               END-IF
          *>***********************
  981
  982
           *> Split 'WS-Prog-File-Name-TXT' into 'WS-Pgm-Nm-TXT' &
                                                                **
  983
           *> 'WS-Prog-Extension-TXT'
                                                                **
  984
          985 GC0712
              MOVE LENGTH(WS-Prog-File-Name-TXT) TO WS-I-SUB
  986 GC0712 PERFORM UNTIL WS-I-SUB = 0
  987 GCO712 OR WS-PFN-CHR (WS-I-SUB) = ^{\prime}.
  988 GC0712
                  SUBTRACT 1 FROM WS-I-SUB
  989 GC0712 END-PERFORM
990 GC0712 IF WS-I-SUB = 0
               MOVE WS-Prog-File-Name-TXT TO WS-Pgm-Nm-TXT
  991 GC0712
  992 GC0712 M
993 GC0712 ELSE
                  MOVE SPACES
                               TO WS-Prog-Extension-TXT
               MOVE '*' TO WS-PFN-CHR (WS-I-SUB)
  994 GC0712
  995 GC0712
                  UNSTRING WS-Prog-File-Name-TXT DELIMITED BY '*'
  996 GC0712
                      INTO WS-Pgm-Nm-TXT
  997 GC0712
                          WS-Prog-Extension-TXT
  998 GC0712
                  MOVE '.' TO WS-PFN-CHR (WS-I-SUB)
  999 GC0712
               END-IF
 1000
           1001
           *> Build initial Line 24 Message
 1002
          1003 GC0909
              MOVE ALL LD-Horiz-Line TO WS-Horizontal-Line-TXT.
 1004 GC0410
              MOVE CONCATENATE(' GCic for '
 1005 GC0410
                              TRIM(WS-OS-Type-TXT(WS-OS-Type-CD),Trailing)
 1006 VC0811
                              ' Copyright (C) 2009-2022, Gary L. '
                              'Cutler, GPL')
 1007 GC0410
 1008 GC0410
                 TO WS-Output-Msg-TXT.
 1009 GC0909
 1010
           *>****************
 1011
 1012
           *> Show the user the current switch settings and allow them to **
 1013
           *> be changed.
           *>****************
 1014
 1015
            200-Let-User-Set-Switches SECTION.
 1016
               SET WS-RS-Switch-Changes-BOOL TO TRUE
 1017
               PERFORM UNTIL WS-RS-No-Switch-Changes-BOOL
 1018 GC1213
                  EVALUATE WS-Listing-CD
 1019 GC1213
                  WHEN O
 1020 GC1213
                     MOVE 'Listing Off'
                                               TO WS-Listing-TXT
 1021 GC1213
                     MOVE SPACE
                                               TO WS-CS-LISTING-CHR
                  WHEN 1
 1022 GC1213
                  MOVE 'Listing On (Landscape)' TO WS-Listing-TXT
 1023 GC1213
 1024 GC1213
                     MOVE SELCHAR
                                               TO WS-CS-LISTING-CHR
                  WHEN 2
 1025 GC1213
 1026 GC1213
                     MOVE 'Listing On (Portrait)' TO WS-Listing-TXT
```

Chapter GCic

ACS Cob	ol Xref	v2.02.04 Di	ctionary	File fo	or GCIC	06/03/2022	23:09:10:98	Page	20
1027	GC1213	MOVE SEL	CHAR		TO	WS-CS-LISTIN	G-CHR		
1028	GC1213	END-EVALUATE							
1029		ACCEPT S-Swi		3.					
1030		IF COB-CRT-S	TATUS > 0)					
1031		EVALUATE	COB-CRT-	-STATUS					
1032		WHEN	COB-SCR-	-F1					
1033			IF WS-CS-	-DEBUG-C	CHR = SPAC	E			
1034	GC0712		MOVE	SELCHAR	t TO WS-CS	-DEBUG-CHR			
1035			ELSE						
1036			MOVE	' ' TO	WS-CS-DEB	UG-CHR			
1037			END-IF						
	GC0712		COB-SCR-						
	GC0712				LL-CHR =				
	GC0712			SELCHAR	R TO WS-CS	-TRACEALL-CH	R		
1041			ELSE						
1042	GC0712			''TO	WS-CS-TRA	CEALL-CHR			
1043	GC0712		END-IF						
1044	aaa=10		COB-SCR-						
	GC0712				Y-CHR = SP				
1046	GC0712			SELCHAR	t TO WS-CS	-LIBRARY-CHR			
1047	000710		ELSE	, , ,,	ua aa i in	DADY GUD			
1048	GC0712			, , 10	WS-CS-LIB	KARY-CHK			
1049			END-IF	-E4					
1050 1051			COB-SCR-		E-CHR = S	DACE			
	GC0712					-EXECUTE-CHR			
1052	GC0712		ELSE	DELCHAN	i iu wa ca	EXECUTE CIII			
1053				, , TO	WS-CS-EXE	CUTE-CHB			
1055			END-IF	10	WD OD EAL	OOTE OIII			
	GC0712		COB-SCR-	-F5					
1057			ADD 1 TO		ing-CD				
1058	GC1213		IF WS-Lis		•				
1059	GC1213			•	-Listing-	CD			
1060	GC1213		END-IF		_				
1061	GC0712	WHEN	COB-SCR-	-F6					
1062	GC0712		IF WS-CS-	-NOFUNC-	CHR = SPA	CE			
1063	GC0712		MOVE	SELCHAR	TO WS-CS	-NOFUNC-CHR			
1064	GC0712		ELSE						
1065	GC0712		MOVE	' ' TO	WS-CS-NOF	UNC-CHR			
1066	GC0712		END-IF						
	GC0712		COB-SCR-						
1068	GC0712				CHR = SP				
1069				SELCHAR	t TO WS-CS	-WARNALL-CHR			
	GC0712		ELSE						
	GC0712			''TO	WS-CS-WAR	NALL-CHR			
	GC0712		END-IF	TO.					
1073			COB-SCR-		ום – מדועם				
	GC0712				IR = SPACE				
1075 1076	GC0712 GC0712		ELSE	SELCHAR	. 10 WS-08	-FREE-CHR			
1076	GC0712 GC0712			, , TO	WS-CS-FRE	F-CHR			
1077	GC0712 GC0712		END-IF	10	WD OB-LVE	L CIIIt			
1078	GC0712		COB-SCR-	-F9					
1080	GC0712				IC-CHR = S	PACE			
1000					- J D				

```
ACS Cobol Xref v2.02.04
                           Dictionary File for GCIC 06/03/2022 23:09:10:98 Page 21
 1081 GC0712
                                  MOVE SELCHAR TO WS-CS-NOTRUNC-CHR
 1082 GC0712
                              ELSE
 1083 GC0712
                                  MOVE ' ' TO WS-CS-NOTRUNC-CHR
 1084 GC0712
                              END-IF
                          WHEN COB-SCR-ESC
 1085
 1086
                            PERFORM 900-Terminate
            * ----- Control will NOT return
 1087
                 WHEN COB-SCR-F12
ADD 1 TO WS-
 1088 GC0712
 1089 GC0712
                          ADD 1 TO WS-CS-Config-NUM
 1090 GC0712
                              IF WS-CS-Config-NUM > 7
 1091 GC0712
                                 MOVE 1 TO WS-CS-Config-NUM
 1092 GC0712
                              END-IF
 1093
                           WHEN OTHER
 1094
                              MOVE 'An unsupported key was pressed'
 1095
                                TO WS-Output-Msg-TXT
 1096
                       END-EVALUATE
                    ELSE
 1097
 1098
                       SET WS-RS-No-Switch-Changes-BOOL TO TRUE
 1099
                    END-IF
 1100
                END-PERFORM
 1101
 1102
 1103
           1104
           *> Run the compiler using the switch settings we've prepared. **
 1105
           1106
           210-Run-Compiler SECTION.
 1107
               MOVE SPACES TO WS-Cmd-TXT
 1108
                             WS-Cobc-Cmd-TXT
 1109
                             WS-Output-Msg-TXT
              DISPLAY S-Switches-SCR
 1110
 1111
               MOVE 1 TO WS-I-SUB
 1112 GC0712 MOVE LOWER-CASE(WS-CS-Filename-TXT (WS-CS-Config-NUM))
1113 GC0712 TO WS-Config-Fn-TXT
 *> Build the 'cobc' command
 1115
        *>********************
 1116
 1117 GC0909 MOVE SPACES TO WS-Cobc-Cmd-TXT
 1118 GC0909 STRING 'cobc -v -std='
 1119 GC0909 TRIM(WS-Config-Fn-TXT,TRAILING)
1120 GC0909 ','
 1120 GC0909 , , ,

1121 GC0909 INTO WS-Cobc-Cmd-TXT

1122 GC0909 WITH POINTER WS-I-SUB

1123 IF WS-CS-LIBRARY-CHR NOT = , ,

1124 STRING '-m ,
 1124
                   STRING '-m '
 1125
                       DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
 1126
                       WITH POINTER WS-I-SUB
 1127
                ELSE
 1128
                    STRING '-x '
 1129
                       DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
 1130
                       WITH POINTER WS-I-SUB
 1131
               END-IF
               IF WS-CS-DEBUG-CHR NOT = ' '
 1132
 1133
                   STRING '-fdebugging-line '
 1134
                       DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
```

Chapter GCic

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ACS Cobol Xref v2.02.04
                                       Dictionary File for GCIC 06/03/2022 23:09:10:99 Page 22
                               WITH POINTER WS-I-SUB
  1135
                    END-IF
  1136
  1137
                     IF WS-CS-NOTRUNC-CHR NOT = ' '
                          STRING '-fnotrunc '
  1138
                               DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
  1139
                                WITH POINTER WS-I-SUB
  1140
                    END-IF
  1141
                    IF WS-CS-TRACEALL-CHR NOT = ' '
  1142
 1143 GC0809
                      STRING '-ftraceall '
 1144
                               DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
 1145
                                WITH POINTER WS-I-SUB
 1146
                    END-IF
 1147 GCO712 IF WS-CS-NOFUNC-CHR NOT = ','
                     STRING '-fintrinsics=ALL '
DELIMITED SIZE INTO WS
WITH POINTER WS-I-SUB
 1148 VC0717
                          DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
 1149 GC0712
 1150 GC0712
                               WITH POINTER WS-I-SUB
 1151 GC0712 END-IF
1152 GC0712 IF WS-CS-WARNALL-CHR NOT = ' '
                     STRING '-Wall '
  1153 GC0712
  1154 GC0712
                               DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
 1155 GC0712 WITH POINTER WS-I-ST
1156 GC0712 END-IF
1157 GC0712 IF WS-CS-FREE-CHR NOT = ' '
                                WITH POINTER WS-I-SUB
                     STRING '-free '
  1158 GC0712
  1159 GC0712
                               DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
  1160 GC0712
                               WITH POINTER WS-I-SUB
  1161 GC0712 ELSE
 1162 GC0712 STRING '-fixed '
                          DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
 1163 GC0712
 1164 GC0712
1165 GC0712 END-IF
                               WITH POINTER WS-I-SUB
 1166
 1167 GC0712 MOVE 0 TO WS-Tally-QTY
1168 GC0712 INSPECT WS-CS-Extra-TXT
 1168 GC0712 INSPECT WS-CS-Extra-TXT

1169 GC0712 TALLYING WS-Tally-QTY FOR

1170 GC0712 IF WS-CS-LISTING-CHR > SPACE

1171 GC0712 AND WS-Tally-QTY > 0

1172 GC0712 MOVE SPACE TO WS-CS-LISTI

1173 GC0712 END-IF

1174 GC0712 IF WS-CS-LISTING-CHR > SPACE

1175 GC1010 STRING '-save-temps '

1176 GC1010 WITH POINTER WS-I-SUB

1178 GC1010 END-IF
                     TALLYING WS-Tally-QTY FOR ALL '-save-temps'
                     MOVE SPACE TO WS-CS-LISTING-CHR *> Can't generate listing if -save-temps used
                               DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
                               WITH POINTER WS-I-SUB
  1179
 1180 GC0709 IF WS-CS-Extra-TXT > SPACES
1181 GC0709 STRING ','
  1182 GC0709
                                   TRIM(WS-CS-Extra-TXT, TRAILING)
  1183 GC0709
  1184 GC0709
                                   DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
  1185 GC0709
                                   WITH POINTER WS-I-SUB
  1186 GC0709
                   END-IF
  1187 GC0909
                      STRING TRIM(WS-Prog-File-Name-TXT, TRAILING)
 1188 GC0909
                    DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
```

```
ACS Cobol Xref v2.02.04
                                     Dictionary File for GCIC 06/03/2022 23:09:10:99 Page 23
                         WITH POINTER WS-I-SUB
  1189 GC0909
              *>************************
  1190
  1191
               *> Prepare the compilation listing file
               *>************************
  1192
                   MOVE CONCATENATE(TRIM(WS-Pgm-Nm-TXT,Trailing),'.gclst')
  1193 GC1113
  1194 GC0712
                     TO WS-Listing-Filename-TXT
  1195 GC0712
                    CALL 'CBL_DELETE_FILE' USING WS-Listing-Filename-TXT
             *>*********************
  1196
               *> Now execute the 'cobc' command
  1197
                                                                                        **
              *>************************
  1198
  1199 GC0410
                     MOVE 'Compiling...' TO WS-Output-Msg-TXT
  1200 GC0410 DISPLAY S-Switches-SCR
  1201 GC0609
                   SET WS-RS-Output-File-Avail-BOOL TO TRUE
  1202
                   MOVE SPACES TO WS-Cmd-TXT
  1203
                   STRING TRIM(WS-Cobc-Cmd-TXT.TRAILING)
                            ' >' WS-Listing-Filename-TXT
  1204 GC0712
                             , 2>&1,
  1205 GC0712
  1206
                            DELIMITED SIZE
  1207
                             INTO WS-Cmd-TXT
  1208 DEBUG D DISPLAY WS-Cmd-TXT UPON SYSERR
                  CALL 'SYSTEM' USING TRIM(WS-Cmd-TXT, TRAILING)
  1209
  1210 GC0712 OPEN EXTEND F-Cobc-Output-FILE
 1211 GC0712 WRITE F-Cobc-Output-REC FROM SPACES
1212 GC0712 IF RETURN-CODE = 0
                   SET WS-RS-Compile-OK-BOOL TO TRUE
  1213 GC0712
  1214 GC0712
                     MOVE 'Compilation Was Successful' TO WS-Output
MOVE CONCATENATE('GNU COBOL', WS-Output-Msg-TXT)
                         MOVE 'Compilation Was Successful' TO WS-Output-Msg-TXT
  1215 GC0712

        1216
        GC0712
        T0 F-Cobc-Output-REC

        1217
        GC0712
        WRITE F-Cobc-Output-REC

        1218
        GC0712
        SET WS-RS-Complete-BOOL TO TRUE

  1216 GC0712
                         TO F-Cobc-Output-REC
  1219 GC0712 ELSE
 1220 GC0712 SET WS-RS-Compile-Failed-BOOL TO TRUE
1221 GC0712 MOVE CONCATENATE(' Compilation Failed
  1221 GC0712
                         MOVE CONCATENATE(' Compilation Failed - See ',
 1222 GC0712 TRIM(WS-Listing-I
1223 GC0712 TO WS-Output-Msg-TXT
1224 GC0712 MOVE 'GNU COBOL Compilation I
1225 GC0712 TO F-Cobc-Output-REC
1226 GC0712 WRITE F-Cobc-Output-REC
1227 GC0712 END-IF
1228 GC0712 CLOSE F-Cobc-Output-FILE
1229 GC0712 DISPLAY S-Switches-SCR
1230 GC0712 CALL 'C$SLEEP' USING 2
1231 GC0712 MOVE SPACES TO WS-Output-Msg-TXT
1232 IF WS-RS-Compile-Failed-BOOL
1233 GC0712 PERFORM 250-Autoload-Listing
1234 PERFORM 900-Terminate
  1222 GC0712
                                        TRIM(WS-Listing-Filename-TXT, Trailing))
                         MOVE 'GNU COBOL Compilation HAS FAILED - See Above'
  1234
                          PERFORM 900-Terminate
                *> ---- Control will not return
  1235
  1236
                     END-IF
  1237
  1238
  1239
               *>**********************
  1240
                *> Generate a source + xref listing using 'LISTING' subroutine **
  1241
               *>**********************
  1242 GCO410 220-Make-Listing SECTION.
```

```
ACS Cobol Xref v2.02.04
                        Dictionary File for GCIC
                                              06/03/2022 23:09:10:99 Page
                                                                       24
 1243 GC0410
              MOVE ' Generating listing...' TO WS-Output-Msg-TXT
 1244 GC0410
              DISPLAY S-Switches-SCR
 1245 GC0410
              MOVE O TO RETURN-CODE
         1246
          *> Create the listing
 1247
         *>********************
 1248
 1249 GC0410
             MOVE SPACES TO WS-Output-Msg-TXT
 1250 GC0410 CALL 'LISTING' USING WS-Listing-Filename-TXT
                              WS-File-Name-TXT
 1251 GC0712
 1252 GC0712
                              WS-OS-Type-CD
 1253 GC1213
                              LPP
 1254 GC1213
                              LPPP
 1255 GC1213
                              WS-Listing-CD
 1256 GCO410 ON EXCEPTION
 1257 GC0410
             MOVE ' LISTING module is not available'
 1258 GC0410
                 TO WS-Output-Msg-TXT
             TO wo-output ...
 1259 GC0410
 1260 GCO410 END-CALL
 1261 GCO410 IF RETURN-CODE = 0
 1262 GC0712
                MOVE 'Source+Xref listing generated'
 1263 GC0712
                  TO WS-Output-Msg-TXT
 1264 GC0410 END-IF
 1265 GC0712 DISPLAY S-Switches-SCR
 1266 GC0712 CALL 'C$SLEEP' USING 2
 1267 GC0712
              PERFORM 250-Autoload-Listing
 1268 GC0410
 1269 /
         1270
 1271
         *> Run the compiled program
      1272
 1273
 1274 GC0114 \, MOVE ' Preparing to run program \dots press ENTER to close '
 1275 GC0114
             TO WS-Output-Msg-TXT
 1276 GC0114 DISPLAY S-Switches-SCR
 1277 GCO114 CALL 'C$SLEEP' USING 3
 1278 GC0909 MOVE SPACES TO WS-Cmd-TXT
1279 GC0909 MOVE 1 TO WS-I-SUB
 1280
         *>**********************
 1281
          *> If necessary, start with 'cobcrun' command
 1282
         *>*************************
 1283 GC0712
              IF WS-CS-LIBRARY-CHR NOT = ' '
 1284
                 STRING 'cobcrun ' DELIMITED SIZE
 1285
                      INTO WS-Cmd-TXT
 1286
                      WITH POINTER WS-I-SUB
 1287
              END-IF
          1288
 1289
          *> Add any necessary path prefix
 1290
         *>*********************
 1291 GC0712
             SET WS-RS-Double-Quote-Used-BOOL TO FALSE
 1292
              IF WS-Prog-Folder-TXT NOT = SPACES
             IF WS-OS-Cygwin-BOOL AND WS-Prog-Folder-TXT (2:1) = ':'
 1293 GC0909
                 STRING '/cygdrive/'
 1294 GC0909
                       INTO WS-Cmd-TXT
 1295 GC0909
                       WITH POINTER WS-I-SUB
 1296 GC0909
```

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ACS Cobol Xref v2.02.04
                            Dictionary File for GCIC
                                                    06/03/2022 23:09:10:99
                                                                                25
 1297 GC0909
                       STRING LOWER-CASE(WS-Prog-Folder-TXT (1:1))
 1298 GC0909
                          INTO WS-Cmd-TXT
      GC0909
 1299
                          WITH POINTER WS-I-SUB
 1300 GC0909
                      PERFORM
 1301 GC0909
                          VARYING WS-J-SUB FROM 3 BY 1
                          UNTIL WS-J-SUB > LENGTH(TRIM(WS-Prog-Folder-TXT))
 1302 GC0909
                          IF WS-Prog-Folder-TXT (WS-J-SUB:1) = '\'
 1303 GC0909
                             STRING '/'
 1304 GC0909
 1305 GC0909
                                 INTO WS-Cmd-TXT
 1306 GC0909
                                 WITH POINTER WS-I-SUB
 1307 GC0909
                          ELSE
 1308 GC0909
                             STRING WS-Prog-Folder-TXT (WS-J-SUB:1)
 1309 GC0909
                                 INTO WS-Cmd-TXT
                                 WITH POINTER WS-I-SUB
 1310 GC0909
 1311 GC0909
                          END-IF
 1312 GC0909
                      END-PERFORM
                   ELSE
 1313 GC0909
 1314 GC0410
                      STRING '"' TRIM(WS-Prog-Folder-TXT, TRAILING)
 1315 GC0909
                          INTO WS-Cmd-TXT
 1316 GC0909
                          WITH POINTER WS-I-SUB
 1317 GC0712
                      SET WS-RS-Double-Quote-Used-BOOL TO TRUE
 1318 GC0909
                   END-IF
 1319 GC0712
                   STRING WS-OS-Dir-CHR
 1320 GC0909
                      INTO WS-Cmd-TXT
 1321 GC0909
                       WITH POINTER WS-I-SUB
               ELSE
 1322 GC0909
 1323 GC0909
                   IF WS-OS-Cygwin-BOOL OR WS-OS-UNIX-BOOL
 1324 GC0909
                       STRING './'
 1325 GC0909
                          INTO WS-Cmd-TXT
 1326 GC0909
                          WITH POINTER WS-I-SUB
 1327 GC0909
                   END-IF
 1328
               END-IF
 1329
           1330
           *> Insert program filename
 1331
           1332 GC0909
               STRING TRIM(WS-Pgm-Nm-TXT, TRAILING)
 1333 GC0909
                   INTO WS-Cmd-TXT
 1334 GC0909
                   WITH POINTER WS-I-SUB
 1335
           1336
           *> Insert proper extension
 1337
           IF WS-CS-LIBRARY-CHR = ' '
 1338 GC0712
 1339
      GC0712
                   IF WS-OS-Exe-Ext-CONST > ' '
 1340 GC0712
                       STRING WS-OS-Exe-Ext-CONST DELIMITED SPACE
 1341 GC0712
                          INTO WS-Cmd-TXT
 1342 GC0712
                          WITH POINTER WS-I-SUB
 1343 GC0712
                   END-IF
 1344 GC0712
               ELSE
                  IF WS-OS-Lib-Ext-CONST > ' '
 1345 GC0712
 1346 GC0712
                       STRING WS-OS-Lib-Ext-CONST DELIMITED SPACE
 1347 GC0712
                          INTO WS-Cmd-TXT
 1348 GC0712
                          WITH POINTER WS-I-SUB
 1349 GC0712
                  END-IF
 1350 GC0712
               END-IF
```

Chapter GCic

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ACS Cobol Xref v2.02.04
                            Dictionary File for GCIC 06/03/2022 23:09:10:99 Page
                                                                                  26
 1351 GC0712
               IF WS-RS-Double-Quote-Used-BOOL
                STRING '"' DELIMITED SIZE
 1352 GC0712
 1354 GC0712 INTO WS-Cmd-TXT
                       WITH POINTER WS-I-SUB
 1355 GC0712 END-IF
1356 IF WS-CS-Args-TXT NOT = SPACES
 1357 GC0809
                   STRING ', 'TRIM(WS-CS-Args-TXT, TRAILING)
                       INTO WS-Cmd-TXT
 1358
 1359
                       WITH POINTER WS-I-SUB
 1360
               END-IF
 1361
          1362
          *> Run the program
 1363
           1364 GC0114
               CALL X'E4'
              CALL 'SYSTEM' USING TRIM(WS-Cmd-TXT.TRAILING)
 1365
 1366 GC0712 MOVE SPACES TO WS-Output-Msg-TXT
 1367 GCO114 ACCEPT WS-Output-Msg-TXT(1:1) AT 0101
 1368
               PERFORM 900-Terminate
 1369
            * -- Control will NOT return
 1370
 1371
 1372
            *>***********************
 1373
            *> Determine if the program being compiled is a MAIN program
 1374
            1375
           240-Find-LINKAGE-SECTION SECTION.
 1376
               OPEN INPUT F-Source-Code-FILE
 1377 GC0712 MOVE ', TO WS-CS-LIBRARY-CHR
      SET WS-RS-More-To-1st-Prog-BOOL TO TRUE
 1378
 1379
              PERFORM UNTIL WS-RS-1st-Prog-Complete-BOOL
                   READ F-Source-Code-FILE AT END
 1380
 1381
                   CLOSE F-Source-Code-FILE
 1382
                       EXIT SECTION
                  END-READ
 1383
 1384 GC0712 CALL 'CHECKSRC'
1385 GC0712 USING BY CO
                  USING BY CONTENT F-Source-Code-REC
 1386 GC0712
                            BY REFERENCE WS-RS-Source-Record-Type-CHR
               IF WS-RS-Source-Rec-Ident-BOOL
 1387
 1388
                    SET WS-RS-1st-Prog-Complete-BOOL TO TRUE
 1390 END-PERFORM
1391 GC0712 SET WS-RS-Source-Rec-Ignored-BOOL TO TRUE
1392 PERFORM UNTIL WS-RS-Source-Per Viv
                PERFORM UNTIL WS-RS-Source-Rec-Linkage-BOOL
 1393
                          OR WS-RS-Source-Rec-Ident-BOOL
 1394
                    READ F-Source-Code-FILE AT END
 1395
                       CLOSE F-Source-Code-FILE
 1396
                       EXIT SECTION
 1397
                   END-READ
 1398 GC0712
1399 GC0712
                    CALL 'CHECKSRC'
                   USING BY CONTENT F-Source-Code-REC
 1400 GC0712
                            BY REFERENCE WS-RS-Source-Record-Type-CHR
               END-PERFORM
 1401
               CLOSE F-Source-Code-FILE
 1402
 1403 IF WS-RS-Source-Rec-Linkage-BOOL
1404 GC0712 MOVE SELCHAR TO WS-CS-LIBRARY-CHR
```

28 September 2024

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ACS Cobol Xref v2.02.04
                               Dictionary File for GCIC 06/03/2022 23:09:10:99 Page 27
  1405
                  END-IF
  1406
  1407
  1409 GCO712*> Attempt to open the listing file as a command. This will - **
 1410 GC1113*> if the user has associated filetype/extension 'gclst' with **
 1411 GCO712*> an application - invoke the appropriate application to
 1412 GC0712*> allow the user to view the listing.
 1414 GC0712 250-Autoload-Listing SECTION.
 1415 GC0712 EVALUATE TRUE
 1416 GC0712
                  WHEN WS-OS-Windows-BOOL OR WS-OS-Cygwin-BOOL
 1417 GC0712
1418 GC0712
  1425 GC0712
                         STRING
  1426 GC0712
                               'open -t'
  1427 GC0712
                               TRIM(WS-Listing-Filename-TXT, TRAILING)
  1428 GC0712
                              DELIMITED SIZE INTO WS-Cmd-TXT
  1429 GC0712
                          CALL 'SYSTEM' USING TRIM(WS-Cmd-TXT, TRAILING)
  1430 GC0712
                 END-EVALUATE
  1432 GC0712*> ** Since we had to do our own '-save-temps' when we
 1433 GC0712*> ** compiled (in order to generate the cross-reference
 1434 GCO712*> ** listing) we now need to clean up after ourselves.
 1436 GC1112 DISPLAY S-Blank-SCR
 1437 GC0712
                 IF WS-OS-Windows-BOOL
                 MOVE CONCATENATE('del ',TRIM(WS-Pgm-Nm-TXT,TRAILING))
 1438 GC0712
 1439 GC0712
                      TO WS-Cmd-TXT
 1440 GC0712 ELSE
 1441 GCO712 MOVE CONCATENATE('rm ',TRIM(WS-Pgm-Nm-TXT,TRAILING))

