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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
                                           , TO MSG
     WHEN 02 MOVE 'SUCCESS DUPLICATE
                                           , TO MSG
     WHEN 04 MOVE 'SUCCESS INCOMPLETE
     WHEN 05 MOVE 'SUCCESS OPTIONAL
                                           , TO MSG
     WHEN 06 MOVE 'LS Multiple records
                                          ' TO MSG
                                           , TO MSG
     WHEN 07 MOVE 'SUCCESS NO UNIT
     WHEN 10 MOVE 'END OF FILE
                                           ' TO MSG
                                          , TO MSG
     WHEN 14 MOVE 'OUT OF KEY RANGE
                                           , TO MSG
     WHEN 21 MOVE 'KEY INVALID
     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
     WHEN 35 MOVE 'FILE NOT FOUND
                                          ' TO MSG
     WHEN 37 MOVE 'PERMISSION DENIED
                                           , TO MSG
                                           , TO MSG
     WHEN 38 MOVE 'CLOSED WITH LOCK
                                          , TO MSG
     WHEN 39 MOVE 'CONFLICT ATTRIBUTE
     WHEN 41 MOVE 'ALREADY OPEN
                                           , TO MSG
     WHEN 42 MOVE 'NOT OPEN
                                           ' TO MSG
                                           , TO MSG
     WHEN 43 MOVE 'READ NOT DONE
     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
                                           ' TO MSG
     WHEN 51 MOVE 'RECORD LOCKED
     WHEN 52 MOVE 'END-OF-PAGE
                                           , TO MSG
     WHEN 57 MOVE 'I/O LINAGE
                                           , TO MSG
                                       , TO MSG
     WHEN 61 MOVE 'FILE SHARING FAILURE
     WHEN 71 MOVE 'BAD CHARACTER
                                           ' TO MSG
     WHEN 91 MOVE 'FILE NOT AVAILABLE
                                         , TO MSG
     WHEN OTHER MOVE 'UNKNOWN ERROR 'TO MSG
```

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

Page: 1

______ >>SOURCE FORMAT IS FIXED 1 IDENTIFICATION DIVISION. PROGRAM-ID. COBDUMP. 4 *> This is an OpenCOBOL subroutine that will generate a 6 *> formatted Hex/Char dump of a storage area. To use this 7 *> subroutine, simply CALL it as follows: ** 8 *> ** *> CALL "COBDUMP" USING <data-item> 10 *> [<length>] 11 *> ** 12 *> If specified, the <length> argument specifies how many ** *> bytes of <data-item> are to be dumped. If absent, all of *> <data-item> will be dumped (i.e. LENGTH(<data-item>) will 14 ** *> be assumed for <length>). ** 15 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 25 *> NOTE: The author has a sentimental attachment to 26 this subroutine - it's been around since 1971 ** *> 27 *> and it's been converted to and run on 10 dif- ** 28 *> ferent operating system/compiler environments ** 29 *> ** *> DATE-WRITTEN: October 14, 1971 30 ** 31 32 *> DATE CHANGE DESCRIPTION 33 34 *> GC1071 Initial coding - Univac Dept. of Defense COBOL '68 35 36 *> GC0577 Converted to Univac ASCII COBOL (ACOB) - COBOL '74 37 *> GC1182 Converted to Univac UTS4000 COBOL - COBOL '74 w/ ** SCREEN SECTION enhancements 39 *> GC0883 Converted to Honeywell/Bull COBOL - COBOL '74 *> GCO983 Converted to IBM VS COBOL - COBOL '74 40 41 *> GC0887 Converted to IBM VS COBOL II - COBOL '85 *> GC1294 Converted to Micro Focus COBOL V3.0 - COBOL '85 w/ 42 43 extensions 44 *> GCO703 Converted to Unisys Universal Compiling System (UCS) ** COBOL (UCOB) - COBOL '85 45 *> GC1204 Converted to Unisys Object COBOL (OCOB) - COBOL 2002 ** 47 *> GCO609 Converted to OpenCOBOL 1.1 - COBOL '85 w/ some COBOL ** 2002 features 48 *> ** 49 *> GC0410 Enhanced to make 2nd argument (buffer length) ** 50 optional ** *> GCO211 Ported to IBM Enterprise COBOL 51 ** 52 *> GC0612 Updated for OpenCOBOL 2.0 *> VCO322 Moved lines only with . to end of previous statement **

GNUCOBOL 3.1.2 06MAR202 Source Listing

2022/03/06 COBDUMP.cbl

Line	Statement			COBDUMP.cbl Page: 2
54	: ======= ! *>	Fix for bug #816 by making WS-	-Buffer-Byte-NUM **	
55	*>	UNSIGNED	**	
56	*>*	***********	********	
57	ENV			
58	CON	FIGURATION SECTION.		
59		POSITORY.		
60		FUNCTION ALL INTRINSIC.		
61	. DAT	A DIVISION.		
62	. WOF	KING-STORAGE SECTION.		
63		WS-Addr-PTR	USAGE POINTER.	
64	01	WS-Addr-NUM REDEFINES WS-Addr-PTR		
65	·		USAGE BINARY-LONG.	
66	3			
67	01	WS-Addr-SUB	USAGE BINARY-CHAR.	
68	3			
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		00 241101 2,00	UNSIGNED.	
74			01102411221	
75		WS-Buffer-Length-NUM	USAGE BINARY-LONG.	
76		WD Dailer Bengun Non	ODAGE DINAIT BONG.	
77		WS-Buffer-SUB	PIC 9(4) COMP-5.	
78		WB Baller Bob	110 0(1) 0011 0.	
79		WS-Hex-Digit-TXT VALUE '0123456789	ARCDEF,	
80		05 WS-Hex-Digit-CHR	OCCURS 16 TIMES	
81		oo wo nex bigit omt	PIC X(1).	
82			110 K(1).	
83		WS-Nibble-SUB	PIC 9(1) COMP-5.	
84		WB NIBBIC BOB	110 0(1) 0011 0.	
85		WS-Nibble-Left-SUB	PIC 9(1) COMP-5.	
86		MD WIDDLE FELL DOD	110 3(1) 00111 3.	
87		WS-Nibble-Right-SUB	PIC 9(1) COMP-5.	
88		WS WIDDIE HIGHT SOD	F1C 9(1) COMF 5.	
89		WS-Output-Detail-TXT.		
90		05 WS-OD-Addr-TXT.		
91		10 WS-OD-Addr-Hex-CHR	OCCURS 8 TIMES PIC X.	
92		05 FILLER	PIC X(1).	
93		05 WS-OD-Relative-Byte-NUM	PIC Z(3)9.	
		05 FILLER	PIC X(1).	
94 95			OCCURS 16 TIMES.	
		05 WS-OD-Hex-TXT 10 WS-OD-Hex-1-CHR		
96			PIC X.	
97		10 WS-OD-Hex-2-CHR	PIC X.	
98		10 FILLER	PIC X.	
99		05 WS-OD-ASCII-Data-TXT.	OCCUPS 16 TIMES	
100		10 WS-OD-ASCII-CHR	OCCURS 16 TIMES	
101		UC Outrout CUD	PIC X.	
102		WS-Output-SUB	PIC 9(2) COMP-5.	
103		MOUDAR RODWAR TO PRES		
104		SOURCE FORMAT IS FREE		
105		WS-Output-Header-1-TXT.		
106)	05 VALUE '<-Addr-> Byte <	Hexadecimal ''	> <

GNUCOBOL 3.1.2 06MAR202 Source Listing

2022/03/06 COBDUMP.cbl

```
______
  107 - Char ---->' PIC X(80).
  109
           01 WS-Output-Header-2-TXT.
           110
  111 ======= ' PIC X(80).
  112
          >>SOURCE FORMAT IS FIXED
  113
  114
          LINKAGE SECTION.
                                                  PIC X ANY LENGTH.
  115
           01 L-Buffer-TXT
  116
                                                  USAGE BINARY-LONG.
           01 L-Buffer-Length-NUM
  117
  118
  119
            PROCEDURE DIVISION USING L-Buffer-TXT,
  120
                                   OPTIONAL L-Buffer-Length-NUM.
            000-Main SECTION.
  121
  122
               IF NUMBER-OF-CALL-PARAMETERS = 1
  123
                   MOVE LENGTH(L-Buffer-TXT) TO WS-Buffer-Length-NUM
  124
               ELSE
  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
               MOVE O TO WS-Output-SUB
  130
               DISPLAY WS-Output-Header-1-TXT UPON SYSERR
  131
  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
                   ADD 1 TO WS-Output-SUB
  135
                   IF WS-Output-SUB = 1
  136
                       MOVE WS-Buffer-SUB TO WS-OD-Relative-Byte-NUM
  137
  138
                   FND-TF
                   MOVE L-Buffer-TXT (WS-Buffer-SUB : 1)
  139
  140
                     TO WS-OD-ASCII-CHR (WS-Output-SUB)
  141
                        WS-Buffer-Byte-CHR
  142
                   DIVIDE WS-Buffer-Byte-NUM BY 16
  143
                       GIVING WS-Nibble-Left-SUB
  144
                       REMAINDER WS-Nibble-Right-SUB
  145
                   ADD 1 TO WS-Nibble-Left-SUB
  146
                           WS-Nibble-Right-SUB
                   MOVE WS-Hex-Digit-CHR (WS-Nibble-Left-SUB)
  147
  148
                     TO WS-OD-Hex-1-CHR (WS-Output-SUB)
  149
                   MOVE WS-Hex-Digit-CHR (WS-Nibble-Right-SUB)
  150
                     TO WS-OD-Hex-2-CHR (WS-Output-SUB)
                   IF WS-Output-SUB = 16
  151
                       CALL "C$PRINTABLE" USING WS-OD-ASCII-Data-TXT
  152
  153
                       DISPLAY WS-Output-Detail-TXT UPON SYSERR
  154
                       MOVE SPACES TO WS-Output-Detail-TXT
  155
                       MOVE O TO WS-Output-SUB
  156
                       SET WS-Addr-PTR UP BY 16
                       PERFORM 100-Generate-Address
  157
                   END-IF
  158
               END-PERFORM
  159
```

GNUCOBOL 3.1.2 06MAR202 Source Listing

2022/03/06 COBDUMP.cbl

	CODDONF.CDI
Line	Statement Page: 4
100	TP UC Outside CUD > 0
160	
161	
162	
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 '0' 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	<u>.</u>

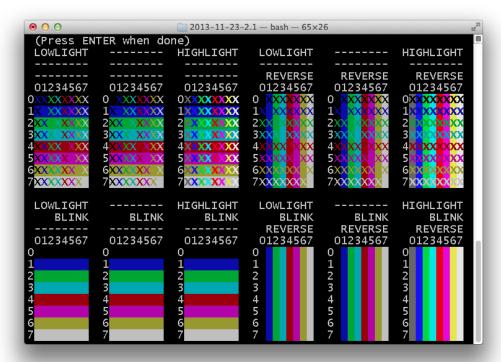
GNU COBOL 2.1 23NOV2013 Cross-Reference Listing 2014/03/27 C:/Users/tda010/Documents/Programs/Samples/COBDUMP.cbl							
PROGRAM-ID	Identifier/Register/Function	Defn	Where Defined	References		Page: 5	
=========						0	
COBDUMP	000-Main	116	PROCEDURE				
COBDUMP	100-Generate-Address	161	PROCEDURE	124	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	162*	171	172	
COBDUMP	WS-Addr-Value-NUM	66	WORKING-STORAGE	163*	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		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	83	WORKING-STORAGE	139*	141*	144	
COBDUMP	WS-Nibble-SUB		WORKING-STORAGE	168*	169*	170	
COBDUMP	WS-OD-Addr-Hex-CHR	87	WORKING-STORAGE	171*			
COBDUMP	WS-OD-Addr-TXT	86	WORKING-STORAGE	164*			
COBDUMP	WS-OD-ASCII-CHR		WORKING-STORAGE	135*			
COBDUMP	WS-OD-ASCII-Data-TXT		WORKING-STORAGE	147C	156C		
COBDUMP	WS-OD-Hex-1-CHR		WORKING-STORAGE	143*			
COBDUMP	WS-OD-Hex-2-CHR		WORKING-STORAGE	145*			
COBDUMP	WS-OD-Hex-TXT		WORKING-STORAGE				
COBDUMP	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.

ACS Cobo	l Xref v2.02.02	Di	ctionary l	File for C	OLORS 0	7/12/2019	16:57:00:16
1	>>SOURCE F	REE					
2	IDENTIFICATION DI						
3	PROGRAM-ID. color						
4	DATA DIVISION.						
5	WORKING-STORAGE S	ECTION.					
6	SCREEN SECTION.						
7	01 S-COLORTST-SCR	BACKGROU	JND-COLOR (FOREGROU	ND-COLOR 7	BLANK SCRI	EEN.
8	05 LINE 01.						
9	10 COL 1 VALUE '	LOWLIGHT		HIGHLIGHT	LOWLIGHT		HIGHLIGHT'.
10	05 LINE + 1.						
11	10 COL 1 VALUE '						'.
12	05 LINE + 1.						
13	10 COL 1 VALUE '				REVERSE	REVERSE	REVERSE'.
14	05 LINE + 1.						
15	10 COL 1 VALUE '	01234567	01234567	01234567	01234567	01234567	01234567'.
16	05 LINE + 1.						
17	10 COL 1 VALUE '0		0	0	0	0	0 '.
18	05 LINE + 1.						
19	10 COL 1 VALUE '1		1	1	1	1	1 '.
20	05 LINE + 1.						
21	10 COL 1 VALUE '2		2	2	2	2	2 '.
22	05 LINE + 1.						
23	10 COL 1 VALUE '3	1	3 2	3 3	3 4	3 5	3 6 '.
24	05 LINE + 1.						
25	10 COL 1 VALUE '4		4	4	4	4	4 '.
26	05 LINE + 1.						
27	10 COL 1 VALUE '5		5	5	5	5	5 '.
28	05 LINE + 1.						
29	10 COL 1 VALUE '6		6	6	6	6	6 '.
30	05 LINE + 1.						
31	10 COL 1 VALUE '7		7	7	7	7	7 ,.
32	05 LINE + 1.						
33	10 COL 1 VALUE '	LOWLIGHT		HIGHLIGHT	LOWLIGHT		HIGHLIGHT'.
34	05 LINE + 1.						
35	10 COL 1 VALUE '	BLINK	BLINK	BLINK	BLINK	BLINK	BLINK'.
36	05 LINE + 1.						
37	10 COL 1 VALUE '				REVERSE	REVERSE	REVERSE'.
38	05 LINE + 1.						
39	10 COL 1 VALUE '	01234567	01234567	01234567	01234567	01234567	01234567'.
40	05 LINE + 1.						
41	10 COL 1 VALUE '0		0	0	0	0	0 '.
42	05 LINE + 1.						
43	10 COL 1 VALUE '1		1	1	1	1	1 '.
44	05 LINE + 1.						
45	10 COL 1 VALUE '2		2	2	2	2	2 '.
46	05 LINE + 1.						
47	10 COL 1 VALUE '3	7	3 8	3 9	3 10	3 11	3 12 '.
48	05 LINE + 1.		_		_	_	
49	10 COL 1 VALUE '4		4	4	4	4	4 '.
50	05 LINE + 1.		_	_	_	_	_
51	10 COL 1 VALUE '5		5	5	5	5	5 '.
52	05 LINE + 1.		_		_		
53	10 COL 1 VALUE '6		6	6	6	6	6 '.
54	05 LINE + 1.						