      1441
      GCO712
      MOVE CONCA

      1442
      GCO712
      TO WS-Cn

      1443
      GCO712
      END-IF

      1444
      GCO712
      CALL 'SYSTEM'

      1445
      GCO712
      USING CONC

      1446
      GCO712
      USING CONC

      1447
      GCO712
      USING CONC

      1448
      GCO712
      USING CONC

      1449
      GCO712
      USING CONC

      1450
      GCO712
      CALL 'SYSTEM'

      1451
      GCO712
      USING CONC

                      TO WS-Cmd-TXT
                  USING CONCATENATE(TRIM(WS-Cmd-TXT,TRAILING),'.c')
                  USING CONCATENATE(TRIM(WS-Cmd-TXT,TRAILING),'.c.h')
                  USING CONCATENATE(TRIM(WS-Cmd-TXT,TRAILING),'.c.1*.h')
 1451 GC0712
1452 GC0712
                  USING CONCATENATE(TRIM(WS-Cmd-TXT,TRAILING),'.i')
                  CALL 'SYSTEM'
  1453 GC0712
                 USING CONCATENATE(TRIM(WS-Cmd-TXT,TRAILING),'.o')
  1454
  1455 GC0712
  1456
  1457
              *>***********************
             *> Display a message and halt the program
  1458
```

ACS Cobol Xref v2.02.04 Dictionary File for GCIC 06/03/2022 23:09:10:99 Page 29 Symbols of Module: GCIC (GCIC)

Data Section (FILE)	Defn	Locations
		
F-COBC-OUTPUT-FILE	000192F	000201 001210 001228
F-COBC-OUTPUT-REC	000202F	001211 001216 001217 001225 001226
F-SOURCE-CODE-FILE	000195F	000204 000813 001376 001380 001381 001394 001395 001402
F-SOURCE-CODE-REC	000205F	001385 001399
WS-FILE-NAME-TXT	000195F	000399 000865 000870 000933 000938 000941 000954 000957
		000964 000967 000978 001251
WS-FSM-STATUS-CD	000197F	000405 000828 000862
WS-LISTING-FILENAME-TXT	000192F	000417 001194 001195 001204 001222 001250 001420 001427

ACS Cobol Xref v2.02.04

Symbols of Module: GCIC (GCIC)	Diction	nary File for GCIC 06/03/2022 23:09:11:00 Page 30
Data Section (WORKING-STORAGE)	Defn	Locations
COB-COLOR-BLACK	000232W	000597 000602 000692 000702 000712 000717 000727 000734
		000749 000764 000780 000787 000794
COB-COLOR-BLUE	000233W	000680
COB-COLOR-CYAN	000235W	000693
COB-COLOR-GREEN	000234W	000603 000718 000765 000781
COB-COLOR-MAGENTA	000237W	
COB-COLOR-RED	000236W	000686 000750
COB-COLOR-WHITE	000239W	000598 000681 000687 000703 000713 000728 000735 000788 000795
COB-COLOR-YELLOW	000238W	
COB-SCR-BACK-TAB	000321W	
COB-SCR-BACKSPACE	000328W	
COB-SCR-DELETE	000327W	
COB-SCR-ESC	000318W	001085
COB-SCR-F1	000245W	001032
COB-SCR-F10	000254W	
COB-SCR-F11	000255W	
COB-SCR-F12	000256W	001088
COB-SCR-F13	000257W	
COB-SCR-F14	000258W	
COB-SCR-F15	000259W	
COB-SCR-F16	000260W	
COB-SCR-F17	000261W	
COB-SCR-F18	000262W	
COB-SCR-F19	000263W	
COB-SCR-F2	000246W	001038
COB-SCR-F20	000264W	
COB-SCR-F21	000265W	
COB-SCR-F22	000266W	
COB-SCR-F23	000267W	
COB-SCR-F24	000268W	
COB-SCR-F25 COB-SCR-F26	000269W 000270W	
COB-SCR-F27	000270W	
COB-SCR-F28	000271W	
COB-SCR-F29	000272W	
COB-SCR-F3	000273W	001044
COB-SCR-F30	000247W	001011
COB-SCR-F31	000274W	
COB-SCR-F32	000276W	
COB-SCR-F33	000277W	
COB-SCR-F34	000277W	
COB-SCR-F35	000279W	
COB-SCR-F36	000280W	
COB-SCR-F37	000281W	
COB-SCR-F38	000282W	
COB-SCR-F39	000283W	
COB-SCR-F4	000248W	001050
COB-SCR-F40	000284W	

Dictionary File for GCIC 06/03/2022 23:09:11:00 Page 30

ACS Cobol Xref v2.02.04 Dictionary File for GCIC 06/03/2022 23:09:11:00 Page 31 Symbols of Module: GCIC (GCIC)

Data Section (WORKING-STORAGE)	Defn	Locations
COD CCD FA1	00000511	
COB-SCR-F41	000285W	
COB-SCR-F42	000286W	
COB-SCR-F43	000287W	
COB-SCR-F44	000288W	
COB-SCR-F45	000289W	
COB-SCR-F46	000290W	
COB-SCR-F47	000291W	
COB-SCR-F48	000292W	
COB-SCR-F49	000293W	004056
COB-SCR-F5	000249W	001056
COB-SCR-F50	000294W	
COB-SCR-F51	000295W	
COB-SCR-F52	000296W	
COB-SCR-F53	000297W	
COB-SCR-F54	000298W	
COB-SCR-F55	000299W	
COB-SCR-F56	000300W	
COB-SCR-F57	000301W	
COB-SCR-F58	000302W	
COB-SCR-F59	000303W	
COB-SCR-F6	000250W	001061
COB-SCR-F60	000304W	
COB-SCR-F61	000305W	
COB-SCR-F62	000306W	
COB-SCR-F63	000307W	
COB-SCR-F64	000308W	
COB-SCR-F7	000251W	001067
COB-SCR-F8	000252W	001073
COB-SCR-F9	000253W	001079
COB-SCR-FATAL	000335W	
COB-SCR-INSERT	000326W	
COB-SCR-KEY-DOWN	000316W	
COB-SCR-KEY-END	000330W	
COB-SCR-KEY-HOME	000329W	
COB-SCR-KEY-LEFT	000322W	
COB-SCR-KEY-RIGHT	000323W	
COB-SCR-KEY-UP	000314W	
COB-SCR-KEY_DOWN	000317W	
COB-SCR-KEY_UP	000315W	
COB-SCR-MAX-FIELD	000336W	
COB-SCR-NO-FIELD	000332W	
COB-SCR-OK	000243W	
COB-SCR-PAGE-DOWN	000312W	
COB-SCR-PAGE-UP	000310W	
COB-SCR-PAGE_DOWN	000313W	
COB-SCR-PAGE_UP	000311W	
COD COD DOTHE		
COB-SCR-PRINT	000319W	
COB-SCR-PRINT COB-SCR-TAB COB-SCR-TIME-OUT	000319W 000320W 000333W	

Chapter GCic

ACS Cobol Xref v2.02.04

ACS Cobol Xref v2.02.04 Symbols of Module: GCIC (GCIC)					
Data Section (WORKING-STORAGE)	Defn	Locations			
F1	000364W				
F12	000358W				
F2	000371W				
F3	000367W				
F4	000365W				
F5	000368W	000415			
F6	000369W				
F7	000372W				
F8	000366W				
F9	000370W				
WS-CMD-ARGS-TXT	000387W	000925 000927 000928 000931 000936			
WS-CMD-END-QUOTE-CHR	000389W				
WS-CMD-SUB	000391W				
WS-CMD-TXT	000385W				
		001298 001305 001309 001315 001320 001325 001333 001341			
		001347 001353 001358 001365 001417 001421 001422 001424			
		001428 001429 001439 001442 001445 001447 001449 001451			
LIC CODG CMD TYT	00020211	001453 001108 001117 001121 001125 001129 001134 001139 001144			
WS-COBC-CMD-TXT	000393W	001149 001154 001159 001163 001176 001184 001188 001203			
WS-COMPILATION-SWITCHES-TXT	000338W	001149 001134 001139 001103 001170 001104 001100 001203			
WS-CONFIG-FN-TXT	000336W	001113 001119			
WS-CS-ALL-SWITCHES-TXT	000373W				
WS-CS-ARG-H1-TXT	000340W				
WS-CS-ARG-H2-TXT	000341W				
WS-CS-ARGS-TXT	000339W	001356 001357			
WS-CS-CONFIG-NUM	000354W	000356 000358 001089 001090 001091 001112			
WS-CS-DEBUG-CHR	000375W	000751 001033 001034 001036 001132			
WS-CS-EXECUTE-CHR	000376W	000754 000888 001051 001052 001054			
WS-CS-EXTRA-H1-TXT	000361W	000796			
WS-CS-EXTRA-H2-TXT	000362W	000797			
WS-CS-EXTRA-TXT	000360W	001168 001180 001182			
WS-CS-FILENAME-TXT	000351W	000790 001112			
WS-CS-FILENAMES-TABLE-TXT	000350W				
WS-CS-FILENAMES-TXT	000342W				
WS-CS-FREE-CHR	000377W				
WS-CS-LIBRARY-CHR	000378W	000753 001045 001046 001048 001123 001283 001338 001377 001404			
WS-CS-LISTING-CHR	000379W				
WS-CS-NOFUNC-CHR	000380W	000757 001062 001063 001065 001147			
WS-CS-NOTRUNC-CHR	000381W	000760 001080 001081 001083 001137			
WS-CS-SWITCH-DEFAULTS-TXT	000363W	000374			
WS-CS-TRACEALL-CHR	000382W	000752 001039 001040 001042 001142			
WS-CS-WARNALL-CHR	000383W	000758 001068 001069 001071 001152			
WS-DELETE-FN-TXT	000397W				
WS-FILE-NAME-TXT	000399W	000865 000870 000933 000938 000941 000954 000957 000964 000967 000978 001251			
WS-FILE-STATUS-MESSAGE-TXT WS-FN-CHR	000403W 000400W				

Dictionary File for GCIC 06/03/2022 23:09:11:00 Page 32

ACS Cobol Xref v2.02.04 Dictionary File for GCIC 06/03/2022 23:09:11:00 Page 33

Symbols of Module: GCIC (GCIC)	Diction	ary Tile	101 40	310	00, 00, 20	JZZ Z0	.00.11.	JO 14	ge 00
Data Section (WORKING-STORAGE)	Defn	Locatio	ns 						
WS-FSM-MSG-TXT	000407W	000829	000830	000831	000832	000833	000834	000835	000836
		000837	000838	000839	000840	000841	000842	000843	000844
		000845	000846	000847	000848	000849	000850	000851	000852
		000853	000854	000855	000856	000857	000858		
WS-FSM-STATUS-CD	000405W	000828	000862						
WS-HORIZONTAL-LINE-TXT	000409W	000605	000615	000619	000621	000645	000647	000651	000661
		000665	000675	001003					
WS-I-SUB	000411W	000957	000958	000959	000960	000962	000966	000970	000985
		000986							
		001126							
		001164							
		001306		001316	001321	001326	001334	001342	001348
		001354							
WS-J-SUB		001301							
WS-LISTING-CD	000415W								
WS-LISTING-FILENAME-TXT	000417W					001250	001420	001427	
WS-LISTING-TXT	000419W								
WS-OC-COMPILE-DT	000421W								
WS-OS-CYGWIN-BOOL	000455W								
WS-OS-DIR-CHR	000424W	000430 001319	000436	000442	000448	000955	000959	000970	000979
WS-OS-EXE-EXT-CONST	000425W		000437	000443	000449	001339	001340		
WS-OS-LIB-EXT-CONST	000426W								
WS-OS-LIB-TYPE-CONST	000120W						001010		
WS-OS-OSX-BOOL	000457W		000 100	000110	000101				
WS-OS-TYPE-CD	000428W		000440	000446	000452	001005	001252		
WS-OS-TYPE-FILLER-TXT	000459W	000465							
WS-OS-TYPE-TXT	000466W	001005							
WS-OS-TYPES-TXT	000465W								
WS-OS-UNIX-BOOL	000456W	001323							
WS-OS-WINDOWS-BOOL	000454W	001416	001437						
WS-OUTPUT-MSG-TXT	000469W	000688	000861	001008	001095	001109	001199	001214	001215
		001223	001231	001243	001249	001258	001263	001275	001366
		001367	001461						
WS-PATH-DELIMITER-CHR	000471W								
WS-PFN-CHR	000478W								
WS-PGM-NM-TXT	000481W	000991	000996	001193	001332	001438	001441		
WS-PROG-EXTENSION-TXT	000473W								
WS-PROG-FILE-NAME-TXT	000477W								
WS-PROG-FOLDER-TXT	000475W							001292	001293
		001297		001303	001308	001314			
WS-RS-1ST-PROG-COMPLETE-BOOL	000494W								
WS-RS-COMPILE-FAILED-BOOL	000487W								
WS-RS-COMPILE-OK-BOOL	000485W	000883	001213						
WS-RS-COMPILE-OK-CHR	000484W	000000							
WS-RS-COMPILE-OK-WARN-BOOL	000486W	000883	001010						
WS-RS-COMPLETE-BOOL	000489W	088000	001218						
WS-RS-COMPLETE-CHR	000488W	001001	001217	001354					
WS-RS-DOUBLE-QUOTE-USED-BOOL	000492W	001291	001317	001351					

ACS Cobol Xref v2.02.04 Symbols of Module: GCIC (GCIC)	Diction	nary File for GCIC	06/03/2022	23:09:11:00	Page	34
Data Section (WORKING-STORAGE)						
WS-RS-IDENT-DIV-CHR	000493W					
WS-RS-MORE-TO-1ST-PROG-BOOL	000495W	001378				
WS-RS-NO-SWITCH-CHANGES-BOOL	000497W	001017 001098				
WS-RS-NO-SWITCH-CHGS-CHR	000496W					
WS-RS-NOT-COMPLETE-BOOL	000490W	000879				
WS-RS-OUTPUT-FILE-AVAIL-BOOL	000501W	000889 001201				
WS-RS-OUTPUT-FILE-BUSY-BOOL	000500W					
WS-RS-OUTPUT-FILE-BUSY-CHR	000499W					
WS-RS-QUOTE-CHR	000491W					
WS-RS-SOURCE-REC-IDENT-BOOL	000504W	001387 001393				
WS-RS-SOURCE-REC-IGNORED-BOOL	000505W	001391				
WS-RS-SOURCE-REC-LINKAGE-BOOL	000503W	001392 001403				
WS-RS-SOURCE-RECORD-TYPE-CHR	000502W	001386 001400				
WS-RS-SWITCH-CHANGES-BOOL	000498W	001016				
WS-RS-SWITCH-ERROR-CHR	000506W					
WS-RS-SWITCH-IS-BAD-BOOL	000507W					
WS-RS-SWITCH-IS-GOOD-BOOL	000508W					
WS-RUNTIME-SWITCHES-TXT	000483W					
WS-TALLY-QTY	000510W	001167 001169 0011	71			

28 September 2024 Chapter GCic

Dictionary File for GCIC 06/03/2022 23:09:11:00 Page 35

ACS Cobol Xref v2.02.04

Chapter GCic 28 September 2024

001461

000730S 000963 000968 000972 000973 000976 001292 001293 001297

001302 001303 001308 001314

WS-PROG-FILE-NAME-TXT 000729S 000964 000969 000985 000991 000995 001187 WS-PROG-FOLDER-TXT 000730S 000963 000968 000972 000973 000976 001292

ACS Cobol Xref v2.02.04 Dictionary File for GCIC 06/03/2022 23:09:11:00 Page 36 Symbols of Module: GCIC (GCIC)

Variable Tested [S] Symbol (88-Conditions)

WS-OS-TYPE-CD WS-OS-WINDOWS-BOOL
WS-OS-TYPE-CD WS-OS-CYGWIN-BOOL
WS-OS-TYPE-CD WS-OS-UNIX-BOOL
WS-OS-TYPE-CD WS-OS-UNIX-BOOL
WS-OS-TYPE-CD WS-OS-OSX-BOOL
WS-RS-COMPILE-OK-CHR WS-RS-COMPILE-OK-BOOL
WS-RS-COMPILE-OK-CHR WS-RS-COMPILE-OK-WARN-BOOL
WS-RS-COMPILE-OK-CHR WS-RS-COMPILE-DK-BOOL
WS-RS-COMPLETE-CHR WS-RS-COMPLETE-BOOL
WS-RS-COMPLETE-CHR WS-RS-NOT-COMPLETE-BOOL
WS-RS-IDENT-DIV-CHR WS-RS-NOT-COMPLETE-BOOL
WS-RS-IDENT-DIV-CHR WS-RS-MORE-TO-1ST-PROG-BOOL
WS-RS-NO-SWITCH-CHGS-CHR WS-RS-NO-SWITCH-CHANGES-BOOL
WS-RS-NO-SWITCH-CHGS-CHR WS-RS-SWITCH-CHANGES-BOOL
WS-RS-OUTPUT-FILE-BUSY-CHR WS-RS-OUTPUT-FILE-BUSY-BOOL
WS-RS-OUTPUT-FILE-BUSY-CHR WS-RS-OUTPUT-FILE-AVAIL-BOOL
WS-RS-QUOTE-CHR WS-RS-DOUBLE-QUOTE-USED-BOOL
WS-RS-SOURCE-RECORD-TYPE-CHR WS-RS-SOURCE-REC-LINKAGE-BOOL
WS-RS-SOURCE-RECORD-TYPE-CHR WS-RS-SOURCE-REC-IDENT-BOOL
WS-RS-SOURCE-RECORD-TYPE-CHR WS-RS-SOURCE-REC-IDENT-BOOL
WS-RS-SUUTCH-ERROR-CHR WS-RS-SWITCH-IS-BAD-BOOL
WS-RS-SWITCH-ERROR-CHR WS-RS-SWITCH-IS-BAD-BOOL

28 September 2024 Chapter GCic

ACS Cobol Xref v2.02.04 Dictionary File for GCIC 06/03/2022 23:09:11:00 Page 37

Symbols of Module: GCIC (GCIC)

Variable Tested Symbol (88-Conditions) [S]

WS-OS-TYPE-CD
WS-OS-TYPE-CD
WS-OS-TYPE-CD
WS-OS-TYPE-CD
WS-OS-TYPE-CD
WS-OS-TYPE-CD
WS-OS-TYPE-CD
WS-OS-TYPE-CD
WS-OS-TYPE-CD
WS-OS-WINDOWS-BOOL
WS-RS-IDENT-DIV-CHR
WS-RS-COMPILE-OK-CHR
WS-RS-COMPILE-OK-CHR
WS-RS-COMPILE-OK-CHR
WS-RS-COMPILE-OK-CHR
WS-RS-COMPILE-OK-CHR
WS-RS-COMPILE-OK-WARN-BOOL
WS-RS-COMPLETE-CHR
WS-RS-COMPLETE-CHR
WS-RS-DOUBLE-QUOTE-USED-BOOL
WS-RS-JDENT-DIV-CHR
WS-RS-NO-SWITCH-CHGS-CHR
WS-RS-NO-SWITCH-CHGS-CHR
WS-RS-OUTPUT-FILE-BUSY-CHR
WS-RS-OUTPUT-FILE-BUSY-CHR
WS-RS-OUTPUT-FILE-BUSY-CHR
WS-RS-OUTPUT-FILE-BUSY-CHR
WS-RS-SOURCE-RECORD-TYPE-CHR
WS-RS-SOURCE-RECORD-TYPE-CHR
WS-RS-SOURCE-RECORD-TYPE-CHR
WS-RS-SOURCE-REC-IGNORED-BOOL
WS-RS-NO-SWITCH-CHGS-CHR
WS-RS-SURCE-REC-LINKAGE-BOOL
WS-RS-SWITCH-ERROR-CHR
WS-RS-SWITCH-IS-BAD-BOOL
WS-RS-SWITCH-ERROR-CHR
WS-RS-SWITCH-IS-GOOD-BOOL

ACS Cobol Xref v2.02.04 Symbols of Module: GCIC (GCIC)	Diction	ary File for GCIC 06/03/2022 23:09:11:00 Pa	.ge 38
Functions	Defn +	Locations	
CONCATENATE	001004I	001193 001215 001221 001438 001441 001445 001447	001449
		001451 001453	
LOWER-CASE	001112I	001297	
TRIM	000865I	000870 000976 001005 001119 001182 001187 001193	001203
		001209 001222 001302 001314 001332 001357 001365	001420
		001422 001427 001429 001438 001441 001445 001447	001449
		001451 001453	

ACS Cobol Xref v2.02.04 Symbols of Module: GCIC (GCIC)	Dicti	onary F	ile for	GCIC	06/03,	/2022	23:09:11	1:00	Page	39
Called Procedures	Туре	Location	ons							
	+								_	
C\$SLEEP	SYSTEM	001230	001266	001277	001463					
CBL_CHANGE_DIR	SYSTEM	000975								
CBL_DELETE_FILE	SYSTEM	001195								
CHECKSRC	USER	001384	001398							
E4	SYSTEM	001364								
LISTING	USER	001250								
SYSTEM	SYSTEM	001209	001365	001422	001429	001444	1 001446	001448	00145	0
		001452								

ACS Cobol Xref v2.02.04 Symbols of Module: GCIC (GCIC)	Dictionary File for GCIC 06/03/2022 23:09:11:00 Pa						age 40			
Procedure	Defn	Locati								
CALIFITON	0000000									
CAUTION:	000860P									
FOUND	000860P									
G29	000860P									
LPP	001253P									
LPPP	001254P									
MORE	000860P									
ONE	000860P									
SELCHAR	000920P	000921	001024	001027	001034	001040	001046	001052	0010)63
		001069	001075	001081	001404					
SYSERR	001208P									

COB-SCR-F51

COB-SCR-F52

COB-SCR-F53

COB-SCR-F54

ACS Cobol Xref v2.02.04 Dictionary File for GCIC 06/03/2022 23:09:11:00 Page 41 Symbols of Module: GCIC (GCIC) _____ Unreferenced Working Storage Symbols CBL_CHANGE_DIR 000975C CBL_DELETE_FILE 001195C COB-COLOR-MAGENTA 000237W COB-COLOR-YELLOW 000238W COB-SCR-BACK-TAB 000321W COB-SCR-BACKSPACE 000328W COB-SCR-DELETE 000327W COB-SCR-F10 000254W COB-SCR-F11 000255W COB-SCR-F13 000257W COB-SCR-F14 000258W COB-SCR-F15 000259W COB-SCR-F16 000260W COB-SCR-F17 000261W COB-SCR-F18 000262W COB-SCR-F19 000263W COB-SCR-F20 000264W COB-SCR-F21 000265W COB-SCR-F22 000266W COB-SCR-F23 000267W COB-SCR-F24 000268W COB-SCR-F25 000269W COB-SCR-F26 000270W COB-SCR-F27 000271W COB-SCR-F28 000272W COB-SCR-F29 000273W COB-SCR-F30 000274W COB-SCR-F31 000275W COB-SCR-F32 000276W COB-SCR-F33 000277W COB-SCR-F34 000278W COB-SCR-F35 000279W COB-SCR-F36 000280W COB-SCR-F37 000281W COB-SCR-F38 000282W COB-SCR-F39 000283W COB-SCR-F40 000284W COB-SCR-F41 000285W COB-SCR-F42 000286W COB-SCR-F43 000287W COB-SCR-F44 000288W COB-SCR-F45 000289W COB-SCR-F46 000290W COB-SCR-F47 000291W COB-SCR-F48 000292W COB-SCR-F49 000293W COB-SCR-F50 000294W

Chapter GCic

28 September 2024

000295W

000296W

000297W

000298W

Dictionary File for GCIC

Page

42

06/03/2022 23:09:11:00

Symbols of Module: GCIC (GCIC) _____ Unreferenced Working Storage Symbols COB-SCR-F55 000299W COB-SCR-F56 000300W COB-SCR-F57 000301W COB-SCR-F58 000302W COB-SCR-F59 000303W COB-SCR-F60 000304W 000305W COB-SCR-F61 COB-SCR-F62 000306W COB-SCR-F63 000307W COB-SCR-F64 000308W COB-SCR-FATAL 000335W COB-SCR-INSERT 000326W COB-SCR-KEY-DOWN 000316W COB-SCR-KEY-END 000330W COB-SCR-KEY-HOME 000329W COB-SCR-KEY-LEFT 000322W COB-SCR-KEY-RIGHT 000323W COB-SCR-KEY-UP 000314W COB-SCR-KEY_DOWN 000317W COB-SCR-KEY_UP 000315W COB-SCR-MAX-FIELD 000336W COB-SCR-NO-FIELD 000332W COB-SCR-OK 000243W COB-SCR-PAGE-DOWN 000312W COB-SCR-PAGE-UP 000310W COB-SCR-PAGE_DOWN 000313W COB-SCR-PAGE_UP 000311W COB-SCR-PRINT 000319W COB-SCR-TAB 000320W COB-SCR-TIME-OUT 000333W F.4 001364C F1 000364W F12 000358W F2 000371W F3 000367W F4 000365W F6 000369W F7 000372W F8 000366W F9 000370W LISTING 001250C WS-COMPILATION-SWITCHES-TXT 000338W WS-CS-FILENAMES-TABLE-TXT 000350W WS-DELETE-FN-TXT 000397W WS-FILE-STATUS-MESSAGE-TXT 000403W WS-OS-TYPES-TXT 000465W WS-PATH-DELIMITER-CHR 000471W WS-RS-COMPILE-OK-CHR 000484W WS-RS-COMPLETE-CHR 000488W WS-RS-IDENT-DIV-CHR 000493W WS-RS-NO-SWITCH-CHGS-CHR 000496W

ACS Cobol Xref v2.02.04

ACS Cobol Xref v2.02.04 Dictionary File for GCIC 06/03/2022 23:09:11:00 Page 43 Symbols of Module: GCIC (GCIC)

----- delic (dele)

Unreferenced Working Storage Symbols

WS-RS-OUTPUT-FILE-BUSY-BOOL	000500W
WS-RS-OUTPUT-FILE-BUSY-CHR	000499W
WS-RS-QUOTE-CHR	000491W
WS-RS-SWITCH-ERROR-CHR	000506W
WS-RS-SWITCH-IS-BAD-BOOL	000507W
WS-RS-SWITCH-IS-GOOD-BOOL	000508W
WS-RUNTIME-SWITCHES-TXT	000483W

ACS Cobol Xref v2.02.04	Dictionary File for GCIC	06/03/2022 23:09:11:00	Page 44
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Symbols of Module: GCIC (GCIC)

Unreferenced Procedures

CAUTION:	000860P
FOUND	000860P
G29	000860P
LPP	001253P
LPPP	001254P
MORE	000860P
ONE	000860P
SYSERR	001208P

```
ACS Cobol Xref v2.02.04
                             Dictionary File for GCIC
                                                     06/03/2022 23:09:11:00
                                                                             Page
                                                                                   45
 1471
             IDENTIFICATION DIVISION.
            PROGRAM-ID. CHECKSRC.
 1472
 1473
            *>************************
 1474
            *> This subprogram will scan a line of source code it is given **
            *> looking for 'LINKAGE SECTION' or 'IDENTIFICATION DIVISION'. **
 1475
 1476
            *>
            *> ****NOTE**** ****NOTE****
                                           ****NOTE**** ****NOTE***
 1477
                                                                    **
 1478
            *>
                                                                    **
            *> These two strings must be found IN THEIR ENTIRETY within
 1479
                                                                    **
 1480
            *> the 1st 80 columns of program source records, and cannot
                                                                    **
 1481
            *> follow either a '*>' sequence OR a '*' in col 7.
                                                                    **
 1482
            1483
            *> DATE CHANGE DESCRIPTION
 1484
           *> GC0809 Initial coding.
 1485
                                                                    **
 1486
            *>**********************
 1487
            ENVIRONMENT DIVISION.
 1488
            CONFIGURATION SECTION.
 1489
            REPOSITORY.
 1490
                FUNCTION ALL INTRINSIC.
 1491
            DATA DIVISION.
 1492
            WORKING-STORAGE SECTION.
 1493
             01 WS-Compressed-Src-TXT.
 1494
                05 WS-CS-CHR
                                                  OCCURS 80 TIMES
 1495
                                                  PIC X(1).
 1496
 1497
            01 WS-Runtime-Switches-TXT.
 1498
                05 WS-RS-Found-SPACE-CHR
                                                  PIC X(1).
                                              VALUE 'Y'.
                   88 WS-RS-Skipping-SPACE-BOOL
 1499
 1500
                   88 WS-RS-Not-Skipping-SPACE-BOOL VALUE 'N'.
 1501
 1502
           01 WS-I-SUB
                                                  USAGE BINARY-CHAR.
 1503
            01 WS-J-SUB
 1504
                                                  USAGE BINARY-CHAR.
            LINKAGE SECTION.
 1505
 1506
            01 L-Argument-1-TXT.
 1507
                02 L-A1-CHR
                                                  OCCURS 80 TIMES
 1508
                                                  PIC X(1).
 1509
 1510
             01 L-Argument-2-CHR
                                                  PIC X(1).
 1511
                88 L-A2-LINKAGE-SECTION-BOOL VALUE 'L'.
 1512
                88 L-A2-IDENT-DIVISION-BOOL VALUE 'I'.
 1513
                88 L-A2-Nothing-Special-BOOL VALUE ' '.
 1514
      GCO712 PROCEDURE DIVISION USING BY VALUE
 1515
                                              L-Argument-1-TXT
                                   BY REFERENCE L-Argument-2-CHR.
 1516
      GC0712
 1517
             000-Main SECTION.
 1518
                SET L-A2-Nothing-Special-BOOL TO TRUE
 1519
                IF L-A1-CHR (7) = '*'
 1520
                    GOBACK
 1521
                END-IF
 1522
 1523
            *>
 1524
            *> Compress multiple consecutive spaces
```

```
ACS Cobol Xref v2.02.04
                                 Dictionary File for GCIC (CHECKSRC) 06/03/2022 23:09:11:00
                                                                                                         46
                                                                                                  Page
 1525
                   SET WS-RS-Not-Skipping-SPACE-BOOL TO TRUE
 1526
 1527
                   MOVE O TO WS-J-SUB
                   MOVE SPACES TO WS-Compressed-Src-TXT
 1528
 1529
                   PERFORM VARYING WS-I-SUB FROM 1 BY 1
                             UNTIL WS-I-SUB > 80
 1530
 1531
                       IF L-A1-CHR (WS-I-SUB) = SPACE
                           IF WS-RS-Not-Skipping-SPACE-BOOL
 1532
                               ADD 1 TO WS-J-SUB
 1533
                               MOVE UPPER-CASE(L-A1-CHR (WS-I-SUB))
 1534
 1535
                                 TO WS-CS-CHR (WS-J-SUB)
                               SET WS-RS-Skipping-SPACE-BOOL TO TRUE
 1536
 1537
                           END-IF
                       ELSE
 1538
 1539
                           SET WS-RS-Not-Skipping-SPACE-BOOL TO TRUE
 1540
                           ADD 1 TO WS-J-SUB
                           MOVE L-A1-CHR (WS-I-SUB) TO WS-CS-CHR (WS-J-SUB)
 1541
 1542
                       END-IF
 1543
                   END-PERFORM
 1544
 1545
              *> Scan the compressed source line
 1546
 1547
                   PERFORM VARYING WS-I-SUB FROM 1 BY 1
 1548
                             UNTIL WS-I-SUB > 66
 1549
                       EVALUATE TRUE
 1550
                           WHEN WS-CS-CHR (WS-I-SUB) = '*'
 1551
                               IF WS-Compressed-Src-TXT (WS-I-SUB : 2) = '*>'
 1552
                                   GOBACK
                               END-IF
 1553
                           WHEN (WS-CS-CHR (WS-I-SUB) = 'L') AND (WS-I-SUB < 66)
 1554
                               IF WS-Compressed-Src-TXT (WS-I-SUB : 15)
 1555
 1556
                                  = 'LINKAGE SECTION'
                                   SET L-A2-LINKAGE-SECTION-BOOL TO TRUE
 1557
                                   GOBACK
 1558
                               END-IF
 1559
                           WHEN (WS-CS-CHR (WS-I-SUB) = 'I') AND (WS-I-SUB < 58)
 1560
 1561
                               IF WS-Compressed-Src-TXT (WS-I-SUB : 23)
 1562
                                   = 'IDENTIFICATION DIVISION'
 1563
                                   SET L-A2-IDENT-DIVISION-BOOL TO TRUE
 1564
                                   GOBACK
 1565
                               END-IF
 1566
                       END-EVALUATE
 1567
                   END-PERFORM
 1568
              *>
 1569
              *> If we get to here, we never found anything!
 1570
 1571 +
                    GOBACK
 1572
               END PROGRAM CHECKSRC.
 1573
 1574
```

28 September 2024 Chapter GCic

ACS Cobol Xref v2.02.04 Dictionary File for GCIC (CHECKSRC) 06/03/2022 23:09:11:00 Page 47 Symbols of Module: GCIC (CHECKSRC)

Data Section (WORKING-STORAGE) Defn Locations

WS-COMPRESSED-SRC-TXT 001493W 001528 001551 001555 001561

WS-CS-CHR 001494W 001535 001541 001550 001554 001560

WS-I-SUB 001502W 001529 001530 001531 001534 001541 001547 001548 001550

001551 001554 001555 001560 001561

WS-J-SUB 001504W 001527 001533 001535 001540 001541

WS-RS-FOUND-SPACE-CHR 001498W

WS-RS-NOT-SKIPPING-SPACE-BOOL 001500W 001526 001532 001539

WS-RS-SKIPPING-SPACE-BOOL 001499W 001536

WS-RUNTIME-SWITCHES-TXT 001497W

ACS Cobol Xref v2.02.04 Dictionary File for GCIC (CHECKSRC) 06/03/2022 23:09:11:00 Page 48 Symbols of Module: GCIC (CHECKSRC)

Data Section (LINKAGE)	Defn	Locations
	+	
L-A1-CHR	001507K	001519 001531 001534 001541
L-A2-IDENT-DIVISION-BOOL	001512K	001563
L-A2-LINKAGE-SECTION-BOOL	001511K	001557
L-A2-NOTHING-SPECIAL-BOOL	001513K	001518
L-ARGUMENT-1-TXT	001506K	001515
L-ARGUMENT-2-CHR	001510K	001516

ACS Cobol Xref v2.02.04 Dictionary File for GCIC (CHECKSRC) 06/03/2022 23:09:11:00 Page 49 Symbols of Module: GCIC (CHECKSRC)

Variable Tested [S] Symbol (88-Conditions)

L-ARGUMENT-2-CHR
L-ARGUMENT-2-CHR
L-ARGUMENT-2-CHR
L-A2-IDENT-DIVISION-BOOL
L-ARGUMENT-2-CHR
L-A2-NOTHING-SPECIAL-BOOL
WS-RS-FOUND-SPACE-CHR
WS-RS-SKIPPING-SPACE-BOOL
WS-RS-FOUND-SPACE-CHR

ACS Cobol Xref v2.02.04 Dictionary File for GCIC (CHECKSRC) 06/03/2022 23:09:11:00 Page 50 Symbols of Module: GCIC (CHECKSRC)

Variable Tested Symbol (88-Conditions) [S]

L-ARGUMENT-2-CHR
L-ARGUMENT-2-CHR
L-ARGUMENT-2-CHR
L-A2-LINKAGE-SECTION-BOOL
L-ARGUMENT-2-CHR
L-A2-NOTHING-SPECIAL-BOOL
WS-RS-FOUND-SPACE-CHR
WS-RS-NOT-SKIPPING-SPACE-BOOL
WS-RS-FOUND-SPACE-CHR
WS-RS-SKIPPING-SPACE-BOOL

UPPER-CASE 001534I

Chapter GCic

ACS Cobol Xref v2.02.04 Dictionary File for GCIC (CHECKSRC) 06/03/2022 23:09:11:00 Page 52 Symbols of Module: GCIC (CHECKSRC)

Procedure Defn Locations

None

ACS Cobol Xref v2.02.04 Dictionary File for GCIC (CHECKSRC) 06/03/2022 23:09:11:00 Page 53

Symbols of Module: GCIC (CHECKSRC)

Unreferenced Working Storage Symbols

WS-RS-FOUND-SPACE-CHR 001498W WS-RUNTIME-SWITCHES-TXT 001497W

ACS Cobol Xref v2.02.04 Dictionary File for GCIC (CHECKSRC) 06/03/2022 23:09:11:00 Page 54

Symbols of Module: GCIC (CHECKSRC)

Unreferenced Procedures

None

```
ACS Cobol Xref v2.02.04
                            Dictionary File for GCIC (CHECKSRC) 06/03/2022 23:09:11:00
                                                                                  Page
                                                                                        55
            IDENTIFICATION DIVISION.
 1575
            PROGRAM-ID. LISTING.
 1576
           1577
           *> This subprogram generates a cross-reference listing of an **
 1578
           *> GNU COBOL program.
 1579
           *>****************
 1580
 1581
           *>
                          GARY L. CUTLER
 1582
           *> AUTHOR:
                                                                  **
                          Copyright (C) 2010, Gary L. Cutler, GPL
 1583
           *>
                                                                  **
 1584
                                                                  **
 1585
           *> DATE-WRITTEN: April 1, 2010
                                                                  **
 1586
 1587
           1588
           *> DATE CHANGE DESCRIPTION
 1589
           1590
           *> GCO410 Initial coding
                                                                  **
 1591
           *> GC0711 Updates to accommodate the 12MAR2010 version of OC
                                                                 **
 1592
           *> GC0710 Handle duplicate data names (i.e. 'CORRESPONDING' or **
                   qualified items) better; ignore 'END PROGRAM' recs
 1593
 1594
                   so program name doesn't appear in listing.
 1595
           *> GC0313 Fix problem where the first procedure name defined
 1596
           *> in the PROCEDURE DIVISION lacks a "Defined" line
                                                                 **
 1597
           *>
                   number.
 1598
           *> GC1213 Updated for 23NOV2013 version of GNU COBOL 2.1; Stop **
 1599
           *> showing functions as if they were identifiers in the **
 1600
           *>
                  xref listing; Flag all CALL argument references with **
                  a "C" rather than "*" because they aren't necessari- **
 1601
           *>
          *>
*>
 1602
                   ly altered; Fixed assorted formatting bugs; DOWN-
                   WARD COMPATIBLE WITH GNU COBOL 2.0 SYNTAX
 1603
                                                                 **
 1604
          *> GCO314 Fix problem where 1st char of 1st token on a line is **
 1605
          *> lost if >>SOURCE MODE IS FREE is in effect and the **
                    1st character is non-blank.
 1606
          *>
 1607
          *> VC1217 Updated compiler version & date to v3.0 & 24DEC2017. **
 1608
          *> VCO720 Updated compiler to 3.1 July2020 and the copyright. **
 1609
          *> VCO322 Updated compiler to 3.1.2 March2022 & the copyright. **
          *>*******************
 1610
 1611
           ENVIRONMENT DIVISION.
 1612
           CONFIGURATION SECTION.
 1613
            REPOSITORY.
 1614
               FUNCTION ALL INTRINSIC.
 1615
            INPUT-OUTPUT SECTION.
 1616
            FILE-CONTROL.
 1617
               SELECT F-Expanded-Src-FILE ASSIGN TO WS-Expanded-Src-Fn-TXT
 1618
                                        ORGANIZATION IS LINE SEQUENTIAL.
 1619 GC0712
               SELECT F-Listing-FILE
                                        ASSIGN TO L-Listing-Fn-TXT
 1620
                                        ORGANIZATION IS LINE SEQUENTIAL.
 1621
               SELECT F-Original-Src-FILE ASSIGN TO L-Src-Fn-TXT
 1622
                                        ORGANIZATION IS LINE SEQUENTIAL.
                SELECT F-Sort-Work-FILE
 1623
                                        ASSIGN TO DISK.
 1624
           DATA DIVISION.
 1625
            FILE SECTION.
 1626
            FD F-Expanded-Src-FILE.
 1627
            01 F-Expanded-Src-REC.
 1628
               05 F-ES-1-CHR
                                                PIC X.
```

28 September 2024 Chapter GCic

```
ACS Cobol Xref v2.02.04
                                Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:00
                                                                                               Page
                                                                                                     56
                  05 F-ES-2-256-TXT-256
                                                        PIC X(256).
 1629
 1630 GC0712 01 F-Expanded-Src2-REC.
 1631 GC0712
                  05 F-ES-1-7-TXT
                                                        PIC X(7).
                  05 F-ES-8-256-TXT
                                                        PIC X(249).
 1632 GC0712
 1633
 1634 GC0712 FD F-Listing-FILE.
 1635 GC1213 01 F-Listing-96-REC
                                                        PIC X(96).
 1636 GC1213 01 F-Listing-135-REC
                                                        PIC X(135).
              01 F-Listing-REC
                                                        PIC X(135).
 1637
 1638
 1639
              FD F-Original-Src-FILE.
 1640
              01 F-Original-Src-REC.
 1641 GC0410
                  05 F-OS-1-128-TXT.
 1642 GC0410
                  10 FILLER
                                                        PIC X(6).
                   10 F-OS-7-CHR
 1643 GC0410
                                                        PIC X(1).
                   10 F-0S-8-72-TXT
 1644 GC0712
                                                        PIC X(65).
                    10 FILLER
 1645 GC0712
                                                        PIC X(56).
 1646
                05 F-OS-129-256-TXT
                                                        PIC X(128).
 1647
 1648
            SD F-Sort-Work-FILE.
 1649
              01 F-Sort-Work-REC.
 1650
                  05 F-SW-Prog-ID-TXT
                                                        PIC X(15).
 1651
                  05 F-SW-Token-Uc-TXT
                                                        PIC X(32).
 1652
                  05 F-SW-Token-TXT
                                                       PIC X(32).
 1653
                  05 F-SW-Section-TXT
                                                       PIC X(15).
 1654
                  05 F-SW-Def-Line-NUM
                                                       PIC 9(6).
 1655
                  05 F-SW-Reference-TXT.
 1656
                     10 F-SW-Ref-Line-NUM
                                                       PIC 9(6).
                     10 F-SW-Ref-Flag-CHR
                                                       PIC X(1).
 1657
 1658
 1659
              WORKING-STORAGE SECTION.
 1660 GC1213 01 WS-Copyright-TXT
                                                        PIC X(86).
 1661
 1662
              01 WS-Curr-CHR
                                                        PIC X(1).
                  88 WS-Curr-Char-Is-Punct-BOOL
                                                        VALUE '=', '(', ')',
 1663
                                                              '*', '/', '&',
 1664
                                                              ';', ',', '<',
'>', ':'.
 1665
 1666
                                                        VALUE "'", '"'.
 1667
                  88 WS-Curr-Char-Is-Quote-BOOL
                                                        VALUE 'x', 'X'.
 1668
                  88 WS-Curr-Char-Is-X-BOOL
 1669
                  88 WS-Curr-Char-Is-Z-BOOL
                                                        VALUE 'z', 'Z'.
 1670
 1671
              01 WS-Curr-Division-TXT
                                                        PIC X(1).
                                                        VALUE 'i', 'I', '?'.
 1672 GC1010
                  88 WS-CD-In-IDENT-DIV-BOOL
                                                        VALUE 'e', 'E'.
 1673
       GC1010
                  88 WS-CD-In-ENV-DIV-BOOL
                  88 WS-CD-In-DATA-DIV-BOOL
                                                        VALUE 'd', 'D'.
 1674 GC1010
 1675 GC1010
                  88 WS-CD-In-PROC-DIV-BOOL
                                                        VALUE 'p', 'P'.
 1676
 1677
              01 WS-Curr-Line-NUM
                                                        PIC 9(6).
 1678
 1679
              01 WS-Curr-Prog-ID-TXT.
 1680
                  05 FILLER
                                                        PIC X(12).
                                                        PIC X(3).
 1681
                  05 WS-CPI-13-15-TXT
```

PIC X(1).

Chapter GCic 28 September 2024

05 WS-CPI-16-CHR

1682 GC0712

ACS Col	ool Xı	ref	٧2.	02.04	Dictionary	File for	GCIC	(LISTING)	06/03/2022	23:09:11:00	Page	57
1683												
1684			01	WS-Curr-Secti	on-TXT.							
1685				05 WS-CS-1-CH	R		I	PIC X(1).				
1686				05 WS-CS-2-14	-TXT.							
1687				10 FILLER			I	PIC X(10).				
1688				10 WS-CS-1	1-14-TXT		I	PIC X(3).				
1689				05 WS-CS-15-C	HR		I	PIC X(1).				
1690												
1691			01	WS-Curr-Verb-	TXT		I	PIC X(12).				
1692			^4	IIG D 3: MVM				TG V(0)				
1693			01	WS-Delim-TXT			ı	PIC X(2).				
1694 1695			01	WS-Dummy-TXT			1	PIC X(1).				
1696			01	ws-Dulliny-IXI				710 X(1).				
1697			01	WS-Expanded-S	rc-Fn-TXT		ī	PIC X(256)				
1698			01	WE Emparada E	10 111 1111			10 11(200)	•			
1699			01	WS-Filename-T	XT		I	PIC X(256)				
1700												
1701	GC12	213	01	WS-Flags-TXT.								
1702	GC12	213		05 WS-Suppres	s-FF-CHR		I	PIC X(1).				
1703												
	GC12	213	01	WS-Formatted-	DT		I	PIC 9999/9	9/99.			
1705												
1706			01	WS-Group-Indi				TG V(45)				
1707				05 WS-GI-Prog				PIC X(15).				
1708 1709				05 WS-GI-Toke	n-1X1		1	PIC X(32).				
1710			Λ1	WS-Held-Refer	ence-TYT		1	PIC X(100)				
1711			01	wb herd herer	ence ixi			10 K(100)	•			
1712			01	WS-I-SUB			Ţ	JSAGE BINA	RY-LONG.			
1713												
1714			01	WS-J-SUB			Ţ	JSAGE BINA	RY-LONG.			
1715												
1716			01	WS-Lines-Left	-NUM		Ţ	JSAGE BINA	RY-LONG.			
1717												
1718			01	WS-Lines-Per-	Page-NUM		τ	JSAGE BINA	RY-LONG.			
1719			^4	110 1	D 0 000			TA W(050)				
1720			01	WS-Lines-Per-	Page-Env-IX	Γ	ı	PIC X(256)	•			
1721 1722	CC10	110	Λ1	WS-Main-Modul	0-Nomo-TVT		1	PIC X(256)				
1723	GCIC)10	01	ws-main-nodul	e-Name-IXI			FIC X(250)	•			
1724			01	WS-Next-CHR			I	PIC X(1).				
1725			-	88 WS-Next-Ch	ar-Is-Quote	-BOOL		VALUE '"',	",".			
1726					•			,				
1727			01	WS-OS-Type-FI	LLER-TXT.							
1728				05 VALUE 'Win	dows'		I	PIC X(14).				
1729				05 VALUE 'Win	dows/Cygwin	,	I	PIC X(14).				
1730				05 VALUE 'UNI				PIC X(14).				
1731				05 VALUE 'OSX				PIC X(14).				
1732			0.4	05 VALUE 'Win		a 110 00 m		PIC X(14).				
1733			01	WS-OS-Types-T		s ws-US-T						
1734				05 WS-OS-Type	-1 Y I	na		PIC X(14)				
1735 1736						UC	GAUU	5 TIMES .				
1130												

 $28 \ {\rm September} \ 2024$

ACS Cob	ool Xref v2.	02.04 Dictionary File for GCI	C (LISTING) 06/03/2022	23:09:11:00	Page	58
1737 1738	GC0712 01	WS-Page-NUM	USAGE BINARY-LONG.			
1739	GC0712 01	WS-Page-No-TXT.				
1740	GC0712	05 WS-PN-Literal-TXT	PIC X(6).			
1741	GC0712	05 WS-PN-Literal-TXT 05 WS-PN-Page-NUM	PIC Z(3)9.			
1742		•				
1743	GC1213 01	WS-Program-Path-TXT	PIC X(135).			
1744						
1745	01	WS-Reserved-Words-TXT.				
1746		O5 VALUE '	' PIC X(33).			
1747	GC1213	05 VALUE 'FABS	' PIC X(33).			
1748		O5 VALUE 'VACCEPT	' PIC X(33).			
1749		05 VALUE ' ACCESS	, bic X(33).			
	GC1213	05 VALUE 'FABS 05 VALUE 'YACCEPT 05 VALUE 'ACCESS 05 VALUE 'FACOS 05 VALUE 'ACTIVE-CLASS 05 VALUE 'VADD 05 VALUE ' ADDRESS	' PIC X(33).			
1751		05 VALUE ' ACTIVE-CLASS	' PIC X(33).	UNIMPLEMENTED		
1752		OF WALLE , ADDREGG	' PIC X(33).			
1753		O5 VALUE , ADVANCING	' PIC X(33).			
1754 1755		OF MALLE ANALOGUE	'PIC X(33). 'PIC X(33).			
1756		O5 VALUE ' ADVANCING O5 VALUE 'KAFTER O5 VALUE ' ALIGNED	, bic x(33).	UNIMPLEMENTED		
1757		OS VALUE ALIGNED	PIC X(33).	ONTHE LEGENTED		
1758		05 VALUE ' ALL 05 VALUE 'VALLOCATE	, bic x(33).			
1759		O5 VALUE ' ALPHABET	, bic x(33).			
1760		O5 VALUE ' ALPHABETIC	, bic X(33).			
1761		O5 VALUE ' ALPHABETIC-LOWER				
1762		O5 VALUE ' ALPHABETIC-UPPER				
1763		O5 VALUE ' ALPHANUMERIC	' PIC X(33).			
1764		O5 VALUE ' ALPHANUMERIC-EDITED	' PIC X(33).			
1765		05 VALUE ' ALSO	, bic X(33).			
1766		O5 VALUE 'VALTER	' PIC X(33).			
1767		O5 VALUE ' ALTERNATE	' PIC X(33).			
1768		O5 VALUE ' AND	' PIC X(33).			
	GC1213	O5 VALUE 'FANNUITY	' PIC X(33).			
1770		O5 VALUE ' ANY	' PIC X(33).			
1771		O5 VALUE ' ANYCASE	' PIC X(33).	UNIMPLEMENTED		
1772 1773		O5 VALUE ' ARE O5 VALUE ' AREA	'PIC X(33). 'PIC X(33).			
1774		OS VALUE ' AREAS	PIC X(33).			
1775		O5 VALUE ' ARGUMENT-NUMBER	, bic x(33).			
1776		05 VALUE ' ARGUMENT-VALUE	, bic x(33).			
1777		O5 VALUE 'ARITHMETIC	, bic X(33).	UNIMPLEMENTED		
1778		O5 VALUE ' AS	, bic X(33).			
1779		O5 VALUE ' ASCENDING	, bic X(33).			
1780		05 VALUE ' ASCII	, PIC X(33).			
1781	GC1213	O5 VALUE 'FASIN	, PIC X(33).			
1782		O5 VALUE ' ASSIGN	' PIC X(33).			
1783		O5 VALUE ' AT	, bic X(33).			
1784	GC1213	O5 VALUE 'FATAN	, bic X(33).			
1785	GC0711	O5 VALUE ' ATTRIBUTE	' PIC X(33).			
1786		05 VALUE ' AUTHOR	' PIC X(33).	OBSOLETE		
1787		05 VALUE , AUTO	' PIC X(33).			
1788		05 VALUE , AUTO-SKIP	' PIC X(33).			
1789		O5 VALUE , AUTOTERMINATE	, PIC X(33).			
1790		O5 VALUE ' AUTOTERMINATE	' PIC X(33).			

Chapter GCic

ACS Cobo	ol Xref v2	.02.04	Dictionary File	for GCIC	(LISTING)	06/03/2022	23:09:11:01	Page	59
1791		05 VALUE	' AWAY-FROM-ZERO			X(33).			
1792		05 VALUE	' B-AND		, bic	X(33).	UNIMPLEMENTED		
1793		05 VALUE	, B-NOT		, bic	X(33).	UNIMPLEMENTED		
1794		05 VALUE	' B-OR		, bic	X(33).	UNIMPLEMENTED UNIMPLEMENTED UNIMPLEMENTED		
1795		05 VALUE	B-XOR BACKGROUND-COLOR		, bic	X(33).	UNIMPLEMENTED		
1796		05 VALUE	, BACKGROUND-COLOR		, bic	X(33).			
1797		05 VALUE	BACKGROUND-COLOUR BASED		, bic	X(33).			
1798		OO VALOL	DROLD		, bic	X(33).			
1799		05 VALUE	' BEEP			X(33).			
1800		05 VALUE	' BEFORE			X(33).			
1801		05 VALUE	' BEFORE ' BELL ' BINARY			X(33).			
1802		05 VALUE	' BINARY		, bic	X(33).			
1803		05 VALUE	' BINARY-C-LONG		, bic	X(33).			
1804		05 VALUE	' BINARY-CHAR		, bic	X(33).			
1805		05 VALUE	BINARY BINARY-C-LONG BINARY-CHAR BINARY-DOUBLE BINARY-INT BINARY-LONG BINARY-LONG		, PIC	X(33).			
1806		05 VALUE	' BINARY-INT		, PIC	X(33).			
1807		05 VALUE	' BINARY-LUNG		, PIC	X(33).			
1808		05 VALUE	BINARY-LUNG-LUNG		, PIC	X(33).			
1809		OF VALUE	' BINARY-LONG-LONG ' BINARY-SHORT ' BIT		, PIC	X(33).	HINTMDI EMENTED		
1810		05 VALUE	DI WIN			X(33). X(33).	UNIMPLEMENTED		
1811 1812		05 VALUE				X(33).			
1813		05 VALUE	, BIUCK			X(33).			
1814			, BOOLEAN				UNIMPLEMENTED		
	GC1213	05 VALUE	'FBOOLEAN-OF-INTEGER		, PIC		UNIMPLEMENTED		
1816	GOIZIO	05 VALUE	, BULLUM		, PIC	X(33).			
1817		05 VALUE				X(33).			
	GC1213		'FBYTE-LENGTH			X(33).			
1819		05 VALUE				X(33).			
1820		05 VALUE				X(33).			
1821		05 VALUE	,WC03			X(33).			
1822		05 VALUE	'MC04		, bic	X(33).			
1823		05 VALUE	'MC05		, bic	X(33).			
1824		05 VALUE	'MC06			X(33).			
1825		05 VALUE	'MCO7			X(33).			
1826		05 VALUE				X(33).			
1827		05 VALUE				X(33).			
1828		05 VALUE				X(33).			
1829		05 VALUE				X(33).			
1830		05 VALUE				X(33).			
1831		05 VALUE				X(33).			
1832			'MCALL-CONVENTION			X(33).			
1833 1834		O5 VALUE	' CAPACITY			X(33). X(33).	וואדאסו באבאידבים		
1835		05 VALUE				X(33).	UNIMPLEMENTED OBSOLETE		
1836		05 VALUE				X(33).	UNIMPLEMENTED		
1837		05 VALUE				X(33).	ONTH EDHENTED		
1838		05 VALUE				X(33).			
1839		05 VALUE				X(33).	UNIMPLEMENTED		
1840			, CHAINING			X(33).			
	GC1213	05 VALUE				X(33).			
	GC1213		'FCHAR-NATIONAL			X(33).	UNIMPLEMENTED		
1843			' CHARACTER			X(33).			
1844		05 VALUE	' CHARACTERS		, bic	X(33).			

28 September 2024

1845	ACS Cobol Xref	v2.02.04	Dictionary File	for GCIC	(LISTING)	06/03/2022	23:09:11:01
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1848 05 YALUE 'VGLOSE ' PIC X(33). 1850 05 VALUE ' CODE-CRT-STATUS ' PIC X(33). 1851 05 VALUE ' CODE-CRT-STATUS ' PIC X(33). 1852 05 VALUE ' CODE-ST ' PIC X(33). 1853 05 VALUE ' COLLATING ' PIC X(33). 1853 05 VALUE ' COLLATING ' PIC X(33). 1855 05 VALUE ' COLLATING ' PIC X(33). 1855 05 VALUE ' COLLS ' PIC X(33). 1856 05 VALUE ' COLLOWN ' PIC X(33). 1857 GC1213 05 VALUE ' COLUMNS ' PIC X(33). 1859 05 VALUE ' COLUMNS ' PIC X(33). 1859 05 VALUE ' COMMAND-LINE ' PIC X(33). 1860 05 VALUE ' COMMAND-LINE ' PIC X(33). 1861 05 VALUE ' COMMAND-LINE ' PIC X(33). 1862 05 VALUE ' COMMON ' PIC X(33). 1863 05 VALUE ' COMMON ' PIC X(33). 1864 05 VALUE ' COMMON ' PIC X(33). 1865 05 VALUE ' COMMON ' PIC X(33). 1866 05 VALUE ' COMMON ' PIC X(33). 1866 05 VALUE ' COMMON ' PIC X(33). 1866 05 VALUE ' COMP-1 ' PIC X(33). 1866 05 VALUE ' COMP-1 ' PIC X(33). 1866 05 VALUE ' COMP-2 ' PIC X(33). 1868 05 VALUE ' COMP-2 ' PIC X(33). 1868 05 VALUE ' COMP-3 ' PIC X(33). 1869 05 VALUE ' COMP-5 ' PIC X(33). 1869 05 VALUE ' COMP-6 ' PIC X(33). 1869 05 VALUE ' COMP-6 ' PIC X(33). 1870 05 VALUE ' COMP-6 ' PIC X(33). 1871 05 VALUE ' COMP-6 ' PIC X(33). 1871 05 VALUE ' COMP-6 ' PIC X(33). 1873 05 VALUE ' COMP-6 ' PIC X(33). 1874 05 VALUE ' COMP-1 ' PIC X(33). 1875 05 VALUE ' COMP-1 ' PIC X(33). 1876 05 VALUE ' COMP-1 ' PIC X(33). 1877 05 VALUE ' COMPUTATIONAL-1 ' PIC X(33). 1878 05 VALUE ' COMPUTATIONAL-2 ' PIC X(33). 1879 05 VALUE ' COMPUTATIONAL-5 ' PIC X(33). 1870 05 VALUE ' COMPUTATIONAL-5 ' PIC X(33). 1871 05 VALUE ' COMPUTATIONAL-5 ' PIC X(33). 1875 05 VALUE ' COMPUTATIONAL-5 ' PIC X(33). 1876 05 VALUE ' COMPUTATIONAL-5 ' PIC X(33). 1877 05 VALUE ' COMPUTATIONAL-5 ' PIC X(33). 1880 06 VALUE ' COMPUTATIONAL-5 ' PIC X(33). 1871 05 VALUE ' COMPUTATIONAL-5 ' PIC X(33). 1881 05 VALUE ' COMPUTATIONAL-5 ' PIC X(33). 1882 05 VALUE ' COMPUTATIONAL-5 ' PIC X(33). 1883 05 VALUE ' COMPUTATIONAL-7 ' PIC X(33). 1884 05 VALUE ' COMPUTATIONAL-7 ' PIC X(33). 1885 05 VALUE ' COMPUTATIONAL-7 ' PIC X(33). 1886 05 VALUE ' COMPUTATIONAL-7 ' PIC X(33). 1887 05 VALU	1847 GC0711	05 VALUE ' CLA	ASSIFICATION				
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1887 05 VALUE ' CONTROL ' PIC X(33). 1888 05 VALUE ' CONTROLS ' PIC X(33). 1889 GC0711 05 VALUE ' CONVERSION ' PIC X(33). 1890 05 VALUE ' KCONVERTING ' PIC X(33). 1891 * 05 VALUE ' COPY ' PIC X(33). 1892 05 VALUE ' CORR ' PIC X(33). 1893 05 VALUE ' CORRESPONDING ' PIC X(33). 1894 GC1213 05 VALUE 'FCOS ' PIC X(33). 1895 05 VALUE ' KCOUNT ' PIC X(33). 1896 05 VALUE ' CRT ' PIC X(33). 1897 05 VALUE ' CRT-UNDER ' PIC X(33).							
1888 05 VALUE ' CONTROLS ' PIC X(33). 1889 GC0711 05 VALUE ' CONVERSION ' PIC X(33). 1890 05 VALUE ' KCONVERTING ' PIC X(33). 1891 * 05 VALUE ' COPY ' PIC X(33). 1892 05 VALUE ' CORR ' PIC X(33). 1893 05 VALUE ' CORRESPONDING ' PIC X(33). 1894 GC1213 05 VALUE 'FCOS ' PIC X(33). 1895 05 VALUE ' KCOUNT ' PIC X(33). 1896 05 VALUE ' CRT ' PIC X(33). 1897 05 VALUE ' CRT-UNDER ' PIC X(33).	1887						
1890 05 VALUE 'KCONVERTING 'PIC X(33). 1891 * 05 VALUE 'COPY 'PIC X(33). 1892 05 VALUE 'CORR 'PIC X(33). 1893 05 VALUE 'CORRESPONDING 'PIC X(33). 1894 GC1213 05 VALUE 'FCOS 'PIC X(33). 1895 05 VALUE 'KCOUNT 'PIC X(33). 1896 05 VALUE 'CRT 'PIC X(33). 1897 05 VALUE 'CRT-UNDER 'PIC X(33).	1888						
1890 05 VALUE 'KCONVERTING 'PIC X(33). 1891 * 05 VALUE 'COPY 'PIC X(33). 1892 05 VALUE 'CORR 'PIC X(33). 1893 05 VALUE 'CORRESPONDING 'PIC X(33). 1894 GC1213 05 VALUE 'FCOS 'PIC X(33). 1895 05 VALUE 'KCOUNT 'PIC X(33). 1896 05 VALUE 'CRT 'PIC X(33). 1897 05 VALUE 'CRT-UNDER 'PIC X(33).	1889 GC0711	O5 VALUE ' COI	NVERSION		, bic	X(33).	
1892	1890	O5 VALUE 'KCOI	NVERTING				
1892							
1893 05 VALUE 'CORRESPONDING 'PIC X(33). 1894 GC1213 05 VALUE 'FCOS 'PIC X(33). 1895 05 VALUE 'KCOUNT 'PIC X(33). 1896 05 VALUE 'CRT 'PIC X(33). 1897 05 VALUE 'CRT-UNDER 'PIC X(33).	1892	O5 VALUE ' COI	RR		, bic	X(33).	
1894 GC1213 05 VALUE 'FCOS ' PIC X(33). 1895 05 VALUE 'KCOUNT ' PIC X(33). 1896 05 VALUE 'CRT ' PIC X(33). 1897 05 VALUE 'CRT-UNDER ' PIC X(33).	1893				, bic	X(33).	
1896	1894 GC1213	O5 VALUE 'FCOS	5				
1897 05 VALUE ' CRT-UNDER ' PIC X(33).	1895	05 VALUE 'KCOU	JNT		, bic	X(33).	
	1896	O5 VALUE ' CR	Γ		, bic	X(33).	
1898 05 VALUE 'MCSP ' PIC X(33).	1897	O5 VALUE ' CR	Γ-UNDER		, bic	X(33).	
	1898	05 VALUE 'MCSI	•		, bic	X(33).	

Chapter GCic

Page

60

ACS Cob	ol Xref	v2.02.04	Dictionary File	for GCIC	(LISTING)	06/03/2022	23:09:11:01	Page	61
1899		05 VALUE	, CURRENCY		, bic	X(33).			
1900	GC1213	O5 VALUE	'FCURRENCY 'FCURRENCY-SYMBOL 'FCURRENT-DATE 'CURSOR 'CYCLE 'KDATA 'DATA-POINTER 'DATE 'DATE 'DATE 'DATE-COMPILED 'DATE-MODIFIED 'FDATE-OF-INTEGER		, bic	X(33).			
1901	GC1213 GC1213	O5 VALUE	'FCURRENT-DATE		, bic	X(33).			
1902		O5 VALUE	, CURSOR		, bic	X(33).			
1903		O5 VALUE	, CYCLE		, bic	X(33).			
1904		05 VALUE	'KDATA		, bic	X(33).			
1905		O5 VALUE	' DATA-POINTER		, bic	X(33).	UNIMPLEMENTED		
1906		05 VALUE	, DATE		, bic	X(33).			
1907		O5 VALUE	' DATE-COMPILED		, bic	X(33).	OBSOLETE		
1908		O5 VALUE	' DATE-MODIFIED		, bic	X(33).	OBSOLETE		
	GC1213	05 VALUE	'FDATE-OF-INTEGER		, bic	X(33).			
1910	GC1213	OO VALOL	IDAIL IO IIIIIIDD		1 10	Λ(ΟΟ).			
1911		O5 VALUE	' DATE-WRITTEN		, bic	X(33).	OBSOLETE		
1912		05 VALUE	'DAY 'FDAY-OF-INTEGER 'DAY-OF-WEEK 'IDAY-TO-YYYYDDD 'DE		, bic	X(33).			
	GC1213	05 VALUE	'FDAY-OF-INTEGER		, bic	X(33).			
1914		05 VALUE	' DAY-OF-WEEK		, bic	X(33).			
	GC1213	05 VALUE	'IDAY-TO-YYYYDDD		, PIC	X(33).			
1916	000740	05 VALUE	, DE		, PIC				
	GC0712	O5 VALUE	'IDEBUG-CUNIENIS		, PIC	X(33).			
	GC0712	OF VALUE	*IDEBUG-IIEM		, PIC	X(33). X(33).			
	GC0712 GC0712	OF VALUE	'IDEBUG-CONTENTS 'IDEBUG-ITEM 'IDEBUG-LINE 'IDEBUG-NAME 'IDEBUG-SUB-1		, PIC	X(33).			
	GC0712	OS VALUE	TDEDUG-NAME		, DIC	X(33).			
	GC0712	OS VALUE	TDEBUG-SUB-1		, DIC	X(33).			
	GC0712	OS VALUE	'IDEBUG SUB 2		, DIC	X(33).			
1924	000712	OS VALUE	, DEBIGGING		, PIC	X(33).			
1925		O5 VALUE	'IDEBUG-SUB-2 'IDEBUG-SUB-3 ' DEBUGGING ' DECIMAL-POINT		, bic	X(33).			
1926		O5 VALUE	' DECIMAL-POINT ' DECLARATIVES ' DEFAULT 'VDELETE ' DELIMITED 'KDELIMITER ' DEPENDING ' DESCENDING		, bic	X(33).			
1927		05 VALUE	, DEFAULT		, bic	X(33).			
1928		O5 VALUE	'VDELETE		, bic	X(33).			
1929		05 VALUE	' DELIMITED		, bic	X(33).			
1930		05 VALUE	'KDELIMITER		, bic	X(33).			
1931		O5 VALUE	' DEPENDING		, bic	X(33).			
1932		O5 VALUE	' DESCENDING		, bic	X(33).			
1933		O5 VALUE	' DESTINATION		, bic	X(33).	UNIMPLEMENTED		
1934		05 VALUE	' DETAIL		, bic	X(33).			
	GC0711	O5 VALUE	, DISC		, bic	X(33).			
1936		05 VALUE	'DISK		, bic	X(33).			
1937	aa.a.a	05 VALUE	'VDISPLAY		, PIC	X(33).			
	GC1213	O5 VALUE	DESCENDING DESTINATION DETAIL DISC DISK VDISPLAY FDISPLAY-OF		, PIC		UNIMPLEMENTED		
1939		US VALUE	ADIAIDE		, PIC	X(33).			
1940 1941		05 VALUE	'KDIVISION			X(33). X(33).			
1941			' DUPLICATES			X(33).			
1942			' DYNAMIC			X(33).			
1943	GC1213	O5 VALUE				X(33).			
1945	001210	05 VALUE				X(33).			
1946	GC0712	05 VALUE				X(33).			
1947		05 VALUE				X(33).	OBSOLETE		
1948		05 VALUE				X(33).	- ·		
1949		05 VALUE				X(33).	OBSOLETE		
1950		05 VALUE	' EMPTY-CHECK			X(33).			
1951		05 VALUE				X(33).	OBSOLETE		
1952	GC0710	05 VALUE	'KEND		, bic	X(33).			

ACS Cobo	ol Xref v2.0	02.04	Dictionary	File for	GCIC (LI	STING)	06/03/2022	23:09:11:01	Page	62
1953		05 VALUE	' END-ACCEPT			, bic	X(33).			
1954		O5 VALUE	' END-ADD			, bic	X(33).			
1955		O5 VALUE	' END-CALL			, bic	X(33).			
1956		O5 VALUE	' END-CHAIN			, bic	X(33).	UNIMPLEMENTED		
1957		O5 VALUE	' END-COMPUTE			, bic	X(33).			
1958		05 VALUE	' END-DELETE			, bic	X(33).			
1959		O5 VALUE	' END-DISPLAY			, bic	X(33).			
1960		O5 VALUE	' END-DIVIDE			, bic	X(33).			
1961		O5 VALUE	' END-EVALUATE			, bic	X(33).			
1962		O5 VALUE	' END-IF			, bic	X(33).			
1963		O5 VALUE	' END-MULTIPLY			, bic	X(33).			
1964		05 VALUE	' END-OF-PAGE			, bic	X(33).			
1965		05 VALUE	' END-PERFORM				X(33).			
1966			' END-READ				X(33).			
1967			' END-RECEIVE			, bic	X(33).	OBSOLETE		
1968			' END-RETURN			, bic	X(33).			
1969		05 VALUE	' END-REWRITE				X(33).			
1970			' END-SEARCH				X(33).			
1971			' END-START				X(33).			
1972		05 VALUE	' END-STRING				X(33).			
1973		05 VALUE	' END-SUBTRACT				X(33).			
1974			' END-UNSTRING				X(33).			
1975			' END-WRITE				X(33).			
1976		05 VALUE				, bic	X(33).			
1977			' ENTRY-CONVENT	ION			X(33).	UNIMPLEMENTED		
1978			'KENVIRONMENT				X(33).			
1979			' ENVIRONMENT-N				X(33).			
1980			' ENVIRONMENT-V	ALUE			X(33).			
1981		05 VALUE					X(33).	UNIMPLEMENTED		
1982		05 VALUE					X(33).			
1983		05 VALUE					X(33).			
1984		05 VALUE					X(33).			
1985		05 VALUE	•				X(33).			
1986		05 VALUE	•				X(33).			
1987		05 VALUE					X(33).			
1988		05 VALUE					X(33).			
1989		05 VALUE					X(33).	ODGOL EME		
1990		05 VALUE					X(33).	OBSOLETE		
1991			VEVALUATE				X(33).			
1992	GC1213		' EXCEPTION	P			X(33).			
			'FEXCEPTION-FILE				X(33).	HINTMDI EMENTED		
1994			'FEXCEPTION-FILE				X(33).	UNIMPLEMENTED		
1995	GC1213		'FEXCEPTION-LOC				X(33).	HINTMDI EMENTED		
1996	GC1213		'FEXCEPTION-LOC				X(33).	UNIMPLEMENTED		
1997 1998	GC1213		'EXCEPTION-OBJE 'FEXCEPTION-STA'				X(33). X(33).	UNIMPLEMENTED		
			'FEXCEPTION-STA'							
1999 2000	GC1213		'EXCLUSIVE	100			X(33). X(33).			
2000		05 VALUE					X(33).			
2001	GC1213	05 VALUE					X(33).			
2002	GC1213 GC1213	05 VALUE					X(33).			
2003	U01213	05 VALUE					X(33).	UNIMPLEMENTED		
2004		05 VALUE					X(33).	ON THE PERENTED		
2005			' EXTERNAL				X(33).			
2000		OO VALUE	LATERNAL			F10	Λ(υυ).			

Chapter GCic

ACS Cob	ol Xref v	2.02.04	Dictionary Fi	ile for GCIC	(LISTING)	06/03/2022	23:09:11:01	Page	63
2007	GC1213	05 VALUE	'FFACTORIAL			X(33).			
2008		05 VALUE	' FACTORY		, bic	X(33).	UNIMPLEMENTED		
2009		O5 VALUE	' FACTORY ' FALSE 'KFD 'KFILE ' FILE-CONTROL			X(33).			
2010		05 VALUE	'KFD			X(33).			
2011		05 VALUE	'KFILE			X(33).			
2012		05 VALUE	' FILE-CONTROL			X(33).			
2013		U5 VALUE	, LILE-ID			X(33).			
	GC1113		' FILLER			X(33).			
2015		05 VALUE				X(33).			
2016	000740	05 VALUE	' FLOAT-BINARY-128	•	, PIC	X(33).	IIIITMDI EMENTED		
	GC0712 GC0712	OF VALUE	Y FLUAT-BINARY-128	3		X(33). X(33).	UNIMPLEMENTED		
	GC0712 GC0712	OS VALUE	' FLOAT-BINARY-32 ' FLOAT-BINARY-64			X(33).	UNIMPLEMENTED UNIMPLEMENTED		
2019	GC0712		' FLOAT-DECIMAL-16			X(33).	ONTHELENENTED		
2020			' FLOAT-DECIMAL-34						
2021		OS VALUE	, ELUAT PECHNED	r	, bic		UNIMPLEMENTED		
	GC0712	O5 VALUE	, ELUAT-INFINITY		, PIC	X(33).	UNIMPLEMENTED		
2024	400112	O5 VALUE	' FLOAT-EXTENDED ' FLOAT-INFINITY ' FLOAT-LONG		, bic	X(33).			
	GC0712	05 VALUE	' FLOAT-NOT-A-NUMB	BER.		X(33).	UNIMPLEMENTED		
2026		O5 VALUE	' FLOAT-SHORT ' FOOTING ' FOR		, bic	X(33).			
2027		05 VALUE	, FOOTING			X(33).			
2028		05 VALUE	, FOR		, bic	X(33).			
2029		05 VALUE	' FOREGROUND-COLOR	}	, bic	X(33).			
2030		O5 VALUE	, FOREGROUND-COLOU	JR	, bic	X(33).			
2031	GC0711		, FOREVER			X(33).			
2032		05 VALUE	' FORMAT		, bic	X(33).	UNIMPLEMENTED		
	GC1213	05 VALUE	'FFORMATTED-CURREN 'FFORMATTED-DATE 'FFORMATTED-DATETI	IT-DATE	, bic	X(33).	UNIMPLEMENTED		
	GC1213	05 VALUE	'FFORMATTED-DATE		, bic	X(33).	UNIMPLEMENTED		
	GC1213			IME	, bic	X(33).			
	GC1213		'FFORMATTED-TIME			X(33).	UNIMPLEMENTED		
2037	aa.a.a		'MFORMFEED			X(33).			
	GC1213	O5 VALUE	'FFRACTION-PART 'VFREE			X(33).			
2039 2040		OF VALUE	YFKEE > EDOM			X(33). X(33).			
2040		OS VALUE) FIII I			X(33).			
2041		OS VALUE	, EINCTION			X(33).			
	GC0712	O5 VALUE	'VFREE ' FROM ' FULL ' FUNCTION 'KFUNCTION-ID ' FUNCTION-POINTER 'VGENERATE			X(33).			
2044	400112	O5 VALUE	' FUNCTION-POINTER	}			UNIMPLEMENTED		
2045		O5 VALUE	'VGENERATE			X(33).			
2046		05 VALUE					UNIMPLEMENTED		
2047		O5 VALUE	'KGIVING		, bic	X(33).			
2048		05 VALUE	, GLOBAL			X(33).			
2049		05 VALUE	'VGO		, bic	X(33).			
2050		O5 VALUE	'VGOBACK		, bic	X(33).			
2051			' GREATER			X(33).			
2052		05 VALUE				X(33).			
2053			' GROUP-USAGE			X(33).	UNIMPLEMENTED		
2054			' HEADING			X(33).			
2055			, HIGH-VALUE			X(33).			
2056 2057	001019		' HIGH-VALUES	rc		X(33).			
2057	GC1213		'FHIGHEST-ALGEBRAI ' HIGHLIGHT	10		X(33). X(33).			
2059		05 VALUE				X(33).			
2060			' I-O-CONTROL			X(33).			
2000		OO VALOE	I O CONTITUE		110	1. (00).			

ACS Cob	ol Xref v2.02.04	Dictionary File for GCIC	(LISTING)	06/03/2022	23:09:11:01	Page	64
2061	O5 VALUE	'KID	, bic	X(33).			
2062	05 VALUE	'KIDENTIFICATION	, bic	X(33).			
2063	05 VALUE	'VIF		X(33).			
2064	05 VALUE	' IGNORE	, bic	X(33).			
2065	05 VALUE	' IGNORING		X(33).			
2066		' IMPLEMENTS		X(33).	UNIMPLEMENTED		
2067	05 VALUE			X(33).			
2068	05 VALUE			X(33).			
2069		'KINDEXED		X(33).			
2070		' INDICATE		X(33).			
2071		' INDIRECT		X(33).	UNIMPLEMENTED		
2072		' INHERITS		X(33).	UNIMPLEMENTED		
2073		' INITIAL		X(33).			
2074	05 VALUE	'VINITIALISE		X(33).			
2075	05 VALUE	' INITIALISED		X(33).			
2076	05 VALUE	'VINITIALIZE	, PIC	X(33).			
2077		' INITIALIZED		X(33).			
2078	05 VALUE	'VINITIATE	, bic	X(33).			
2079	05 VALUE			X(33).			
2080	05 VALUE	'KINPUT-OUTPUT	, bic	X(33).			
2081	05 VALUE	'VINSPECT	, bic	X(33).			
2082	05 VALUE	' INSTALLATION	, bic	X(33).	OBSOLETE		
2083	GC1213 05 VALUE	'FINTEGER	, bic	X(33).			
2084	GC1213 05 VALUE	'FINTEGER-OF-BOOLEAN	, bic	X(33).	UNIMPLEMENTED		
2085	GC1213 05 VALUE	'FINTEGER-OF-DATE	, bic	X(33).			
2086	GC1213 05 VALUE	'FINTEGER-OF-DAY		X(33).			
		'FINTEGER-OF-FORMATTED-DATE		X(33).	UNIMPLEMENTED		
		'FINTEGER-PART		X(33).			
2089		' INTERFACE		X(33).	UNIMPLEMENTED		
2090	05 VALUE	' INTERFACE-ID			UNIMPLEMENTED		
2091		' INTERMEDIATE		X(33).	UNIMPLEMENTED		
2092	05 VALUE			X(33).			
2093		' INTRINSIC		X(33).			
2094		' INVALID		X(33).			
2095		, INVOKE		X(33).	UNIMPLEMENTED		
2096	05 VALUE			X(33).			
2097	05 VALUE			X(33).			
2098		, JUSTIFIED		X(33).			
2099 2100	05 VALUE 05 VALUE			X(33). X(33).			
2100		' KEYBOARD					
2101	O5 VALUE			X(33). X(33).			
2102	O5 VALUE			X(33).			
2103		, TC_TT		X(33).	UNIMPLEMENTED		
2105		, TC_COTTALE		X(33).	UNIMPLEMENTED		
2106		, TC_CTAbE		X(33).	UNIMPLEMENTED		
2107		, LC_MESSAGES		X(33).	UNIMPLEMENTED		
2108		' LC_MONETARY		X(33).	UNIMPLEMENTED		
2109		' LC_NUMERIC		X(33).	UNIMPLEMENTED		
2110		' LC_TIME		X(33).	UNIMPLEMENTED		
2111		' LEADING		X(33).			
2112	05 VALUE			X(33).			
2113		' LEFT-JUSTIFY		X(33).	UNIMPLEMENTED		
2114	O5 VALUE	' LEFTLINE		X(33).			

Page 65

2115 GC1213 O5 VALUE FLENGTH PIC X(33)	
2123	
2123	
2123	
2123	
2123	
2123	
2123	
2123	
2124 GC1213 O5 VALUE 'ILINE-COUNTER PIC X(33). 2125 O5 VALUE 'LINES PIC X(33). 2126 O5 VALUE 'KLINKAGE PIC X(33). 2127 O5 VALUE 'KLOCAL-STORAGE PIC X(33). 2128 O5 VALUE 'LOCALE PIC X(33). 2129 GC1213 O5 VALUE 'FLOCALE-COMPARE PIC X(33). 2130 GC1213 O5 VALUE 'FLOCALE-DATE PIC X(33). 2131 GC1213 O5 VALUE 'FLOCALE-TIME PIC X(33). 2132 GC1213 O5 VALUE 'FLOCALE-TIME PIC X(33). 2133 O5 VALUE 'FLOCALE-TIME-FROM-SECONDS PIC X(33). 2134 GC1213 O5 VALUE 'FLOG PIC X(33). 2135 GC1213 O5 VALUE 'FLOG PIC X(33). 2136 O5 VALUE 'FLOG1O PIC X(33). 2137 O5 VALUE 'LOW-VALUE PIC X(33). 2138 O5 VALUE 'LOW-VALUE PIC X(33). 2139 GC1213 O5 VALUE 'FLOWER PIC X(33). 2140 GC1213 O5 VALUE 'FLOWER-CASE PIC X(33). 2141 O5 VALUE 'LOWLIGHT PIC X(33). 2142 O5 VALUE 'MANUAL PIC X(33). 2143 GC1213 O5 VALUE 'FMAX PIC X(33). 2144 GC1213 O5 VALUE 'FMAX PIC X(33). 2145 GC1213 O5 VALUE 'FMAX PIC X(33). 2146 GC1213 O5 VALUE 'FMAX PIC X(33). 2147 GC1213 O5 VALUE 'FMAX PIC X(33). 2148 GC1213 O5 VALUE 'FMAX PIC X(33). 2149 GC1213 O5 VALUE 'FMAX PIC X(33). 2144 GC1213 O5 VALUE 'FMAX PIC X(33). 2145 GC1213 O5 VALUE 'FMAX PIC X(33). 2146 GC1213 O5 VALUE 'FMAX PIC X(33). 2147 GC1213 O5 VALUE 'FMAX PIC X(33). 2148 GC1213 O5 VALUE 'FMAX PIC X(33). 2149 GC1213 O5 VALUE 'FMAX PIC X(33). 2140 GC1213 O5 VALUE 'FMAX PIC X(33). 2141 O5 VALUE 'FMAX PIC X(33). 2142 GC1213 O5 VALUE 'FMAX PIC X(33). 2144 GC1213 O5 VALUE 'FMAX PIC X(33).	
2125	
2126	
2127 05 VALUE 'KLOCAL-STORAGE 'PIC X(33). 2128 05 VALUE 'LOCALE 'PIC X(33). 2129 GC1213 05 VALUE 'FLOCALE-COMPARE 'PIC X(33). 2130 GC1213 05 VALUE 'FLOCALE-DATE 'PIC X(33). 2131 GC1213 05 VALUE 'FLOCALE-TIME 'PIC X(33). 2132 GC1213 05 VALUE 'FLOCALE-TIME-FROM-SECONDS 'PIC X(33). 2133 O5 VALUE 'LOCK 'PIC X(33). PIC X(33). 2134 GC1213 O5 VALUE 'FLOG1O 'PIC X(33). 2135 GC1213 O5 VALUE 'FLOG1O 'PIC X(33). 2136 O5 VALUE 'LOW-VALUE 'PIC X(33). 2137 O5 VALUE 'LOW-VALUES 'PIC X(33). 2138 O5 VALUE 'LOWER 'PIC X(33). 2139 GC1213 O5 VALUE 'FLOWER-CASE 'PIC X(33). 2140 GC1213 O5 VALUE 'FLOWEST-ALGEBRAIC 'PIC X(33). 2141 O5 VALUE 'LOWLIGHT 'PIC X(33). 2142 O5 VALUE 'FMAX 'PIC X(33). 2143 GC1213 O5 VALUE 'FMAX 'PIC X(33). 2144 GC1213 O5 VALUE 'FMAX 'PIC X(33).	
2128	
2129 GC1213 O5 VALUE 'FLOCALE-COMPARE ' PIC X(33). 2130 GC1213 O5 VALUE 'FLOCALE-DATE ' PIC X(33). 2131 GC1213 O5 VALUE 'FLOCALE-TIME ' PIC X(33). 2132 GC1213 O5 VALUE 'FLOCALE-TIME ' PIC X(33). 2133 O5 VALUE ' LOCK ' PIC X(33). 2134 GC1213 O5 VALUE 'FLOG ' PIC X(33). 2135 GC1213 O5 VALUE 'FLOG ' PIC X(33). 2136 O5 VALUE ' LOW-VALUE ' PIC X(33). 2137 O5 VALUE ' LOW-VALUE ' PIC X(33). 2138 O5 VALUE ' LOW-VALUES ' PIC X(33). 2139 GC1213 O5 VALUE ' LOWER ' PIC X(33). 2140 GC1213 O5 VALUE 'FLOWER ' PIC X(33). 2141 O5 VALUE ' LOWER-CASE ' PIC X(33). 2142 O5 VALUE ' LOWLIGHT ' PIC X(33). 2143 GC1213 O5 VALUE ' MANUAL ' PIC X(33). 2144 GC1213 O5 VALUE 'FMAX ' PIC X(33). 2145 GC1213 O5 VALUE ' FMAX ' PIC X(33). 2146 GC1213 O5 VALUE 'FMAX ' PIC X(33). 2147 PIC X(33).	
2130 GC1213 O5 VALUE 'FLOCALE-DATE ' PIC X(33). 2131 GC1213 O5 VALUE 'FLOCALE-TIME ' PIC X(33). 2132 GC1213 O5 VALUE 'FLOCALE-TIME-FROM-SECONDS ' PIC X(33). 2133 O5 VALUE ' LOCK ' PIC X(33). 2134 GC1213 O5 VALUE 'FLOG ' PIC X(33). 2135 GC1213 O5 VALUE 'FLOG1O ' PIC X(33). 2136 O5 VALUE ' LOW-VALUE ' PIC X(33). 2137 O5 VALUE ' LOW-VALUES ' PIC X(33). 2138 O5 VALUE ' LOW-VALUES ' PIC X(33). 2139 GC1213 O5 VALUE ' FLOWER ' PIC X(33). 2140 GC1213 O5 VALUE 'FLOWER-CASE ' PIC X(33). 2141 O5 VALUE ' LOWLIGHT ' PIC X(33). 2142 O5 VALUE ' MANUAL ' PIC X(33). 2143 GC1213 O5 VALUE ' MANUAL ' PIC X(33). 2144 GC1213 O5 VALUE 'FMAX ' PIC X(33). 2145 CC1213 O5 VALUE 'FMAX ' PIC X(33). 2146 CC1213 O5 VALUE 'FMAX ' PIC X(33).	
2131 GC1213 05 VALUE 'FLOCALE-TIME 'PIC X(33). 2132 GC1213 05 VALUE 'FLOCALE-TIME-FROM-SECONDS 'PIC X(33). 2133 05 VALUE 'LOCK 'PIC X(33). 2134 GC1213 05 VALUE 'FLOG 'PIC X(33). 2135 GC1213 05 VALUE 'FLOG1O 'PIC X(33). 2136 05 VALUE 'LOW-VALUE 'PIC X(33). 2137 05 VALUE 'LOW-VALUES 'PIC X(33). 2138 05 VALUE 'LOWER 'PIC X(33). 2139 GC1213 05 VALUE 'FLOWER-CASE 'PIC X(33). 2140 GC1213 05 VALUE 'LOWLIGHT 'PIC X(33). 2141 05 VALUE 'MANUAL 'PIC X(33). 2143 GC1213 05 VALUE 'FMAX 'PIC X(33). 2144 GC1213 05 VALUE 'FMAX 'PIC X(33).	
2132 GC1213 05 VALUE 'FLOCALE-TIME-FROM-SECONDS 'PIC X(33). 2133 05 VALUE LOCK 'PIC X(33). 2134 GC1213 05 VALUE 'FLOG1O 'PIC X(33). 2136 05 VALUE LOW-VALUE 'PIC X(33). 2137 05 VALUE LOW-VALUES 'PIC X(33). 2138 05 VALUE LOWER 'PIC X(33). 2139 GC1213 05 VALUE 'FLOWER-CASE 'PIC X(33). 2140 GC1213 05 VALUE 'LOWLIGHT 'PIC X(33). 2141 05 VALUE 'MANUAL 'PIC X(33). 2143 GC1213 05 VALUE 'FMAX 'PIC X(33). 2144 GC1213 05 VALUE 'FMAX 'PIC X(33). 2144 GC1213 05 VALUE 'FMAX 'PIC X(33).	
2133	
2134 GC1213 O5 VALUE 'FLOG ' PIC X(33). 2135 GC1213 O5 VALUE 'FLOG1O ' PIC X(33). 2136 O5 VALUE ' LOW-VALUE ' PIC X(33). 2137 O5 VALUE ' LOW-VALUES ' PIC X(33). 2138 O5 VALUE ' LOWER ' PIC X(33). 2139 GC1213 O5 VALUE 'FLOWER-CASE ' PIC X(33). 2140 GC1213 O5 VALUE 'FLOWEST-ALGEBRAIC ' PIC X(33). 2141 O5 VALUE ' LOWLIGHT ' PIC X(33). 2142 O5 VALUE ' MANUAL ' PIC X(33). 2143 GC1213 O5 VALUE 'FMAX ' PIC X(33). 2144 GC1213 O5 VALUE 'FMAX ' PIC X(33). 2144 GC1213 O5 VALUE 'FMAX ' PIC X(33).	
2135 GC1213 O5 VALUE 'FLOG1O 'PIC X(33). 2136 O5 VALUE 'LOW-VALUE 'PIC X(33). 2137 O5 VALUE 'LOW-VALUES 'PIC X(33). 2138 O5 VALUE 'LOWER 'PIC X(33). 2139 GC1213 O5 VALUE 'FLOWER-CASE 'PIC X(33). 2140 GC1213 O5 VALUE 'FLOWEST-ALGEBRAIC 'PIC X(33). 2141 O5 VALUE 'LOWLIGHT 'PIC X(33). 2142 O5 VALUE 'MANUAL 'PIC X(33). 2143 GC1213 O5 VALUE 'FMAX 'PIC X(33). 2144 GC1213 O5 VALUE 'FMAX 'PIC X(33).	
2136	
2137 05 VALUE 'LOW-VALUES 'PIC X(33). 2138 05 VALUE 'LOWER 'PIC X(33). 2139 GC1213 05 VALUE 'FLOWER-CASE 'PIC X(33). 2140 GC1213 05 VALUE 'FLOWEST-ALGEBRAIC 'PIC X(33). 2141 05 VALUE 'LOWLIGHT 'PIC X(33). 2142 05 VALUE 'MANUAL 'PIC X(33). 2143 GC1213 05 VALUE 'FMAX 'PIC X(33). 2144 GC1213 05 VALUE 'FMEAN 'PIC X(33).	
2138	
2139 GC1213 O5 VALUE 'FLOWER-CASE ' PIC X(33). 2140 GC1213 O5 VALUE 'FLOWEST-ALGEBRAIC ' PIC X(33). 2141 O5 VALUE ' LOWLIGHT ' PIC X(33). 2142 O5 VALUE ' MANUAL ' PIC X(33). 2143 GC1213 O5 VALUE 'FMAX ' PIC X(33). 2144 GC1213 O5 VALUE 'FMEAN ' PIC X(33).	
2140 GC1213 05 VALUE 'FLOWEST-ALGEBRAIC 'PIC X(33). 2141 05 VALUE 'LOWLIGHT 'PIC X(33). 2142 05 VALUE 'MANUAL 'PIC X(33). 2143 GC1213 05 VALUE 'FMAX 'PIC X(33). 2144 GC1213 05 VALUE 'FMEAN 'PIC X(33).	
2141 05 VALUE 'LOWLIGHT 'PIC X(33). 2142 05 VALUE 'MANUAL 'PIC X(33). 2143 GC1213 05 VALUE 'FMAX 'PIC X(33). 2144 GC1213 05 VALUE 'FMEAN 'PIC X(33).	
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2144 GC1213 05 VALUE 'FMEAN ' PIC X(33).	
2145 GC1213 05 VALUE 'FMEDIAN ' PIC X(33).	
2146 05 VALUE 'MEMORY 'PIC X(33).	
2147 05 VALUE 'VMERGE 'PIC X(33).	
2148 05 VALUE 'MESSAGE 'PIC X(33). OBSOLETE	
2149 05 VALUE 'METHOD 'PIC X(33). UNIMPLEMENTED)
2150 O5 VALUE 'METHOD-ID 'PIC X(33). UNIMPLEMENTED)
2151 GC1213 05 VALUE 'FMIDRANGE ' PIC X(33).	
2152 GC1213 05 VALUE 'FMIN ' PIC X(33).	
2153	
2154 GC1213 05 VALUE 'FMOD ' PIC X(33).	
2155 O5 VALUE ' MODE ' PIC X(33).	
2156 GC1213 O5 VALUE 'FMODULE-CALLER-ID ' PIC X(33).	
2157 GC1213 O5 VALUE 'FMODULE-DATE ' PIC X(33).	
2158 GC1213 O5 VALUE 'FMODULE-FORMATTED-DATE 'PIC X(33).	
2159 GC1213	
2160 GC1213 05 VALUE 'FMODULE-PATH 'PIC X(33).	
2161 GC1213 O5 VALUE 'FMODULE-SOURCE ' PIC X(33).	
2162 GC1213 05 VALUE 'FMODULE-TIME 'PIC X(33).	
2163 GC1213 05 VALUE 'FMONETARY-DECIMAL-POINT 'PIC X(33).	
2164 GC1213 05 VALUE 'FMONETARY-THOUSANDS-SEPARATOR 'PIC X(33).	
2165 05 VALUE 'VMOVE 'PIC X(33).	
2166 05 VALUE 'MULTIPLE 'PIC X(33).	
2167 05 VALUE 'VMULTIPLY 'PIC X(33).	
2168 GCO711 05 VALUE 'NAME 'PIC X(33).	

28 September 2024

ACS Cob	ol Xref v2.	02.04	Dictionary	File for	GCIC	(LISTIN	IG)	06/03/2022	23:09:11:02	Page
2169		O5 VALUE	, NATIONAL			, P	PIC	X(33).		
2170			, NATIONAL-EDIT	ED				X(33).		
2171	GC1213		'FNATIONAL-OF					X(33).	UNIMPLEMENTED	
2172			' NATIVE			, P	PIC	X(33).		
2173		05 VALUE	' NEAREST-AWAY-	FROM-ZERO		, P	PIC	X(33).		
2174		05 VALUE	' NEAREST-EVEN			, P	PIC	X(33).		
2175		05 VALUE	' NEAREST-TOWAR	D-ZERO				X(33).		
2176		05 VALUE	' NEGATIVE			, P	PIC	X(33).		
2177		05 VALUE	' NESTED					X(33).	UNIMPLEMENTED	
2178		05 VALUE						X(33).		
2179		05 VALUE						X(33).		
2180			, NO-ECHO					X(33).		
2181		05 VALUE						X(33).	UNIMPLEMENTED	
2182		05 VALUE						X(33).		
2183 2184		05 VALUE						X(33). X(33).		
2185		05 VALUE						X(33).		
2186		05 VALUE						X(33).		
2187			'INUMBER-OF-CAL	IPARAMETI	ERS			X(33).		
2188			, NUMBERS		2100			X(33).		
2189			, NUMERIC					X(33).		
	GC1213	05 VALUE	'FNUMERIC-DECIM	AL-POINT				X(33).		
2191			' NUMERIC-EDITE			, P	PIC	X(33).		
2192	GC1213	05 VALUE	'FNUMERIC-THOUS	ANDS-SEPAI	RATOR	, P	PIC	X(33).		
2193	GC1213	05 VALUE	'FNUMVAL			, P	PIC	X(33).		
2194	GC1213	05 VALUE	'FNUMVAL-C			, P	PIC	X(33).		
	GC1213	05 VALUE	'FNUMVAL-F					X(33).		
2196			, OBJECT					X(33).	UNIMPLEMENTED	
2197			OBJECT-COMPUT			, P				
2198			OBJECT-REFERE	NCE				X(33).	UNIMPLEMENTED	
2199 2200		05 VALUE	OCCURS					X(33). X(33).		
2200		05 VALUE						X(33).		
2201			, OMITTED					X(33).		
2203		05 VALUE						X(33).		
2204		05 VALUE						X(33).		
2205		05 VALUE						X(33).		
2206		05 VALUE	' OPTIONAL			, P	PIC	X(33).		
2207		05 VALUE	, OPTIONS			, P	PIC	X(33).	UNIMPLEMENTED	
2208		05 VALUE	, OR			, P	PIC	X(33).		
2209	GC1213	05 VALUE	'FORD					X(33).		
2210	GC1213	05 VALUE	'FORD-MAX			' P	PIC	X(33).		
2211	GC1213		'FORD-MIN					X(33).		
2212		05 VALUE						X(33).		
2213			ORGANISATION					X(33).		
2214			ORGANIZATION					X(33).		
2215		05 VALUE						X(33).		
2216 2217			OVEREION					X(33).		
2217			OVERFLOW OVERLINE					X(33). X(33).		
2210			OVERLINE OVERRIDE					X(33).		
2220			' PACKED-DECIMA	L				X(33).		
2221			, PADDING	_				X(33).		
2222		05 VALUE						X(33).		

Chapter GCic

66

ACS Cobol Xref	v2.02.04 Di	ctionary File for	r GCIC (LISTING)	06/03/2022	23:09:11:02	Page	67
2223 GC1213 2224	05 VALUE 'IPAGE-		, bic	X(33). X(33).			
2225	O5 VALUE 'VPERFO	RM		X(33).			
2226	O5 VALUE ' PF			X(33).			
2227	O5 VALUE , PH			X(33).			
2228 GC1213 2229	05 VALUE 'FPI 05 VALUE 'KPIC			X(33). X(33).			
2230	05 VALUE 'KPICTU	RF		X(33).			
2231	05 VALUE ' PLUS	ظبا		X(33).			
2232	O5 VALUE 'KPOINT	ER		X(33).			
2233	05 VALUE ' POSIT			X(33).			
2234	05 VALUE ' POSIT	IVE	, bic	X(33).			
2235	05 VALUE ' PREFI	XED	, bic	X(33).	UNIMPLEMENTED		
2236	05 VALUE ' PRESE			X(33).			
2237 GC1213				X(33).			
2238	05 VALUE ' PREVI			X(33).			
2239	05 VALUE 'MPRINT			X(33).			
2240 2241	05 VALUE ' PRINT 05 VALUE 'KPROCE			X(33). X(33).			
2241	05 VALUE ' PROCE		, bic				
2243	05 VALUE ' PROCE			X(33).			
2244	O5 VALUE ' PROCE			X(33).			
2245	05 VALUE ' PROGR			X(33).			
2246	05 VALUE 'KPROGR	AM-ID	, bic	X(33).			
2247	05 VALUE ' PROGR	AM-POINTER	, bic	X(33).			
2248	O5 VALUE ' PROHI			X(33).			
2249	05 VALUE ' PROMP'			X(33).			
2250	O5 VALUE , PROPE			X(33).	UNIMPLEMENTED		
2251 2252	05 VALUE ' PROTO 05 VALUE ' PURGE			X(33).	UNIMPLEMENTED		
2252	OS VALUE ' QUEUE			X(33). X(33).	OBSOLETE OBSOLETE		
2254	OS VALUE , QUOTE			X(33).	ODDOLLIL		
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2257	05 VALUE ' RAISI	NG	, bic	X(33).	UNIMPLEMENTED		
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2259 GC1213	05 VALUE 'FRANGE			X(33).			
2260 GC1213	05 VALUE 'KRD			X(33).			
2261 2262	05 VALUE 'VREAD 05 VALUE 'VREADY			X(33). X(33).			
2263	O5 VALUE 'VRECEI			X(33).	OBSOLETE		
2264	O5 VALUE ' RECOR			X(33).	ODDOLLIL		
2265	O5 VALUE ' RECOR			X(33).			
2266	O5 VALUE ' RECOR		, bic	X(33).			
2267	05 VALUE ' RECUR	SIVE		X(33).			
2268	05 VALUE 'KREDEF	INES	, bic	X(33).			
2269	O5 VALUE ' REEL			X(33).			
2270 GC0712	05 VALUE 'AREFER			X(33).			
2271	05 VALUE ' REFER			X(33).	INTANT DADAMED		
2272 2273	O5 VALUE ' RELAT O5 VALUE ' RELAT			X(33). X(33).	UNIMPLEMENTED		
2273	O5 VALUE 'VRELEA			X(33). X(33).			
2274 2275 GC1213	O5 VALUE 'FREM	OLI .		X(33).			
2276	O5 VALUE ' REMAI	NDER		X(33).			

ACS Cobo	ol Xref v2.02.	04	Dictionary	File	for GCIC	(LISTING)	06/03/2022	23:09:11:02	Page	68
2277	05	VALUE	, REMARKS			, bic	X(33).	OBSOLETE		
2278	05	VALUE	' REMOVAL			, bic	X(33).			
2279	05	VALUE	'KRENAMES			, bic	X(33).			
2280	05	VALUE	, REPLACE			, bic	X(33).			
2281	05	VALUE	'KREPLACING			, bic	X(33).			
2282	05	VALUE	'KREPORT			, bic	X(33).			
2283	05	VALUE	' REPORTING			, bic	X(33).			
2284	05	VALUE	, REPORTS			, bic	X(33).			
2285	05	VALUE	' REPOSITORY			, bic	X(33).			
2286	05	VALUE	' REQUIRED			, bic	X(33).			
2287			' RESERVE			, bic	X(33).			
2288			'VRESET			, bic	X(33).			
2289	05	VALUE	' RESUME			, bic	X(33).	UNIMPLEMENTED		
2290	05	VALUE	' RETRY			, bic	X(33).	UNIMPLEMENTED		
2291	05	VALUE	'VRETURN			, bic	X(33).			
2292	05	VALUE	'IRETURN-CODE			, bic	X(33).			
2293	05	VALUE	'KRETURNING			, bic	X(33).			
2294	GC1213 05	VALUE	'FREVERSE			, bic	X(33).			
2295	05	VALUE	' REVERSE-VIDEO			, bic	X(33).			
2296	05	VALUE	' REVERSED				X(33).			
2297	05	VALUE	' REWIND			, bic	X(33).			
2298	05	VALUE	'VREWRITE			, bic	X(33).			
2299	05	VALUE	' RF				X(33).			
2300	05	VALUE	'RH				X(33).			
2301			' RIGHT				X(33).			
2302			' RIGHT-JUSTIFY				X(33).	UNIMPLEMENTED		
2303			'VROLLBACK				X(33).			
2304			' ROUNDED				X(33).			
2305			, ROUNDING				X(33).	UNIMPLEMENTED		
2306		VALUE					X(33).			
2307			' SAME				X(33).			
2308			'KSCREEN				X(33).			
2309			' SCROLL				X(33).			
2310		VALUE					X(33).			
2311			'VSEARCH				X(33).	INTMDI EMENTED		
2312			' SECONDS 'FSECONDS-FROM-		TT TTMP		X(33). X(33).	UNIMPLEMENTED		
			'FSECONDS-PAST-				X(33).			
2314			'KSECTION	HIDNIG.	пі		X(33).			
2316			, SECURE				X(33).			
2317			, SECURITY				X(33).	OBSOLETE		
2318			, SEGMENT				X(33).	OBSOLETE		
2319			, SEGMENT-LIMIT				X(33).	ODDODDID		
2320			, SELECT				X(33).			
2321		VALUE					X(33).	UNIMPLEMENTED		
2322		VALUE					X(33).	OBSOLETE		
2323			, SENTENCE				X(33).			
2324			, SEPARATE				X(33).			
2325			, SEQUENCE				X(33).			
2326			' SEQUENTIAL				X(33).			
2327		VALUE				, bic	X(33).			
2328	05	VALUE	' SHARING			, bic	X(33).			
2329	GC1213 05	VALUE	'FSIGN			, bic	X(33).			
2330	05	VALUE	' SIGNED			, bic	X(33).			

Chapter GCic

ACS Cobol Xref v2.02	2.04 Dictionary File for GC	IC (LISTING) 06/03/2022	23:09:11:02 Page 69
	05 VALUE 'SIGNED-INT	, bic X(33).	
	05 VALUE ' SIGNED-LONG	' PIC X(33).	
	05 VALUE 'SIGNED-SHORT	' PIC X(33).	
2334 GC1213 (05 VALUE 'FSIN	' PIC X(33).	
2335	05 VALUE 'SIZE	' PIC X(33).	
2336	05 VALUE 'VSORT	' PIC X(33).	
2337	05 VALUE 'FSIN 05 VALUE ' SIZE 05 VALUE ' VSORT 05 VALUE ' SORT-MERGE	' PIC X(33).	
2338	US VALUE /ISURI-REIUKN	' PIC X(33).	
	05 VALUE ' SOURCE	, bic X(33).	
	05 VALUE ' SOURCE-COMPUTER 05 VALUE ' SOURCES	'PIC X(33). 'PIC X(33).	UNIMPLEMENTED
	05 VALUE ' SDURCES	PIC X(33).	ONIMPLEMENTED
		, bic x(33).	UNIMPLEMENTED
2344 (05 VALUE ' SPACE-FILL 05 VALUE ' SPACES	, bic x(33).	ONIFIE EEFENIED
	05 VALUE ' SPECIAL-NAMES	, bic x(33).	
2346 GC1213 (05 VALUE 'FSQRT	, bic x(33).	
		, bic X(33).	
2348	05 VALUE 'STANDARD 05 VALUE 'STANDARD-1	' PIC X(33).	
2349	05 VALUE 'STANDARD-2	, bic X(33).	
2350	05 VALUE ' STANDARD-BINARY	, bic X(33).	UNIMPLEMENTED
2351 GC1213 (UP AVILLE AFGLANIAVDIA-GUNDVDF.	1 016 1631	UNIMPLEMENTED
2352	05 VALUE 'STANDARD-DECIMAL	, bic x(33).	UNIMPLEMENTED
2353 GC1213 (05 VALUE 'FSTANDARD-DEVIATION	, bic X(33).	
2354	05 VALUE 'VSTART	' PIC X(33).	
2355	O5 VALUE ' STATEMENT	' PIC X(33).	UNIMPLEMENTED
2356	05 VALUE 'STATIC	' PIC X(33).	
	05 VALUE ' STATUS	' PIC X(33).	
	05 VALUE 'STDCALL	' PIC X(33).	
	05 VALUE 'MSTDERR	' PIC X(33).	
	05 VALUE 'MSTDIN	, bic X(33).	
	OS VALUE 'MSTDOUT	, PIC X(33).	
	05 VALUE ' STEP 05 VALUE 'VSTOP	'PIC X(33). 'PIC X(33).	
	05 VALUE 'FSTORED-CHAR-LENGTH		
	05 VALUE 'YSTRING	, bic x(33).	
		, bic x(33).	UNIMPLEMENTED
2367	O5 VALUE ' SUB-QUEUE-1	, bic x(33)	OBSOLETE
2368	05 VALUE ' SUB-QUEUE-2	' PIC X(33).	OBSOLETE
2369	05 VALUE ' SUB-QUEUE-3	' PIC X(33).	OBSOLETE
2370 GC1213 (05 VALUE ' SUB-QUEUE-2 05 VALUE ' SUB-QUEUE-3 05 VALUE 'FSUBSTITUTE	' PIC X(33).	
2371 GC1213 (05 VALUE 'FSUBSTITUTE-CASE	' PIC X(33).	
2372	05 VALUE 'VSUBTRACT	, bic X(33).	
2373 GC1213 (05 VALUE 'FSUM	' PIC X(33).	
2374	05 VALUE ' SUPER	' PIC X(33).	UNIMPLEMENTED
	05 VALUE 'VSUPPRESS	' PIC X(33).	
	05 VALUE 'MSWO	' PIC X(33).	
	05 VALUE 'MSW1	' PIC X(33).	
	05 VALUE 'MSW10	' PIC X(33).	
	05 VALUE 'MSW11	' PIC X(33).	
	05 VALUE 'MSW12	' PIC X(33). ' PIC X(33).	
	05 VALUE 'MSW13	, bic x(33).	
	05 VALUE 'MSW14 05 VALUE 'MSW15	, bic x(33).	
	05 VALUE 'MSW2	, bic x(33).	
2001		110 A(00).	

ACS Cob	ol Xref v2.02.04	Dictionary File for G	CIC (LISTING)	06/03/2022	23:09:11:02	Page	70
2385	05 VALU	E 'MSW3	, bic	X(33).			
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2387		E 'MSW5		X(33).			
2388		E 'MSW6		X(33).			
2389	05 VALU	E 'MSW7	, bic	X(33).			
2390	05 VALU	E 'MSW8		X(33).			
2391	05 VALU	E 'MSW9	, bic	X(33).			
2392	05 VALU	E 'MSWITCH-O	, bic	X(33).			
2393	05 VALU	E 'MSWITCH-1	, bic	X(33).			
2394	05 VALU	E 'MSWITCH-10	, bic	X(33).			
2395	05 VALU	E 'MSWITCH-11	, bic	X(33).			
2396	05 VALU	E 'MSWITCH-12		X(33).			
2397	05 VALU	E 'MSWITCH-13		X(33).			
2398		E 'MSWITCH-14		X(33).			
2399		E 'MSWITCH-15		X(33).			
2400		E 'MSWITCH-2		X(33).			
2401		E 'MSWITCH-3		X(33).			
2402		E 'MSWITCH-4		X(33).			
2403		E 'MSWITCH-5		X(33).			
2404		E 'MSWITCH-6		X(33).			
2405		E 'MSWITCH-7		X(33).			
2406		E 'MSWITCH-8 E 'MSWITCH-9		X(33).			
2407 2408				X(33).	HINTMDI EMENTED		
2408		E ' SYMBOLIC		X(33). X(33).	UNIMPLEMENTED		
2409		E , SANC		X(33).			
2410		E ' SYNCHRONISED		X(33).			
2411	OS VALO	E ' SYNCHRONIZED		X(33).			
2413		E 'MSYSERR		X(33).			
2414		E 'MSYSIN		X(33).			
2415		E 'MSYSIPT		X(33).			
2416		E 'MSYSLIST		X(33).			
2417		E 'MSYSLST		X(33).			
2418	05 VALU	E 'MSYSOUT	, bic	X(33).			
2419	05 VALU	E ' SYSTEM-DEFAULT	, bic	X(33).			
2420	05 VALU	E ' TABLE	, bic	X(33).	UNIMPLEMENTED		
2421	05 VALU	E 'KTALLYING	, bic	X(33).			
2422	GC1213 05 VALU	E 'FTAN	, bic	X(33).			
2423	05 VALU	E ' TAPE	, bic	X(33).			
2424		E ' TERMINAL		X(33).	OBSOLETE		
2425		E 'VTERMINATE		X(33).			
2426		E ' TEST		X(33).			
		E 'FTEST-DATE-YYYYMMDD		X(33).			
2428		E 'FTEST-DAY-YYYYDDD		X(33).			
2429		E 'FTEST-FORMATTED-DATETIME		X(33).	UNIMPLEMENTED		
2430		E 'FTEST-NUMVAL		X(33).			
2431		E 'FTEST-NUMVAL-C		X(33).			
2432 2433		E 'FTEST-NUMVAL-F		X(33).	חספחו בידיבי		
2433		E ' TEXT E ' THAN		X(33). X(33).	OBSOLETE		
2434		E'THEN		X(33).			
2436		E 'THROUGH		X(33).			
2430		E 'THRU		X(33).			
2438		E 'TIME		X(33).			
2400	OO VALO		110	(00).			

Chapter GCic

ACS Cob	ol Xref v2	.02.04	Dictionary	File for	r GCIC	(LISTING)	06/03/2022	23:09:11:03	Page	71
2439	GC0711	05 VALUE	' TIME-OUT			, bic	X(33).			
2440	GC0711		' TIMEOUT			, bic	X(33).			
2441		05 VALUE				, bic	X(33).			
2442		05 VALUE				, bic	X(33).			
2443		05 VALUE	' TOP				X(33).			
2444		05 VALUE	' TOWARD-GREATER	3.		, bic	X(33).			
2445		05 VALUE	' TOWARD-LESSER			, bic	X(33).			
2446		O5 VALUE	' TRATITING			, bic	X(33).			
2447		05 VALUE	' TRAILING-SIGN			, bic	X(33).	UNIMPLEMENTED		
2448			'VTRANSFORM			, bic	X(33).			
2449	GC1213	O5 VALUE	'FTRIM				X(33).			
2450		O5 VALUE				, bic	X(33).			
2451			' TRUNCATION			, bic	X(33).			
2452		05 VALUE					X(33).			
2453			' TYPEDEF				X(33).	UNIMPLEMENTED		
2454		05 VALUE					X(33).	UNIMPLEMENTED		
2455		05 VALUE	' UNDERLINE				X(33).			
2456		05 VALUE					X(33).			
2457			' UNIVERSAL				X(33).	UNIMPLEMENTED		
2458		05 VALUE	'VUNLOCK			, PIC	X(33).			
2459		05 VALUE	' UNSIGNED ' UNSIGNED-INT ' UNSIGNED-LONG			, PIC	X(33).			
2460		05 VALUE	, UNSIGNED-INT			, PIC	X(33).			
2461		05 VALUE	, UNSIGNED-LUNG			, bic				
2462			' UNSIGNED-SHORT	L			X(33).			
2463			'VUNSTRING				X(33).			
2464		05 VALUE					X(33).			
2465 2466		05 VALUE 05 VALUE					X(33). X(33).			
2466		05 VALUE					X(33).			
2468		05 VALUE					X(33).			
	GC1213	O5 VALUE	'FUPPER-CASE				X(33).			
2470	401210	05 VALUE					X(33).			
2471		05 VALUE					X(33).			
	GC0711	05 VALUE					X(33).			
2473			' USER-DEFAULT				X(33).			
2474		05 VALUE					X(33).			
2475		05 VALUE	, UTF-16				X(33).	UNIMPLEMENTED		
2476		OF WALLE) IITE_0			, bic	X(33).	UNIMPLEMENTED		
2477		05 VALUE	, VAL-STATUS			, bic	X(33).	UNIMPLEMENTED		
2478		05 VALUE	, NALID			, bic	X(33).	UNIMPLEMENTED		
2479		O5 VALUE	' VALIDATE			, bic	X(33).	UNIMPLEMENTED		
2480		05 VALUE	' VALIDATE-STATU	JS			X(33).	UNIMPLEMENTED		
2481	GC0712	O5 VALUE				, bic	X(33).			
2482		05 VALUE	, VALUES				X(33).			
2483	GC1213	05 VALUE	'FVARIANCE				X(33).			
2484		05 VALUE	'KVARYING				X(33).			
2485			' VDISABLE				X(33).	UNIMPLEMENTED		
2486		05 VALUE					X(33).			
2487	aa.a.a	05 VALUE					X(33).			
2488	GC1213		'FWHEN-COMPILED				X(33).			
2489		05 VALUE					X(33).			
2490		05 VALUE		70			X(33).			
2491			'KWORKING-STORAG	áĽ.			X(33).			
2492		05 VALUE	NMKTIF			, PIC	X(33).			

ACS Cob	ol Xref	v2.0	02.04 Dictionar	y File for	GCIC	(LISTING)	06/03/2022	23:09:11:03	Page
2493	GC1213		O5 VALUE 'FYEAR-TO-YYYY			, PIC	X(33).		
2494	401210		O5 VALUE , YYYYDDD				X(33).		
2495			O5 VALUE , YYYYMMDD				X(33).		
2496			O5 VALUE ' ZERO				X(33).		
2497			O5 VALUE 'ZERO-FILL				X(33).	UNIMPLEMENTED	
2498			O5 VALUE 'ZEROES				X(33).		
2499			O5 VALUE 'ZEROS				X(33).		
2500		01	WS-Reserved-Word-Table-	TXT REDEFIN	NES W				
	GC1113		05 WS-Reserved-Word-TXT			754 TIMES			
2502						ASCENDING I	KEY		
2503						WS-RW-	Word-TXT		
2504						INDEXED WS-	-RW-IDX.		
2505			10 WS-RW-Type-CD			PIC X(1).			
2506			10 WS-RW-Word-TXT			PIC X(32).			
2507									
2508		01	WS-Runtime-Switches.						
2509	GC0710		05 WS-RS-Duplicate-CHR			PIC X(1).			
2510			05 WS-RS-In-Which-Pgm-C			PIC X(1).			
2511			88 WS-RS-In-Main-Mod			VALUE 'M'.			
2512			88 WS-RS-In-Copybook			VALUE 'C'.			
2513			05 WS-RS-Last-Token-End			PIC X(1).			
2514			05 WS-RS-Processing-PIC			PIC X(1).			
2515	000740		05 WS-RS-Token-Ended-Se			PIC X(1).			
	GC0710		05 WS-RS-Verb-Has-Been-	Found-CHR		PIC X(1).			
2517		0.1	UG G 1 G+ TVT			DTG V(4E)			
2518 2519		01	WS-Saved-Section-TXT			PIC X(15).			
	CC1012	Λ1	UC-Cro-Daghag-TYT						
2520 2521		O1	WS-Src-Dashes-TXT. 05 VALUE '====='			PIC X(7).			
2522	GC0712		O5 VALUE ALL '='			PIC X(128)			
2523	000112		OC VALUE ALL			110 K(120)	•		
2524		01	WS-Src-Detail-Line-TXT.						
2525		-	05 WS-SDL-Line-NUM			PIC ZZZZZ9	_		
2526			05 FILLER			PIC X(1).			
2527			05 WS-SDL-Statement-TXT	•		PIC X(256)			
2528									
2529	GC1213	01	WS-Src-Hold-TXT			PIC X(256)			
2530									
2531		01	WS-Src-Line-NUM			PIC 9(6).			
2532									
2533	GC1213	01	WS-Src-Lines-NUM			USAGE BINAI	RY-LONG.		
2534									
2535		01	WS-Src-SUB			USAGE BINAI	RY-LONG.		
2536									
2537		01	WS-Tally-QTY			USAGE BINAI	RY-LUNG.		
2538		0.1	LIG TO THE STATE OF THE STATE O			DTG V(40)			
2539 2540		01	WS-Temp-10-Chars-TXT			PIC X(10).			
2540 2541		01	WS-Temp-32-Chars-1-TXT			PIC X(32).			
2541		ΟI	MP 16mb 25 CHare-1-1VI			1 10 A(32).			
2543	GC0711	01	WS-Temp-32-Chars-2-TXT			PIC X(32).			
2544	300111	01	Tomp OZ OHOLD Z INI			0 . 1 (02) .			
2545	GC0711	01	WS-Temp-32-Chars-3-TXT			PIC X(32).			
2546			•						

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ACS Cobol Xref v2.02.04
                               Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:03
                                                                                             Page
                                                                                                    73
 2547 GC0712 01 WS-Temp-65-Chars-TXT
                                                       PIC X(65).
 2548
 2549
              01 WS-Temp-256-Chars-TXT
                                                       PIC X(256).
 2550
                                                       PIC 9(8).
 2551
              01 WS-Today-DT
 2552
              01 WS-Token-Curr-TXT
                                                       PIC X(32).
 2553
 2554
              01 WS-Token-Curr-Uc-TXT
                                                       PIC X(32).
 2555
 2556
 2557
              01 WS-Token-Prev-TXT
                                                       PIC X(32).
 2558
 2559
              01 WS-Token-Search-TXT
                                                       PIC X(32).
 2560
 2561
              01 WS-Token-Type-CD
                                                       PIC X(1).
 2562 GC0712
                 88 WS-TT-Token-Is-Argtype-BOOL
                                                       VALUE 'A'.
                 88 WS-TT-Token-Is-EOF-BOOL
 2563
                                                       VALUE HIGH-VALUES.
 2564 GC1213 88 WS-TT-Token-Is-Function-BOOL
                                                      VALUE 'F'.
                88 WS-TT-Token-Is-Identifier-BOOL
                                                      VALUE 'I'.
 2565
 2566 GC0712 88 WS-TT-Token-Is-Keyword-BOOL
2567 88 WS-TT-Token-Is-Lit-Alpha-BOOL
                                                       VALUE 'K', 'V', 'A'.
                                                       VALUE 'L'.
                88 WS-TT-Token-Is-Lit-Number-B00L
 2568
                                                       VALUE 'N'.
 2569
                  88 WS-TT-Token-Is-Verb-BOOL
                                                       VALUE 'V'.
 2570 GC1213
                  88 WS-TT-Token-Is-Reserved-Wd-BOOL
                                                       VALUE ' ', 'F'.
 2571
 2572
             01 WS-Usernames-QTY
                                                       USAGE BINARY-LONG.
 2573
 2574
             01 WS-Version-TXT
                                                       PIC X(23).
 2575
            01 WS-Xref-Detail-Line-TXT.
 2576
                05 WS-XDL-Prog-ID-TXT
                                                       PIC X(15).
 2577
 2578
                 05 FILLER
                                                       PIC X(1).
                                                      PIC X(32).
                 05 WS-XDL-Token-TXT
 2579
                 05 FILLER
 2580
                                                      PIC X(1).
                 05 WS-XDL-Def-Line-NUM
 2581
                                                      PIC ZZZZZ9.
 2582
                 05 FILLER
                                                      PIC X(1).
                 05 WS-XDL-Section-TXT
                                                      PIC X(15).
 2583
                 05 FILLER
 2584
                                                      PIC X(1).
 2585
                 05 WS-XDL-Reference-TXT
                                                      OCCURS 8 TIMES.
 2586
                    10 WS-XDL-Ref-Line-NUM
                                                      PIC ZZZZZ9.
 2587
                     10 WS-XDL-Ref-Flag-CHR
                                                       PIC X(1).
 2588
                     10 FILLER
                                                       PIC X(1).
 2589
 2590 GC1213 01 WS-Xref-Lines-Per-Rec-NUM
                                                       PIC 9(1).
 2591
              LINKAGE SECTION.
 2592
 2593 GC0712 01 L-Listing-Fn-TXT
                                                       PIC X(256).
 2594
              01 L-Src-Fn-TXT
 2595
                                                       PIC X(256).
 2596
 2597 GC0712 01 L-OS-Type-CD
                                                       PIC 9(1).
 2598
 2599 GC1213 01 L-LPP-NUM
                                                       USAGE BINARY-LONG.
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ACS Cobol Xref v2.02.04
                              Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:03
                                                                                          Page
 2601 GC1213 01 L-LPP-Port-NUM
                                                     USAGE BINARY-LONG.
 2602
 2603
       GC1213 01 L-Listing-CD
                                                     PIC 9(1).
 2604
       GC0712 PROCEDURE DIVISION USING L-Listing-Fn-TXT
 2605
 2606 GC0712
                                     L-Src-Fn-TXT
 2607 GC0712
                                     L-OS-Type-CD
 2608 GC1213
                                     L-LPP-NUM
 2609 GC1213
                                     L-LPP-Port-NUM
 2610 GC1213
                                     L-Listing-CD.
 2611
             000-Main SECTION.
                PERFORM 100-Initialization
 2612
 2613 GC0712
                OPEN OUTPUT F-Listing-FILE
 2614 GC0712 PERFORM 500-Produce-Source-Listing
 2615 GC0712 SORT F-Sort-Work-FILE
 2616 GC0712
                  ASCENDING KEY
                                     F-SW-Prog-ID-TXT
 2617 GC0712
                                     F-SW-Token-Uc-TXT
 2618 GC0712
                                     F-SW-Ref-Line-NUM
 2619 GC0712
                     INPUT PROCEDURE 300-Tokenize-Source
 2620 GC0712
                     OUTPUT PROCEDURE 400-Produce-Xref-Listing
 2621 GC0712
                 CLOSE F-Listing-FILE
 2622
                 GOBACK
 2623
 2624
 2625
             *>***********************
 2626
             *> Perform all program-wide initialization operations
 2627
             *>*********************
 2628
             100-Initialization SECTION.
 2629 GC1213 MOVE 0 TO WS-Page-NUM
                MOVE 'N' TO WS-Suppress-FF-CHR
 2630 GC1213
 2631 GC1213
               MOVE SPACES TO WS-Copyright-TXT
 2632 GC1213 STRING 'GCic for '
                                                   DELIMITED SIZE
                       WS-OS-Type-TXT(L-OS-Type-CD) DELIMITED SPACE
 2633 GC1213
                        ' Copyright (C) 2009-'
 2634 VC0820
                                                   DELIMITED SIZE
 2635 VC0322
                        COMP-YEAR
                                                   DELIMITED SIZE
 2636 VC0322
                        ', Gary L. Cutler, GPL'
                                                   DELIMITED SIZE
                        INTO WS-Copyright-TXT
 2637 GC1213
 2638 VC0811*> See const-set-1.cpy for constants used
 2639 VC0811*>
                  MOVE 'GNUCOBOL 3.1.2 O6MAR2022' TO WS-Version-TXT
 2640
 2641 VC0811
                          Comp-Vers to
                                        WS-Version-TXT.
                 move
 2642
                 MOVE TRIM(L-Src-Fn-TXT, Leading) TO L-Src-Fn-TXT
 2643 GC1010
                 PERFORM VARYING WS-I-SUB FROM LENGTH(L-Src-Fn-TXT) BY -1
 2644
            *> Locate last directory delimiter character so that the filename can be extracted
                           UNTIL L-Src-Fn-TXT(WS-I-SUB:1) = '/' OR '\'
 2645 GC1010
 2646 GC1010
                                OR WS-I-SUB = 0
 2647
       VC0322
                           continue
 2648 GC1010
                 END-PERFORM
 2649 GC1010
                 IF WS-I-SUB = 0
 2650 GC1010
                     MOVE UPPER-CASE(L-Src-Fn-TXT) TO WS-Main-Module-Name-TXT
 2651
           *> No directory delimiter, whole thing is filename
 2652 GC1010
                FLSE.
 2653 GC1010
                    ADD 1 TO WS-I-SUB
 2654 GC1010
                    MOVE UPPER-CASE(L-Src-Fn-TXT(WS-I-SUB:))
```