```
ACS Cobol Xref v2.02.02
                                 Dictionary File for COLORS
                                                               07/12/2019 16:57:00:16
                                                                                     ٠.
                                   7
         10 COL 1 VALUE '7
                                                                 7
    56
         *> #1
    57
         05 LINE 05.
    58
                   BACKGROUND-COLOR O FOREGROUND-COLOR O LOWLIGHT VALUE 'X'.
         10 COL 2
         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 0 FOREGROUND-COLOR 4 LOWLIGHT VALUE 'X'.
    62
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 LOWLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 LOWLIGHT VALUE 'X'.
    65
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 LOWLIGHT VALUE 'X'.
    66
         05 I.TNF. + 1.
         10 COL 2
                  BACKGROUND-COLOR 1 FOREGROUND-COLOR O 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'.
    69
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 LOWLIGHT VALUE 'X'.
    70
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 LOWLIGHT VALUE 'X'.
    71
    72
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 LOWLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 LOWLIGHT VALUE 'X'.
    74
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 LOWLIGHT VALUE 'X'.
         05 LINE + 1.
    76
         10 COL 2
                    BACKGROUND-COLOR 2 FOREGROUND-COLOR O LOWLIGHT VALUE 'X'.
    77
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 LOWLIGHT VALUE 'X'.
    78
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 LOWLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 LOWLIGHT VALUE 'X'.
         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'.
    83
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 LOWLIGHT VALUE 'X'.
         05 LINE + 1.
    84
         10 COL 2
                   BACKGROUND-COLOR 3 FOREGROUND-COLOR O LOWLIGHT VALUE 'X'.
    85
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 LOWLIGHT VALUE 'X'.
    87
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 LOWLIGHT VALUE 'X'.
    88
         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'.
    91
    92
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 LOWLIGHT VALUE 'X'.
         05 LINE + 1.
         10 COL 2
                    BACKGROUND-COLOR 4 FOREGROUND-COLOR O LOWLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 LOWLIGHT VALUE 'X'.
    95
    96
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 LOWLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 LOWLIGHT VALUE 'X'.
    98
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 LOWLIGHT VALUE 'X'.
   99
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 LOWLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 LOWLIGHT VALUE 'X'.
   100
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 LOWLIGHT VALUE 'X'.
   101
   102
         05 LINE + 1.
   103
         10 COL 2 BACKGROUND-COLOR 5 FOREGROUND-COLOR 0 LOWLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 LOWLIGHT VALUE 'X'.
   104
   105
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 LOWLIGHT VALUE 'X'.
         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'.
```

```
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 \text{ LINE} + 1.
                    BACKGROUND-COLOR 6 FOREGROUND-COLOR O LOWLIGHT VALUE 'X'.
   112
         10 COL 2
         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'.
   115
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 LOWLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 LOWLIGHT VALUE 'X'.
   116
   117
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 LOWLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 LOWLIGHT VALUE 'X'.
   119
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 LOWLIGHT VALUE 'X'.
         05 I.TNF. + 1.
   120
   121
         10 COL 2
                   BACKGROUND-COLOR 7 FOREGROUND-COLOR O LOWLIGHT VALUE 'X'.
   122
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 1 LOWLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 LOWLIGHT VALUE 'X'.
   123
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 LOWLIGHT VALUE 'X'.
   124
   125
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 LOWLIGHT VALUE 'X'.
   126
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 LOWLIGHT VALUE 'X'.
   127
         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
   130
         05 LINE 05.
         10 COL 12 BACKGROUND-COLOR O FOREGROUND-COLOR O VALUE 'X'.
   131
   132
         10 COL + 1 BACKGROUND-COLOR 0 FOREGROUND-COLOR 1 VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR O 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'.
   137
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 VALUE 'X'.
   138
         05 LINE + 1.
   139
         10 COL 12 BACKGROUND-COLOR 1 FOREGROUND-COLOR 0 VALUE 'X'.
   140
   141
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 1 VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 VALUE 'X'.
   142
   143
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 VALUE 'X'.
   144
   145
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 VALUE 'X'.
   146
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 VALUE 'X'.
   147
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 VALUE 'X'.
   148
         05 LINE + 1.
         10 COL 12 BACKGROUND-COLOR 2 FOREGROUND-COLOR 0 VALUE 'X'.
   149
   150
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 VALUE 'X'.
   151
   152
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 VALUE 'X'.
   153
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 5 VALUE 'X'.
   154
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 VALUE 'X'.
   155
   156
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 VALUE 'X'.
   157
         05 I.TNF. + 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
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 VALUE 'X'.
   161
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 VALUE 'X'.
```

```
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'.
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 VALUE 'X'.
   164
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 VALUE 'X'.
   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
   169
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 VALUE 'X'.
   170
   171
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 VALUE 'X'.
   173
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 VALUE 'X'.
   174
   175
         05 LINE + 1.
   176
         10 COL 12 BACKGROUND-COLOR 5 FOREGROUND-COLOR 0 VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 VALUE 'X'.
   177
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 VALUE 'X'.
   178
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 VALUE 'X'.
   179
   180
         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'.
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 VALUE 'X'.
   188
   189
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 VALUE 'X'.
   190
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 VALUE 'X'.
   191
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 VALUE 'X'.
   192
         05 LINE + 1.
   193
         10 COL 12 BACKGROUND-COLOR 7 FOREGROUND-COLOR 0 VALUE 'X'.
   195
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 1 VALUE 'X'.
   196
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 VALUE 'X'.
   197
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 VALUE 'X'.
   198
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 VALUE 'X'.
   199
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 6 VALUE 'X'.
   200
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 VALUE 'X'.
   202
         *> #3
   203
        05 LINE 05.
   204
         10 COL 22 BACKGROUND-COLOR O FOREGROUND-COLOR O HIGHLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 0 FOREGROUND-COLOR 1 HIGHLIGHT VALUE 'X'.
   206
         10 COL + 1 BACKGROUND-COLOR 0 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 'X'.
   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'.
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 HIGHLIGHT VALUE 'X'.
   211
   212
         05 LINE + 1.
   213
         10 COL 22 BACKGROUND-COLOR 1 FOREGROUND-COLOR 0 HIGHLIGHT VALUE 'X'.
  214
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 1 HIGHLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 HIGHLIGHT VALUE 'X'.
   215
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 HIGHLIGHT VALUE 'X'.
```

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Dictionary File for COLORS
                                                               07/12/2019 16:57:00:17
ACS Cobol Xref v2.02.02
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 HIGHLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 HIGHLIGHT VALUE 'X'.
   218
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 HIGHLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 HIGHLIGHT VALUE 'X'.
   220
   221
         05 I.TNF. + 1.
         10 COL 22 BACKGROUND-COLOR 2 FOREGROUND-COLOR 0 HIGHLIGHT VALUE 'X'.
   222
   223
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 HIGHLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 HIGHLIGHT VALUE 'X'.
   224
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 HIGHLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 HIGHLIGHT VALUE 'X'.
   227
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 5 HIGHLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 HIGHLIGHT VALUE 'X'.
   228
   229
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 HIGHLIGHT VALUE 'X'.
   230
         05 LINE + 1.
         10 COL 22 BACKGROUND-COLOR 3 FOREGROUND-COLOR 0 HIGHLIGHT VALUE 'X'.
   231
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 HIGHLIGHT VALUE 'X'.
   232
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 HIGHLIGHT VALUE 'X'.
   234
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 HIGHLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 HIGHLIGHT VALUE 'X'.
   235
   236
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 HIGHLIGHT VALUE
   237
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 HIGHLIGHT VALUE
   238
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 HIGHLIGHT VALUE 'X'.
   239
         05 LINE + 1.
   240
         10 COL 22 BACKGROUND-COLOR 4 FOREGROUND-COLOR O HIGHLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 HIGHLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 HIGHLIGHT VALUE 'X'.
   242
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 HIGHLIGHT VALUE 'X'.
   243
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 HIGHLIGHT VALUE 'X'.
   245
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 HIGHLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 HIGHLIGHT VALUE 'X'.
   246
  247
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 HIGHLIGHT VALUE 'X'.
         05 I.TNF + 1.
   249
         10 COL 22 BACKGROUND-COLOR 5 FOREGROUND-COLOR 0 HIGHLIGHT VALUE 'X'.
   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'.
   254
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 HIGHLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 6 HIGHLIGHT VALUE 'X'.
   256
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 HIGHLIGHT VALUE 'X'.
         05 LINE + 1.
   257
   258
         10 COL 22 BACKGROUND-COLOR 6 FOREGROUND-COLOR 0 HIGHLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 HIGHLIGHT VALUE 'X'.
   260
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 HIGHLIGHT VALUE
   261
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 HIGHLIGHT VALUE 'X'.
   262
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 HIGHLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 HIGHLIGHT VALUE 'X'.
   263
   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'.
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 HIGHLIGHT VALUE 'X'.
   269
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 HIGHLIGHT VALUE 'X'.
   270
```

```
Dictionary File for COLORS
                                                               07/12/2019 16:57:00:18
ACS Cobol Xref v2.02.02
         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'.
   274
   275
        *> #4
   276
         05 LINE 05.
         10 COL 32 BACKGROUND-COLOR O FOREGROUND-COLOR O LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   277
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   278
        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'.
   281
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   282
        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'.
   284
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   285
         05 LINE + 1.
        10 COL 32 BACKGROUND-COLOR 1 FOREGROUND-COLOR 0 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   286
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 1 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   288
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   289
   290
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   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.
         10 COL 32 BACKGROUND-COLOR 2 FOREGROUND-COLOR O LOWLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   296
   297
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   298
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   299
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 5 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   300
   301
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   302
   303
         05 LINE + 1.
   304
         10 COL 32 BACKGROUND-COLOR 3 FOREGROUND-COLOR 0 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
         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'.
   306
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   307
   308
        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'.
   310
        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'.
   311
   312
         05 LINE + 1.
         10 COL 32 BACKGROUND-COLOR 4 FOREGROUND-COLOR 0 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   314
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   315
         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'.
   316
         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'.
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   319
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   320
   321
         05 LINE + 1.
   322
        10 COL 32 BACKGROUND-COLOR 5 FOREGROUND-COLOR 0 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   323
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
```

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Dictionary File for COLORS
                                                               07/12/2019 16:57:00:18
ACS Cobol Xref v2.02.02
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   325
   326
         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'.
   329
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   330
         05 I.TNF. + 1.
   331
         10 COL 32 BACKGROUND-COLOR 6 FOREGROUND-COLOR 0 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   332
   333
        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'.
   335
         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'.
   336
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   338
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   339
         05 LINE + 1.
         10 COL 32 BACKGROUND-COLOR 7 FOREGROUND-COLOR 0 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   340
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 1 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   342
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   343
   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'.
   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
         05 LINE 05.
         10 COL 42 BACKGROUND-COLOR O FOREGROUND-COLOR O REVERSE-VIDEO VALUE 'X'.
   350
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 REVERSE-VIDEO VALUE 'X'.
   351
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 REVERSE-VIDEO VALUE 'X'.
   353
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 REVERSE-VIDEO VALUE 'X'.
   354
   355
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 REVERSE-VIDEO VALUE 'X'.
   356
   357
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 REVERSE-VIDEO VALUE 'X'.
   358
         05 LINE + 1.
   359
         10 COL 42 BACKGROUND-COLOR 1 FOREGROUND-COLOR O 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'.
   364
         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'.
   365
   366
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 REVERSE-VIDEO VALUE 'X'.
         05 LINE + 1.
   368
         10 COL 42 BACKGROUND-COLOR 2 FOREGROUND-COLOR O REVERSE-VIDEO VALUE 'X'.
   369
         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'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 REVERSE-VIDEO VALUE 'X'.
   374
   375
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 REVERSE-VIDEO VALUE 'X'.
   376
         05 I.TNF. + 1.
   377
         10 COL 42 BACKGROUND-COLOR 3 FOREGROUND-COLOR O REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 REVERSE-VIDEO VALUE 'X'.
```

```
Dictionary File for COLORS
                                                               07/12/2019 16:57:00:18
ACS Cobol Xref v2.02.02
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 REVERSE-VIDEO VALUE 'X'.
   380
         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'.
   382
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 REVERSE-VIDEO VALUE 'X'.
   383
         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.
        10 COL 42 BACKGROUND-COLOR 4 FOREGROUND-COLOR 0 REVERSE-VIDEO VALUE 'X'.
   386
        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'.
   389
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 REVERSE-VIDEO VALUE 'X'.
   390
         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'.
   392
         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'.
   393
   394
         05 LINE + 1.
         10 COL 42 BACKGROUND-COLOR 5 FOREGROUND-COLOR 0 REVERSE-VIDEO VALUE 'X'.
   396
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 REVERSE-VIDEO VALUE 'X'.
   397
   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'.
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 6 REVERSE-VIDEO VALUE 'X'.
   401
   402
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 REVERSE-VIDEO VALUE 'X'.
   403
         10 COL 42 BACKGROUND-COLOR 6 FOREGROUND-COLOR O REVERSE-VIDEO VALUE 'X'.
   404
   405
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 REVERSE-VIDEO VALUE 'X'.
   406
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 REVERSE-VIDEO VALUE 'X'.
   407
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 REVERSE-VIDEO VALUE 'X'.
   408
   409
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 REVERSE-VIDEO VALUE 'X'.
   411
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 REVERSE-VIDEO VALUE 'X'.
   412
         05 LINE + 1.
   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'.
   414
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 REVERSE-VIDEO VALUE 'X'.
   415
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 REVERSE-VIDEO VALUE 'X'.
   416
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 REVERSE-VIDEO VALUE 'X'.
   418
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 6 REVERSE-VIDEO VALUE 'X'.
   419
   420
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 REVERSE-VIDEO VALUE 'X'.
   421
         *> #6
   422
         05 LINE 05.
         10 COL 52 BACKGROUND-COLOR O FOREGROUND-COLOR O HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   423
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   424
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   425
   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'.
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   428
   429
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   430
   431
         05 I.TNF. + 1.
         10 COL 52 BACKGROUND-COLOR 1 FOREGROUND-COLOR 0 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   432
```

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Dictionary File for COLORS
                                                               07/12/2019 16:57:00:19
ACS Cobol Xref v2.02.02
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 1 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   433
   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
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   436
   437
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   438
   439
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
         05 LINE + 1.
   440
   441
         10 COL 52 BACKGROUND-COLOR 2 FOREGROUND-COLOR 0 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   443
         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'.
   444
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   446
         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'.
   447
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   448
   449
   450
         10 COL 52 BACKGROUND-COLOR 3 FOREGROUND-COLOR 0 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   451
   452
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   453
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   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'.
   456
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   457
   458
         05 LINE + 1.
   459
         10 COL 52 BACKGROUND-COLOR 4 FOREGROUND-COLOR 0 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   460
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   461
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   462
   463
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   465
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   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'.
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   469
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   470
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   471
   472
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   473
   474
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 6 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   475
   476
         05 LINE + 1.
         10 COL 52 BACKGROUND-COLOR 6 FOREGROUND-COLOR 0 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   477
   478
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   479
   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'.
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   482
   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 I.TNF. + 1.
         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'.
   487
   488
         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
   490
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   491
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 6 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   492
   493
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   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'.
   497
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 LOWLIGHT BLINK VALUE 'X'.
   498
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 LOWLIGHT BLINK VALUE 'X'.
   500
         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'.
   501
         10 COL + 1 BACKGROUND-COLOR 0 FOREGROUND-COLOR 6 LOWLIGHT BLINK VALUE 'X'.
   502
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 LOWLIGHT BLINK VALUE 'X'.
   504
         05 LINE + 1.
         10 COL 02 BACKGROUND-COLOR 1 FOREGROUND-COLOR 0 LOWLIGHT BLINK VALUE 'X'.
   505
   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
   508
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 LOWLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 LOWLIGHT BLINK VALUE 'X'.
   509
   510
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 LOWLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 LOWLIGHT BLINK VALUE 'X'.
         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'.
   515
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 LOWLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 LOWLIGHT BLINK VALUE 'X'.
   516
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 LOWLIGHT BLINK VALUE 'X'.
   517
         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'.
   523
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 LOWLIGHT BLINK VALUE 'X'.
   524
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 LOWLIGHT BLINK VALUE 'X'.
   526
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 LOWLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 LOWLIGHT BLINK VALUE 'X'.
   527
   528
         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 \text{ 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'.
   534
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 LOWLIGHT BLINK VALUE 'X'.
   535
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 LOWLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 LOWLIGHT BLINK VALUE 'X'.
   536
   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 I.TNF + 1.
```

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Dictionary File for COLORS
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ACS Cobol Xref v2.02.02
         10 COL 02 BACKGROUND-COLOR 5 FOREGROUND-COLOR 0 LOWLIGHT BLINK VALUE 'X'.
   541
   542
         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
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 LOWLIGHT BLINK VALUE 'X'.
   544
   545
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 LOWLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 LOWLIGHT BLINK VALUE 'X'.
   546
   547
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 6 LOWLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 LOWLIGHT BLINK VALUE 'X'.
   548
   549
         05 LINE + 1.
         10 COL 02 BACKGROUND-COLOR 6 FOREGROUND-COLOR 0 LOWLIGHT BLINK VALUE 'X'.
   550
   551
         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'.
   552
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 LOWLIGHT BLINK VALUE 'X'.
   554
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 LOWLIGHT BLINK VALUE
   555
         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'.
   556
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 LOWLIGHT BLINK VALUE 'X'.
   558
         05 LINE + 1.
         10 COL 02 BACKGROUND-COLOR 7 FOREGROUND-COLOR 0 LOWLIGHT BLINK VALUE 'X'.
   559
   560
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 1 LOWLIGHT BLINK VALUE
   561
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 LOWLIGHT BLINK VALUE
   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'.
   564
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 LOWLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 6 LOWLIGHT BLINK VALUE 'X'.
   566
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 LOWLIGHT BLINK VALUE 'X'.
   567
         *> #8
   568
         05 LINE 17.
   569
         10 COL 12 BACKGROUND-COLOR O FOREGROUND-COLOR O BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 BLINK VALUE 'X'.
   570
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 BLINK VALUE 'X'.
   571
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 BLINK VALUE 'X'.
   573
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 BLINK VALUE 'X'.
   574
   575
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 BLINK VALUE 'X'.
   576
   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'.
   580
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 BLINK VALUE 'X'.
   581
   582
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 BLINK VALUE 'X'.
         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
         05 LINE + 1.
   587
         10 COL 12 BACKGROUND-COLOR 2 FOREGROUND-COLOR 0 BLINK VALUE 'X'.
   588
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 BLINK VALUE 'X'.
   589
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 BLINK VALUE 'X'.
         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'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 BLINK VALUE 'X'.
   593
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 BLINK VALUE 'X'.
   594
```

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ACS Cobol Xref v2.02.02
                                 Dictionary File for COLORS
   595
         05 LINE + 1.
   596
        10 COL 12 BACKGROUND-COLOR 3 FOREGROUND-COLOR 0 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'.
   598
   599
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 BLINK VALUE 'X'.
   600
   601
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 BLINK VALUE 'X'.
   602
   603
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 BLINK VALUE 'X'.
   605
        10 COL 12 BACKGROUND-COLOR 4 FOREGROUND-COLOR 0 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 BLINK VALUE 'X'.
   606
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 BLINK VALUE 'X'.
   608
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 BLINK VALUE 'X'.
   609
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 BLINK VALUE 'X'.
   610
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 BLINK VALUE 'X'.
   611
   612
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 BLINK VALUE 'X'.
   613
         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'.
   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'.
   618
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 BLINK VALUE 'X'.
         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.
   623
         10 COL 12 BACKGROUND-COLOR 6 FOREGROUND-COLOR 0 BLINK VALUE 'X'.
         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'.
         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'.
   634
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 BLINK VALUE 'X'.
   635
   636
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 BLINK VALUE 'X'.
         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'.
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 BLINK VALUE 'X'.
   639
   640
         *> #9
   641
         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
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 HIGHLIGHT BLINK VALUE 'X'.
   644
   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'.
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 HIGHLIGHT BLINK VALUE 'X'.
   647
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 HIGHLIGHT BLINK VALUE 'X'.
```

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Dictionary File for COLORS
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ACS Cobol Xref v2.02.02
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 HIGHLIGHT BLINK VALUE 'X'.
   649
   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'.
   653
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 HIGHLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 HIGHLIGHT BLINK VALUE 'X'.
   654
   655
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 HIGHLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 HIGHLIGHT BLINK VALUE 'X'.
   656
   657
         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.
   659
   660
         10 COL 22 BACKGROUND-COLOR 2 FOREGROUND-COLOR 0 HIGHLIGHT BLINK VALUE 'X'.
   661
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 HIGHLIGHT BLINK VALUE 'X'.
   662
         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'.
   663
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 HIGHLIGHT BLINK VALUE 'X'.
   664
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 5 HIGHLIGHT BLINK VALUE 'X'.
   665
   666
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 HIGHLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 HIGHLIGHT BLINK VALUE 'X'.
   667
   668
         05 LINE + 1.
   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'.
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 HIGHLIGHT BLINK VALUE 'X'.
   671
   672
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 HIGHLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 HIGHLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 HIGHLIGHT BLINK VALUE 'X'.
   674
   675
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 HIGHLIGHT BLINK VALUE 'X'.
   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 0 HIGHLIGHT BLINK VALUE 'X'.
   678
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 HIGHLIGHT BLINK VALUE 'X'.
   679
         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'.
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 HIGHLIGHT BLINK VALUE 'X'.
   684
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 HIGHLIGHT BLINK VALUE 'X'.
   685
   686
         05 LINE + 1.
         10 COL 22 BACKGROUND-COLOR 5 FOREGROUND-COLOR O HIGHLIGHT BLINK VALUE 'X'.
   688
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 HIGHLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 HIGHLIGHT BLINK VALUE 'X'.
   689
   690
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 HIGHLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 HIGHLIGHT BLINK VALUE 'X'.
   691
   692
         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.
   696
         10 COL 22 BACKGROUND-COLOR 6 FOREGROUND-COLOR 0 HIGHLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 HIGHLIGHT BLINK VALUE 'X'.
   697
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 HIGHLIGHT BLINK VALUE 'X'.
   698
   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'.
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 HIGHLIGHT BLINK VALUE 'X'.
   701
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 HIGHLIGHT BLINK VALUE 'X'.
   702
```

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Dictionary File for COLORS
                                                               07/12/2019 16:57:00:20
ACS Cobol Xref v2.02.02
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 HIGHLIGHT BLINK VALUE 'X'.
   703
   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'.
   707
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 HIGHLIGHT BLINK VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 HIGHLIGHT BLINK VALUE 'X'.
   708
   709
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 HIGHLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 HIGHLIGHT BLINK VALUE 'X'.
   710
   711
        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.
   714
   715
         10 COL 32 BACKGROUND-COLOR O FOREGROUND-COLOR O LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   716
         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'.
   717
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   718
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   720
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 0 FOREGROUND-COLOR 6 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   721
   722
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   723
   724
         10 COL 32 BACKGROUND-COLOR 1 FOREGROUND-COLOR O LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 1 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   725
   726
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   727
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         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'.
   730
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   731
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   732
         05 I.TNF + 1.
   733
         10 COL 32 BACKGROUND-COLOR 2 FOREGROUND-COLOR O LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         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.
   742
        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'.
   743
   744
         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'.
   746
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   747
         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
         05 LINE + 1.
   751
         10 COL 32 BACKGROUND-COLOR 4 FOREGROUND-COLOR 0 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   752
   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'.
   755
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
```