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ACS Cobol Xref v2.02.04
                                Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:03
                                                                                              Page
                                                                                                     75
 2655 GC1010
                        TO WS-Main-Module-Name-TXT *> Extract filename
 2656 GC1010
                  END-IF
                  IF L-Listing-CD = 1 *> LANDSCAPE
 2657 GC1213
 2658 GC1213
                      MOVE 8 TO WS-Xref-Lines-Per-Rec-NUM
 2659 GC1213
                      ACCEPT WS-Lines-Per-Page-Env-TXT
                          FROM ENVIRONMENT 'GCXREF_LINES'
 2660 GC1213
 2661 GC1213
                  ELSE *> PORTRAIT
 2662 GC1213
                  MOVE 3 TO WS-Xref-Lines-Per-Rec-NUM
 2663 GC1213
                      ACCEPT WS-Lines-Per-Page-Env-TXT
 2664 GC1213
                          FROM ENVIRONMENT 'GCXREF_LINES_PORT'
 2665 GC1213
                  END-IF
 2666
                  INSPECT L-Src-Fn-TXT REPLACING ALL '\' BY '/'
 2667
                  MOVE L-Src-Fn-TXT TO WS-Program-Path-TXT
                  CALL 'C$JUSTIFY' USING WS-Program-Path-TXT, 'Right'
 2668
 2669
                  MOVE LENGTH(TRIM(L-Src-Fn-TXT, Trailing)) TO WS-I-SUB
 2670
                  MOVE O TO WS-J-SUB
                  PERFORM UNTIL L-Src-Fn-TXT(WS-I-SUB:1) = '/'
 2671
 2672
                             OR WS-I-SUB = 0
                      SUBTRACT 1 FROM WS-I-SUB
 2673
                               1 TO WS-J-SUB
 2674
                  END-PERFORM
 2675
 2676
                  UNSTRING L-Src-Fn-TXT((WS-I-SUB + 1):WS-J-SUB)
 2677
                      DELIMITED BY '.'
 2678
                      INTO WS-Filename-TXT
 2679
                           WS-Dummy-TXT
 2680 GC1010
                  STRING
 2681 GC1010
                         TRIM(WS-Filename-TXT, Trailing)
 2682 GC1010
                         '.i'
                         DELIMITED SIZE
 2683 GC1010
 2684 GC1010
                         INTO WS-Expanded-Src-Fn-TXT
 2685 GC1010
                 CALL 'CBL_CHECK_FILE_EXIST' USING WS-Expanded-Src-Fn-TXT
 2686 GC1010
                                                    WS-Temp-256-Chars-TXT
                  IF RETURN-CODE NOT = 0
 2687 GC1010
 2688 GC1010
                      GOBACK
                  END-IF
 2689 GC1010
                  IF WS-Lines-Per-Page-Env-TXT NOT = SPACES
 2690
 2691
                      MOVE NUMVAL(WS-Lines-Per-Page-Env-TXT)
 2692
                        TO WS-Lines-Per-Page-NUM
 2693
                  ELSE
                      IF L-LISTING-CD = 1 *> LANDSCAPE
 2694 GC1213
 2695 GC1213
                         MOVE L-LPP-NUM TO WS-Lines-Per-Page-NUM
 2696 GC1213
                                          *> PORTRAIT
 2697 GC1213
                          MOVE L-LPP-Port-NUM TO WS-Lines-Per-Page-NUM
 2698 GC1213
                      END-IF
 2699
                  END-IF
 2700 GC1213
                  SUBTRACT 3 FROM WS-Lines-Per-Page-NUM *> FOR PAGE FOOTER
 2701
                  ACCEPT WS-Today-DT FROM DATE YYYYMMDD
 2702 GC1213
                  MOVE WS-Today-DT TO WS-Formatted-DT
 2703
                  MOVE '??????????...' TO WS-Curr-Prog-ID-TXT
 2704
                  MOVE SPACES
                                         TO WS-Curr-Verb-TXT
 2705
                                            WS-Held-Reference-TXT
 2706
 2707
 2708
              300-Tokenize-Source SECTION.
```

28 September 2024 Chapter GCic

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ACS Cobol Xref v2.02.04
                                 Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:03
                                                                                                Page
                                                                                                       76
 2709
                  OPEN INPUT F-Expanded-Src-FILE
                  MOVE SPACES TO F-Expanded-Src-REC
 2710
 2711
                  MOVE 256 TO WS-Src-SUB
                  MOVE 0 TO WS-Usernames-QTY
 2712
 2713
                            WS-Curr-Line-NUM
                  MOVE '?' TO WS-Curr-Division-TXT
 2714
                  MOVE 'N' TO WS-RS-Verb-Has-Been-Found-CHR
 2715 GC0710
                  PERFORM FOREVER
 2716
                      PERFORM 310-Get-Token
 2717
 2718
                      IF WS-TT-Token-Is-EOF-BOOL
 2719
                          EXIT PERFORM
 2720
                      END-IF
 2721
                      MOVE UPPER-CASE(WS-Token-Curr-TXT)
 2722
                        TO WS-Token-Curr-Uc-TXT
 2723 GC1010
                      IF WS-TT-Token-Is-Keyword-BOOL
 2724 GC1010
                      OR WS-TT-Token-Is-Reserved-Wd-BOOL
                          MOVE WS-Token-Curr-Uc-TXT TO WS-Token-Curr-TXT
 2725 GC1010
 2726 GC1010
                      END-IF
 2727
                      IF WS-TT-Token-Is-Verb-BOOL
 2728
                          MOVE WS-Token-Curr-Uc-TXT TO WS-Curr-Verb-TXT
 2729
                                                        WS-Token-Prev-TXT
 2730
                           IF WS-Held-Reference-TXT NOT = SPACES
 2731
                               MOVE WS-Held-Reference-TXT TO F-Sort-Work-REC
 2732
                               MOVE SPACES
                                                  TO WS-Held-Reference-TXT
 2733
                               RELEASE F-Sort-Work-REC
 2734
                          END-IF
 2735
                      END-IF
 2736
                      EVALUATE TRUE
                      WHEN WS-CD-In-IDENT-DIV-BOOL
 2737
                          PERFORM 320-IDENTIFICATION-DIVISION
 2738
 2739
                      WHEN WS-CD-In-ENV-DIV-BOOL
 2740
                          PERFORM 330-ENVIRONMENT-DIVISION
 2741
                      WHEN WS-CD-In-DATA-DIV-BOOL
 2742
                          PERFORM 340-DATA-DIVISION
 2743
                      WHEN WS-CD-In-PROC-DIV-BOOL
 2744
                          PERFORM 350-PROCEDURE-DIVISION
 2745
                      END-EVALUATE
 2746
                      IF WS-TT-Token-Is-Keyword-BOOL
 2747
                          MOVE WS-Token-Curr-Uc-TXT TO WS-Token-Prev-TXT
 2748
                      END-IF
 2749
                      IF WS-RS-Token-Ended-Sentence-CHR = 'Y'
 2750
                       AND WS-Curr-Division-TXT NOT = 'I'
 2751
                          MOVE SPACES TO WS-Token-Prev-TXT
 2752
                                          WS-Curr-Verb-TXT
                      END-IF
 2753
 2754
 2755
                  END-PERFORM
 2756
                  CLOSE F-Expanded-Src-FILE
 2757
 2758
 2759
              310-Get-Token SECTION.
 2760
             *>-- Position to 1st non-blank character
 2761
                  MOVE WS-RS-Token-Ended-Sentence-CHR
 2762
                    TO WS-RS-Last-Token-Ended-Sent-CHR
```