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Dictionary File for COLORS
                                                               07/12/2019 16:57:00:20
ACS Cobol Xref v2.02.02
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   758
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   759
         05 \text{ LINE} + 1.
   760
         10 COL 32 BACKGROUND-COLOR 5 FOREGROUND-COLOR 0 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   761
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   763
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   764
         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'.
   767
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         05 LINE + 1.
   768
   769
         10 COL 32 BACKGROUND-COLOR 6 FOREGROUND-COLOR O LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   770
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 LOWLIGHT BLINK REVERSE-VIDEO VALUE
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   771
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   772
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   774
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   775
   776
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   778
         10 COL 32 BACKGROUND-COLOR 7 FOREGROUND-COLOR 0 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 1 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   779
   780
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         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'.
   785
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   786
         *> #11
   787
         05 LINE 17.
         10 COL 42 BACKGROUND-COLOR O FOREGROUND-COLOR O BLINK REVERSE-VIDEO VALUE 'X'.
   788
   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'.
   794
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 BLINK REVERSE-VIDEO VALUE 'X'.
   796
   797
         10 COL 42 BACKGROUND-COLOR 1 FOREGROUND-COLOR 0 BLINK REVERSE-VIDEO VALUE 'X'.
   798
         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'.
   804
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 BLINK REVERSE-VIDEO VALUE 'X'.
   805
         05 I.TNF. + 1.
         10 COL 42 BACKGROUND-COLOR 2 FOREGROUND-COLOR O BLINK REVERSE-VIDEO VALUE 'X'.
   806
   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
```

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Dictionary File for COLORS
ACS Cobol Xref v2.02.02
                                                               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.
   815
         10 COL 42 BACKGROUND-COLOR 3 FOREGROUND-COLOR O BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 BLINK REVERSE-VIDEO VALUE 'X'.
   816
   817
         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'.
   818
   819
        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'.
   821
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 BLINK REVERSE-VIDEO VALUE 'X'.
   822
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 BLINK REVERSE-VIDEO VALUE 'X'.
   823
         05 LINE + 1.
   824
         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'.
   825
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 BLINK REVERSE-VIDEO VALUE 'X'.
   826
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 BLINK REVERSE-VIDEO VALUE 'X'.
   828
         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'.
   830
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 BLINK REVERSE-VIDEO VALUE 'X'.
   832
         05 LINE + 1.
         10 COL 42 BACKGROUND-COLOR 5 FOREGROUND-COLOR 0 BLINK REVERSE-VIDEO VALUE 'X'.
   833
   834
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 BLINK REVERSE-VIDEO VALUE 'X'.
   836
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 BLINK REVERSE-VIDEO VALUE 'X'.
   837
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 BLINK REVERSE-VIDEO VALUE 'X'.
   838
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 BLINK REVERSE-VIDEO VALUE 'X'.
   839
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 6 BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 BLINK REVERSE-VIDEO VALUE 'X'.
   840
   841
         05 LINE + 1.
         10 COL 42 BACKGROUND-COLOR 6 FOREGROUND-COLOR O BLINK REVERSE-VIDEO VALUE 'X'.
   842
   843
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 BLINK REVERSE-VIDEO VALUE 'X'.
   844
   845
         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'.
   846
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 BLINK REVERSE-VIDEO VALUE 'X'.
   847
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 BLINK REVERSE-VIDEO VALUE 'X'.
   848
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 BLINK REVERSE-VIDEO VALUE 'X'.
   850
   851
         10 COL 42 BACKGROUND-COLOR 7 FOREGROUND-COLOR 0 BLINK REVERSE-VIDEO VALUE 'X'.
   852
         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'.
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 BLINK REVERSE-VIDEO VALUE 'X'.
   855
   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'.
   858
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 BLINK REVERSE-VIDEO VALUE 'X'.
   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'.
   863
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
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Dictionary File for COLORS
                                                               07/12/2019 16:57:00:21
ACS Cobol Xref v2.02.02
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   865
   866
         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'.
   869
         05 I.TNF. + 1.
         10 COL 52 BACKGROUND-COLOR 1 FOREGROUND-COLOR 0 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   870
   871
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 1 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   872
   873
         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'.
   874
   875
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   876
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   877
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   878
         05 LINE + 1.
         10 COL 52 BACKGROUND-COLOR 2 FOREGROUND-COLOR 0 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   879
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   880
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   882
         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'.
         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.
   888
         10 COL 52 BACKGROUND-COLOR 3 FOREGROUND-COLOR 0 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         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
   892
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   893
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   894
   895
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   896
   897
         10 COL 52 BACKGROUND-COLOR 4 FOREGROUND-COLOR 0 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   898
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   899
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   900
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   901
   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'.
   904
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   905
         05 LINE + 1.
   906
         10 COL 52 BACKGROUND-COLOR 5 FOREGROUND-COLOR O 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'.
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   910
         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'.
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   913
   914
         05 LINE + 1.
   915
         10 COL 52 BACKGROUND-COLOR 6 FOREGROUND-COLOR 0 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   916
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   917
         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.
   924
        10 COL 52 BACKGROUND-COLOR 7 FOREGROUND-COLOR 0 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   925
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 1 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   926
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   927
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   929
        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'.
   930
   931
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   932
        PROCEDURE DIVISION.
        000-Main SECTION.
   933
         DISPLAY S-COLORTST-SCR.
   934
   935
         STOP RUN.
   936
             *>>>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

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 $-\infty$ 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

```
_____
          >>SOURCE FORMAT IS FIXED
         IDENTIFICATION DIVISION.
         FUNCTION-ID. DAY-FROM-DATE.
   4
         *> This GNU COBOL user-defined function converts a Gregorian or **
         *> Julian date into a numeric day of the week.
         7
   8
         *> Arguments:
   10
         *> Calendar-Date A PIC 9 data item or numeric literal which **
                         will be treated as a calendar date as fol- **
   11
         *>
   12
         *>
                         lows:
                                                            **
   13
                         7-digit value: Interpreted as a Julian date **
   14
         *>
                                     in the form yyyyddd **
  15
         *>
  16
                         8-digit value: Interpreted as a Gregorian
   17
         *>
                                     date in the form yyyymmdd
   18
         *>
                                                            **
   19
         *> The result returned will be one of the following:
                                                            **
         *>
   21
         *> 0: The supplied date is invalid
         *> 1:
   22
               The supplied date is a Sunday
         *> 2: The supplied date is a Monday
   23
         *> .
   25
   26
                                                            **
         *> .
   27
         *> 7: The supplied date is a Saturday
   28
         29
         ENVIRONMENT DIVISION.
         CONFIGURATION SECTION.
   30
         REPOSITORY.
   31
   32
             FUNCTION ALL INTRINSIC.
        DATA DIVISION.
   33
         WORKING-STORAGE SECTION.
   34
   35
          01 WS-Input-Date-DT.
                                           PIC 9(4).
   36
             05 WS-ID-YYYY-NUM
                                           PIC 9(2).
   37
             05 WS-ID-MM-NUM
                                           PIC 9(2).
             05 WS-ID-DD-NUM
        01 WS-Y-NUM
   39
                                           BINARY-LONG.
   40
         01 WS-M-NUM
                                           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
   44
                                            USAGE BINARY-LONG
   45
                                            SIGNED.
   46
          PROCEDURE DIVISION USING L-Input-Date-DT
   47
                      RETURNING L-Output-Day-NUM.
          000-Main SECTION.
   48
             CALL "C$PARAMSIZE" USING 1
```

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Page: 1

GNU COBOL 2.1 23NOV2013 Source Listing

2014/03/27

C:/Users/tda010/Documents/Programs/Samples/DAY-FROM-DATE.cbl

```
______
               EVALUATE RETURN-CODE
   50
              WHEN 7
   52
                    IF TEST-DAY-YYYYDDD(L-Input-Date-DT) > 0
                        MOVE O TO L-Output-Day-NUM
   53
   54
                        GOBACK
   55
                    END-IF
                    MOVE DATE-OF-INTEGER(INTEGER-OF-DAY(L-Input-Date-DT))
   56
   57
                     TO WS-Input-Date-DT
                WHEN 8
   59
                    IF TEST-DATE-YYYYMMDD(L-Input-Date-DT) > 0
   60
                        MOVE O TO L-Output-Day-NUM
   61
                        GOBACK
                    END-IF
   62
                    MOVE L-Input-Date-DT TO WS-Input-Date-DT
   63
   64
                WHEN OTHER
   65
                    MOVE 0 TO L-Output-Day-NUM
   66
                    GOBACK
   67
                END-EVALUATE
   68
           *> IF january OR february
           *> y = year - 1
*> m = month + 1
   69
   70
                 m = month + 10
   71
           *> ELSE
           *>      y = year
*>      m = month - 2
   72
   73
           *> END-IF
   74
   75
           *> For Gregorian calendar:
                 result = (day + y + y/4 - y/100 + y/400 + (31*m)/12) \mod 7
   76
   77
           *> (All divisions are integer divisions, discarding any remainder)
   78
                IF WS-ID-MM-NUM = 1 OR 2
                    SUBTRACT 1 FROM WS-ID-YYYY-NUM GIVING WS-Y-NUM
   79
                    ADD WS-ID-MM-NUM, 10 GIVING WS-M-NUM
   81
                FLSE.
   82
                    MOVE WS-ID-YYYY-NUM TO WS-Y-NUM
   83
                    SUBTRACT 2 FROM WS-ID-MM-NUM GIVING WS-M-NUM
   84
                COMPUTE L-Output-Day-NUM =
   85
   86
                   WS-ID-DD-NUM
                  + WS-Y-NUM
   88
                  + INTEGER(WS-Y-NUM/4)
   89
                  - INTEGER(WS-Y-NUM/100)
   90
                  + INTEGER(WS-Y-NUM/400)
   91
                  + INTEGER((31*WS-M-NUM)/12)
   92
                DIVIDE L-Output-Day-NUM BY 7
   93
                   GIVING WS-Temp-NUM
                    REMAINDER L-Output-Day-NUM
   94
   95
                ADD 1 TO L-Output-Day-NUM
   96
                GOBACK
   97
   98
```

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GNU COBOL 2.1 23NOV2013 Cross-Reference Listing

2014/03/27

	C:/Users/tda	a010/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	80*	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

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 $\ensuremath{\mathsf{CBL_DELETE_FILE}}$ 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.

```
ACS Cobol Xref v2.02.04
                                Dictionary File for GCIC
                                                           06/03/2022 23:09:10:96 Page
                                                                                             1
             >>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".
    5
             *> CONFIGURATION SETTINGS: Set these switches before compiling:
    6
             *>
             *> Set these 2 for the compiler version.
    8
             >>DEFINE CONSTANT COMP-VERS AS 'GNUCOBOL 3.1.2 06MAR2022'
    q
    10
             >>DEFINE CONSTANT COMP-YEAR AS '2022'
   11
   12
             *> LINEDRAW Set to:
   13
             *> 0 To use spaces (no lines)
   14
             *>
                      To use the line-drawing characterset (PC codepage 437)
                  1
   15
             *>
                  2 To use conventional ASCII characters (+, -, |)
             *>
   16
             *>
   17
                       OSX USERS - To use the linedrawing characterset,
   18
             *>
                                    set your 'terminal' font to 'Lucida Console'
   19
             *>
   20
             *> OS
                         Set to one of the following:
                         'CYGWIN' For a Windows/Cygwin version
   21
             *>
   22
             *>
                         'MINGW'
                                    For a Windows/MinGW version
   23
             *>
                         osx,
                                    For a Macintosh OSX version
                         'UNIX'
                                   For a Unix/Linux version
   24
             *>
                         'WINDOWS' For a Native Windows version
   25
             *>
    26
   27
             \star\!\!\!> SELCHAR Set to the desired single character to be used as the red
   28
             *>
                        'feature selected' character on the screen.
   29
             *>
                        SUGGESTIONS: '>', '*', '=', '+'
   30
             *>
             *> LPP
                       Set to maximum printable lines per page when the listing
   31
                        should be generated for LANDSCAPE orientation (can be over-
   32
             *>
                        ridden at execution time using the GCXREF_LINES environment
   33
             *>
   34
             *>
                        variable.
   35
             *>
                       Set to maximum printable lines per page when the listing
   36
             *> LPPP
    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
                                         AS 'UNIX'
   42 GCO712 >>DEFINE CONSTANT OS
   43 GCO712 >>DEFINE CONSTANT SELCHAR AS '>'
   44 GC1213 >>DEFINE CONSTANT LPP AS 50
45 GC1213 >>DEFINE CONSTANT LPPP AS 60
                                                  *> LANDSCAPE (GCXREF_LINES)
                                                 *> PORTRAIT (GCXREF_LINES_PORT)
             *> -----
   46
             *> Now set these switches to establish initial (default) settings
   47
             *> for the various on-screen options. Set them to a value of
   48
   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
                                                    06/03/2022 23:09:10:96 Page
                            Dictionary File for GCIC
   55 GC0712 >>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):
   62
                                      1 = BS2000
           *>
   63
            *>
                                      2 = COBOL85
                                      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
            >NOTE< >NOTE< >NOTE< >NOTE< >NOTE<
   73
           *>
   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
            *> 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
   84
            *>
                                                                   **
   85
            *> This programs execution syntax is as follows:
                                                                   **
   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
            *> have the opportunity to change options, specify new ones
   91
                                                                   **
   92
            *> and specify any program execution arguments to be used if
            *> you select the 'Execute' option. When you press the Enter **
   94
            *> key the program will be compiled.
   95
            *>
                                                                   **
            96
                                                                   **
   97
   98
            *> The '010-Parse-Args' section in the PROCEDURE DIVISION has **
   99
            *> documentation on switches and their function.
            *>**********************
  100
            *>
  101
           *> AUTHOR:
  102
                        GARY L. CUTLER
                          Copyright (C) 2009-2018, Gary L. Cutler, GPL **
  103
           *>
           *> Updated by Vincent B Coen, 2018-2020+.
  104
  105
            *>
                                                                   **
            *> DATE-WRITTEN: June 14, 2009
  106
                                                                   **
  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	*>	GC0809	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	*>	GC0909	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	 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,	**		
148 149		CC0711	if specified. Tailored for 29APR2011 version of GNU COBOL 2.0	**		
150				**		
150	*>	GLC GLC	Replaced all switches with configuration settings; Tailored for 11FEB2012 version of GNU COBOL 2.0;	**		
152	*>	GLC	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	*>	GC0313	Expand the source code record from 80 chars to 256	**		
162	*>	GLC	to facilitate looking for "LINKAGE SECTION" in a	**		
			-			

```
06/03/2022 23:09:10:96
ACS Cobol Xref v2.02.04
                               Dictionary File for GCIC
                                                                                   Page
  163
                      free-format file.
             *> GC1113 Edited to support the change of "OpenCOBOL" to "GNU **
  164
             *> GLC COBOL"
             *> GC1213 Updated for 23NOV2013 version of GNU COBOL 2.1
  166
                                                                          **
  167
             *> GC0114 Introduce a "Press ENTER to Close" action after run- **
  168
             *> GLC ning the compiled program in the compiler window (F4)**
  169
             *> VC0617 Remove the Blinking in meny screen as uncomfortable **
             *> 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
  173
            *>
                     Added SET ENVIRONMENT "COB_EXIT_WAIT" TO "O" to
                      100-Initialization section.
  174
             *>
                                                                          **
  175
             *> VCO717 Replaced compile param instrinsic=all with
                                                                          **
             *> VBC intrinstics=ALL. Changed mod detail inits for Gary
  176
  177
             *>
                      from GCL to GLC.
                                                                          **
                      Update version printed to 2.2 20JUL2017.
  178
             *>
                                                                          **
  179
             *>
                      Should really get this from the compiler if avail?
  180
             *> VC1217 Update compiler version to v3.0 24DEC2017.
  181
             *>
                      and copyright to 2018 (in 3 places).
                                                                          **
  182
             *> VC0811 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
  196
                                             ORGANIZATION IS LINE SEQUENTIAL
  197
                                             FILE STATUS IS WS-FSM-Status-CD.
  198
              DATA DIVISION.
  199
              FILE SECTION.
  200
  201
              FD F-Cobc-Output-FILE.
  202
              01 F-Cobc-Output-REC
                                                      PIC X(256).
  203
  204
              FD F-Source-Code-FILE.
                                                      PIC X(256).
  205 GC0313 01 F-Source-Code-REC
  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 *>
  215 \star > The GnuCOBOL compiler is free software: you can redistribute
  216 *> it and/or modify it under the terms of the GNU General Public
```

5

```
ACS Cobol Xref v2.02.04
                                Dictionary File for GCIC
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                                                                                      Page
           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
   223
           MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
   224
           GNU General Public License for more details.
       *>
   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
       *>
        78 cob-color-black
   232
                                value 0.
   233
        78 COB-COLOR-BLUE
                                VALUE 1.
   234
        78 COB-COLOR-GREEN
                                VALUE 2.
   235
        78 COB-COLOR-CYAN
                                VALUE 3.
        78 COB-COLOR-RED
   236
                                VALUE 4.
   237
            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
        78 COB-SCR-OK
   243
                           VALUE O.
   244
       *> Function keys - Values 1xxx
   245
        78 COB-SCR-F1
                                VALUE 1001.
        78 COB-SCR-F2
                                VALUE 1002.
   246
   247
        78 COB-SCR-F3
                                VALUE 1003.
                                VALUE 1004.
   248
        78 COB-SCR-F4
   249
        78 COB-SCR-F5
                               VALUE 1005.
                                VALUE 1006.
        78 COB-SCR-F6
   250
   251
        78 COB-SCR-F7
                                VALUE 1007.
        78 COB-SCR-F8
   252
                                VALUE 1008.
        78 COB-SCR-F9
                                VALUE 1009.
   253
        78 COB-SCR-F10
   254
                                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
                                VALUE 1015.
        78 COB-SCR-F15
   260
        78 COB-SCR-F16
                                VALUE 1016.
        78 COB-SCR-F17
   261
                                VALUE 1017.
   262
        78 COB-SCR-F18
                                VALUE 1018.
   263
        78 COB-SCR-F19
                                VALUE 1019.
        78 COB-SCR-F20
                                VALUE 1020.
   264
        78 COB-SCR-F21
                                VALUE 1021.
   265
   266
        78 COB-SCR-F22
                                VALUE 1022.
   267
        78 COB-SCR-F23
                                VALUE 1023.
        78 COB-SCR-F24
   268
                                VALUE 1024.
   269
        78 COB-SCR-F25
                                VALUE 1025.
        78 COB-SCR-F26
                               VALUE 1026.
   270
```

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

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                                  Dictionary File for GCIC
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   325 *> on ACCEPT OMITTED
   326
        78 COB-SCR-INSERT
                                 VALUE 2011.
         78 COB-SCR-DELETE
                                  VALUE 2012.
   327
   328
         78 COB-SCR-BACKSPACE VALUE 2013.
   329
        78 COB-SCR-KEY-HOME VALUE 2014.
   330
        78 COB-SCR-KEY-END
                                 VALUE 2015.
        *> Input validation - Values 8xxx
   331
        78 COB-SCR-NO-FIELD VALUE 8000.
   332
   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.
                   10 WS-CS-Arg-H1-TXT
   340 GC0712
                                                          PIC X(76).
                     10 WS-CS-Arg-H2-TXT
                                                          PIC X(76).
   341 GC0712
   342 GCO712 05 WS-CS-Filenames-TXT.
  343 GC0712 10 VALUE 'BS2000'
344 GC0712 10 VALUE 'COBOL85'
345 GC0712 10 VALUE 'COBOL200'
346 GC0712 10 VALUE 'DEFAULT'
347 GC0712 10 VALUE 'IBM'
348 GC0712 10 VALUE 'MF'
349 GC0712 10 VALUE 'MF'
                                                          PIC X(9).
                      10 VALUE 'COBOL85'
                                                          PIC X(9).
                      10 VALUE 'COBOL2002'
                                                          PIC X(9).
                      10 VALUE 'DEFAULT'
                                                          PIC X(9).
                                                          PIC X(9).
                                                          PIC X(9).
                                                          PIC X(9).
   350 GCO712 05 WS-CS-Filenames-Table-TXT REDEFINES WS-CS-Filenames-TXT.
   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
                  05 WS-CS-Config-NUM
                                            VALUE 4
                                                           PIC 9(1).
   356 GC0712
   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.
361 GC0712 10 WS-CS-Extra-H1-TXT
                  10 WS-CS-Extra-H1-TXT
10 WS-CS-Extra-H2-TXT
                                                           PIC X(76).
   362 GC0712
                                                           PIC X(76).
   363 GC0712 05 WS-CS-Switch-Defaults-TXT.
                  10 VALUE F1
   364 GC0712
                                                           PIC 9(1). *> WS-CS-DEBUG-CHR
   365 GC0712
                    10 VALUE F4
                                                           PIC 9(1). *> WS-CS-EXECUTE-CHR
   366 GC0712
                      10 VALUE F8
                                                           PIC 9(1). *> WS-CS-FREE-CHR
   367 GC0712
                      10 VALUE F3
                                                           PIC 9(1). *> WS-CS-LIBRARY-CHR
   368 GC0712
                      10 VALUE F5
                                                           PIC 9(1). *> WS-CS-LISTING-CHR
   369 GC0712
                                                           PIC 9(1). *> WS-CS-NOFUNC-CHR
                      10 VALUE F6
   370 GC0712
                     10 VALUE F9
                                                           PIC 9(1). *> WS-CS-NOTRUNC-CHR
                  10 VALUE F2
   371 GC0712
                                                           PIC 9(1). *> WS-CS-TRACEALL-CHR
   372 GC0712
                    10 VALUE F7
                                                           PIC 9(1). *> WS-CS-WARNALL-CHR
   373 GCO712 05 WS-CS-All-Switches-TXT REDEFINES
   374 GC0712
                                              WS-CS-Switch-Defaults-TXT.
                   10 WS-CS-DEBUG-CHR
10 WS-CS-EXECUTE-CHR
10 WS-CS-FREE-CHR
   375 GC0712
                                                           PIC X(1).
   376 GC0712
                                                          PIC X(1).
   377 GC0712
                                                          PIC X(1).
   378 GC0712
                    10 WS-CS-LIBRARY-CHR
                                                          PIC X(1).
```

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                    10 WS-CS-LISTING-CHR
  379 GC0712
                                                      PIC X(1).
  380 GC0712
                   10 WS-CS-NOFUNC-CHR
                                                     PIC X(1).
                  10 WS-CS-NOTRUNC-CHR
                                                     PIC X(1).
  381 GC0712
  382 GC0712
                  10 WS-CS-TRACEALL-CHR
                                                     PIC X(1).
  383 GC0712
                                                     PIC X(1).
                   10 WS-CS-WARNALL-CHR
  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
  395
                                                      PIC X(12).
  396
  397 GC1113 O1 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
             01 WS-File-Status-Message-TXT.
                  05 VALUE 'Status Code: '
                                                     PIC X(13).
  404
                  05 WS-FSM-Status-CD
  405
                                                      PIC 9(2).
                  05 VALUE ', Meaning: '
  406
                                                      PIC X(11).
  407
                  05 WS-FSM-Msg-TXT
                                                     PIC X(25).
  408
  409 GC0909 01 WS-Horizontal-Line-TXT
                                                     PIC X(80).
  410 GC0909
  411
             01 WS-I-SUB
                                                      USAGE BINARY-LONG.
  412
  413
             01 WS-J-SUB
                                                      USAGE BINARY-LONG.
  414
  415 GC1213 01 WS-Listing-CD VALUE F5
                                                      PIC 9(1).
  416
                                                      PIC X(256).
  417 GC0712 01 WS-Listing-Filename-TXT
  418
  419 GC1213 01 WS-Listing-TXT VALUE SPACES
                                                      PIC X(27).
  420
                                                      PIC XXXX/XX/XXBXX/XX.
  421
              01 WS-OC-Compile-DT
  422
  423 GC0712 >>IF OS = 'CYGWIN'
  424 GC0712 01 WS-OS-Dir-CHR
                                      VALUE '/'
                                                      PIC X(1).
  425 GC0712 78 WS-OS-Exe-Ext-CONST VALUE '.exe'.
  426 GCO712 78 WS-OS-Lib-Ext-CONST VALUE '.dll'.
  427 GCO712 78 WS-OS-Lib-Type-CONST VALUE 'DLL)'.
                                      VALUE 2
  428 GC0712 01 WS-OS-Type-CD
                                                      PIC 9(1).
  429 GC0712 >>ELIF OS = 'MINGW'
  430 GC0712 01 WS-OS-Dir-CHR
                                                      PIC X(1).
                                      VALUE '\'
  431 GCO712 78 WS-OS-Exe-Ext-CONST VALUE '.exe'.
  432 GCO712 78 WS-OS-Lib-Ext-CONST VALUE '.dll'.
```