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ACS Cobol Xref v2.02.04
                                Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:03
                                                                                               Page
                                                                                                      77
 2763
                  MOVE 'N' TO WS-RS-Token-Ended-Sentence-CHR
 2764
                  PERFORM UNTIL F-Expanded-Src-REC(WS-Src-SUB : 1) NOT = SPACE
 2765
                      IF WS-Src-SUB > 255
 2766
                          READ F-Expanded-Src-FILE AT END
 2767
                              IF WS-Held-Reference-TXT NOT = SPACES
                                  MOVE WS-Held-Reference-TXT TO F-Sort-Work-REC
 2768
                                  MOVE SPACES TO WS-Held-Reference-TXT
 2769
 2770
                                  RELEASE F-Sort-Work-REC
 2771
                              END-IF
 2772
                              SET WS-TT-Token-Is-EOF-BOOL TO TRUE
 2773
                              MOVE O TO WS-Curr-Line-NUM
 2774
                              EXIT SECTION
 2775
                          END-READ
                          IF F-ES-1-7-TXT NOT = '#DEFLIT'
 2776 GC0712
 2777 GC0712
                             IF F-ES-1-CHR = '#'
 2778 GC0712
                                  PERFORM 311-Control-Record
 2779 GC0712
 2780 GC0712
                                  PERFORM 312-Expanded-Src-Record
 2781 GC0712
                              END-IF
 2782 GC0712
                          END-IF
 2783
                      ELSE
 2784
                          ADD 1 TO WS-Src-SUB
 2785
                      END-IF
 2786
                  END-PERFORM
 2787
            *>-- Extract token string
 2788
                  MOVE F-Expanded-Src-REC(WS-Src-SUB : 1)
 2789
                    TO WS-Curr-CHR
 2790
                  MOVE F-Expanded-Src-REC(WS-Src-SUB + 1: 1)
                    TO WS-Next-CHR
 2791
                  IF WS-Curr-CHR = '.'
 2792
 2793
                      ADD 1 TO WS-Src-SUB
 2794
                      MOVE WS-Curr-CHR TO WS-Token-Curr-TXT
 2795
                      MOVE SPACE TO WS-Token-Type-CD
                      MOVE 'Y' TO WS-RS-Token-Ended-Sentence-CHR
 2796
 2797
                      EXIT SECTION
 2798
                  END-IF
 2799
                  IF WS-Curr-Char-Is-Punct-BOOL
 2800
                  AND WS-Curr-CHR = '='
 2801
                  AND WS-Curr-Division-TXT = 'P'
 2802
                      ADD 1 TO WS-Src-SUB
 2803
                      MOVE 'EQUALS' TO WS-Token-Curr-TXT
 2804
                      MOVE 'K'
                                    TO WS-Token-Type-CD
 2805
                      EXIT SECTION
 2806
                  IF WS-Curr-Char-Is-Punct-BOOL *> So subscripts don't get flagged w/ '*'
 2807
 2808
                  AND WS-Curr-CHR = '('
 2809
                  AND WS-Curr-Division-TXT = 'P'
 2810
                      MOVE SPACES TO WS-Token-Prev-TXT
 2811
                  END-IF
 2812
                  IF WS-Curr-Char-Is-Punct-BOOL
 2813
                      ADD 1 TO WS-Src-SUB
 2814
                      MOVE WS-Curr-CHR TO WS-Token-Curr-TXT
 2815
                      MOVE SPACE TO WS-Token-Type-CD
 2816
                      EXIT SECTION
```

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ACS Cobol Xref v2.02.04
                                 Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:03
                                                                                                  Page
                                                                                                         78
  2817
                   END-IF
                   IF WS-Curr-Char-Is-Quote-BOOL
  2818
  2819
                       ADD 1 TO WS-Src-SUB
                       UNSTRING F-Expanded-Src-REC
  2820
                           DELIMITED BY WS-Curr-CHR
  2821
                           INTO WS-Token-Curr-TXT
  2822
  2823
                           WITH POINTER WS-Src-SUB
                       IF F-Expanded-Src-REC(WS-Src-SUB : 1) = '.'
  2824
                           MOVE 'Y' TO WS-RS-Token-Ended-Sentence-CHR
  2825
  2826
                           ADD 1 TO WS-Src-SUB
  2827
                       END-IF
                       SET WS-TT-Token-Is-Lit-Alpha-BOOL TO TRUE
  2828
  2829
                       EXIT SECTION
  2830
                   END-IF
  2831
                   IF WS-Curr-Char-Is-X-BOOL AND WS-Next-Char-Is-Quote-BOOL
  2832
                       ADD 2 TO WS-Src-SUB
  2833
                       UNSTRING F-Expanded-Src-REC
  2834
                           DELIMITED BY WS-Next-CHR
  2835
                           INTO WS-Token-Curr-TXT
  2836
                           WITH POINTER WS-Src-SUB
  2837
                       IF F-Expanded-Src-REC(WS-Src-SUB : 1) = '.'
  2838
                           MOVE 'Y' TO WS-RS-Token-Ended-Sentence-CHR
  2839
                           ADD 1 TO WS-Src-SUB
  2840
                       END-IF
  2841
                       SET WS-TT-Token-Is-Lit-Number-BOOL TO TRUE
  2842
                       EXIT SECTION
  2843
                   END-IF
  2844
                   IF WS-Curr-Char-Is-Z-BOOL AND WS-Next-Char-Is-Quote-BOOL
                       ADD 2 TO WS-Src-SUB
  2845
  2846
                       UNSTRING F-Expanded-Src-REC
  2847
                           DELIMITED BY WS-Next-CHR
  2848
                           INTO WS-Token-Curr-TXT
  2849
                           WITH POINTER WS-Src-SUB
  2850
                       IF F-Expanded-Src-REC(WS-Src-SUB : 1) = '.'
                           MOVE 'Y' TO WS-RS-Token-Ended-Sentence-CHR
  2851
  2852
                           ADD 1 TO WS-Src-SUB
  2853
                       END-TF
  2854
                       SET WS-TT-Token-Is-Lit-Alpha-BOOL TO TRUE
  2855
                       EXIT SECTION
  2856
                   END-IF
  2857
                   IF WS-RS-Processing-PICTURE-CHR = 'Y'
  2858
                       UNSTRING F-Expanded-Src-REC
  2859
                           DELIMITED BY '. ' OR ' '
  2860
                           INTO WS-Token-Curr-TXT
  2861
                           DELIMITER IN WS-Delim-TXT
  2862
                           WITH POINTER WS-Src-SUB
  2863
                       IF WS-Delim-TXT = '. '
  2864
                           MOVE 'Y' TO WS-RS-Token-Ended-Sentence-CHR
  2865
                           ADD 1 TO WS-Src-SUB
  2866
  2867
                       IF UPPER-CASE(WS-Token-Curr-TXT) = 'IS'
  2868
                           MOVE SPACE TO WS-Token-Type-CD
  2869
                           EXIT SECTION
  2870
                       ELSE
```

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ACS Cobol Xref v2.02.04
                                 Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:04
                                                                                                  Page
                                                                                                         79
  2871
                           MOVE 'N' TO WS-RS-Processing-PICTURE-CHR
                           MOVE SPACE TO WS-Token-Type-CD
  2872
  2873
                           EXIT SECTION
  2874
                       END-IF
  2875
                   END-IF
                   UNSTRING F-Expanded-Src-REC
  2876
                       DELIMITED BY '. ' OR ' ' OR '=' OR '(' OR ')' OR '*'
  2877
                                         OR '/' OR '&' OR ';' OR ',' OR '<'
  2878
                                         OR '>' OR ':'
 2879
  2880
                       INTO WS-Token-Curr-TXT
  2881
                       DELIMITER IN WS-Delim-TXT
                       WITH POINTER WS-Src-SUB
  2882
  2883
                   IF WS-Delim-TXT = '. '
  2884
                      MOVE 'Y' TO WS-RS-Token-Ended-Sentence-CHR
  2885
                   END-IF
                   IF WS-Delim-TXT NOT = '. ' AND ', '
  2886
                       SUBTRACT 1 FROM WS-Src-SUB
  2887
  2888
                   END-IF
  2889
              *>-- Classify Token
  2890
                   MOVE UPPER-CASE(WS-Token-Curr-TXT) TO WS-Token-Search-TXT
  2891
                   IF WS-Token-Search-TXT = 'EQUAL' OR 'EQUALS'
  2892
                       MOVE 'EQUALS' TO WS-Token-Curr-TXT
  2893
                       MOVE 'K'
                                     TO WS-Token-Type-CD
  2894
                       EXIT SECTION
  2895
                   END-IF
  2896
                   SEARCH ALL WS-Reserved-Word-TXT
  2897
                       WHEN WS-RW-Word-TXT (WS-RW-IDX) = WS-Token-Search-TXT
  2898
                           MOVE WS-RW-Type-CD (WS-RW-IDX) TO WS-Token-Type-CD
 2899 GC0710
                           IF WS-TT-Token-Is-Verb-BOOL
                               MOVE 'Y' TO WS-RS-Verb-Has-Been-Found-CHR
  2900 GC0710
  2901 GC0710
                           END-IF
  2902
                           EXIT SECTION
  2903
                   END-SEARCH
  2904
             *>-- Not a reserved word, must be a user name
  2905
                   SET WS-TT-Token-Is-Identifier-BOOL TO TRUE
  2906
                   PERFORM 313-Check-For-Numeric-Token
  2907
                   IF WS-TT-Token-Is-Lit-Number-BOOL
  2908
                       IF (WS-RS-Last-Token-Ended-Sent-CHR = 'Y')
  2909
                       AND (WS-Curr-Division-TXT = 'D')
  2910
                           MOVE 'LEVEL #' TO WS-Token-Curr-TXT
  2911
                           MOVE 'K'
                                          TO WS-Token-Type-CD
  2912
                           EXIT SECTION
  2913
                       ELSE
  2914
                           EXIT SECTION
  2915
                       END-IF
                   END-IF
  2916
  2917
  2918
  2919
               311-Control-Record SECTION.
  2920
                   UNSTRING F-ES-2-256-TXT-256
  2921
                       DELIMITED BY '"'
  2922
                       INTO WS-Temp-10-Chars-TXT
                            WS-Temp-256-Chars-TXT
  2923
                            WS-Dummy-TXT
  2924
```

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ACS Cobol Xref v2.02.04
                                 Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:04
                                                                                                 Page
                                                                                                        80
 2925
                   INSPECT WS-Temp-10-Chars-TXT REPLACING ALL '"' BY SPACE
                   IF WS-Temp-10-Chars-TXT(1:4) = 'line'
 2926
       GC0712
 2927
       GC0712
                      MOVE SPACES TO WS-Temp-10-Chars-TXT(1:4)
 2928
       GC0712
                   END-IF
 2929
                   COMPUTE WS-I-SUB = NUMVAL(WS-Temp-10-Chars-TXT) - 1
                   IF UPPER-CASE(TRIM(WS-Temp-256-Chars-TXT,Trailing)) =
       GC1010
 2930
                      TRIM(WS-Main-Module-Name-TXT)
 2931 GC1010
                       MOVE WS-I-SUB TO WS-Curr-Line-NUM
 2932
                       SET WS-RS-In-Main-Module-BOOL TO TRUE
 2933
 2934
                       IF WS-Saved-Section-TXT NOT = SPACES
 2935
                           MOVE WS-Saved-Section-TXT TO WS-Curr-Section-TXT
 2936
                       END-IF
 2937
                  ELSE
 2938
                       SET WS-RS-In-Copybook-BOOL TO TRUE
 2939
                       IF WS-Saved-Section-TXT = SPACES
 2940
                           MOVE WS-Curr-Section-TXT TO WS-Saved-Section-TXT
 2941
                       END-IF
 2942
                       MOVE LENGTH(TRIM(WS-Temp-256-Chars-TXT, Trailing))
 2943
                         TO WS-I-SUB
 2944
                       MOVE O TO WS-J-SUB
 2945
                       PERFORM UNTIL WS-Temp-256-Chars-TXT(WS-I-SUB:1) = '/'
 2946
                                  OR WS-I-SUB = 0
 2947
                           SUBTRACT 1 FROM WS-I-SUB
 2948
                           ADD
                                    1 TO
                                          WS-J-SUB
 2949
                       END-PERFORM
 2950
                       UNSTRING WS-Temp-256-Chars-TXT((WS-I-SUB + 1):WS-J-SUB)
 2951
                           DELIMITED BY '.'
 2952
                           INTO WS-Filename-TXT
                                WS-Dummy-TXT
 2953
                       MOVE '['
 2954
                                     TO WS-CS-1-CHR
 2955
                       MOVE WS-Filename-TXT TO WS-CS-2-14-TXT
 2956
                       IF WS-CS-11-14-TXT NOT = SPACES
 2957
                           MOVE '...' TO WS-CS-11-14-TXT
 2958
                       END-IF
                       MOVE '1'
 2959
                                     TO WS-CS-15-CHR
 2960
                   FND-TF
 2961
                  MOVE SPACES TO F-Expanded-Src-REC *> Force another READ
 2962
                   MOVE 256
                             TO WS-Src-SUB
 2963
 2964
 2965
              312-Expanded-Src-Record SECTION.
 2966
       GC0314
                   IF F-Expanded-Src-REC(1:1) = SPACE
 2967
       GC0314
                      MOVE 2 TO WS-Src-SUB
 2968
       GC0314
                  ELSE
 2969
       GC0314
                      MOVE 1 TO WS-Src-SUB
 2970
       GC0314
 2971
                   IF WS-RS-In-Main-Module-BOOL
 2972
                       ADD 1 To WS-Curr-Line-NUM
 2973
                   END-IF
 2974
 2975
 2976
              313-Check-For-Numeric-Token SECTION.
 2977
                   MOVE WS-Token-Curr-TXT TO WS-Temp-32-Chars-1-TXT
 2978
                   INSPECT WS-Temp-32-Chars-1-TXT
```

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ACS Cobol Xref v2.02.04
                               Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:04
                                                                                           Page
                                                                                                 81
                     CONVERTING '0123456789' TO SPACES
 2979 GC0711
                 IF WS-Temp-32-Chars-1-TXT = SPACES
 2980 GC0711
                                                                       *> Simple Unsigned Integer
 2981
                     SET WS-TT-Token-Is-Lit-Number-BOOL TO TRUE
 2982
                     EXIT SECTION
 2983
                 END-IF
 2984 GC0711
                 MOVE SPACES TO WS-Temp-32-Chars-2-TXT
 2985 GC0711
                                WS-Temp-32-Chars-3-TXT
 2986 GC0711
                                WS-Dummy-TXT
 2987 GC0711 UNSTRING WS-Temp-32-Chars-1-TXT
 2988 GC0711
                 DELIMITED BY 'e' OR 'E'
 2989 GC0711
                     INTO WS-Temp-32-Chars-2-TXT
 2990 GC0711
                          {\tt WS-Temp-32-Chars-3-TXT}
 2991 GC0711
                          WS-Dummy-TXT
 2992 GC0711 IF WS-Dummy-TXT NOT = SPACES
                                                               *> More than one 'E' - Not Numeric
                    EXIT SECTION
 2993 GC0711
 2994 GC0711 END-IF
 2995 GC0711 IF WS-Temp-32-Chars-2-TXT(1:1) = '+' OR '-'
 2996 GC0711
                    MOVE SPACE TO WS-Temp-32-Chars-2-TXT(1:1)
 2997 GC0711
 2998 GC0711
                 IF WS-Temp-32-Chars-3-TXT(1:1) = '+' OR '-'
 2999 GC0711
                     MOVE SPACE TO WS-Temp-32-Chars-3-TXT(1:1)
 3000 GC0711
                 END-IF
 3001
                 MOVE O TO WS-Tally-QTY
 3002 GC0711 INSPECT WS-Temp-32-Chars-2-TXT
 3003
                     TALLYING WS-Tally-QTY FOR ALL '.'
                IF WS-Tally-QTY = 1
 3004
 3005 GC0711
                    INSPECT WS-Temp-32-Chars-2-TXT REPLACING ALL '.' BY SPACE
 3006
                END-IF
 3007 GC0711 INSPECT WS-Temp-32-Chars-3-TXT
 3008 GC0711
                 TALLYING WS-Tally-QTY FOR ALL '.'
 3009 GC0711 IF WS-Tally-QTY = 1
 3010 GC0711
                    INSPECT WS-Temp-32-Chars-3-TXT REPLACING ALL '.' BY SPACE
 3011 GC0711 END-IF
 3012 GC0711
                 IF WS-Temp-32-Chars-2-TXT = SPACES AND WS-Temp-32-Chars-3-TXT = SPACES
 3013
                     SET WS-TT-Token-Is-Lit-Number-BOOL TO TRUE
 3014
                     EXIT SECTION
 3015
                 END-IF
 3016
 3017
 3018
            320-IDENTIFICATION-DIVISION SECTION.
 3019 GC0712
                 IF WS-TT-Token-Is-Argtype-BOOL
 3020 GC0712
                     SET WS-TT-Token-Is-Reserved-Wd-BOOL TO TRUE
 3021 GC0712
                 END-IF
 3022 GC0710
                 MOVE 'N' TO WS-RS-Verb-Has-Been-Found-CHR
 3023
                 IF WS-TT-Token-Is-Keyword-BOOL
 3024
                 AND WS-Token-Curr-TXT = 'DIVISION'
 3025
                     MOVE WS-Token-Prev-TXT TO WS-Curr-Division-TXT
 3026
                     EXIT SECTION
 3027
                 END-IF
 3028 GC0712
                IF WS-Token-Prev-TXT = 'PROGRAM-ID' OR 'FUNCTION-ID'
 3029
                     MOVE SPACES TO WS-Token-Prev-TXT
 3030
                     MOVE WS-Token-Curr-TXT TO WS-Curr-Prog-ID-TXT
 3031 GC0712
                     IF WS-CPI-16-CHR NOT = SPACES
 3032
                         MOVE '...' TO WS-CPI-13-15-TXT
```

28 September 2024 Chapter GCic

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ACS Cobol Xref v2.02.04
                                Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:04
                                                                                               Page
                                                                                                      82
 3033
                      END-IF
 3034
                      EXIT SECTION
 3035
                  END-IF
 3036
             /
 3037
              330-ENVIRONMENT-DIVISION SECTION.
 3038
 3039
       GC0712
                  IF WS-TT-Token-Is-Argtype-BOOL
 3040 GC0712
                      SET WS-TT-Token-Is-Reserved-Wd-BOOL TO TRUE
 3041 GC0712
                  END-IF
 3042
                  IF WS-TT-Token-Is-Keyword-BOOL
 3043
                  AND WS-Token-Curr-TXT = 'DIVISION'
 3044
                      MOVE WS-Token-Prev-TXT TO WS-Curr-Division-TXT
 3045
                      EXIT SECTION
 3046
                  END-IF
 3047
                  IF WS-TT-Token-Is-Keyword-BOOL
                  AND WS-Token-Curr-TXT = 'SECTION'
 3048
                      MOVE WS-Token-Prev-TXT TO WS-Curr-Section-TXT
 3049
 3050
                      EXIT SECTION
 3051
                  END-IF
 3052
                  IF WS-TT-Token-Is-Identifier-BOOL
 3053 GC0712
                      IF WS-Token-Prev-TXT = 'FUNCTION'
 3054 GC0712
                          PERFORM 360-Release-Def
 3055 GC0712
 3056 GC0712
                          PERFORM 361-Release-Ref
 3057 GC0712
                      END-IF
 3058
                  END-IF
 3059 GC1213
                  IF WS-TT-Token-Is-Function-BOOL
 3060 GC1213
                      PERFORM 361-Release-Ref
 3061 GC1213
                  END-IF
 3062
 3063
 3064
              340-DATA-DIVISION SECTION.
 3065 GC0712
                  IF WS-TT-Token-Is-Argtype-BOOL
 3066 GC0712
                      SET WS-TT-Token-Is-Reserved-Wd-BOOL TO TRUE
 3067 GC0712
                  END-IF
                  IF WS-TT-Token-Is-Keyword-BOOL
 3068
 3069
                  AND WS-Token-Curr-TXT = 'DIVISION'
 3070
                      MOVE WS-Token-Prev-TXT TO WS-Curr-Division-TXT
 3071
                      EXIT SECTION
 3072
                  END-IF
 3073
                  IF WS-TT-Token-Is-Keyword-BOOL
 3074
                  AND WS-Token-Curr-TXT = 'SECTION'
 3075
                      MOVE WS-Token-Prev-TXT TO WS-Curr-Section-TXT
 3076
                      EXIT SECTION
 3077
                  END-IF
                  IF (WS-Token-Curr-TXT = 'PIC' OR 'PICTURE')
 3078
 3079
                  AND (WS-TT-Token-Is-Keyword-BOOL)
 3080
                      MOVE 'Y' TO WS-RS-Processing-PICTURE-CHR
 3081
                      EXIT SECTION
 3082
                  END-IF
 3083 GC0710
                  IF WS-TT-Token-Is-Reserved-Wd-BOOL
 3084 GC0710
                  AND WS-Token-Prev-TXT = 'LEVEL #'
                  MOVE SPACES TO WS-Token-Prev-TXT
 3085 GC0710
 3086 GC0710
                      EXIT SECTION
```

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ACS Cobol Xref v2.02.04
                                    Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:04
                                                                                                           Page
                                                                                                                  83
  3087 GC0710
                   END-IF
                    IF WS-TT-Token-Is-Identifier-BOOL
  3088
 3089
                        EVALUATE WS-Token-Prev-TXT
 3090
                         WHEN 'FD'
 3091
                            PERFORM 360-Release-Def
                             MOVE SPACES TO WS-Token-Prev-TXT
 3092
                        WHEN 'RD'
 3093 GC1213
 3094 GC1213
                          PERFORM 360-Release-Def
 3095 GC1213
                            MOVE SPACES TO WS-Token-Prev-TXT
 3096
                         WHEN 'SD'
 3097
                            PERFORM 360-Release-Def
                             MOVE SPACES TO WS-Token-Prev-TXT
 3098
 3099
                         WHEN 'LEVEL #'
 3100
                            PERFORM 360-Release-Def
 3101
                             MOVE SPACES TO WS-Token-Prev-TXT
                         WHEN 'INDEXED'
 3102
 3103
                             PERFORM 360-Release-Def
 3104
                             MOVE SPACES TO WS-Token-Prev-TXT
 3105
                         WHEN 'USING'
 3106
                             PERFORM 362-Release-Upd
 3107
                             MOVE SPACES TO WS-Token-Prev-TXT
 3108
                         WHEN 'INTO'
 3109
                            PERFORM 362-Release-Upd
 3110
                             MOVE SPACES TO WS-Token-Prev-TXT
 3111
                         WHEN OTHER
                        IF WS-Token-Curr-TXT NOT = 'SUM'
 3112 GC1213
 3113 GC1213
                                  PERFORM 361-Release-Ref
                         END-IF
 3114 GC1213
                        END-EVALUATE
 3115
 3116
                        EXIT SECTION
 3117
                   END-IF
 3118
 3119
 3120
            350-PROCEDURE-DIVISION SECTION.
              IF WS-Curr-Section-TXT NOT = 'PROCEDURE'
 3121
 3122
                        MOVE 'PROCEDURE' TO WS-Curr-Section-TXT
 3123 END-IF
3124 GC0710 IF WS-Token-Curr-Uc-TXT = 'PROGRAM'
3125 GC0710 AND WS-Token-Prev-TXT = 'END'
3126 GC0710 MOVE '2' TO 'C'
 3126 GC0710 MOVE '?' TO WS-Curr-Division-TXT
3127 GC0710 EXIT SECTION
3128 GC0710 END-IF
           IF WS-TT-Token-Is-Keyword-BOOL
 3129
                   AND WS-Token-Curr-TXT = 'DIVISION'
 3130
 3131
                        MOVE WS-Token-Prev-TXT TO WS-Curr-Division-TXT
                        EXIT SECTION
 3132
 3133 END-IF