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ACS Cobol Xref v2.02.04
                                Dictionary File for GCIC
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  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'
                                       VALUE '/'
  436 GC0712 01 WS-OS-Dir-CHR
                                                       PIC X(1).
                                      VALUE ''.
  437 GC0712 78 WS-OS-Exe-Ext-CONST
  438 GCO712 78 WS-OS-Lib-Ext-CONST VALUE '.dylib'.
  439 GC0712 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'
  448 GC0712 01 WS-OS-Dir-CHR
                                       VALUE '\'
                                                       PIC X(1).
  449 GCO712 78 WS-OS-Exe-Ext-CONST VALUE '.exe'.
  450 GCO712 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.
                  88 WS-OS-Cygwin-BOOL VALUE 2.
  455 GC0909
  456 GC0712
                 88 WS-OS-UNIX-BOOL
                                       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).
                  05 VALUE 'UNIX/Linux'
                                                       PIC X(14).
  462
                  O5 VALUE 'OSX'
                                                       PIC X(14).
  463
                  05 VALUE 'Windows/MinGW'
  464
                                                       PIC X(14).
  465
              01 WS-OS-Types-TXT REDEFINES WS-OS-Type-FILLER-TXT.
                  05 WS-OS-Type-TXT
  466
                                                       OCCURS 5 TIMES
  467
                                                       PIC X(14).
  468
              01 WS-Output-Msg-TXT
                                                       PIC X(80).
  469
  470
  471
              01 WS-Path-Delimiter-CHR
                                                       PIC X(1).
  472
              01 WS-Prog-Extension-TXT
                                                       PIC X(256).
  473
  474
              01 WS-Prog-Folder-TXT
  475
                                                       PIC X(256).
  476
  477
       GCO712 01 WS-Prog-File-Name-TXT.
  478 GC0712
                  05 WS-PFN-CHR
                                                       OCCURS 256 TIMES
       GC0712
                                                       PIC X(1).
  479
  480
  481 GC0712 01 WS-Pgm-Nm-TXT
                                                       PIC X(31).
  482
  483
              01 WS-Runtime-Switches-TXT.
  484
                                                       PIC X(1).
                  05 WS-RS-Compile-OK-CHR
  485
                     88 WS-RS-Compile-OK-BOOL
                                                       VALUE 'Y'.
  486 GC0909
                     88 WS-RS-Compile-OK-Warn-BOOL
                                                       VALUE 'W'.
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                                                                                                                                                   10
                                88 WS-RS-Compile-Failed-BOOL
    487
                                                                                      VALUE 'N'.
                           WS-RS-Quote-CHR

88 WS-RS-Quote-CHR

88 WS-RS-Quote-CHR

88 WS-RS-Double COMPLETE POOL

88 WS
    488 GC0609 05 WS-RS-Complete-CHR
    489 GC0609
    490 GC0609
                            05 WS-RS-Quote-CHR
88 WS-RS-Double-Quote-Used-BOOL
VALUE 'Y' FALSE 'N'.
PIC X(1).
    491 GC0712 05 WS-RS-Quote-CHR
492 GC0712 88 WS-RS-Double-
493 GC0809 05 WS-RS-IDENT-DIV-
                            05 WS-RS-IDENT-DIV-CHR
                           88 WS-RS-1st-Prog-Complete-BOOL VALUE 'Y'.
88 WS-RS-More-To-1st-Prog-BOOL VALUE 'N'.
    494 GC0809
    495 GC0809
                          05 WS-RS-No-Switch-Chgs-CHR
                                                                                     PIC X(1).
    497
                             88 WS-RS-No-Switch-Changes-BOOL VALUE 'Y'.
    498
                                 88 WS-RS-Switch-Changes-BOOL VALUE 'N'.
    499 GC0709
                         05 WS-RS-Output-File-Busy-CHR
                                                                                       PIC X(1).
                            88 WS-RS-Output-File-Busy-BOOL VALUE 'Y'.
88 WS-RS-Output-File-Avail-BOOL VALUE 'N'.
    500 GC0709
    501 GC0709
                         05 WS-RS-Source-Record-Type-CHR
    502 GC0809
                                                                                      PIC X(1).
                            88 WS-RS-Source-Rec-Linkage-BOOL VALUE 'L'.
    503 GC0809
                           88 WS-RS-Source-Rec-Ident-BOOL VALUE 'I'.
    504 GC0809
    505 GC0712
                               88 WS-RS-Source-Rec-Ignored-BOOL VALUE ''.
                  05 WS-RS-Switch-Error-CHR PIC X(1).
88 WS-RS-Switch-Is-Bad-BOOL VALUE 'Y'
    506
    507
                                                                                        VALUE 'Y'.
                                  88 WS-RS-Switch-Is-Good-BOOL
    508
                                                                                       VALUE 'N'.
    509
    510
                      01 WS-Tally-QTY
                                                                                        USAGE BINARY-LONG.
    511
                      SCREEN SECTION.
    512
    513
                     *>
    514
                     *> Here is the layout of the GCic screen.
    515
                     *> The sample screen below shows how the screen would look if the LINEDRAW
    516
                    *> 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
                     *>
                                                           3 4 5
    522
                     523
                     524
    525 VC 01 *> GCic (2020/08/11 23:00) - GNU COBOL V3.1 01July2020 Interactive Compilation
                02 *>+-----
                03 *>| Folder: E:\GNU COBOL\Samples
    527
    528
                04 *>| Filename: GCic.cbl
    529
    530
                06 *> Set/Clr Switches Via F1-F9; Set Config Via F12; ENTER Key Compiles; ESC Quits
                07 *>+-----
    531
                08 *>| F1 Assume WITH DEBUGGING MODE F6 "FUNCTION" Is Optional | Current |
    532
                09 *>| F2 Procedure+Statement Trace F7 Enable All Warnings | Config: |
10 *>| F3 Make A Library (DLL) F8 Source Is Free-Format | XXXXXXXXXX |
    534
                11 *>| F4 Execute If Compilation OK F9 No COMP/BINARY Truncation |
    535
    536
                12 *>| F5 >Produce Listing (Landscape)
                13 *>+-----
    537
                14 *> Extra "cobc" Switches, If Any ("-save-temps=xxx" Prevents Listings):
    538
                15 *>+-----
    539
                16 *>| ______|
    540
```

```
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ACS Cobol Xref v2.02.04
                                                                                11
         17 *>| ______ |
  542
         19 *> Program Execution Arguments, If Any:
  544
  545
         21 *>| ______ |
  546
  547
         23 *>+-----+
  548 VC 24 *> GCic Copyright (C) 2009-2022, Gary L. Cutler, GPL
  549
           *>12345678901234567890123456789012345678901234567890123456789012345678901234567890
                1 2
  551
           *>
                                    3 4 5 6 7
  552
           *>
  553
           *> If this program is run on Windows, it must run with codepage 437 activated to
  554
           *> display the line-drawing characters. With a native Windows build or a
           *> Windows/MinGW build, one could use the command 'chcp 437' to set that codepage
  555
  556
           *> for display within a Windows console window (that should be the default though).
  557
           *> With a Windows/Cygwin build, set the environment variable CYGWIN to a value of
  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
                                        VALUE ' '.
  567
            78 LD-UL-Corner
  568
            78 LD-LL-Corner
                                        VALUE ' '.
                                        VALUE ''.
  569
            78 LD-UR-Corner
                                        VALUE ' '.
            78 LD-LR-Corner
  570
            78 LD-Upper-T
                                        VALUE ' '.
  571
                                        VALUE ''.
  572
            78 LD-Lower-T
  573
            78 LD-Horiz-Line
                                        VALUE ''.
                                        VALUE ' '.
  574
            78 I.D-Vert-Line
  575
            >>ELIF LINEDRAW IS EQUAL TO 1
            78 LD-UL-Corner
                                        VALUE X'DA'.
  576
  577
            78 LD-LL-Corner
                                        VALUE X'CO'.
           78 LD-UR-Corner
  578
                                        VALUE X'BF'.
  579
            78 LD-LR-Corner
                                        VALUE X'D9'.
  580
            78 LD-Upper-T
                                        VALUE X'C2'.
            78 LD-Lower-T
                                       VALUE X'C1'.
  581
  582
            78 LD-Horiz-Line
                                        VALUE X'C4'.
                                        VALUE X'B3'.
  583
            78 LD-Vert-Line
  584
            >>ELSE
            78 LD-UL-Corner
  585
                                        VALUE '+'.
            78 LD-LL-Corner
                                        VALUE '+'.
  586
  587
            78 LD-UR-Corner
                                        VALUE '+'.
                                       VALUE '+'.
  588
            78 LD-LR-Corner
            78 LD-Upper-T
  589
                                       VALUE '+'.
                                       VALUE '+'.
  590
            78 LD-Lower-T
                                       VALUE '-'.
  591
            78 LD-Horiz-Line
                                       VALUE '|'.
            78 LD-Vert-Line
  592
            >>END-IF
  593
  594
```