3134 GC0313 IF WS-TT-Token-Is-Identifier-BOOL

3135 GC0313 AND WS-Token-Prev-TXT = SPACES

3136 GC0313 AND WS-Curr-Verb-TXT = SPACES
 3137 GCO313*> ---- Definition of a Paragraph or Section
 3138 GC0313 PERFORM 360-Release-Def
3139 GC0313 MOVE SPACES TO WS-Token-Prev-TXT
3140 GC0313 EXIT SECTION
```

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ACS Cobol Xref v2.02.04
                                     Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:04
                                                                                                             Page
                                                                                                                     84
  3141 GC0313
                     END-IF
                     IF NOT WS-TT-Token-Is-Identifier-BOOL
  3142
  3143
                     EXIT SECTION
  3144
                    END-IF
  3145
                    EVALUATE WS-Curr-Verb-TXT
                    WHEN 'ACCEPT'
  3146
                       PERFORM 351-ACCEPT
  3147
                 WHEN 'ADD'
  3148
 3149
                        PERFORM 351-ADD
 3150
                   WHEN 'ALLOCATE'
 3151
                        PERFORM 351-ALLOCATE
                   WHEN 'CALL'
 3152
 3153
                        PERFORM 351-CALL
                   WHEN 'COMPUTE'
 3154
 3155
                        PERFORM 351-COMPUTE
                   WHEN 'DIVIDE'
  3156
  3157
                        PERFORM 351-DIVIDE
  3158
                   WHEN 'FREE'
  3159
                        PERFORM 351-FREE
  3160 GC1213 WHEN 'GENERATE'
  3161 GC1213
                      PERFORM 351-GENERATE
  3162
                    WHEN 'INITIALIZE'
 3163
                      PERFORM 351-INITIALIZE
  3164 GC1213
                    WHEN 'INITIATE'
  3165 GC1213
                     PERFORM 351-GENERATE
                     WHEN 'INSPECT'
  3166
  3167
                        PERFORM 351-INSPECT
  3168
                    WHEN 'MOVE'
 3169 PERFORM 351-1
3170 WHEN 'MULTIPLY'
3171 PERFORM 351-1
3172 WHEN 'PERFORM'
3173 PERFORM 351-1
3174 WHEN 'SET'
3175 PERFORM 351-5
3176 WHEN 'STRING'
3177 PERFORM 351-5
3178 WHEN 'SUBTRACT'
3179 PERFORM 351-5
3180 GC1213 WHEN 'TERMINATE'
3181 GC1213 PERFORM 351-6
3182 WHEN 'TRANSFORM'
 3169
                        PERFORM 351-MOVE
                       PERFORM 351-MULTIPLY
                        PERFORM 351-PERFORM
                        PERFORM 351-SET
                     PERFORM 351-STRING
                     PERFORM 351-SUBTRACT
                    PERFORM 351-GENERATE
  3182
                     WHEN 'TRANSFORM'
  3183
                     PERFORM 351-TRANSFORM
                     WHEN 'UNSTRING'
  3184
  3185
                         PERFORM 351-UNSTRING
  3186
                     WHEN OTHER
  3187
                         PERFORM 361-Release-Ref
  3188
                     END-EVALUATE
  3189
  3190
 3191
                351-ACCEPT SECTION.
 3192
                     EVALUATE WS-Token-Prev-TXT
                     WHEN 'ACCEPT'
 3193
 3194
                         PERFORM 362-Release-Upd
```

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ACS Cobol Xref v2.02.04
                                 Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:04
                                                                                                  Page 85
 3195
                      MOVE SPACES TO WS-Token-Prev-TXT
 3196
                 WHEN OTHER
                    PERFORM 361-Release-Ref
 3197
 3198
                 END-EVALUATE
 3199
 3200
            351-ADD SECTION.
 3201
              EVALUATE WS-Token-Prev-TXT
 3202
 3203
                 WHEN 'GIVING'
 3204
                     PERFORM 362-Release-Upd
                 WHEN 'TO'
 3205
 3206
                     PERFORM 362-Release-Upd
               WHEN OTHER
 3207
                     PERFORM 361-Release-Ref
 3208
                 END-EVALUATE
 3209
 3210
 3211
            351-ALLOCATE SECTION.
 3212
 3213
                 EVALUATE WS-Token-Prev-TXT
 3214
                 WHEN 'ALLOCATE'
 3215
                     PERFORM 362-Release-Upd
 3216
3217
                      MOVE SPACES TO WS-Token-Prev-TXT
 3216 MOVE SPACES
3217 WHEN 'RETURNING'
3218 PERFORM 362-
3219 WHEN OTHER
                   PERFORM 362-Release-Upd
 3220
                   PERFORM 361-Release-Ref
 3221
                 END-EVALUATE
 3222
 3223
 3224 351-CALL SECTION.
 3225 EVALUATE WS-Token-Prev-TXT
3226 WHEN 'RETURNING'
3227 PERFORM 362-Release-Upo
3228 WHEN 'GIVING'
3229 PERFORM 362-Release-Upo
3230 WHEN OTHER
                   PERFORM 362-Release-Upd
                   PERFORM 362-Release-Upd
 3230 WHEN OTHER
3231 GC1213 PERFORM 36
3232 END-EVALUATE
                  PERFORM 365-Release-Arg
 3233
 3234
 3235 351-COMPUTE SECTION.
             EVALUATE WS-Token-Prev-TXT
  3236
 3237
                  WHEN 'COMPUTE'
 3238
                   PERFORM 362-Release-Upd
 3239
                  WHEN OTHER
 3240
                      PERFORM 361-Release-Ref
 3241
                  END-EVALUATE
 3242
 3243
 3244 351-DIVIDE SECTION.
 3245
              EVALUATE WS-Token-Prev-TXT
 3246
                  WHEN 'INTO'
 3247
                      PERFORM 363-Set-Upd
 3248
                       MOVE F-Sort-Work-REC TO WS-Held-Reference-TXT
```

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ACS Cobol Xref v2.02.04
                               Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:05
                                                                                           Page
                                                                                                 86
 3249
                 WHEN 'GIVING'
 3250
                     IF WS-Held-Reference-TXT NOT = SPACES
 3251
                         MOVE WS-Held-Reference-TXT To F-Sort-Work-REC
 3252
                         MOVE SPACES
                                            To WS-Held-Reference-TXT
 3253
                                             F-SW-Ref-Flag-CHR
 3254
                         RELEASE F-Sort-Work-REC
                     END-IF
 3255
 3256
                     PERFORM 362-Release-Upd
               WHEN 'REMAINDER'
 3257
 3258
                    PERFORM 362-Release-Upd
 3259
                 WHEN OTHER
 3260
                    PERFORM 361-Release-Ref
 3261
                 END-EVALUATE
 3262
 3263
            351-FREE SECTION.
 3264
 3265
              PERFORM 362-Release-Upd
 3266
 3267
 3268 GC1213 351-GENERATE SECTION.
 3269 GC1213 PERFORM 362-Release-Upd
 3270 GC1213
 3271
 3272
            351-INITIALIZE SECTION.
             EVALUATE WS-Token-Prev-TXT
 3273
 3274
                WHEN 'INITIALIZE'
 3275
                 PERFORM 362-Release-Upd
 3276
                 WHEN 'REPLACING'
                    PERFORM 361-Release-Ref
 3277
 3278
                 END-EVALUATE
 3279
 3280
 3281 GC1213 351-INITIATE SECTION.
 3282 GC1213 PERFORM 362-Release-Upd
 3283 GC1213
 3284
 3285
             351-INSPECT SECTION.
             EVALUATE WS-Token-Prev-TXT
 3286
 3287
                 WHEN 'INSPECT'
 3288
                     PERFORM 364-Set-Ref
 3289
                     MOVE SPACES TO WS-Held-Reference-TXT
 3290
                     MOVE SPACES TO WS-Token-Prev-TXT
 3291
                 WHEN 'TALLYING'
 3292
                     PERFORM 362-Release-Upd
 3293
                     MOVE SPACES TO WS-Token-Prev-TXT
                 WHEN 'REPLACING'
 3294
 3295
                     IF WS-Held-Reference-TXT NOT = SPACES
 3296
                         MOVE WS-Held-Reference-TXT TO F-Sort-Work-REC
                         MOVE SPACES TO WS-Held-Reference-TXT
 3297
 3298
                         MOVE '*'
                                            TO F-SW-Ref-Flag-CHR
 3299
                         RELEASE F-Sort-Work-REC
 3300
                     END-IF
 3301
                     MOVE SPACES TO WS-Token-Prev-TXT
 3302
                 WHEN 'CONVERTING'
```

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ACS Cobol Xref v2.02.04
                               Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:05
                                                                                           Page
                                                                                                 87
 3303
                     IF WS-Held-Reference-TXT NOT = SPACES
 3304
                         MOVE WS-Held-Reference-TXT TO F-Sort-Work-REC
                         MOVE SPACES TO WS-Held-Reference-TXT
 3305
                         MOVE '*'
                                            TO F-SW-Ref-Flag-CHR
 3306
                         RELEASE F-Sort-Work-REC
 3307
                     END-IF
 3308
                     MOVE SPACES TO WS-Token-Prev-TXT
 3309
 3310
                 WHEN OTHER
                    PERFORM 361-Release-Ref
 3311
 3312
                 END-EVALUATE
 3313
 3314
 3315
            351-MOVE SECTION.
 3316
                EVALUATE WS-Token-Prev-TXT
                 WHEN 'TO'
 3317
                     PERFORM 362-Release-Upd
 3318
 3319
                 WHEN OTHER
 3320
                    PERFORM 361-Release-Ref
 3321
                 END-EVALUATE
 3322
 3323
 3324
             351-MULTIPLY SECTION.
 3325
                 EVALUATE WS-Token-Prev-TXT
 3326
                 WHEN 'BY'
 3327
                     PERFORM 363-Set-Upd
 3328
                     MOVE F-Sort-Work-REC TO WS-Held-Reference-TXT
                 WHEN 'GIVING'
 3329
 3330
                     MOVE WS-Held-Reference-TXT TO F-Sort-Work-REC
                     MOVE SPACES TO WS-Held-Reference-TXT
 3331
 3332
                                          F-SW-Ref-Flag-CHR
 3333
                     RELEASE F-Sort-Work-REC
 3334
                     PERFORM 362-Release-Upd
 3335
                WHEN OTHER
 3336
                     PERFORM 361-Release-Ref
 3337
                 END-EVALUATE
 3338
 3339
 3340
           351-PERFORM SECTION.
 3341
                 EVALUATE WS-Token-Prev-TXT
 3342
                 WHEN 'VARYING'
 3343
                     PERFORM 362-Release-Upd
 3344
                     MOVE SPACES TO WS-Token-Prev-TXT
 3345
                 WHEN 'AFTER'
 3346
                     PERFORM 362-Release-Upd
                     MOVE SPACES TO WS-Token-Prev-TXT
 3347
                 WHEN OTHER
 3348
 3349
                     PERFORM 361-Release-Ref
 3350
                 END-EVALUATE
 3351
 3352
 3353
             351-SET SECTION.
 3354
                 EVALUATE WS-Token-Prev-TXT
 3355
                 WHEN 'SET'
 3356
                     PERFORM 362-Release-Upd
```

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ACS Cobol Xref v2.02.04
                                Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:05
                                                                                              Page
                                                                                                    88
  3357
                  WHEN OTHER
  3358
                     PERFORM 361-Release-Ref
 3359
                  END-EVALUATE
 3360
 3361
            351-STRING SECTION.
 3362
                 EVALUATE WS-Token-Prev-TXT
 3363
                  WHEN 'INTO'
 3364
 3365
                     PERFORM 362-Release-Upd
 3366
                  WHEN 'POINTER'
 3367
                     PERFORM 362-Release-Upd
 3368
                  WHEN OTHER
 3369
                    PERFORM 361-Release-Ref
 3370
                 END-EVALUATE
 3371
 3372
            351-SUBTRACT SECTION.
 3373
              EVALUATE WS-Token-Prev-TXT
 3374
 3375
                 WHEN 'GIVING'
 3376
                     PERFORM 362-Release-Upd
               PERFORM
WHEN 'FROM'
 3377
 3378
                     PERFORM 362-Release-Upd
             PERFURI
WHEN OTHER
 3379
 3380
                  PERFORM 361-Release-Ref
 3381
                END-EVALUATE
 3382
 3383
 3384 GC1213 351-TERMINATE SECTION.
 3385 GC1213 PERFORM 362-Release-Upd
 3386 GC1213
 3387
 3388
            351-TRANSFORM SECTION.
             EVALUATE WS-Token-Prev-TXT
 3389
 3390
                 WHEN 'TRANSFORM'
 3391
                    PERFORM 362-Release-Upd
 3392
                     MOVE SPACES TO WS-Token-Prev-TXT
 3392
3393
                 WHEN OTHER
 3394
                     PERFORM 361-Release-Ref
  3395
                  END-EVALUATE
  3396
  3397
           351-UNSTRING SECTION.
  3398
  3399
                  EVALUATE WS-Token-Prev-TXT
  3400
                  WHEN 'INTO'
  3401
                     PERFORM 362-Release-Upd
  3402
                  WHEN 'DELIMITER'
       WHEN 'COUNT'
PERFORM 362
WHEN 'POINTER'
PERFORM 363
WHEN 'TALLYING
PERFORM 36
  3403
                     PERFORM 362-Release-Upd
 3404
 3405
                     PERFORM 362-Release-Upd
 3406
 3407
                   PERFORM 362-Release-Upd
 3408
                  WHEN 'TALLYING'
 3409
                  PERFORM 362-Release-Upd
                WHEN OTHER
 3410
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ACS Cobol Xref v2.02.04
                               Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:05
                                                                                            Page
                                                                                                  89
                     PERFORM 361-Release-Ref
 3411
 3412
                 END-EVALUATE
 3413
 3414
             360-Release-Def SECTION.
 3415
                 MOVE SPACES
                                            TO F-Sort-Work-REC
 3416
 3417
                 MOVE WS-Curr-Prog-ID-TXT
                                            TO F-SW-Prog-ID-TXT
                 MOVE WS-Token-Curr-Uc-TXT TO F-SW-Token-Uc-TXT
 3418
                                            TO F-SW-Token-TXT
                 MOVE WS-Token-Curr-TXT
 3419
 3420
                MOVE WS-Curr-Section-TXT TO F-SW-Section-TXT
 3421
                MOVE WS-Curr-Line-NUM TO F-SW-Def-Line-NUM
 3422
                MOVE O
                                            TO F-SW-Ref-Line-NUM
 3423
                 RELEASE F-Sort-Work-REC
 3424
 3425
             361-Release-Ref SECTION.
 3426
                 PERFORM 364-Set-Ref
 3427
 3428
                 RELEASE F-Sort-Work-REC
 3429
 3430
 3431
             362-Release-Upd SECTION.
 3432
                 PERFORM 363-Set-Upd
 3433
                  RELEASE F-Sort-Work-REC
 3434
 3435
 3436
             363-Set-Upd SECTION.
 3437
                 MOVE SPACES
                                            TO F-Sort-Work-REC
                 MOVE WS-Curr-Prog-ID-TXT
 3438
                                            TO F-SW-Prog-ID-TXT
                 MOVE WS-Token-Curr-Uc-TXT TO F-SW-Token-Uc-TXT
 3439
                 MOVE WS-Token-Curr-TXT
                                            TO F-SW-Token-TXT
 3440
                MOVE WS-Curr-Section-TXT
                                            TO F-SW-Section-TXT
 3441
                 MOVE WS-Curr-Line-NUM
 3442
                                            TO F-SW-Ref-Line-NUM
                 MOVE '*'
                                            TO F-SW-Ref-Flag-CHR
 3443
 3444
 3445
            364-Set-Ref SECTION.
 3446
 3447
                 MOVE SPACES
                                            TO F-Sort-Work-REC
 3448
                 MOVE WS-Curr-Prog-ID-TXT
                                            TO F-SW-Prog-ID-TXT
 3449
                 MOVE WS-Token-Curr-Uc-TXT
                                            TO F-SW-Token-Uc-TXT
 3450
                 MOVE WS-Token-Curr-TXT
                                            TO F-SW-Token-TXT
 3451
                 MOVE WS-Curr-Section-TXT
                                            TO F-SW-Section-TXT
 3452
                 MOVE WS-Curr-Line-NUM
                                            TO F-SW-Ref-Line-NUM
 3453
 3454
 3455 GC1213 365-Release-Arg SECTION.
 3456 GC1213
                 PERFORM 366-Set-Arg
 3457 GC1213
                 RELEASE F-Sort-Work-REC
 3458 GC1213
 3459
 3460 GC1213 366-Set-Arg SECTION.
 3461 GC1213
                 MOVE SPACES
                                            TO F-Sort-Work-REC
 3462 GC1213
                 MOVE WS-Curr-Prog-ID-TXT
                                            TO F-SW-Prog-ID-TXT
                 MOVE WS-Token-Curr-Uc-TXT TO F-SW-Token-Uc-TXT
 3463 GC1213
              MOVE WS-Token-Curr-TXT
 3464 GC1213
                                            TO F-SW-Token-TXT
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ACS Cobol Xref v2.02.04
                                Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:05
                                                                                              Page
                                                                                                     90
  3465 GC1213
                  MOVE WS-Curr-Section-TXT
                                              TO F-SW-Section-TXT
                  MOVE WS-Curr-Line-NUM
                                              TO F-SW-Ref-Line-NUM
  3466 GC1213
                  MOVE 'C'
  3467
      GC1213
                                              TO F-SW-Ref-Flag-CHR
  3468 GC1213
  3469
  3470
              400-Produce-Xref-Listing SECTION.
  3471
                  MOVE SPACES
  3472
                                   TO WS-Xref-Detail-Line-TXT
                                      WS-Group-Indicators-TXT
 3473
 3474
                  MOVE O
                                    TO WS-I-SUB
 3475
                                       WS-Lines-Left-NUM
 3476 GC0710
                  MOVE 'N'
                                    TO WS-RS-Duplicate-CHR
 3477
                  PERFORM FOREVER
 3478
                     RETURN F-Sort-Work-FILE AT END
 3479 GC1213
                         IF WS-Xref-Detail-Line-TXT NOT = SPACES
  3480 GC1213
                              PERFORM 410-Generate-Report-Line
  3481 GC1213
                        END-IF
  3482 GC1213
                        MOVE SPACES TO WS-Xref-Detail-Line-TXT
                        PERFORM 410-Generate-Report-Line
  3483 GC1213
  3484 GC1213
                              UNTIL WS-Lines-Left-NUM = 0
  3485 GC1213
                        MOVE 'Y' TO WS-Suppress-FF-CHR
  3486 GC1213
                          PERFORM 420-Generate-Xref-Footer
  3487
                          EXIT PERFORM
  3488
                      END-RETURN
  3489
                      IF F-SW-Prog-ID-TXT NOT = WS-GI-Prog-ID-TXT
  3490
                      OR F-SW-Token-Uc-TXT NOT = WS-GI-Token-TXT
  3491 GC0710
                          MOVE 'N' TO WS-RS-Duplicate-CHR
  3492
                          IF WS-Xref-Detail-Line-TXT NOT = SPACES
  3493
                              PERFORM 410-Generate-Report-Line
  3494
                          END-IF
 3495
                          IF F-SW-Prog-ID-TXT NOT = WS-GI-Prog-ID-TXT
  3496 GC1213
                              MOVE SPACES TO WS-Xref-Detail-Line-TXT
  3497 GC1213
                              PERFORM 410-Generate-Report-Line
  3498 GC1213
                                  UNTIL WS-Lines-Left-NUM = 0
                          END-TF
  3499
                          MOVE F-SW-Prog-ID-TXT TO WS-GI-Prog-ID-TXT
  3500
 3501
                          MOVE F-SW-Token-Uc-TXT TO WS-GI-Token-TXT
  3502
                      END-IF
  3503 GC0710
                      IF F-SW-Token-Uc-TXT = WS-GI-Token-TXT
  3504 GC0710
                      AND F-SW-Def-Line-NUM NOT = SPACES
  3505 GC0710
                      AND WS-Xref-Detail-Line-TXT NOT = SPACES
                          MOVE 'Y' TO WS-RS-Duplicate-CHR
  3506 GC0710
  3507 GC0710
                          PERFORM 410-Generate-Report-Line
  3508 GC0710
                          MOVE O TO WS-I-SUB
  3509 GC0710
                          MOVE F-SW-Prog-ID-TXT TO WS-XDL-Prog-ID-TXT
  3510 GC0710
                                  (Duplicate Definition), TO WS-XDL-Token-TXT
  3511 GC0710
                          MOVE F-SW-Section-TXT TO WS-XDL-Section-TXT
 3512 GC0710
                          MOVE F-SW-Def-Line-NUM TO WS-XDL-Def-Line-NUM
 3513 GC0710
                          EXIT PERFORM CYCLE
 3514 GC0710
                      END-IF
 3515 GC0710
                      IF F-SW-Token-Uc-TXT = WS-GI-Token-TXT
 3516 GC0710
                      AND F-SW-Def-Line-NUM = SPACES
 3517 GC0710
                      AND WS-RS-Duplicate-CHR = 'Y'
 3518 GC0710
                          MOVE 'N' TO WS-RS-Duplicate-CHR
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Chapter GCic

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ACS Cobol Xref v2.02.04
                                Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:05
                                                                                              Page
                                                                                                     91
 3519 GC0710
                          PERFORM 410-Generate-Report-Line
 3520 GC0710
                          MOVE O TO WS-I-SUB
 3521 GC0710
                          MOVE F-SW-Prog-ID-TXT TO WS-XDL-Prog-ID-TXT
 3522 GC0710
                          MOVE ' (Duplicate References)' TO WS-XDL-Token-TXT
 3523 GC0710
                      END-IF
                      IF WS-Xref-Detail-Line-TXT = SPACES
 3524
                          MOVE F-SW-Prog-ID-TXT TO WS-XDL-Prog-ID-TXT
 3525
 3526
                          MOVE F-SW-Token-TXT TO WS-XDL-Token-TXT
 3527
                          MOVE F-SW-Section-TXT TO WS-XDL-Section-TXT
 3528
                          IF F-SW-Def-Line-NUM NOT = SPACES
 3529
                              MOVE F-SW-Def-Line-NUM TO WS-XDL-Def-Line-NUM
 3530
                          END-IF
 3531
                      END-IF
                      IF F-SW-Reference-TXT > '000000'
 3532
 3533
                          ADD 1 TO WS-I-SUB
 3534
                          IF WS-I-SUB > WS-Xref-Lines-Per-Rec-NUM
 3535
                              PERFORM 410-Generate-Report-Line
 3536
                              MOVE 1 TO WS-I-SUB
 3537
                          END-IF
 3538
                          MOVE F-SW-Ref-Line-NUM
 3539
                            TO WS-XDL-Ref-Line-NUM (WS-I-SUB)
 3540
                          MOVE F-SW-Ref-Flag-CHR
 3541
                            TO WS-XDL-Ref-Flag-CHR (WS-I-SUB)
 3542
                      END-IF
 3543
                  END-PERFORM
 3544
                  IF WS-Xref-Detail-Line-TXT NOT = SPACES
 3545
                      PERFORM 410-Generate-Report-Line
 3546
                  END-IF
 3547
 3548
 3549
              410-Generate-Report-Line SECTION.
                IF WS-Lines-Left-NUM < 1
 3550
                PERFORM 420-Generate-Xref-Footer
 3551 GC1213
 3552 GC1213
                     ADD 1
                  ADD 1 TO WS-Page-NUM
MOVE 'Page:' TO WS-PN-Literal-'
MOVE WS-Page-NUM TO WS-PN-Page-NUM
                                    TO WS-Page-NUM
 3553 GC1213
                                     TO WS-PN-Literal-TXT
 3554 GC1213
 3555 GC1213
                     CALL 'C$JUSTIFY' USING WS-PN-Page-NUM, 'Left'
 3556 GC1213
                     CALL 'C$JUSTIFY' USING WS-Page-No-TXT, 'Right'
 3557 GC1213
                      IF L-Listing-CD = 1 *> LANDSCAPE
 3558 GC1213
                     MOVE WS-Version-TXT
 3559 GC1213
                            TO F-Listing-135-REC
 3560 GC1213
                        MOVE 'Cross-Reference Listing'
 3561 GC1213
                          TO F-Listing-135-REC(25:23)
 3562 GC1213
                        MOVE WS-Formatted-DT
 3563 GC1213
                          TO F-Listing-135-REC(126:10)
 3564 GC1213
                         WRITE F-Listing-135-REC BEFORE 1 *> Page Header Line #1
                        MOVE WS-Program-Path-TXT
 3565 GC1213
 3566 GC1213
                          TO F-Listing-135-REC
 3567 GC1213
                       WRITE F-Listing-135-REC BEFORE 1 *> Page Header Line #2
 3568 GC1213
                        MOVE 'PROGRAM-ID
                                                Identifier/Register/Function' &
 3569 GC1213
                                     Defn Where Defined References'
 3570 GC1213
                           TO F-Listing-135-REC
 3571 GC1213
                         MOVE WS-Page-No-TXT
 3572 GC1213
                            TO F-Listing-135-REC(126:10)
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28 September 2024 Chapter GCic

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ACS Cobol Xref v2.02.04
                              Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:05
                                                                                          Page
                                                                                                92
 3573 GC1213
                         WRITE F-Listing-135-REC BEFORE 1 *> Page Header Line #3
                         MOVE ALL '=' TO F-Listing-135-REC
 3574 GC1213
 3575 GC1213
                         MOVE SPACE TO F-Listing-135-REC(16:1)
 3576 GC1213
                                      F-Listing-135-REC(49:1)
 3577 GC1213
                                      F-Listing-135-REC(56:1)
 3578 GC1213
                                      F-Listing-135-REC(72:1)
 3579 GC1213
                        WRITE F-Listing-135-REC BEFORE 1 *> Page Header Line #4
 3580 GC1213
                    ELSE
                                        *> PORTRAIT
 3581 GC1213
                       MOVE WS-Version-TXT
 3582 GC1213
                         TO F-Listing-96-REC
 3583 GC1213
                       MOVE 'Cross-Reference Listing'
 3584 GC1213
                         TO F-Listing-96-REC(25:23)
 3585 GC1213
                       MOVE WS-Formatted-DT
 3586 GC1213
                         TO F-Listing-96-REC(87:10)
 3587 GC1213
                       WRITE F-Listing-96-REC BEFORE 1 *> Page Header Line #1
 3588 GC1213
                       MOVE WS-Program-Path-TXT(40:96)
 3589 GC1213
                          TO F-Listing-96-REC
 3590 GC1213
                      WRITE F-Listing-96-REC BEFORE 1 *> Page Header Line #2
                      MOVE 'PROGRAM-ID
                                             Identifier/Register/Function' &
 3591 GC1213
 3592 GC1213
                                   Defn Where Defined References'
 3593 GC1213
                          TO F-Listing-96-REC
 3594 GC1213
                       MOVE WS-Page-No-TXT
 3595 GC1213
                         TO F-Listing-96-REC(87:10)
 3596 GC1213
                       WRITE F-Listing-96-REC BEFORE 1 *> Page Header Line #3
 3597 GC1213
                        MOVE ALL '=' TO F-Listing-96-REC
 3598 GC1213
                       MOVE SPACE TO F-Listing-96-REC(16:1)
 3599 GC1213
                                      F-Listing-96-REC(49:1)
 3600 GC1213
                                      F-Listing-96-REC(56:1)
 3601 GC1213
                                      F-Listing-96-REC(72:1)
 3602 GC1213
                         WRITE F-Listing-96-REC BEFORE 1 *> Page Header Line #4
                     END-IF
 3603 GC1213
 3604 GC1213
                    COMPUTE WS-Lines-Left-NUM = WS-Lines-Per-Page-NUM - 4
                END-IF
 3605
 3606 GC1213 IF L-Listing-CD = 1 *> LANDSCAPE
                WRITE F-Listing-135-REC FROM WS-Xref-Detail-Line-TXT
 3607 GC1213
 3608 GC1213
                         BEFORE 1
 3609 GC1213
                ELSE
                                    *> PORTRAIT
 3610 GC1213 WRITE F-Listing-96-REC FROM WS-Xref-Detail-Line-TXT
 3611 GC1213
 3612 GC1213
                END-IF
 3613
                 MOVE SPACES TO WS-Xref-Detail-Line-TXT
 3614
                 MOVE O TO WS-I-SUB
 3615
                 SUBTRACT 1 FROM WS-Lines-Left-NUM
 3616
 3617 GC1213 420-Generate-Xref-Footer SECTION.
 3618 GC1213 IF L-Listing-CD = 1 *> LANDSCAPE
 3619 GC1213
                     WRITE F-Listing-135-REC FROM SPACES BEFORE 1 *> Footer Line #1
 3620 GC1213
                     MOVE ALL '='
 3621 GC1213
                      TO F-Listing-135-REC
 3622 GC1213
                     WRITE F-Listing-135-REC BEFORE 1 *> Footer Line #2
 3623 GC1213
                    MOVE WS-Copyright-TXT
 3624 GC1213
                      TO F-Listing-135-REC
                    MOVE WS-Page-No-TXT
 3625 GC1213
 3626 GC1213
                    TO F-Listing-135-REC(126:10)
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ACS Cobol Xref v2.02.04
                                Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:06
                                                                                              Page
                                                                                                     93
                      IF WS-Suppress-FF-CHR = 'Y'
 3627 GC1213
                          WRITE F-Listing-135-REC BEFORE 1 *> Footer Line #3
 3628 GC1213
 3629 GC1213
                      ELSE
 3630 GC1213
                          WRITE F-Listing-135-REC BEFORE PAGE *> Footer Line #3
 3631 GC1213
                          WRITE F-Listing-135-REC FROM SPACES BEFORE 1 *> Spaces After FF Character
 3632 GC1213
                      END-IF
 3633 GC1213
                  ELSE
                                      *> PORTRAIT
 3634 GC1213
                      WRITE F-Listing-96-REC FROM SPACES BEFORE 1 *> Footer Line #1
 3635 GC1213
                      MOVE ALL '='
 3636 GC1213
                       TO F-Listing-96-REC
 3637 GC1213
                      WRITE F-Listing-96-REC BEFORE 1 *> Footer Line #2
 3638 GC1213
                      MOVE WS-Copyright-TXT
 3639 GC1213
                        TO F-Listing-96-REC
 3640 GC1213
                      MOVE WS-Page-No-TXT
 3641 GC1213
                        TO F-Listing-96-REC(87:10)
 3642 GC1213
                      IF WS-Suppress-FF-CHR = 'Y'
                          WRITE F-Listing-96-REC BEFORE 1 *> Footer Line #3
 3643 GC1213
 3644 GC1213
 3645 GC1213
                          WRITE F-Listing-96-REC BEFORE PAGE *> Footer Line #3
 3646 GC1213
                          WRITE F-Listing-96-REC FROM SPACES BEFORE 1 *> Spaces After FF Character
 3647 GC1213
 3648 GC1213
                  END-IF
 3649 GC1213
 3650
 3651
              500-Produce-Source-Listing SECTION.
 3652
                  OPEN INPUT F-Original-Src-FILE
 3653
                             F-Expanded-Src-FILE
 3654
                  MOVE 0 TO WS-Src-Line-NUM
                  PERFORM FOREVER
 3655
 3656
                      READ F-Expanded-Src-FILE AT END
                          MOVE SPACES TO WS-Src-Detail-Line-TXT
 3657 GC1213
 3658 GC1213
                          PERFORM 530-Generate-Source-Line
 3659 GC1213
                              UNTIL WS-Lines-Left-NUM = 0
                          EXIT PERFORM
 3660
                      END-READ
 3661
 3662 GC0712
                      IF F-ES-1-7-TXT NOT = '#DEFLIT'
                     IF F-ES-1-CHR = '#'
 3663 GC0712
 3664 GC0712
                              PERFORM 510-Control-Record
 3665 GC0712
                          ELSE
 3666 GC0712
                              PERFORM 520-Expanded-Src-Record
 3667 GC0712
                          END-IF
 3668 GC0712
                      END-IF
 3669
                  END-PERFORM
 3670
                  CLOSE F-Original-Src-FILE
 3671
                        F-Expanded-Src-FILE
 3672
 3673
 3674
              510-Control-Record SECTION.
 3675
                  UNSTRING F-ES-2-256-TXT-256
                      DELIMITED BY '"'
 3676
 3677
                      INTO WS-Temp-10-Chars-TXT
 3678
                           WS-Temp-256-Chars-TXT
 3679
                           WS-Dummy-TXT
 3680 GC1010
                  IF UPPER-CASE(TRIM(WS-Temp-256-Chars-TXT,Trailing)) =
```

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ACS Cobol Xref v2.02.04
                                Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:06
                                                                                              Page
                                                                                                     94
                     TRIM(WS-Main-Module-Name-TXT) *> Main Pgm
 3681 GC1010
                      SET WS-RS-In-Main-Module-BOOL TO TRUE
 3682
 3683
                      IF WS-Src-Line-NUM > 0
 3684
                          READ F-Expanded-Src-FILE END-READ
 3685
                      END-IF
 3686
                  ELSE *> COPY
                      SET WS-RS-In-Copybook-BOOL TO TRUE
 3687
 3688
                  END-IF
 3689
 3690
 3691
              520-Expanded-Src-Record SECTION.
 3692
                  IF WS-RS-In-Main-Module-BOOL
 3693
                      ADD 1 To WS-Curr-Line-NUM
 3694 GC0712
                      READ F-Original-Src-FILE AT END CONTINUE END-READ
 3695
                      ADD 1 TO WS-Src-Line-NUM
 3696
                      MOVE SPACES TO WS-Src-Detail-Line-TXT
 3697
                      MOVE WS-Src-Line-NUM TO WS-SDL-Line-NUM
 3698 GC1213
                      MOVE F-Original-Src-REC TO WS-SDL-Statement-TXT
 3699 GC0712
                      MOVE LOWER-CASE(TRIM(F-OS-8-72-TXT, LEADING))
 3700 GC0712
                        TO WS-Temp-65-Chars-TXT
 3701 GC0712
                      INSPECT WS-Temp-65-Chars-TXT REPLACING ALL '.' BY SPACE
 3702 GC0712
                      EVALUATE TRUE
 3703 GC0712
                          WHEN F-OS-7-CHR = '/'
 3704 GC1213
                              MOVE SPACES TO WS-Src-Detail-Line-TXT
 3705 GC1213
                              PERFORM 530-Generate-Source-Line
 3706 GC1213
                                  UNTIL WS-Lines-Left-NUM = 0
 3707 GC0712
                          WHEN WS-Temp-65-Chars-TXT = "eject"
 3708 GC1213
                            MOVE SPACES TO WS-Src-Detail-Line-TXT
 3709 GC1213
                              PERFORM 530-Generate-Source-Line
 3710 GC1213
                                  UNTIL WS-Lines-Left-NUM = 0
 3711 GC0712
                              EXIT SECTION
 3712 GC0712
                        WHEN WS-Temp-65-Chars-TXT = "skip1"
 3713 GC0712
                          MOVE SPACES TO WS-Src-Detail-Line-TXT
 3714 GC0712
                              PERFORM 530-Generate-Source-Line
 3715 GC0712
                              EXIT SECTION
 3716 GC0712
                        WHEN WS-Temp-65-Chars-TXT = "skip2"
 3717 GC0712
                              MOVE SPACES TO WS-Src-Detail-Line-TXT
 3718 GC0712
                              PERFORM 530-Generate-Source-Line 2 TIMES
 3719 GC0712
                              EXIT SECTION
 3720 GC0712
                          WHEN WS-Temp-65-Chars-TXT = "skip3"
 3721 GC0712
                              MOVE SPACES TO WS-Src-Detail-Line-TXT
 3722 GC0712
                              PERFORM 530-Generate-Source-Line 3 TIMES
 3723 GC0712
                              EXIT SECTION
 3724 GC0712
                      END-EVALUATE
 3725
                      PERFORM 530-Generate-Source-Line
 3726
 3727
                      IF F-Expanded-Src-REC NOT = SPACES
 3728
                          MOVE SPACES TO WS-Src-Detail-Line-TXT
 3729 GC1213
                          MOVE F-Expanded-Src-REC
 3730
                            TO WS-SDL-Statement-TXT
 3731 GC0712
                          MOVE LOWER-CASE(TRIM(F-OS-8-72-TXT, LEADING))
 3732 GC0712
                          TO WS-Temp-65-Chars-TXT
 3733 GC0712
                          INSPECT WS-Temp-65-Chars-TXT
 3734 GC0712
                              REPLACING ALL '.' BY SPACE
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Chapter GCic