```
ACS Cobol Xref v2.02.04
                               Dictionary File for GCIC
                                                          06/03/2022 23:09:10:97
                                                                                   Page
                                                                                          12
              01 S-Blank-SCR LINE 1 COLUMN 1 BLANK SCREEN.
  595
  596
  597
              O1 S-Switches-SCR BACKGROUND-COLOR COB-COLOR-BLACK
                               FOREGROUND-COLOR COB-COLOR-WHITE AUTO.
  598
  599
             *>
             *> GENERAL SCREEN FRAMEWORK
  600
  601
             *>
                 O3 BACKGROUND-COLOR COB-COLOR-BLACK
  602
  603
                    FOREGROUND-COLOR COB-COLOR-GREEN HIGHLIGHT.
                    05 LINE 02 COL 01
                                              VALUE LD-UL-Corner.
  604 GC0712
                              COL 02 PIC X(78) FROM WS-Horizontal-Line-TXT.
  605 GC0712
                    05
                    05
                              COL 80
                                              VALUE LD-UR-Corner.
  606
  607
  608 GC0712
                   05 LINE 03 COL 01
                                               VALUE LD-Vert-Line.
  609
                    05
                             COL 80
                                               VALUE LD-Vert-Line.
  610
                   05 LINE 04 COL 01
  611 GC0712
                                               VALUE LD-Vert-Line.
  612
                    05
                              COL 80
                                               VALUE LD-Vert-Line.
  613
  614 GC0712
                   05 LINE 05 COL 01
                                               VALUE LD-LL-Corner.
  615
       GC0712
                              COL 02 PIC X(78) FROM WS-Horizontal-Line-TXT.
  616
                    05
                              COL 80
                                               VALUE LD-LR-Corner.
  617
  618 GC0712
                   05 LINE 07 COL 01
                                               VALUE LD-UL-Corner.
                              COL 02 PIC X(65) FROM WS-Horizontal-Line-TXT.
  619 GC0712
  620 GC0712
                   05
                              COL 67
                                              VALUE LD-Upper-T.
                   05
                              COL 68 PIC X(12) FROM WS-Horizontal-Line-TXT.
  621 GC0712
  622
                   05
                              COL 80
                                               VALUE LD-UR-Corner.
  623
  624 GC0712
                   05 LINE 08 COL 01
                                              VALUE LD-Vert-Line.
  625 GC0712
                   05 COL 67
                                              VALUE LD-Vert-Line.
                              COL 80
                                              VALUE LD-Vert-Line.
  626
  627
  628 GC0712 05 LINE 09 COL 01
                                              VALUE LD-Vert-Line.
  629 GC0712
                   05 COL 67
                                              VALUE LD-Vert-Line.
  630
                   05
                              COL 80
                                               VALUE LD-Vert-Line.
  631
                   05 LINE 10 COL 01
  632 GC0712
                                              VALUE LD-Vert-Line.
  633 GC0712
                   05
                              COL 67
                                               VALUE LD-Vert-Line.
  634
                    05
                              COL 80
                                               VALUE LD-Vert-Line.
  635
  636 GC0712
                   05 LINE 11 COL 01
                                              VALUE LD-Vert-Line.
  637
       GC0712
                    05
                              COL 67
                                               VALUE LD-Vert-Line.
  638
                    05
                              COL 80
                                               VALUE LD-Vert-Line.
  639
  640 GC0712
                   05 LINE 12 COL 01
                                              VALUE LD-Vert-Line.
  641 GC0712
                              COL 67
                                               VALUE LD-Vert-Line.
                    05
                   05
  642
                              COL 80
                                               VALUE LD-Vert-Line.
  643
  644 GC0712
                   05 LINE 13 COL 01
                                              VALUE LD-LL-Corner.
                              COL 02 PIC X(65) FROM WS-Horizontal-Line-TXT.
  645 GC0712
                    05
  646 GC0712
                              COL 67 VALUE LD-Lower-T.
                   05
  647 GC0712
                              COL 68 PIC X(12) FROM WS-Horizontal-Line-TXT.
                   05
                                               VALUE LD-LR-Corner.
  648
                              COL 80
```

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                                                             06/03/2022 23:09:10:97
                                                                                       Page
                                                                                              13
   649
   650
       GC0712
                    05 LINE 15 COL 01
                                                 VALUE LD-UL-Corner.
                                COL 02 PIC X(78) FROM WS-Horizontal-Line-TXT.
   651
   652
                                COL 80
                                                 VALUE LD-UR-Corner.
   653
                    05 LINE 16 COL 01
   654
       GC0712
                                                 VALUE LD-Vert-Line.
   655
                     05
                               COL 80
                                                 VALUE LD-Vert-Line.
   656
   657 GC0712
                    05 LINE 17 COL 01
                                                 VALUE LD-Vert-Line.
                                                 VALUE LD-Vert-Line.
   658
                               COT. 80
   659
                    05 LINE 18 COL 01
                                                 VALUE LD-LL-Corner.
   660 GC0712
   661 GC0712
                    05
                               COL 02 PIC X(78) FROM WS-Horizontal-Line-TXT.
   662
                     05
                                COL 80
                                                 VALUE LD-LR-Corner.
   663
                    05 LINE 20 COL 01
                                                 VALUE LD-UL-Corner.
   664 GC0712
                               COL 02 PIC X(78) FROM WS-Horizontal-Line-TXT.
   665
       GC0712
   666
                     05
                                COL 80
                                                 VALUE LD-UR-Corner.
   667
   668
       GC0712
                    05 LINE 21 COL 01
                                                 VALUE LD-Vert-Line.
                               COL 80
   669
                                                 VALUE LD-Vert-Line.
   670
                                                 VALUE LD-Vert-Line.
   671
       GC0712
                    05 LINE 22 COL 01
   672
                     05
                               COL 80
                                                 VALUE LD-Vert-Line.
   673
   674 GC0712
                     05 LINE 23 COL 01
                                                 VALUE LD-LL-Corner.
                               COL 02 PIC X(78) FROM WS-Horizontal-Line-TXT.
   675 GC0712
                     05
                               COL 80
   676
                     05
                                                 VALUE LD-LR-Corner.
   677
             *> TOP AND BOTTOM LINES
   678
   679
             *>
   680 GC0712
                  O3 BACKGROUND-COLOR COB-COLOR-BLUE
   681
                    FOREGROUND-COLOR COB-COLOR-WHITE HIGHLIGHT.
   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
                    FOREGROUND-COLOR COB-COLOR-CYAN HIGHLIGHT.
   693
   694 GC0712
                     05 LINE 06 COL 02 VALUE 'Set/Clr Switches Via F1-F9; ' &
   695 GC0712
                                             'Set Config Via F12; Enter Key ' &
   696 GC0712
                                             'Compiles; Esc Quits'.
   697 GC0712
                    05 LINE 14 COL 02 VALUE 'Extra "cobc" Switches, If Any ' \&
                                             '("-save-temps=xxx" Prevents ' &
   698 GC0712
   699 GC0712
                                             'Listings):'.
   700 GC0712
                    05 LINE 19 COL 02 VALUE 'Program Execution Arguments, ' &
                                             'If Any:'.
   701 GC0712
   702 GC0712
                 O3 BACKGROUND-COLOR COB-COLOR-BLACK
```

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Dictionary File for GCIC
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                                                                                           Page
                                                                                                   14
                     FOREGROUND-COLOR COB-COLOR-WHITE HIGHLIGHT.
   703 GC0712
   704 GC0712
                     05 LINE 06 COL 23 VALUE 'F1'.
   705 GC0712
                     O5 COL 26 VALUE 'F9'.
   706 GC0712
                    05
                                 COL 45 VALUE 'F12'.
   707 GC0712
                     05
                                 COL 50 VALUE 'ENTER'.
   708 GC0712
                     05
                                 COL 70 VALUE 'ESC'.
   709
              *> TOP SECTION BACKGROUND
   710
   711
                  O3 BACKGROUND-COLOR COB-COLOR-BLACK
   712
   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: '.
   721
                     05 LINE 03 COL 67 VALUE ': Compile
   722 GC0712
   723
        GC0712
                     05 LINE 04 COL 65 VALUE ': Quit
   724
              *> TOP SECTION PROGRAM INFO
   725
   726
                   O3 BACKGROUND-COLOR COB-COLOR-BLACK
   727
                      FOREGROUND-COLOR COB-COLOR-WHITE HIGHLIGHT.
   728
   729 GC0712
                      05 LINE 03 COL 13 PIC X(66) FROM WS-Prog-File-Name-TXT.
   730 GC0712
                      05 LINE 04 COL 13 PIC X(66) FROM WS-Prog-Folder-TXT.
   731
   732
              *> MIDDLE LEFT SECTION F-KEYS
   733
              *>
                  O3 BACKGROUND-COLOR COB-COLOR-BLACK
   734
   735
                   FOREGROUND-COLOR COB-COLOR-WHITE HIGHLIGHT.
                    05 LINE 08 COL 03 VALUE 'F1'.
   736 GC0712
  737 GC0712 05 LINE 09 COL 03 VALUE 'F2'.
738 GC0712 05 LINE 10 COL 03 VALUE 'F3'.
739 GC0712 05 LINE 11 COL 03 VALUE 'F4'.
740 GC0712 05 LINE 12 COL 03 VALUE 'F5'.
                    05 LINE 09 COL 03 VALUE 'F2'.
   741
                   05 LINE 08 COL 35 VALUE 'F6'.
   742 GC0712
   743 GC0712
                     05 LINE 09 COL 35 VALUE 'F7'.
   744 GC0712
                     05 LINE 10 COL 35 VALUE 'F8'.
                     05 LINE 11 COL 35 VALUE 'F9'.
   745 GC0712
   746
              *>
   747
              *> MIDDLE LEFT SECTION SWITCHES
   748
   749
                   O3 BACKGROUND-COLOR COB-COLOR-BLACK
   750
                    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 10 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
```

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ACS Cobol Xref v2.02.04
                                    Dictionary File for GCIC
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                                                                                                         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-FREE-CHR.
   759 GC0712
   760 GC0712
                      05 LINE 11 COL 38 PIC X(1) FROM WS-CS-NOTRUNC-CHR.
   761
              *>
               *> MIDDLE LEFT SECTION BACKGROUND
   762
   763
                   O3 BACKGROUND-COLOR COB-COLOR-BLACK
   764
                    FOREGROUND-COLOR COB-COLOR-GREEN HIGHLIGHT.
   765
   766 GC0712
                     05 LINE 08 COL 07 VALUE 'Assume WITH DEBUGGING MODE'.
   767 GC0712 05 LINE 09 COL 07 VALUE 'ASSMINE WITH DEBOGRING MODE'.
768 GC0712 05 LINE 10 COL 07 VALUE 'Procedure+Statement Trace'.
769 GC0712 05 COL 23 VALUE WS-OS-Lib-Type-CONST.
770 GC0712 05 LINE 11 COL 07 VALUE 'Execute If Compilation OK'.
771 GC1213 05 LINE 12 COL 07 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
                      05 LINE 10 COL 39 VALUE 'Source Is Free-Format
   775 GC0712
   776 GC0712
                      O5 LINE 11 COL 39 VALUE 'No COMP/BINARY Truncation '.
   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
   785
               *> MIDDLE RIGHT SECTION CONFIG FILE
   786
   787
                    O3 BACKGROUND-COLOR COB-COLOR-BLACK
                    FOREGROUND-COLOR COB-COLOR-WHITE HIGHLIGHT.
   788
   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
                   O3 BACKGROUND-COLOR COB-COLOR-BLACK
   794
   795
                     FOREGROUND-COLOR COB-COLOR-WHITE HIGHLIGHT.
   796 GC0712
                       05 LINE 16 COL 03 PIC X(76) USING WS-CS-Extra-H1-TXT.
                      05 LINE 17 COL 03 PIC X(76) USING WS-CS-Extra-H2-TXT.
   797 GC0712
   798 GC0712
                      05 LINE 21 COL 03 PIC X(76) USING WS-CS-Arg-H1-TXT.
                      05 LINE 22 COL 03 PIC X(76) USING WS-CS-Arg-H2-TXT.
   799 GC0712
   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
   805
   806
   807
   808
               *> 9xx-xxx All TERMINATION procedures
   809
   810
```

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Dictionary File for GCIC 06/03/2022 23:09:10:98 Page
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                                                                                                                                                                                                               16
                              DECLARATIVES.
                             000-File-Error SECTION.
      812
                                 USE AFTER STANDARD ERROR PROCEDURE ON F-Source-Code-FILE.
                                     COPY FileStat-Msgs
      814
                            * REPLACING STATUS BY WS-FSM-Status-CD
      815
      816
                                                                MSG BY WS-FSM-Msg-TXT.
      817
                              *> ** Author: Gary L. Cutler
      818
      819
                             *> ** CutlerGL@gmail.com
                                                                                                                                                                            **
                             *> **
      821
                             *> ** This copybook defines an EVALUATE statement capable of
      822
                              *> ** translating two-digit FILE-STATUS codes to a message.
                                                                                                                                                                           **
      823
                             *> **
                                                                                                                                                                           **
      824
                              *> ** Use the REPLACING option to COPY to change the names of
      825
                             *> ** the MSG and STATUS identifiers to the names your program **
      826
                             *> ** needs.
                            EVALUATE WS-FSM-Status-CD
WHEN 00 MOVE 'SUCCESS ' TO WS-FSM-Msg-TXT
WHEN 02 MOVE 'SUCCESS DUPLICATE ' TO WS-FSM-Msg-TXT
WHEN 04 MOVE 'SUCCESS INCOMPLETE ' TO WS-FSM-Msg-TXT
WHEN 05 MOVE 'SUCCESS OPTIONAL ' TO WS-FSM-Msg-TXT
WHEN 07 MOVE 'SUCCESS NO UNIT ' TO WS-FSM-Msg-TXT
WHEN 10 MOVE 'END OF FILE ' TO WS-FSM-Msg-TXT
WHEN 14 MOVE 'OUT OF KEY RANGE ' TO WS-FSM-Msg-TXT
WHEN 21 MOVE 'KEY INVALID ' TO WS-FSM-Msg-TXT
WHEN 22 MOVE 'KEY EXISTS ' TO WS-FSM-Msg-TXT
WHEN 23 MOVE 'KEY EXISTS ' TO WS-FSM-Msg-TXT
WHEN 30 MOVE 'PERMANENT ERROR ' TO WS-FSM-Msg-TXT
WHEN 31 MOVE 'INCONSISTENT FILENAME ' TO WS-FSM-Msg-TXT
WHEN 34 MOVE 'BOUNDARY VIOLATION ' TO WS-FSM-Msg-TXT
WHEN 35 MOVE 'FILE NOT FOUND ' TO WS-FSM-Msg-TXT
WHEN 37 MOVE 'PERMISSION DENIED ' TO WS-FSM-Msg-TXT
WHEN 38 MOVE 'CLOSED WITH LOCK ' TO WS-FSM-Msg-TXT
WHEN 39 MOVE 'CONFLICT ATTRIBUTE ' TO WS-FSM-Msg-TXT
WHEN 41 MOVE 'ALREADY OPEN ' TO WS-FSM-Msg-TXT
WHEN 42 MOVE 'NOT OPEN ' TO WS-FSM-Msg-TXT
WHEN 43 MOVE 'READ NOT DONE ' TO WS-FSM-Msg-TXT
WHEN 44 MOVE 'READ RROR ' TO WS-FSM-Msg-TXT
WHEN 45 MOVE 'READ ERROR ' TO WS-FSM-Msg-TXT
WHEN 46 MOVE 'READ ERROR ' TO WS-FSM-Msg-TXT
WHEN 47 MOVE 'INPUT DENIED ' TO WS-FSM-Msg-TXT
WHEN 48 MOVE 'OUTPUT DENIED ' TO WS-FSM-Msg-TXT
WHEN 48 MOVE 'INPUT DENIED ' TO WS-FSM-Msg-TXT
WHEN 49 MOVE 'INPUT DENIED ' TO WS-FSM-Msg-TXT
WHEN 49 MOVE 'INPUT DENIED ' TO WS-FSM-Msg-TXT
WHEN 51 MOVE 'RECORD LOCKED ' TO WS-FSM-Msg-TXT
WHEN 52 MOVE 'END-OF-PAGE ' TO WS-FSM-Msg-TXT
WHEN 51 MOVE 'RECORD LOCKED ' TO WS-FSM-Msg-TXT
WHEN 51 MOVE 'FILE SHARING FAILURE ' TO WS-FSM-Msg-TXT
WHEN 51 MOVE 'FILE SHARING FAILURE ' TO WS-FSM-Msg-TXT
WHEN 61 MOVE 'FILE SHARING FAILURE ' TO WS-FSM-Msg-TXT
WHEN 91 MOVE 'FILE SHARING FAILURE ' TO WS-FSM-Msg-TXT
      828
                                        EVALUATE WS-FSM-Status-CD
      829
      830
      831
      832
      833
      834
      836
      837
      838
      839
      840
      841
      843
      844
      845
      846
      847
      848
      850
      851
      852
      853
      854
      855
      856
                                         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
      861
                                       MOVE SPACES TO WS-Output-Msg-TXT
      862
                                         IF WS-FSM-Status-CD = 35
      863
                                                 DISPLAY
      864
                                                           'File not found: "'
```

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                      Dictionary File for GCIC
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                                                                17
  865
                  TRIM(WS-File-Name-TXT,TRAILING)
  866
  867
             ELSE
  868
               DISPLAY
  869
                  'Error accessing file: "'
                  TRIM(WS-File-Name-TXT, TRAILING)
  870
  871
            END-IF
 872
 873
            GOBACK
  874
         END DECLARATIVES.
  875
  876
  877
         000-Main SECTION.
  878
            PERFORM 100-Initialization
 879 GC0609
             SET WS-RS-Not-Complete-BOOL TO TRUE
  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
         SET ENVIRONMENT 'COB_SCREEN_EXCEPTIONS' TO 'Y'
  905
             SET ENVIRONMENT 'COB_SCREEN_ESC'
  906
                                        TO 'Y'
            SET ENVIRONMENT "COB_EXIT_WAIT"
  907
     VC0617
  908
         *>*******************
  909
         *> Get GCic Compilation Date/Time
         *>**********************
  910
             MOVE WHEN-COMPILED (1:12) TO WS-OC-Compile-DT
  911
  912
             INSPECT WS-OC-Compile-DT
               REPLACING ALL '/' BY ':'
  913
  914
               AFTER INITIAL SPACE
  915
         *>**********************
 916
         *> Convert WS-CS-All-Switches-TXT to Needed Alphanumeric Values**
  917
         *>************************
  918
            INSPECT WS-CS-All-Switches-TXT
```