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ACS Cobol Xref v2.02.04
                              Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:06
                                                                                         Page
                                                                                               95
 3735 GC0712
                        EVALUATE TRUE
 3736 GC0712
                            WHEN WS-Temp-65-Chars-TXT = "eject"
 3737 GC0712
                                MOVE O TO WS-Lines-Left-NUM
 3738 GC0712
                                EXIT SECTION
 3739 GC0712
                            WHEN WS-Temp-65-Chars-TXT = "skip1"
 3740 GC0712
                               MOVE SPACES TO WS-Src-Detail-Line-TXT
 3741 GC0712
                                PERFORM 530-Generate-Source-Line
 3742 GC0712
                                EXIT SECTION
 3743 GC0712
                           WHEN WS-Temp-65-Chars-TXT = "skip2"
 3744 GC0712
                                MOVE SPACES TO WS-Src-Detail-Line-TXT
 3745 GC0712
                                PERFORM 530-Generate-Source-Line 2 TIMES
 3746 GC0712
                                EXIT SECTION
 3747 GC0712
                           WHEN WS-Temp-65-Chars-TXT = "skip3"
 3748 GC0712
                                MOVE SPACES TO WS-Src-Detail-Line-TXT
 3749 GC0712
                                PERFORM 530-Generate-Source-Line 3 TIMES
 3750 GC0712
                                EXIT SECTION
 3751 GC0712
                      END-EVALUATE
 3752
                        PERFORM 530-Generate-Source-Line
                    END-IF
 3753
 3754
                 END-IF
 3755
 3756
 3757
             530-Generate-Source-Line SECTION.
 3758 GC1213 MOVE 1 TO WS-Src-Lines-NUM
 3759 GC1213
                 IF L-Listing-CD = 1 *> LANDSCAPE
 3760 GC1213
                    IF WS-SDL-Statement-TXT(129:128) > SPACES
 3761 GC1213
                     ADD 1 TO WS-Src-Lines-NUM
                END-IF
 3762 GC1213
 3763 GC1213 ELSE
                                    *> PORTRAIT
 3764 GC1213 IF WS-SDL-Statement-TXT(90:167) > SPACES
 3765 GC1213
                    ADD 1 TO WS-Src-Lines-NUM
 3766 GC1213
                        IF WS-SDL-Statement-TXT(179:78) > SPACES
 3767 GC1213
                            ADD 1 TO WS-Src-Lines-NUM
 3768 GC1213
                        END-IF
 3769 GC1213
                    END-IF
               END-IF
 3770 GC1213
 3771 GC1213 IF WS-Lines-Left-NUM < WS-Src-Lines-NUM
               IF WS-Page-Num > 0 *> Don't print footer before page 1
 3772 GC1213
                    IF L-Listing-CD = 1 *> LANDSCAPE
 3773 GC1213
 3774 GC1213
                            IF WS-Src-Lines-NUM = 2
 3775 GC1213
                                WRITE F-Listing-135-REC FROM SPACES BEFORE 1 *> Blank Line
 3776 GC1213
                            END-IF
 3777 GC1213
                            WRITE F-Listing-135-REC FROM SPACES BEFORE 1 *> Footer Line #1
 3778 GC1213
                            MOVE ALL '='
 3779 GC1213
                             TO F-Listing-135-REC
 3780 GC1213
                            WRITE F-Listing-135-REC BEFORE 1 *> Footer Line #2
 3781 GC1213
                            MOVE WS-Copyright-TXT
 3782 GC1213
                             TO F-Listing-135-REC
 3783 GC1213
                            MOVE WS-Page-No-TXT
 3784 GC1213
                             TO F-Listing-135-REC(126:10)
 3785 GC1213
                            WRITE F-Listing-135-REC BEFORE PAGE *> Footer Line #3
 3786 GC1213
                            WRITE F-Listing-135-REC FROM SPACES BEFORE 1 *> Spaces After FF Character
 3787 GC1213
                       ELSE
                                           *> PORTRAIT
 3788 GC1213
                           EVALUATE WS-Src-Lines-NUM
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28 September 2024 Chapter GCic

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ACS Cobol Xref v2.02.04
                           Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:06
                                                                                 Page
                                                                                       96
 3789 GC1213
                          WHEN 1 *> Need no extra blank lines
 3790 GC1213
                             CONTINUE
 3791 GC1213
                          WHEN 2 *> Need 1 extra blank line
 3792 GC1213
                            WRITE F-Listing-96-REC FROM SPACES BEFORE 1
 3793 GC1213
                          WHEN 3 *> Need 2 extra blank lines
 3794 GC1213
                             WRITE F-Listing-96-REC FROM SPACES BEFORE 1
                     WRITE F-
 3795 GC1213
                             WRITE F-Listing-96-REC FROM SPACES BEFORE 1
 3796 GC1213
 3797 GC1213
                         WRITE F-Listing-96-REC FROM SPACES BEFORE 1 *> Footer Line #1
                        MOVE ALL '='
 3798 GC1213
 3799 GC1213
                          TO F-Listing-96-REC
3800 GC1213
                       WRITE F-Listing-96-REC BEFORE 1 *> Footer Line #2
 3801 GC1213
                       MOVE WS-Copyright-TXT
                          WRITE F-Listing-96-REC FROM SPACES BEFORE 1 *> Spaces After FF Character
 3842 GC1213
                      TO F-Listing-96-REC
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Chapter GCic

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ACS Cobol Xref v2.02.04
                                  Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:06
                                                                                                     Page
 3843 GC1213
                            WRITE F-Listing-96-REC BEFORE 1 *> Page Header Line #2
 3844 GC1213
                           MOVE 'Line Statement'
 3845 GC1213
                            TO F-Listing-96-REC
 3846 GC1213
                           MOVE WS-Page-No-TXT
 3847 GC1213
                             TO F-Listing-96-REC(87:10)
 3848 GC1213
                            WRITE F-Listing-96-REC BEFORE 1 *> Page Header Line #3
 3849 GC1213
                           MOVE WS-Src-Dashes-TXT
 3850 GC1213
                              TO F-Listing-96-REC
                            WRITE F-Listing-96-REC BEFORE 1 *> Page Header Line #4
 3851 GC1213
 3852 GC1213
 3853 GC1213
                        COMPUTE WS-Lines-Left-NUM = WS-Lines-Per-Page-NUM - 4
 3854 GC1213 END-IF
 3855 GC1213 IF L-Listing-CD = 1 *> LANDSCAPE
                   EVALUATE WS-Src-Lines-NUM
 3856 GC1213
                      WHEN 1
 3857 GC1213
 3858 GC1213
                            MOVE WS-Src-Detail-Line-TXT TO F-Listing-135-REC
  3859 GC1213
                            WRITE F-Listing-96-REC BEFORE 1
  3860 GC1213
                            SUBTRACT 1 FROM WS-Lines-Left-NUM
  3861 GC1213
                      WHEN 2
                       MOVE WS-SDL-Statement-TXT TO WS-Src-Hold-TXT
  3862 GC1213
  3863 GC1213
                          MOVE WS-Src-Detail-Line-TXT TO F-Listing-135-REC
  3864 GC1213
                          WRITE F-Listing-135-REC BEFORE 1 *> Prints chars 1-128 of stmnt
  3865 GC1213
                          MOVE SPACES TO WS-Src-Detail-Line-TXT
  3866 GC1213
                          MOVE WS-Src-Hold-TXT(129:128) TO WS-SDL-Statement-TXT
 3867 GC1213
                           MOVE WS-Src-Detail-Line-TXT TO F-Listing-135-REC
 3868 GC1213
                            WRITE F-Listing-135-REC BEFORE 1 *> Prints chars 129-256 of stmnt
 3869 GC1213
                            SUBTRACT 2 FROM WS-Lines-Left-NUM
 3870 GC1213
                      END-EVALUATE
                  ELSE
 3871 GC1213
                                         *> PORTRAIT
 3872 GC1213 EVALUATE WS-Src-Lines-NUM
                  WHEN 1

WRITE F-Listing-50

BEFORE 1

SUBTRACT 1 FROM WS-Lines-Left-NUM

WHEN 2 *> Print only chars 1-89 and 90-178 of text

MOVE WS-SDL-Statement-TXT TO WS-Src-Hold-TXT

WRITE F-Listing-96-REC FROM WS-Src-Detail-Line

BEFORE 1

- CDACES TO WS-Src-Detail-Line-TXT

TOO.89) TO WS-SDL-Statemen
 3873 GC1213
                       WHEN 1 *> Print only chars 1-89 of stmnt
 3874 GC1213
                            WRITE F-Listing-96-REC FROM WS-Src-Detail-Line-TXT
 3875 GC1213
 3876 GC1213
 3877 GC1213
 3878 GC1213
 3879 GC1213
                          WRITE F-Listing-96-REC FROM WS-Src-Detail-Line-TXT
  3880 GC1213
                        MOVE SPACES TO WS-Src-Detail-Line-TXT
MOVE WS-Src-Hold-TXT(90:89) TO WS-SDL-Statement-TXT
  3881 GC1213
  3882 GC1213
  3883 GC1213
                          WRITE F-Listing-96-REC FROM WS-Src-Detail-Line-TXT
  3884 GC1213
                                BEFORE 1
  3885 GC1213
                          SUBTRACT 2 FROM WS-Lines-Left-NUM
                     WHEN 3 *> Print chars 1-89, 90-178 and 179-256 of stmnt
  3886 GC1213
                     MOVE WS-SDL-Statement-TXT TO WS-Src-Hold-TXT
  3887 GC1213
  3888 GC1213
                           WRITE F-Listing-96-REC FROM WS-Src-Detail-Line-TXT
                      BEFORE 1

MOVE SPACES TO WS-Src-Detail-Line-TXT

MOVE WS-Src-Hold-TXT(90:89) TO WS-SDL-Statement-TXT

WRITE F-Listing-96-RFC FROM US G. 2
  3889 GC1213
 3890 GC1213
 3891 GC1213
                          WRITE F-Listing-96-REC FROM WS-Src-Detail-Line-TXT
 3892 GC1213
 3893 GC1213
                                BEFORE 1
                        MOVE SPACES TO WS-Src-Detail-Line-TXT
 3894 GC1213
 3895 GC1213
                           MOVE WS-Src-Hold-TXT(179:78) TO WS-SDL-Statement-TXT
 3896 GC1213
                           WRITE F-Listing-96-REC FROM WS-Src-Detail-Line-TXT
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28 September 2024 Chapter GCic

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ACS Cobol Xref v2.02.04 Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:06 Page 98

3897 GC1213 BEFORE 1
3898 GC1213 SUBTRACT 3 FROM WS-Lines-Left-NUM
3899 GC1213 END-EVALUATE
3900 GC1213 END-IF
3901 MOVE SPACES TO WS-Src-Detail-Line-TXT
3902 .
3903
3904 END PROGRAM LISTING.
3905 *>>>Info: Total Copy Depth Used = 02; Caution messages issued = 1
```

ACS Cobol Xref v2.02.04 Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:07 Page 99 Symbols of Module: GCIC (LISTING)

Data Section (FILE)	Defn	Locations	
			
F-ES-1-7-TXT	001631F	002776 003662	
F-ES-1-CHR	001628F	002777 003663	
F-ES-2-256-TXT-256	001629F	002920 003675	
F-ES-8-256-TXT	001632F		
F-EXPANDED-SRC-FILE	001617F	001626 002709 002756 002766 003653 003656 003671 0036	384
F-EXPANDED-SRC-REC	001627F	002710 002764 002788 002790 002820 002824 002833 0028	337
		002846 002850 002858 002876 002961 002966 003727 0037	729
F-EXPANDED-SRC2-REC	001630F		
F-LISTING-135-REC	001636F	003559 003561 003563 003564 003566 003567 003570 0035	
		003573 003574 003575 003576 003577 003578 003579 0036	307
		003619 003621 003622 003624 003626 003628 003630 0036	331
		003775 003777 003779 003780 003782 003784 003785 0037	786
		003816 003818 003820 003821 003823 003824 003826 0038	
		003829 003831 003832 003858 003863 003864 003867 0038	
F-LISTING-96-REC	001635F	003582 003584 003586 003587 003589 003590 003593 0035	
		003596 003597 003598 003599 003600 003601 003602 0036	
		003634 003636 003637 003639 003641 003643 003645 0036	
		003792 003794 003795 003797 003799 003800 003802 0038	
		003805 003806 003835 003837 003839 003840 003842 0038	343
		003845 003847 003848 003850 003851 003859 003874 0038	379
		003883 003888 003892 003896	
F-LISTING-FILE	001619F	001634 002613 002621	
F-LISTING-REC	001637F		
F-ORIGINAL-SRC-FILE	001621F	001639 003652 003670 003694	
F-ORIGINAL-SRC-REC	001640F	003698	
F-0S-1-128-TXT	001641F		
F-0S-129-256-TXT	001646F		
F-OS-7-CHR	001643F	003703	
F-0S-8-72-TXT	001644F	003699 003731	
F-SORT-WORK-FILE	001623F	001648 002615 003478	
F-SORT-WORK-REC	001649F	002731 002733 002768 002770 003248 003251 003254 0032	
		003299 003304 003307 003328 003330 003333 003416 0034	123
- a., b	0040545	003428 003433 003437 003447 003457 003461	
F-SW-DEF-LINE-NUM		003421 003504 003512 003516 003528 003529	
F-SW-PROG-ID-TXT	001650F	002616 003417 003438 003448 003462 003489 003495 0035	200
E GU DEE ELAG GUD	004.0575	003509 003521 003525	
F-SW-REF-FLAG-CHR	001657F	003253 003298 003306 003332 003443 003467 003540	
F-SW-REF-LINE-NUM		002618 003422 003442 003452 003466 003538	
F-SW-REFERENCE-TXT	001655F	003532	
F-SW-SECTION-TXT	001653F	003420 003441 003451 003465 003511 003527	
F-SW-TOKEN-TXT	001652F	003419 003440 003450 003464 003526	-00
F-SW-TOKEN-UC-TXT	001651F	002617 003418 003439 003449 003463 003490 003501 0035 003515)U3
L-LISTING-FN-TXT	001619F	002593 002605	
L-SRC-FN-TXT	001621F	002595 002606 002642 002643 002645 002650 002654 0026	366
WS-EXPANDED-SRC-FN-TXT	001617F	002667 002669 002671 002676 001697 002684 002685	
III IIIDDD DIW IN INI	3010111	002001 002000	

ACS Cobol Xref v2.02.04 Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:07 Page 100 Symbols of Module: GCIC (LISTING)

Data Section (WORKING-STORAGE)	Defn +		
UC CD IN DATA DIU DOOI	00167411	000744	
WS-CD-IN-DATA-DIV-BOOL WS-CD-IN-ENV-DIV-BOOL	001674W 001673W		
WS-CD-IN-ENV-DIV-BOOL WS-CD-IN-IDENT-DIV-BOOL			
WS-CD-IN-IDENI-DIV-BOOL WS-CD-IN-PROC-DIV-BOOL			
		002631 002637 003623 003638 003781 003801	
WS-COPYRIGHT-TXT WS-CPI-13-15-TXT			
	001681W 001682W		
WS-CPI-16-CHR		003031 002954	
WS-CS-1-CHR WS-CS-11-14-TXT	001685W	002956 002957	
	001688W 001689W		
WS-CS-15-CHR WS-CS-2-14-TXT			
		002955	
WS-CURR-CHAR-IS-PUNCT-BOOL		002799 002807 002812	
WS-CURR-CHAR-IS-QUOTE-BOOL		002818	
WS-CURR-CHAR-IS-X-BOOL	001668W		
WS-CURR-CHAR-IS-Z-BOOL	001669W		
WS-CURR-CHR		002789 002792 002794 002800 002808 002814 002821	070
WS-CURR-DIVISION-TXT	0016/18	002714 002750 002801 002809 002909 003025 003044 0030	370
	0040000	003126 003131	
WS-CURR-LINE-NUM	001677W	002713 002773 002932 002972 003421 003442 003452 003	466
		003693	
WS-CURR-PROG-ID-TXT		002703 003030 003417 003438 003448 003462	
WS-CURR-SECTION-TXT	001684W	002935 002940 003049 003075 003121 003122 003420 003- 003451 003465	441
WS-CURR-VERB-TXT	001691W	002704 002728 002752 003136 003145	
WS-DELIM-TXT	001693W	002861 002863 002881 002883 002886	
WS-DUMMY-TXT	001695W	002679 002924 002953 002986 002991 002992 003679	
WS-EXPANDED-SRC-FN-TXT	001697W	002684 002685	
WS-FILENAME-TXT	001699W	002678 002681 002952 002955	
WS-FLAGS-TXT	001701W		
WS-FORMATTED-DT	001704W	002702 003562 003585 003819 003838	
WS-GI-PROG-ID-TXT	001707W	003489 003495 003500	
WS-GI-TOKEN-TXT	001708W	003490 003501 003503 003515	
WS-GROUP-INDICATORS-TXT	001706W	003473	
WS-HELD-REFERENCE-TXT	001710W	002705 002730 002731 002732 002767 002768 002769 003	248
		003250 003251 003252 003289 003295 003296 003297 003	303
		003304 003305 003328 003330 003331	
WS-I-SUB	001712W	002643 002646 002649 002653 002669 002672 002673 0026	676
		002929 002932 002943 002946 002947 002950 003474 003	508
		003520 003533 003534 003536 003539 003541 003614	
WS-J-SUB	001714W	002670 002674 002944 002948	
WS-LINES-LEFT-NUM	001716W	003475 003484 003498 003550 003604 003615 003659 003	706
		003710 003737 003771 003853 003860 003869 003876 003	885
		003898	
WS-LINES-PER-PAGE-ENV-TXT	001720W	002659 002663 002690 002691	
WS-LINES-PER-PAGE-NUM		002692 002695 002697 002700 003604 003853	
WS-MAIN-MODULE-NAME-TXT	001722W	002650 002655 002931 003681	
WS-NEXT-CHAR-IS-QUOTE-BOOL		002831 002844	
WS-NEXT-CHR		002791 002834 002847	
WS-OS-TYPE-FILLER-TXT	001727W		

Chapter GCic

ACS Cobol Xref v2.02.04 Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:07 Page 101 Symbols of Module: GCIC (LISTING)

Data Section (WORKING-STORAGE)	Defn +	Locatio	ons						
WS-OS-TYPE-TXT	001734W	002633							
WS-OS-TYPES-TXT	001734W	002033							
WS-PAGE-NO-TXT	001733W	003556	002571	003504	003635	003640	002702	003003	002012
MD LAGE NO IXI	001733W	003330		003334	003023	003040	003703	003003	003013
WS-PAGE-NUM	001737W			003554	003772	003809	003811		
WS-PN-LITERAL-TXT	001737W			000004	000112	000000	003011		
WS-PN-PAGE-NUM	001710W	003554		003811	003812				
WS-PROGRAM-PATH-TXT	001711W			003565		003822	003841		
WS-RESERVED-WORD-TABLE-TXT	002500W	002001	002000	000000	000000	000022	000011		
WS-RESERVED-WORD-TXT	002501W	002896							
WS-RESERVED-WORDS-TXT		002500							
WS-RS-DUPLICATE-CHR	002509W	003476	003491	003506	003517	003518			
WS-RS-IN-COPYBOOK-BOOL		002938		000000	000011	000010			
WS-RS-IN-MAIN-MODULE-BOOL	002511W	002933		003682	003692				
WS-RS-IN-WHICH-PGM-CHR	002510W	002000	0020.1	***************************************	***************************************				
WS-RS-LAST-TOKEN-ENDED-SENT-CHR		002762	002908						
WS-RS-PROCESSING-PICTURE-CHR	002514W			003080					
WS-RS-TOKEN-ENDED-SENTENCE-CHR					002796	002825	002838	002851	002864
		002884							
WS-RS-VERB-HAS-BEEN-FOUND-CHR	002516W	002715	002900	003022					
WS-RUNTIME-SWITCHES	002508W								
WS-RW-IDX	002504W	002897	002898						
WS-RW-TYPE-CD	002505W	002898							
WS-RW-WORD-TXT	002503W	002506	002897						
WS-SAVED-SECTION-TXT	002518W	002934	002935	002939	002940				
WS-SDL-LINE-NUM	002525W	003697							
WS-SDL-STATEMENT-TXT	002527W	003698	003730	003760	003764	003766	003862	003866	003878
		003882	003887	003891	003895				
WS-SRC-DASHES-TXT	002520W	003830	003849						
WS-SRC-DETAIL-LINE-TXT	002524W	003657	003696	003704	003708	003713	003717	003721	003728
		003740	003744	003748	003858	003863	003865	003867	003874
		003879	003881	003883	003888	003890	003892	003894	003896
		003901							
WS-SRC-HOLD-TXT	002529W	003862	003866	003878	003882	003887	003891	003895	
WS-SRC-LINE-NUM	002531W	003654	003683	003695	003697				
WS-SRC-LINES-NUM	002533W	003758	003761	003765	003767	003771	003774	003788	003856
		003872							
WS-SRC-SUB	002535W	002711	002764	002765	002784	002788	002790	002793	002802
								002836	
						002852	002862	002865	002882
				002967					
WS-SUPPRESS-FF-CHR	001702W			003627					
WS-TALLY-QTY	002537W	003001							
WS-TEMP-10-CHARS-TXT		002922							
WS-TEMP-256-CHARS-TXT	002549W	002686				002945	002950	003678	003680
WS-TEMP-32-CHARS-1-TXT	002541W					00000	00000	00001-	
WS-TEMP-32-CHARS-2-TXT	002543W								
WS-TEMP-32-CHARS-3-TXT	002545W								000705
WS-TEMP-65-CHARS-TXT	002547W	003700	003701	003707	003712	003716	003720	003732	003733

ACS Cobol Xref v2.02.04 Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:07 Page 102 Symbols of Module: GCIC (LISTING)

Data Section (WORKING-STORAGE)	Defn	Locations	
	+		
		003736 003739 003743 003747	
WS-TODAY-DT	002551W	002701 002702	
WS-TOKEN-CURR-TXT	002553W	002721 002725 002794 002803 002814 002822 002835 00)2848
		002860 002867 002880 002890 002892 002910 002977 00)3024
		003030 003043 003048 003069 003074 003078 003112 00)3130
		003419 003440 003450 003464	
WS-TOKEN-CURR-UC-TXT	002555W	002722 002725 002728 002747 003124 003418 003439 00)3449
		003463	
WS-TOKEN-PREV-TXT	002557W	002729 002747 002751 002810 003025 003028 003029 00)3044
		003049 003053 003070 003075 003084 003085 003089 00)3092
		003095 003098 003101 003104 003107 003110 003125 00	
		003135 003139 003192 003195 003202 003213 003216 00	
		003236 003245 003273 003286 003290 003293 003301 00)3309
		003316 003325 003341 003344 003347 003354 003363 00)3374
		003389 003392 003399	
WS-TOKEN-SEARCH-TXT	002559W	002890 002891 002897	
WS-TOKEN-TYPE-CD	002561W	002795 002804 002815 002868 002872 002893 002898 00)2911
WS-TT-TOKEN-IS-ARGTYPE-BOOL	002562W	003019 003039 003065	
WS-TT-TOKEN-IS-EOF-BOOL	002563W	002718 002772	
WS-TT-TOKEN-IS-FUNCTION-BOOL	002564W	003059	
WS-TT-TOKEN-IS-IDENTIFIER-BOOL	002565W	002905 003052 003088 003134 003142	
WS-TT-TOKEN-IS-KEYWORD-BOOL	002566W	002723 002746 003023 003042 003047 003068 003073 00)3079
		003129	
WS-TT-TOKEN-IS-LIT-ALPHA-BOOL	002567W	002828 002854	
WS-TT-TOKEN-IS-LIT-NUMBER-BOOL			
WS-TT-TOKEN-IS-RESERVED-WD-BOOL	002570W	002724 003020 003040 003066 003083	
WS-TT-TOKEN-IS-VERB-BOOL	002569W	002727 002899	
WS-USERNAMES-QTY	002572W	002712	
WS-VERSION-TXT	002574W	002641 003558 003581 003815 003834	
WS-XDL-DEF-LINE-NUM	002581W	003512 003529	
WS-XDL-PROG-ID-TXT		003509 003521 003525	
WS-XDL-REF-FLAG-CHR	002587W	003541	
WS-XDL-REF-LINE-NUM	002586W	003539	
	002585W		
WS-XDL-SECTION-TXT		003511 003527	
	002579W	003510 003522 003526	
WS-XREF-DETAIL-LINE-TXT	002576W	003472 003479 003482 003492 003496 003505 003524 00)3544
		003607 003610 003613	
WS-XREF-LINES-PER-REC-NUM	002590W	002658 002662 003534	

ACS Cobol Xref v2.02.04

Chapter GCic

Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:07 Page 103

 WS-CURR-CHR
 WS-CURR-CHAR-IS-PUNCT-BOOL

 WS-CURR-CHR
 WS-CURR-CHAR-IS-QUOTE-BOOL

 WS-CURR-CHR
 WS-CURR-CHAR-IS-X-BOOL

 WS-CURR-CHR
 WS-CURR-CHAR-IS-Z-BOOL

 WS-CURR-DIVISION-TXT
 WS-CD-IN-IDENT-DIV-BOOL

 WS-CURR-DIVISION-TXT
 WS-CD-IN-ENV-DIV-BOOL

 WS-CURR-DIVISION-TXT
 WS-CD-IN-PROC-DIV-BOOL

 WS-NEXT-CHR
 WS-NEXT-CHAR-IS-QUOTE-BOOL

 WS-RS-IN-WHICH-PGM-CHR
 WS-RS-IN-MAIN-MODULE-BOOL

 WS-RS-IN-WHICH-PGM-CHR
 WS-RS-IN-COPYBOOK-BOOL

 WS-TOKEN-TYPE-CD
 WS-TT-TOKEN-IS-ARGTYPE-BOOL

 WS-TOKEN-TYPE-CD
 WS-TT-TOKEN-IS-FUNCTION-BOOL

 WS-TOKEN-TYPE-CD
 WS-TT-TOKEN-IS-IDENTIFIER-BOOL

 WS-TOKEN-TYPE-CD
 WS-TT-TOKEN-IS-LIT-ALPHA-BOOL

 WS-TOKEN-TYPE-CD
 WS-TT-TOKEN-IS-LIT-NUMBER-BOOL

 WS-TOKEN-TYPE-CD
 WS-TT-TOKEN-IS-LIT-NUMBER-BOOL

 WS-TOKEN-TYPE-CD
 WS-TT-TOKEN-IS-LIT-NUMBER-BOOL

 WS-TOKEN-TYPE-CD
 WS-TT-TOKEN-IS-RESERVED-WD-BOOL

28 September 2024

ACS Cobol Xref v2.02.04 Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:07 Page 105 Symbols of Module: GCIC (LISTING)

Variable Tested Symbol (88-Conditions) [S]

Variable Tested	Symbol (88-Conditions) [S]
WS-CURR-DIVISION-TXT	WS-CD-IN-DATA-DIV-BOOL
WS-CURR-DIVISION-TXT	WS-CD-IN-ENV-DIV-BOOL
WS-CURR-DIVISION-TXT	WS-CD-IN-IDENT-DIV-BOOL
WS-CURR-DIVISION-TXT	WS-CD-IN-PROC-DIV-BOOL
WS-CURR-CHR	WS-CURR-CHAR-IS-PUNCT-BOOL
WS-CURR-CHR	WS-CURR-CHAR-IS-QUOTE-BOOL
WS-CURR-CHR	WS-CURR-CHAR-IS-X-BOOL
WS-CURR-CHR	WS-CURR-CHAR-IS-Z-BOOL
WS-NEXT-CHR	WS-NEXT-CHAR-IS-QUOTE-BOOL
WS-RS-IN-WHICH-PGM-CHR	WS-RS-IN-COPYBOOK-BOOL
WS-RS-IN-WHICH-PGM-CHR	WS-RS-IN-MAIN-MODULE-BOOL
WS-TOKEN-TYPE-CD	WS-TT-TOKEN-IS-ARGTYPE-BOOL
WS-TOKEN-TYPE-CD	WS-TT-TOKEN-IS-EOF-BOOL
WS-TOKEN-TYPE-CD	WS-TT-TOKEN-IS-FUNCTION-BOOL
WS-TOKEN-TYPE-CD	WS-TT-TOKEN-IS-IDENTIFIER-BOOL
WS-TOKEN-TYPE-CD	WS-TT-TOKEN-IS-KEYWORD-BOOL
WS-TOKEN-TYPE-CD	WS-TT-TOKEN-IS-LIT-ALPHA-BOOL
WS-TOKEN-TYPE-CD	WS-TT-TOKEN-IS-LIT-NUMBER-BOOL
WS-TOKEN-TYPE-CD	WS-TT-TOKEN-IS-RESERVED-WD-BOOL
WS-TOKEN-TYPE-CD	WS-TT-TOKEN-IS-VERB-BOOL

Chapter GCic 28 September 2024

002641P

002635P

ACS Cobol Xref v2.02.04 Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:07 Page 106 Symbols of Module: GCIC (LISTING) -----Functions Defn Locations ______ 003699I 003731 LOWER-CASE 002691I 002929 NUMVAL 002642I 002669 002681 002930 002931 002942 003680 003681 003699 TRIM 003731 002650I 002654 002721 002867 002890 002930 003680 UPPER-CASE ACS Cobol Xref v2.02.04 Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:07 Page 107 Symbols of Module: GCIC (LISTING) Type Locations Called Procedures C\$JUSTIFY SYSTEM 002668 003555 003556 003812 003813 CBL_CHECK_FILE_EXIST SYSTEM 002685 ACS Cobol Xref v2.02.04 Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:07 Page 108 Symbols of Module: GCIC (LISTING) Procedure Defn Locations ______

COMP-VERS

COMP-YEAR

ACS Cobol Xref v2.02.04 Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:07 Page 109

Symbols of Module: GCIC (LISTING)

Unreferenced Working Storage Symbols

CBL_CHECK_FILE_EXIST	002685C
F-ES-8-256-TXT	001632F
F-EXPANDED-SRC2-REC	001630F
F-LISTING-REC	001637F
F-0S-1-128-TXT	001641F
F-0S-129-256-TXT	001646F
WS-FLAGS-TXT	001701W
WS-OS-TYPES-TXT	001733W
WS-RESERVED-WORD-TABLE-TXT	002500W
WS-RS-IN-WHICH-PGM-CHR	002510W
WS-RUNTIME-SWITCHES	002508W
WS-XDL-REFERENCE-TXT	002585W

ACS Cobol Xref v2.02.04 Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:07 Page 110

Symbols of Module: GCIC (LISTING)

Unreferenced Procedures

COMP-VERS 002641P COMP-YEAR 002635P

Chapter GCic 28 September 2024

6 STREAMIO

STREAMIO is a utility I created to assist with handling stream I/O functions. I've used it to construct a number of useful little command-line utilities.

Usage of this subroutine is completely documented in the program comments. The program COPY's a copybook named STREAMIOcb, the format of which is described in the program comments.

Both STREAMIO.cbl and STREAMIOcb.cpy are included in the "samples" directory of any pre-built distributions of GnuCOBOL that I have created.

In addition to general GnuCOBOL concepts, this program provides a useful demonstration of the following:

- Coding a GnuCOBOL subroutine
- Using the REPLACING clause on a CDF COPY statement
- Using hexadecimal alphanumeric literals
- Using the following statements:
 - o ACCEPT FROM ENVIRONMENT statement
 - o INSPECT statement
 - o STRING statement
- Using the following built-in subroutines:
 - o C\$PARAMSIZE built-in system subroutine
 - o CBL_CLOSE_FILE built-in system subroutine
 - o CBL_DELETE_FILE built-in system subroutine
 - o CBL_EXIT_PROC built-in system subroutine
 - o CBL_OPEN_FILE built-in system subroutine
 - o CBL_READ_FILE built-in system subroutine
 - o CBL_WRITE_FILE built-in system subroutine
- Using the following intrinsic functions:
 - o RANDOM intrinsic function
 - o TRIM intrinsic function

First, here is the STREAMIOcb.cpy copybook:

```
      05
      SCB-Handle-NUM
      PIC X(4) COMP-X.

      05
      SCB-Mode-CD
      PIC X(1).

      88
      SCB-MODE-Input-BOOL
      VALUE 'I', 'i'.

      88
      SCB-MODE-Output-BOOL
      VALUE 'O', 'o'.

      88
      SCB-MODE-Both-BOOL
      VALUE 'B', 'b'.

      05
      SCB-Function-CD
      PIC X(2).

      88
      SCB-Func-CLOSE-BOOL
      VALUE 'C', 'c'.

      88
      SCB-Func-DELETE-BOOL
      VALUE 'D', 'd'.

      88
      SCB-Func-OPEN-BOOL
      VALUE 'O', 'o'.

      88
      SCB-Func-READ-BOOL
      VALUE 'RD', 'rd',

      88
      SCB-Func-WRITE-BOOL
      VALUE 'RD', 'rd',

      88
      SCB-Func-WRITE-BOOL
      VALUE 'W', 'w'.

      88
      SCB-Delimiter-Mode-CD
      PIC X(1).

      88
      SCB-DELIM-Unix-BOOL
      VALUE 'W', 'w'.

      88
      SCB-DELIM-Windows-BOOL
      VALUE 'W', 'w'.

      95
      SCB-Error-Routine-PTR
      USAGE PROGRAM-POINTER.

      95
      SCB-Error-Routine-PTR
      USAGE BINARY-LONG.

      95
      SCB-Return-CD
      USAGE BINARY-LONG.

      95
      SCB-Filename-TXT
      PIC X(256).
```

The program source and cross-reference listing, produced using the GnuCOBOL Interactive Compiler front-end (GCic.cbl, one of the sample programs included here), begins on the next page.

GNU COBOL 2.1 23NOV2013 Source Listing

2014/03/27 C:/Users/tda010/Documents/Programs/Samples/STREAMIO.cbl

	tatement	Page: 1
1	>>SOURCE FORMAT IS FIXED	
2	IDENTIFICATION DIVISION.	
3	PROGRAM-ID. STREAMIO.	
4	*>******************	**
5	*> Author: Gary L. Cutler	**
6	•	**
7	*> This routine centralizes all bytestream file I/O functions	**
8	*> into one routine. The manner in which this routine is	**
9	*> CALLed is as follows:	**
10	*>	**
11	*> CALL "STREAMIO" USING control-block [, arg2]	**
12	*>	**
13	*> where 'control-block' is defined by the "STREAMIOcb.cpy"	**
14		**
15		**
16	*>	**
17	*> The STREAMIO routine has an advantage over the various	**
18		**
19		**
20	*> 1. It automates the establishment and on-going adjustment of	**
21		**
22	*> sequential processing of a bytestream file (you may still :	**
23		**
24		**
25	·	**
26	*> 2. It auto-detects the size of the I/O buffer you supply to	**
27		**
28		**
29		**
30	*> 3. Not only does it support the raw input and output of data	**
31		**
32		**
33		**
34		**
35		**
36	*> 4. On output, STREAMIO can optionally append either a new-	**
37	*> line or carriage-return/newline sequence (your choice) to	**
38		**
39	•	**
40	*> 5. STREAMIO can automatically generate filenames for output	**
41		**
42		**
43		**
44		**
45		**
46		**
47		**
48	*> This routine can be "turned on" and "turned off" at will.	**

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GNU COBOL 2.1 23NOV2013 Source Listing

C:/Users/tda010/Documents/Programs/Samples/STREAMIO.cbl
Line Statement Page: 2

```
*> The control block format is as follows. This structure must **
          *> be defined under an O1-level data item of your creation and **
          *> should be INITIALIZEd before any items within it are used.
52
53
        *> 05 SCB-Handle-NUM PIC X(4) COMP-X.

*> 05 SCB-Mode-CD PIC X(1).

*> 88 SCB-Mode-Input-BOOL VALUE 'I', 'i'.

*> 88 SCB-Mode-Output-BOOL VALUE 'O', 'o'.

*> 88 SCB-Mode-Both-BOOL VALUE 'B', 'b'.

*> 05 SCB-Function-CD PIC X(2).

*> 88 SCB-Func-CLOSE-BOOL VALUE 'C', 'c'.

*> 88 SCB-Func-DELETE-BOOL VALUE 'D', 'd'.

*> 88 SCB-Func-OPEN-BOOL VALUE 'D', 'd'.

*> 88 SCB-Func-READ-BOOL VALUE 'N', 'r'.

*> 88 SCB-Func-READ-BOOL VALUE 'R', 'r'.

*> 88 SCB-Func-READ-Delim-BOOL VALUE 'R', 'r'.
          *> 05 SCB-Handle-NUM
                                                        PIC X(4) COMP-X.
54
55
                                                                                       **
56
57
                                                                                       **
58
                                                                                       **
59
                                                                                       **
60
                                                                                       **
61
62
                                                                                       **
63
                                                                                       **
64
                                                                                       **
        65
66
67
70
71
72
73
          *> 05 SCB-Error-Routine-NUM REDEFINES SCB-Error-Routine-PTR
74
75
                                     USAGE BINARY-LONG.
76
         *> 05 SCB-Return-CD
         *> 05 SCB-Filename-TXT
                                                       USAGE BINARY-LONG.
77
                                                       PIC X(256).
78
          *>
79
          *> Such a structure is defined for your use using the copybook **
80
          *> "STREAMIOcb.cpy" (you may also define your own, provided it **
81
          *> conforms to the above layout).
82
          *> SCB-Handle-NUM
83
84
85
          *>
86
          *> Serves as a file handle to the file once it has been opened **
          *> (via the "SCB-Func-OPEN-BOOL" function).
87
88
89
90
          *> SCB-Mode-CD
91
92
          *>
          *> Prior to calling "STREAMIO" for the first time for a file,
93
          *> the appropriate subordinate level-88 must be set to TRUE to **
          *> select an I/O mode. You may also simply move one of the **
96
          *> string values listed on the level-88 items to "SCB-Mode-CD". **
97
          *>
```

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GNU COBOL 2.1 23NOV2013 Source Listing

	atement ======		Paو
99		SCB-Function-CD	**
100			-**
101	*>		**
102		The appropriate subordinate level-88 must be set to TRUE to	
103		select a function you'd like to execute against a file. You	
104		may also simply move one of the string values listed on the	**
105		level-88 items to "SCB-Function-CD".	**
106	*>		**
107		Available functions are as follows:	**
108	*>		**
109		SCB-Func-OPEN-BOOL	**
110	*>		**
111	*>	This must be the function specified the first time you	**
112	*>	call STREAMIO for any given file. It opens the file &	**
113	*>	makes it available for use according to the	**
114	*>	"SCB-Mode-CD" specification.	**
115	*>		**
116	*>	The filename being opened must be specified in the	**
117	*>	"SCB-Filename-TXT" field.	**
118	*>		**
119	*>	The SCB-Offset-NUM field will be initialized to ZERO.	**
120	*>		**
121	*>	If "arg2" is specified in conjunction with this funct-	**
122	*>	ion, it will be ignored.	**
123	*>		**
124	*> 5	SCB-Func-CLOSE-BOOL	**
125	*>		**
126	*>	This function should be the one specified the LAST time	**
127	*>	you call STREAMIO against a specific file. After this	**
128	*>	function has been executed, you'll have to re-open the	**
129	*>	file if you wish to use it with STREAMIO again.	**
130	*>		**
131	*>	The SCB-Handle-NUM item will be reset to ZERO.	**
132	*>		**
133	*>	If "arg2" is specified in conjunction with this funct-	**
134	*>	ion, it will be ignored.	**
135	*>		**
136	*> 2	SCB-Func-DELETE-BOOL	**
137	*>		**
138	*>	This function will delete the file specified in the	**
139	*>	control block (see SCB-Filename-TXT).	**
140	*>		**
141	*>	This function should not be performed against a file	**
142	*>	that is open.	**
143	*>	-	**
144	*>	If "arg2" is specified in conjunction with this funct-	**
145	*>	ion, it will be ignored.	**
146	*>	Č	**
147	*> 9	SCB-Func-READ-BOOL	**

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Page: 3

GNU COBOL 2.1 23NOV2013 Source Listing

2014/03/27 C:/Users/tda010/Documents/Programs/Samples/STREAMIO.cbl

Line	Statement	C:/Users/tda010/Documents/Programs/	Samples/STREAMIU.cbl Page: 4
=====	========		
148	*>		**
149	*>	This function invokes a standard CBL_READ_FILE against	**
150	*>	the file specified in the control block (see	**
151		SCB-Filename-TXT).	**
152		,	**
153		The buffer into which you wish to read data must be	**
154		supplied as "arg2". The size of that buffer, in bytes,	**
155	*>	will define the "byte-count" value supplied to the	**
156		CBL_READ_FILE subroutine. The buffer data item will be	**
157		set to SPACES before the read takes place.	**
158	*>	F	**
159	*>	If the file-offset value (SCB-Offset-NUM) is greater	**
160	*>	than the size of the file, a "no more data" return code	**
161	*>	(01) will be passed back in SCB-Return-CD and the	**
162		buffer will have been set to SPACES.	**
163		builds will have been bet to bi hold.	**
164		At the conclusion of a successful SCB-Func-READ-BOOL,	**
165	*>	the value of SCB-Offset-NUM will have been automati-	**
166	*>	cally incremented by the byte-count size of "arg2".	**
167	*>	carry incremented by the byte count size or argz.	**
168		CB-Func-WRITE-BOOL	**
169		CD Func with book	**
170		This function invokes a standard CRI WRITE FILE against	
170	*>	This function invokes a standard CBL_WRITE_FILE against	**
171	*>	the file specified in the control block (see SCB-Filename-TXT).	**
172		SOB-FITEHAME-IXI).	**
173	*> *>	The buffer from which data will be written to the file	**
174	*>	must be supplied as "arg2". The size of that buffer,	**
176	*>	in bytes, will define the "byte-count" value supplied	**
177	*>	CBL_WRITE_FILE subroutine. The buffer data will be	**
178	*>		**
179		written to the file-offset position defined by the	**
180	*>	SCB-Offset-NUM value. You may specify "arg2" either	**
181	*>	as an actual alphanumeric data item or as an alpha- numeric literal.	**
182	*>	numeric literal.	**
	*>	If the file-offset velve (CCD-Offset-NUM) is greater	**
183		If the file-offset value (SCB-Offset-NUM) is greater than the size of the file, a "no more data" return code	
184			**
185	*> *>	will be passed back in SCB-Return-CD and the buffer	**
186		will have been set to SPACES.	
187	*>	At the constraint of a consequent CCD Form UDITE DOOR	**
188	*>	At the conclusion of a successful SCB-Func-WRITE-BOOL	**
189		operation, the value of SCB-Offset-NUM will have been	**
190		automatically incremented by the byte-count size of	**
191		"arg2".	**
192		CD F DEAD Delim DOOL	**
193		CB-Func-READ-Delim-BOOL	**
194		COD Euro DEAD Dollar DOOL believe 121- 41- COD EURO	**
195		SCB-Func-READ-Delim-BOOL bahaves like the SCB-FUNC-	**
196	*>	READ function, with the following behavioral dif-	**

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C:/Users/tda010/Documents/Programs/Samples/STREAMIO.cbl

Line	Statement	t	Page: 5
197	· · *>	ferences:	**
198	*>		**
199	*>	1. When data is read from the file, only that data read	**
200	*>	up to BUT NOT INCLUDING an end-of-line delimiter	**
201	. *>	sequence (either a LF or CRLF) will be retained in	**
202	*	the buffer - the remainder of the buffer from the	**
203	*>	end-of-line sequence onward will be reset to SPACES.	**
204	*>	The file-offset value (SCB-Offset-NUM) will be in-	**
205	*>	cremented ONLY by the amount of data transferred up	**
206	*>	to AND INCLUDING the end-of-line sequence.	**
207	*>	•	**
208	*>	2. When data is read from the file and an end-of-line	**
209	*>	delimiter sequence (either a LF or a CRLF) cannot be	**
210	*>	found within the buffer, the assumption is made that	**
211	. *>	the record is too long to fit within the buffer. In	**
212	*>	these instances, an SCB-Return-CD value of 02 will	**
213	*>	be returned and the SCB-Offset-NUM value will be	**
214	*>	incremented past the next end-of-line sequence in	**
215	*>	the file (this will involve at least one additional	**
216	*>	call to CBL_READ_FILE to locate that eol sequence,	**
217	*>	but any additional such reads will be done internal-	**
218	*>	ly to STREAMIO and will be entirely transparent to	**
219	*>	the caller of STREAMIO.	**
220	*>		**
221	*>	DO NOT USE the Streamio-READ-Delim function if the	**
222	*>	possibility exists that linefeed (X"OA") or carriage-	**
223	*>	return (X"OD") characters could exist as actual data	**
224	*>	characters in the file.	**
225	*>		**
226	*>	SCB-Func-WRITE-Delim-BOOL	**
227	*>		**
228	*>	SCB-Func-WRITE-Delim-BOOL acts like the Streamio-	**
229	*>	FUNC-WRITE function, with the following difference:	**
230	*>		**
231	*>	After the specified data is written to the file, an	**
232	*	end-of-line sequence will also be written to the file.	**
233	*>	The file-offset value (SCB-Value) will be incremented	**
234	*>	by the byte-count size of the data PLUS the size of the	**
235	*>	end-of-line sequence. One of two possible end-of-line	**
236	*>	sequences must be specified using the value of SCB-	**
237	*>	Delimter-Mode.	**
238	*>		**
239	*>-		-**
240	*>	SCB-Delimiter-Mode-CD	**
241	*>-		-**
242	*>		**
243	*>	This data item is needed only when issuing the Streamio-	**
244		FUNC-WRITE-Delim function. In those circumstances, this	**
245		item defines what end-of-line delimiter sequence is to be	**
		•	

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2014/03/27 C:/Users/tda010/Documents/Programs/Samples/STREAMIO.cbl

```
_____
  246
           *> written:
  247
          *>
                                                                     **
          *> If SCB-Delim-Unix-BOOL is true, a linefeed character will
  248
                                                                     **
  249
           *> be written.
                                                                     **
  250
                                                                     **
  251
           *> If SCB-Delim-Windows-BOOL is true, a carriage-return and
                                                                     **
  252
           *> linefeed sequence will be written.
                                                                     **
  253
                                                                     **
  254
           *>-----
  255
           *> SCB-Offset-NUM
  256
  257
           *>
  258
          *> This data item specifies the next relative byte number with- **
  259
          *> in the file where the next read or write will start.
  260
                                                                     **
  261
           *> SCB-Offset-NUM is automatically set to 0 (the first byte)
                                                                     **
  262
           *> when the file is opened, and is automatically incremented as **
           *> the file is read or written via STREAMIO.
  263
  264
  265
           *> You may also manually set this value as desired before any **
  266
           *> call to STREAMIO.
  267
           *>-----**
  268
  269
           *> SCB-Error-Routine-PTR
  270
  271
           *>
  272
           *> To specify a general error-handling routine for handling
  273
           *> STREAMIO failures, Create the routine and define an entry-
  274
           *> name for it via the ENTRY statement. Then use the following **
  275
           *> to set that routine up as the error handler:
  276
           *>
                                                                     **
  277
           *>
                SET SCB-Error-Routine-PTR TO ENTRY "entry-name"
                                                                     **
  278
           *>
                                                                     **
  279
           *> To "turn off" the error-routine:
                                                                     **
  280
           *>
                                                                     **
  281
                SET SCB-Error-Routine-PTR TO NULL
          *>
                                                                     **
  282
           *>
                                                                     **
  283
           *> If a fatal error occurs (any error not marked with a ">" in
  284
           *> the SCB-Return-CD discussion), the error routine you spe-
                                                                     **
  285
           *> cified (if any) will be set up as an exit routine via the
  286
           *> CBL_EXIT_PROC subroutine; the STREAMIO routine will then is- **
  287
           *> sue a STOP RUN to intentionally trigger your error routine. **
  288
           *> You will not be able to recover your program once your error **
  289
           *> routine triggers. If you wish to be able to recover from
  290
           *> fatal STREAMIO errors, you should NOT use the SCB-Error-
           *> Routine feature but instead you should explicitly test the
  291
  292
           *> SCB-Return-CD value after every call to STREAMIO.
                                                                     **
  293
           *>
  294
           *> A default error routine is defined by the "STREAMIOError.cpy"**
```

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GNU COBOL 2.1 23NOV2013 Source Listing

2014/03/27 C:/Users/tda010/Documents/Programs/Samples/STREAMIO.cbl

Line	Statement	C:/Users/tda010/Documents/Programs/S	Page: 7
205		annybaalt	**
295 296		copybook.	**
296			
	=		**
298		SCB-Return-CD 	
299	•		
300		The fellowing one the moreible COD Deturn CD welver. The	**
301		The following are the possible SCB-Return-CD values. The ones marked with a ">" will NOT trigger an error-routine, if	**
302			**
303 304		one is currently registered via SCB-Error-Routine-PTR.	**
304		10 I/O orror uniting to file	**
306		,	**
307			**
308		> 02 READ-Delim was truncated	**
309		> 01 No more data is available from the current	**
310		SCB-Offset-NUM	**
310			**
312		> 00 OK - the operation was successful -1 Invalid SCB-Function-CD	**
313			**
313			**
314			**
316		-4 invalid delimiter mode specified (Not 0/W)	**
317			
318	•	SCB-Filename-TXT	**
319		POD_LITEHUME_1VI	
320			**
321		This is the name of the file you wish to access.	**
321		This is the name of the file you wish to access.	**
323		If you are planning on reading the file, the file MUST exist	
324		at the time the SCB-Func-OPEN-BOOL is executed.	**
325		at the time the bob rule of his book is executed.	**
326		If you are planning on writing to the file, the file need	**
327		exist when the SCB-Func-OPEN-BOOL is issued.	**
328		CAIDO WHEN ONE BOD Talle OTHIN BOOD ID IBBUCA.	**
329		In general, the contents of SCB-Filename-TXT should re-	**
330		flect the complete path to the file as well as the name of	**
331		the file itself, unless the file is contained in whatever	**
332		directory is current at the time the SCB-Func-OPEN-BOOL is	**
333		executed.	**
334			**
335		The following special values may be used for	**
336		SCB-Filename-TXT:	**
337			**
338		SPACES If the filename is SPACES, a filename will be created	**
339		automatically for you in whatever directory is de-	**
340		fined by the TEMP environment variable. If there IS	**
341		no TEMP variable defined, the "/tmp" folder will be	**
342		assumed. The filename will be STREAMIO-nnnnnnnn.dat	**
343		where "nnnnnnn" is a random number.	**

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C:/Users/tda010/Documents/Programs/Samples/STREAMIO.cbl Line Statement _____ 344 345 ***>** . If you specify only a dot (period) as the filename, ** 346 the behavior will be the same as with a value of *> ** 347 *> SPACES except there will be no ".dat" at the end of ** *> 348 the generated filename. ** *> 349 ** 350 $\star \!\!\! >$.ext $\,$ If you specify a filename extension prefixed with a ** *> dot (period), the behavior will be the same as if a 351 ** 352 value of SPACES were specified, except that the given ** *> 353 *> extension will be used instead of ".dat". Note that ** *> if you are using a Unix/Cygwin implementation of **

*> OpenCOBOL and you'd like to specify a hidden file in **

*> the current directory as the SCB-Filename-TXT, you **

*> MUST code the filename as "./.xxxxx" to avoid having **

*> it treated as this special name. ** 354 355 356 357 358 359 ** 360 361 ENVIRONMENT DIVISION. 362 CONFIGURATION SECTION. 363 REPOSITORY. 364 FUNCTION ALL INTRINSIC. DATA DIVISION.
WORKING-STORAGE SECTION. 365 366 PIC X(1) COMP-X.
PIC X(4) COMP-X.
PIC X(256).
PIC X(2).
PIC X(256).
PIC X(1).
USAGE BINARY-LONG 367 01 WS-Access-Mode-CD 01 WS-Arg-Length-NUM 368 369 01 WS-Buffer-TXT 01 WS-Delim-Buffer-TXT 370 371 01 WS-Env-Temp-TXT 01 WS-Slash-CHR 372 USAGE BINARY-LONG. 373 01 WS-Tally-NUM PIC 9(8). 374 01 WS-8-Digit-NUM 375 01 WS-256-Byte-TXT PIC X(256). 376 LINKAGE SECTION. 377 01 L-StreamIO-Control-Block-TXT. 378 COPY STREAMIOcb REPLACING LEADING ==SCB-== BY ==L-SCB-==. 379 05 L-SCB-Handle-NUM PIC X(4) COMP-X. 05 L-SCB-Mode-CD PIC X(1). 88 L-SCB-MODE-Input-BOOL VALUE 'I' 'i'. 88 L-SCB-MODE-Output-BOOL VALUE 'O' 'o'. 88 L-SCB-MODE-Both-BOOL VALUE 'B' 'b'. 05 L-SCB-Function-CD PIC X(2). 88 L-SCB-Func-CLOSE-BOOL VALUE 'C' 'c'. 88 L-SCB-Func-DELETE-BOOL VALUE 'D ' 'd '. 88 L-SCB-Func-OPEN-BOOL VALUE 'O ' 'o '. 88 L-SCB-Func-READ-BOOL VALUE 'R ' 'r '. 88 L-SCB-Func-READ-Delim-BOOL VALUE 'RD' 'rd' 'rD' 'Rd'. 88 L-SCB-Func-WRITE-BOOL VALUE 'W ' 'w '.

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```
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```

2014/03/27 C:/Users/tda010/Documents/Programs/Samples/STREAMIO.cbl

```
_____
       88 L-SCB-Func-WRITE-Delim-BOOL VALUE 'WD' 'wd'
       'wD' 'Wd'.
       05 L-SCB-Delimiter-Mode-CD PIC X(1).
       88 L-SCB-DELIM-Unix-BOOL VALUE 'U' 'u'.
       88 L-SCB-DELIM-Windows-BOOL VALUE 'W' 'w'.
       05 L-SCB-Offset-NUM PIC X(8) COMP-X.
       05 L-SCB-Error-Routine-PTR USAGE PROGRAM-POINTER.
       05 L-SCB-Error-Routine-NUM REDEFINES L-SCB-Error-Routine-PTR
       USAGE BINARY-LONG.
       05 L-SCB-Return-CD USAGE BINARY-LONG.
       05 L-SCB-Filename-TXT PIC X(256).
  380
            01 L-Arg2-TXT
                                                    PIC X ANY LENGTH.
  381
            PROCEDURE DIVISION USING L-StreamIO-Control-Block-TXT,
  382
                                    L-Arg2-TXT.
  383
            000-Main SECTION.
               MOVE 00 TO L-SCB-Return-CD
  384
  385
                EVALUATE TRUE
  386
                    WHEN L-SCB-Func-CLOSE-BOOL
  387
                        PERFORM 030-Validate-Handle-NonZero
  388
                        PERFORM 200-CLOSE
  389
                    WHEN L-SCB-Func-DELETE-BOOL
  390
                        CALL "CBL_DELETE_FILE" USING L-SCB-Filename-TXT
  391
                    WHEN L-SCB-Func-OPEN-BOOL
  392
                        PERFORM 020-Validate-Handle-Zero
  393
                        PERFORM 100-OPEN
  394
                    WHEN L-SCB-Func-READ-BOOL
  395
                        PERFORM 030-Validate-Handle-NonZero
  396
                        PERFORM 400-READ
  397
                    WHEN L-SCB-Func-READ-Delim-BOOL
  398
                        PERFORM 030-Validate-Handle-NonZero
  399
                        PERFORM 500-READ-Delim
  400
                    WHEN L-SCB-Func-WRITE-BOOL
                        PERFORM 030-Validate-Handle-NonZero
  401
  402
                        PERFORM 300-WRITE
  403
                    WHEN L-SCB-Func-WRITE-Delim-BOOL
  404
                        EVALUATE TRUE
  405
                            WHEN L-SCB-Delim-Unix-BOOL
  406
                                PERFORM 030-Validate-Handle-NonZero
  407
                                PERFORM 300-WRITE
  408
                                MOVE 1 TO WS-Arg-Length-NUM
  409
                                MOVE X"OA" TO WS-Delim-Buffer-TXT
  410
                            WHEN L-SCB-Delim-Windows-BOOL
  411
                                PERFORM 030-Validate-Handle-NonZero
  412
                                PERFORM 300-WRITE
  413
                                MOVE 2 TO WS-Arg-Length-NUM
  414
                                MOVE X"ODOA" TO WS-Delim-Buffer-TXT
  415
                           WHEN OTHER
  416
                                MOVE -4 TO L-SCB-Return-CD
  417
                                PERFORM 099-ERROR-Return
```

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C:/Users/tda010/Documents/Programs/Samples/STREAMIO.cbl Line Statement _____ 418 END-EVALUATE CALL "CBL_WRITE_FILE" USING L-SCB-Handle-NUM 419 420 L-SCB-Offset-NUM 421 WS-Arg-Length-NUM 422 423 WS-Delim-Buffer-TXT PERFORM 040-Check-WRITE-SCB-Return-CD 424 ADD WS-Arg-Length-NUM TO L-SCB-Offset-NUM 425 426 WHEN OTHER 427 MOVE -1 TO L-SCB-Return-CD 428 PERFORM 099-ERROR-Return 429 END-EVALUATE 430 GOBACK 431 432 020-Validate-Handle-Zero SECTION. IF L-SCB-Handle-NUM NOT = ZERO 433 434 MOVE 10 TO L-SCB-Return-CD 435 PERFORM 099-ERROR-Return 436 437 438 030-Validate-Handle-NonZero SECTION. 439 IF L-SCB-Handle-NUM = ZERO 440 MOVE 10 TO L-SCB-Return-CD 441 PERFORM 099-ERROR-Return 442 END-IF 443 444 040-Check-WRITE-SCB-Return-CD SECTION. IF RETURN-CODE < 0 445 446 MOVE -3 TO L-SCB-Return-CD PERFORM 099-ERROR-Return 447 448 END-IF 449 IF RETURN-CODE = 30450 MOVE 12 TO L-SCB-Return-CD PERFORM 099-ERROR-Return 451 452 END-TF 453 MOVE 00 TO L-SCB-Return-CD 454 455 050-Check-READ-SCB-Return-CD SECTION. 456 IF RETURN-CODE < 0 457 MOVE -3 TO L-SCB-Return-CD 458 PERFORM 099-ERROR-Return 459 END-IF 460 IF RETURN-CODE = 10 461 MOVE 01 TO L-SCB-Return-CD 462 GOBACK 463 END-IF 464 MOVE 00 TO L-SCB-Return-CD 465 466 060-Identify-TEMP SECTION.

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GNU COBOL 2.1 23NOV2013 Source Listing

2014/03/2

C:/Users/tda010/Documents/Programs/Samples/STREAMIO.cbl Line Statement _____ ACCEPT WS-Env-Temp-TXT FROM ENVIRONMENT "TEMP" 467 EVALUATE TRUE 468 WHEN WS-Env-Temp-TXT (1:1) = "/"469 MOVE "/" TO WS-Slash-CHR 470 WHEN WS-Env-Temp-TXT (2:1) = ":" 471 MOVE "\" TO WS-Slash-CHR 472 473 WHEN OTHER 474 MOVE "/tmp" TO WS-Env-Temp-TXT MOVE "/" TO WS-Slash-CHR 475 476 END-EVALUATE 477 478 099-ERROR-Return SECTION. 479 IF L-SCB-Error-Routine-NUM NOT = 0 480 CALL "CBL_EXIT_PROC" USING O, L-SCB-Error-Routine-PTR 481 STOP RUN END-IF 482 483 GOBACK 484 485 100-OPEN SECTION. 486 IF (L-SCB-Mode-Input-BOOL OR L-SCB-Mode-Both-BOOL) 487 AND (L-SCB-Filename-TXT = SPACES OR LOW-VALUES) 488 MOVE 11 TO L-SCB-Return-CD 489 PERFORM 099-ERROR-Return 490 END-IF 491 EVALUATE TRUE 492 WHEN L-SCB-Filename-TXT = SPACES OR LOW-VALUES 493 PERFORM 060-Identify-TEMP 494 MOVE SPACES TO L-SCB-Filename-TXT 495 COMPUTE 496 WS-8-Digit-NUM = 497 RANDOM(SECONDS-PAST-MIDNIGHT) * 100000000 END-COMPUTE 498 499 STRING 500 TRIM(WS-Env-Temp-TXT, TRAILING) 501 WS-Slash-CHR 502 "STREAMIO-" 503 WS-8-Digit-NUM 504 ".dat" 505 DELIMITED BY SIZE 506 INTO L-SCB-Filename-TXT 507 WHEN L-SCB-Filename-TXT(1:1) = "." 508 PERFORM 060-Identify-TEMP 509 IF L-SCB-Filename-TXT(2:1) = SPACE 510 MOVE SPACES TO WS-256-Byte-TXT 511 ELSE 512 MOVE L-SCB-Filename-TXT TO WS-256-Byte-TXT 513 514 MOVE SPACES TO L-SCB-Filename-TXT 515 COMPUTE WS-8-Digit-NUM =

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```
C:/Users/tda010/Documents/Programs/Samples/STREAMIO.cbl
_____
                           RANDOM(SECONDS-PAST-MIDNIGHT) * 100000000
  516
  517
                        STRING
                           TRIM(WS-Env-Temp-TXT, TRAILING)
  518
                           WS-Slash-CHR
  519
                           "STREAMIO-"
  520
  521
                           WS-8-Digit-NUM
                           TRIM(WS-256-Byte-TXT, TRAILING)
  522
                           DELIMITED BY SIZE
  523
                           INTO L-SCB-Filename-TXT
  524
  525
                END-EVALUATE
               EVALUATE TRUE
  526
  527
                    WHEN L-SCB-Mode-Input-BOOL
  528
                       MOVE 1 TO WS-Access-Mode-CD
  529
                    WHEN L-SCB-Mode-Output-BOOL
  530
                       MOVE 2 TO WS-Access-Mode-CD
  531
                    WHEN L-SCB-Mode-Both-BOOL
  532
                       MOVE 3 TO WS-Access-Mode-CD
  533
                    WHEN OTHER
  534
                        MOVE -2 TO L-SCB-Return-CD
  535
                        PERFORM 099-ERROR-Return
  536
                END-EVALUATE
  537
                CALL "CBL_OPEN_FILE" USING TRIM(L-SCB-Filename-TXT, TRAILING)
  538
                                         WS-Access-Mode-CD
  539
                                         0
  540
                                         0
  541
                                         L-SCB-Handle-NUM
  542
                IF RETURN-CODE = 35
                   MOVE 11 TO L-SCB-Return-CD
  543
                    PERFORM 099-ERROR-Return
  544
              END-IF
  545
  546
               IF RETURN-CODE < 0
  547
                   MOVE -2 TO L-SCB-Return-CD
                    PERFORM 099-ERROR-Return
  548
  549
                FND-TF
               MOVE 00 TO L-SCB-Return-CD
  550
  551
               MOVE O TO L-SCB-Offset-NUM
  552
  553
         200-CLOSE SECTION.
  554
                CALL "CBL_CLOSE_FILE" USING L-SCB-Handle-NUM
  555
                IF RETURN-CODE < 0
  556
                    MOVE -2 TO L-SCB-Return-CD
  557
                    PERFORM 099-ERROR-Return
  558
                END-IF
  559
                MOVE 00 TO L-SCB-Return-CD
                MOVE O TO L-SCB-Handle-NUM
  560
  561
  562
            300-WRITE SECTION.
  563
                CALL "C$PARAMSIZE" USING 2
  564
                MOVE RETURN-CODE TO WS-Arg-Length-NUM
```

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2014/03/2

```
C:/Users/tda010/Documents/Programs/Samples/STREAMIO.cbl
_____
                CALL "CBL_WRITE_FILE" USING L-SCB-Handle-NUM
  565
  566
                                           L-SCB-Offset-NUM
  567
                                           WS-Arg-Length-NUM
  568
  569
                                           L-Arg2-TXT
                 PERFORM 040-Check-WRITE-SCB-Return-CD
  570
  571
                 ADD WS-Arg-Length-NUM TO L-SCB-Offset-NUM
  572
            400-READ SECTION.
  573
                CALL "C$PARAMSIZE" USING 2
  574
  575
                MOVE RETURN-CODE TO WS-Arg-Length-NUM
  576
                MOVE SPACES TO L-Arg2-TXT(1:WS-Arg-Length-NUM)
                CALL "CBL_READ_FILE" USING L-SCB-Handle-NUM
  577
  578
                                          L-SCB-Offset-NUM
  579
                                          WS-Arg-Length-NUM
  580
  581
                                          L-Arg2-TXT
                 PERFORM 050-Check-READ-SCB-Return-CD
  582
  583
                 ADD WS-Arg-Length-NUM TO L-SCB-Offset-NUM
  584
  585
            500-READ-Delim SECTION.
  586
                CALL "C$PARAMSIZE" USING 2
  587
                 MOVE RETURN-CODE TO WS-Arg-Length-NUM
  588
                MOVE SPACES TO L-Arg2-TXT(1:WS-Arg-Length-NUM)
  589
                 CALL "CBL_READ_FILE" USING L-SCB-Handle-NUM
  590
                                          L-SCB-Offset-NUM
  591
                                          WS-Arg-Length-NUM
  592
                                           0
  593
                                          L-Arg2-TXT
                PERFORM 050-Check-READ-SCB-Return-CD
  594
  595
                MOVE O TO WS-Tally-NUM
  596
                INSPECT L-Arg2-TXT(1:WS-Arg-Length-NUM)
  597
                    TALLYING WS-Tally-NUM FOR ALL X"OA"
  598
                 IF WS-Tally-NUM = 0 *> No LF found - return truncated data and position past n
      ext LF (if any)
  599
                    IF L-Arg2-TXT(WS-Arg-Length-NUM:1) = X"OD"
  600
                        MOVE SPACE TO L-Arg2-TXT(WS-Arg-Length-NUM:1)
  601
                    END-IF
  602
                    ADD WS-Arg-Length-NUM TO L-SCB-Offset-NUM
  603
                    MOVE 02 TO L-SCB-Return-CD
  604
                    MOVE 256 TO WS-Arg-Length-NUM
  605
                    PERFORM UNTIL 0 = 1
  606
                        MOVE SPACES TO WS-Buffer-TXT
  607
                        CALL "CBL_READ_FILE" USING L-SCB-Handle-NUM
  608
                                                  L-SCB-Offset-NUM
  609
                                                  WS-Arg-Length-NUM
  610
  611
                                                  WS-Buffer-TXT
  612
                        IF RETURN-CODE < 0
```

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GNU COBOL 2.1 23NOV2013 Source Listing

2014/03/27

```
C:/Users/tda010/Documents/Programs/Samples/STREAMIO.cbl
Line Statement
_____
  613
                            MOVE -3 TO L-SCB-Return-CD
  614
                            PERFORM 099-ERROR-Return
                        END-IF
  615
                        IF RETURN-CODE = 10
  616
  617
                            GOBACK
                        END-IF
  618
                        MOVE O TO WS-Tally-NUM
  619
                        INSPECT WS-Buffer-TXT
  620
                            TALLYING WS-Tally-NUM FOR ALL X"OA"
  621
  622
                        IF WS-Tally-NUM = 0
  623
                            ADD 256 TO L-SCB-Offset-NUM
  624
                        ELSE
  625
                            MOVE O TO WS-Tally-NUM
  626
                            INSPECT WS-Buffer-TXT
  627
                                TALLYING WS-Tally-NUM
                                FOR CHARACTERS BEFORE INITIAL X"OA"
  628
  629
                            ADD WS-Tally-NUM, 1 TO L-SCB-Offset-NUM
  630
  631
                        END-IF
  632
                    END-PERFORM
  633
                             *> There is (at least) one LF in the buffer
  634
                    MOVE O TO WS-Tally-NUM
  635
                     INSPECT L-Arg2-TXT(1:WS-Arg-Length-NUM)
  636
                        TALLYING WS-Tally-NUM
  637
                        FOR CHARACTERS BEFORE INITIAL X"OA"
  638
                     ADD WS-Tally-NUM, 1 TO L-SCB-Offset-NUM
  639
                    IF WS-Tally-NUM > 1
                        IF L-Arg2-TXT(WS-Tally-NUM:1) = X"OD"
  640
  641
                            COMPUTE WS-Arg-Length-NUM =
  642
                                      WS-Arg-Length-NUM
  643
                                    - WS-Tally-NUM
                                    + 1
  644
  645
                        FLSE.
  646
                            COMPUTE WS-Arg-Length-NUM =
  647
                                     WS-Arg-Length-NUM
  648
                                    - WS-Tally-NUM
  649
                            ADD 1 TO WS-Tally-NUM
  650
                        END-IF
  651
                        MOVE SPACES
  652
                          TO L-Arg2-TXT(WS-Tally-NUM:WS-Arg-Length-NUM)
  653
                    ELSE
  654
                        MOVE SPACES
  655
                          TO L-Arg2-TXT(1:WS-Arg-Length-NUM)
                     END-IF
  656
                END-IF
  657
  658
```

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GNU COBOL 2.1 23NOV2013 Cross-Reference Listing

PROGRAM-ID	C:/Use Identifier/Register/Function	Defn	O/Documents/Pro Where Defined	Referenc		EAMIO.cbl Page: 15
STREAMIO	000-Main		PROCEDURE	== ======	======	======
STREAMIO	020-Validate-Handle-Zero	432	PROCEDURE	392		
STREAMIO	030-Validate-Handle-NonZero	438	PROCEDURE	387	395	398
				401	406	411
STREAMIO	040-Check-WRITE-SCB-Return-CD	444	PROCEDURE	424	570	
STREAMIO	050-Check-READ-SCB-Return-CD	455	PROCEDURE	582	594	
STREAMIO	060-Identify-TEMP	466	PROCEDURE	493	508	
STREAMIO	099-ERROR-Return	478	PROCEDURE	417	428	435
				441	447	451
				458	489	535
				544	548	557
				614		
STREAMIO	100-OPEN	485	PROCEDURE	393		
STREAMIO	200-CLOSE	553	PROCEDURE	388		
STREAMIO	300-WRITE	562	PROCEDURE	402	407	412
STREAMIO	400-READ	573	PROCEDURE	396		
STREAMIO	500-READ-Delim	585	PROCEDURE	399		
STREAMIO	L-Arg2-TXT	380	LINKAGE	382	569C	576*
				581C	588*	593C
				599	600*	640
				652*	655*	
STREAMIO	L-SCB-DELIM-Unix-BOOL	379	[STREAMIOcb] 405		
STREAMIO	L-SCB-DELIM-Windows-BOOL	379	[STREAMIOcb] 410		
STREAMIO	L-SCB-Delimiter-Mode-CD	379	[STREAMIOcb]		
STREAMIO	L-SCB-Error-Routine-NUM	379	[STREAMIOcb] 479		
STREAMIO	L-SCB-Error-Routine-PTR	379	[STREAMIOcb] 379	480C	
STREAMIO	L-SCB-Filename-TXT	379	[STREAMIOcb] 390C	487	492
				494*	506*	507
				509	512	514*
				524*	537C	
STREAMIO	L-SCB-Func-CLOSE-BOOL		[STREAMIOcb] 386		
STREAMIO	L-SCB-Func-DELETE-BOOL		[STREAMIOcb] 389		
STREAMIO	L-SCB-Func-OPEN-BOOL		[STREAMIOcb] 391		
STREAMIO	L-SCB-Func-READ-BOOL		[STREAMIOcb] 394		
STREAMIO	L-SCB-Func-READ-Delim-BOOL		[STREAMIOcb] 397		
STREAMIO	L-SCB-Func-WRITE-BOOL		[STREAMIOcb] 400		
STREAMIO	L-SCB-Func-WRITE-Delim-BOOL		[STREAMIOcb] 403		
STREAMIO	L-SCB-Function-CD		[STREAMIOcb]		
STREAMIO	L-SCB-Handle-NUM	379	[STREAMIOcb] 419C	433	439
				541C	554C	560*
				565C	577C	589C
OTDEANTO	I GOD MODE D.+1 DOO!	050	- FORDEANTO :	607C	F04	
STREAMIO	L-SCB-MODE-Both-BOOL		[STREAMIOcb] 486	531	
STREAMIO	L-SCB-Mode-CD		[STREAMIOcb]	F07	
STREAMIO	L-SCB-MODE-Input-BOOL		[STREAMIOcb] 486	527	
STREAMIO	L-SCB-MODE-Output-BOOL		[STREAMIOcb] 529] 420C	40E+	EE1
STREAMIO	L-SCB-Offset-NUM	3/9	[STREAMIOcb	3 420C 566C	425* 571*	551* 578C
				583*	571* 590C	602*
				000↑	3300	0024

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PROGRAM-ID	C:/Use Identifier/Register/Function	Defn	O/Documents/Progr Where Defined	Reference	s	Page: 16
				608C 638*	623*	629*
STREAMIO	L-SCB-Return-CD	379	[STREAMIOcb]	384*	416*	427*
				434*	440*	446*
				450*	453*	457*
				461*	464*	488*
				534*	543*	547*
				550*	556*	559*
				603*	613*	
STREAMIO	L-StreamIO-Control-Block-TXT	377	LINKAGE	381		
STREAMIO	RETURN-CODE		PROCEDURE	445	449	456
				460	542	546
				555	564	575
				587	612	616
STREAMIO	WS-256-Byte-TXT	375	WORKING-STORAGE	510*	512*	522
STREAMIO	WS-8-Digit-NUM	374	WORKING-STORAGE	496* 521	503	515*
STREAMIO	WS-Access-Mode-CD	367	WORKING-STORAGE	528* 538C	530*	532*
STREAMIO	WS-Arg-Length-NUM	368	WORKING-STORAGE	408*	413*	421C
				425	564*	567C
				571	575*	576
				579C	583	587*
				588	591C	596
				599	600	602
				604*	609C	635
				641*	642	646*
				647	652	655
STREAMIO	WS-Buffer-TXT	369	WORKING-STORAGE	606*	611C	
STREAMIO	WS-Delim-Buffer-TXT	370	WORKING-STORAGE	409*	414*	423C
STREAMIO	WS-Env-Temp-TXT	371	WORKING-STORAGE	467*	469	471
	-			474*	500	518
STREAMIO	WS-Slash-CHR	372	WORKING-STORAGE	470*	472*	475*
				501	519	
STREAMIO	WS-Tally-NUM	373	WORKING-STORAGE	595*	597*	598
	-			619*	621*	622
				625*	627*	629
				634*	636*	638
				639	640	643
				648	649*	652

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