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Dictionary File for GCIC
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                                                                            18
  919
                  REPLACING ALL 'O' BY SPACE
  920
                         ALL '1' BY SELCHAR
                          ALL '2' BY SELCHAR
  921 GC1213
       *>******************
  922
  923
           *> Process filename (the only command-line argument)
  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 "'"
  928 GC0712
                 MOVE WS-Cmd-Args-TXT(WS-Cmd-SUB:1)
  929 GC0712
                   TO WS-Cmd-End-Quote-CHR
  930 GC0712
                ADD 1 TO WS-Cmd-SUB
  931 GC0712
                UNSTRING WS-Cmd-Args-TXT
  932 GC0712
                    DELIMITED BY WS-Cmd-End-Quote-CHR
  933 GC0712
                     INTO WS-File-Name-TXT
  934 GC0712
                     WITH POINTER WS-Cmd-SUB
  935 GC0712 ELSE
              UNSTRING WS-Cmd-Args-TXT
  936 GC0712
  937 GC0712
                     DELIMITED BY ALL SPACES
  938 GC0712
                     INTO WS-File-Name-TXT
  939 GC0712
                     WITH POINTER WS-Cmd-SUB
  940 GC0712 END-IF
  941
               IF WS-File-Name-TXT = SPACES
            DISPLAY 'No program filename was specified'
  942 GC0712
                 PERFORM 900-Terminate
  943
           * ----- Control will NOT return
  944
              END-IF
  945
  946
           947
           *> Determine if 'Make A Library' feature should be forced 'ON' **
  948
           PERFORM 240-Find-LINKAGE-SECTION
  949
          *>************************
          *> Split 'WS-File-Name-TXT' into 'WS-Prog-Folder-TXT' and
  951
  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 GCO712 MOVE LENGTH(WS-File-Name-TXT) TO WS-I-SUB
  958 GC0712 PERFORM UNTIL WS-I-SUB = 0
  959 GCO712 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
                  MOVE SPACES
  963
                             TO WS-Prog-Folder-TXT
                  MOVE WS-File-Name-TXT TO WS-Prog-File-Name-TXT
  964
  965
               ELSE
                  MOVE '*' TO WS-FN-CHR (WS-I-SUB)
  966
                  UNSTRING WS-File-Name-TXT DELIMITED BY '*'
  967
  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)
               END-IF
  971
               IF WS-Prog-Folder-TXT = SPACES
  972
```

```
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                                                                                19
  973
                   ACCEPT WS-Prog-Folder-TXT FROM ENVIRONMENT 'CD'
  974 GC0909
               CALL 'CBL_CHANGE_DIR'
  975 GC0909
  976 GC0909
                       USING TRIM(WS-Prog-Folder-TXT, TRAILING)
  977
                END-IF
  978 GC0909
                IF WS-OS-Cygwin-BOOL AND WS-File-Name-TXT (2:1) = ':'
  979 GC0712
                MOVE '/' TO WS-OS-Dir-CHR
  980 GC0909 END-IF
  981
           *>*********************
           *> 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 GC0712
               OR WS-PFN-CHR (WS-I-SUB) = '.'
  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
                  MOVE SPACES TO WS-Prog-Extension-TXT
  993 GC0712
              MOVE '*' TO WS-PFN-CHR (WS-I-SUB)
UNSTRING WS-Prog-File-Name-TXT DEI
INTO WS-Pgm-Nm-TXT
  994 GC0712
  995 GC0712
                   UNSTRING WS-Prog-File-Name-TXT DELIMITED BY '*'
  996 GC0712
  997 GC0712
                           WS-Prog-Extension-TXT
                MOVE '.' TO WS-PFN-CHR (WS-I-SUB)
  998 GC0712
  999 GC0712
               END-TF
 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. '
 1007 GC0410
                               'Cutler, GPL')
 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
           200-Let-User-Set-Switches SECTION.
 1015
 1016
               SET WS-RS-Switch-Changes-BOOL TO TRUE
 1017
                PERFORM UNTIL WS-RS-No-Switch-Changes-BOOL
                EVALUATE WS-Listing-CD
 1018 GC1213
 1019 GC1213
                  WHEN O
                                                TO WS-Listing-TXT
 1020 GC1213
                      MOVE 'Listing Off'
 1021 GC1213
                                                TO WS-CS-LISTING-CHR
                      MOVE SPACE
                  WHEN 1
 1022 GC1213
 1023 GC1213
                      MOVE 'Listing On (Landscape)' TO WS-Listing-TXT
 1024 GC1213
                      MOVE SELCHAR
                                                 TO WS-CS-LISTING-CHR
 1025 GC1213
                   WHEN 2
 1025 GC1213
1026 GC1213
                     MOVE 'Listing On (Portrait)' TO WS-Listing-TXT
```

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	GC1213		SELCHAR		TO W	S-CS-LISTIN	G-CHR		
1028	GC1213			D					
1029 1030			Switches-SC						
1030			T-STATUS > (ATE COB-CRT)						
1031			HEN COB-SCR						
1032		W		-rı -DEBUG-CHR =	CDACE				
1033	GC0712			SELCHAR TO		חבטווכ_כחס			
1034	GC0712		ELSE	SELONAR TO	wb-Cb-I	DEBUG-CHK			
1036				, , TO WS-C	G-DEBII	C_CHB			
1030			END-IF	10 W5 C	יטםבים מ	3 CIIII			
	GC0712	T _a	HEN COB-SCR	-F2					
1030	GC0712	W		S-TRACEALL-C	HR = SI	DACE			
1040	GC0712			SELCHAR TO			TR.		
1041	GC0712		ELSE	DELONAR TO	WD OD	IIIAOLALL OI	116		
	GC0712			, , TO WS-C	S-TRAC	EALL-CHR			
1043	GC0712		END-IF	10 110 0	D 110110	- OIII			
1044	400112	V	HEN COB-SCR	-F3					
1045	GC0712	•		-LIBRARY-CHR	= SPA	CE.			
1046	GC0712			SELCHAR TO			1		
1047			ELSE						
1048	GC0712		MOVE	, , TO WS-C	S-LIBR	ARY-CHR			
1049			END-IF						
1050		V	HEN COB-SCR	-F4					
1051			IF WS-C	S-EXECUTE-CH	R = SP	ACE			
1052	GC0712		MOVE	SELCHAR TO	WS-CS-	EXECUTE-CHR			
1053			ELSE						
1054			MOVE	, , TO WS-C	S-EXEC	UTE-CHR			
1055			END-IF						
1056	GC0712	И	HEN COB-SCR	-F5					
1057	GC1213		ADD 1 TO	WS-Listing-	CD				
1058	GC1213		IF WS-Li	sting-CD > 2					
1059	GC1213		MOVE	0 TO WS-Lis	ting-C	D			
1060	GC1213		END-IF						
1061	GC0712	V	HEN COB-SCR	-F6					
1062	GC0712			-NOFUNC-CHR					
1063	GC0712			SELCHAR TO	WS-CS-	NOFUNC-CHR			
1064	GC0712		ELSE						
1065	GC0712			, , IO MS-C	S-NOFU	NC-CHR			
1066	GC0712	_	END-IF						
1067		W	HEN COB-SCR		an t	~=			
1068	GC0712			-WARNALL-CHR					
1069	GC0712			SELCHAR TO	WS-CS-	WARNALL-CHR			
	GC0712		ELSE)) TO UG G	G TIADM	ATT GUD			
	GC0712			, , IO MS-C	S-WARN.	ALL-CHK			
1072 1073	GC0712	τ.	END-IF HEN COB-SCR	_E0					
1073	GC0712	W			CDACE				
1074	GC0712 GC0712			-FREE-CHR = SELCHAR TO		EBEE-CHD			
1075	GC0712		ELSE	DELCHAR IU	₩D (D-)	THEE ORK			
1070				, , TO WS-C	S-FRFF.	-CHR			
1077	GC0712		END-IF	IO WD-C	C LIGHT	OIIIt			
1078		T.	HEN COB-SCR	-F9					
1079	GC0712	W		S-NOTRUNC-CH	R = SP	ACE			
1000	400112		II WD O	~ 1401160140 OII	DI				

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                             Dictionary File for GCIC
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                                                                                    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
 1085
                            WHEN COB-SCR-ESC
 1086
                              PERFORM 900-Terminate
            * ----- Control will NOT return
 1087
 1088 GC0712
                          WHEN COB-SCR-F12
 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-TF
 1093
                            WHEN OTHER
 1094
                               MOVE 'An unsupported key was pressed'
 1095
                                 TO WS-Output-Msg-TXT
 1096
                        END-EVALUATE
 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
            210-Run-Compiler SECTION.
 1106
              MOVE SPACES TO WS-Cmd-TXT
 1107
 1108
                              WS-Cobc-Cmd-TXT
 1109
                              WS-Output-Msg-TXT
                DISPLAY S-Switches-SCR
 1110
                MOVE 1 TO WS-I-SUB
 1111
 1112 GC0712 MOVE LOWER-CASE(WS-CS-Filename-TXT (WS-CS-Config-NUM))
 1113 GC0712
                TO WS-Config-Fn-TXT
 1115
            *> Build the 'cobc' command
 1116
           *>************************
 1117 GC0909 MOVE SPACES TO WS-Cobc-Cmd-TXT
 1118 GC0909
                STRING 'cobc -v -std='
                TRIM(WS-Config-Fn-TXT,TRAILING)
 1119 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 '
 1125
                        DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
 1126
                        WITH POINTER WS-I-SUB
 1127
                 ELSE
                    STRING '-x'
 1128
                        DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
 1129
                        WITH POINTER WS-I-SUB
 1130
 1131
                END-IF
                IF WS-CS-DEBUG-CHR NOT = ' '
 1132
 1133
                    STRING '-fdebugging-line '
 1134
                        DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
```

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                                                                                           22
                          WITH POINTER WS-I-SUB
  1135
 1136
                END-IF
                 IF WS-CS-NOTRUNC-CHR NOT = ' '
  1137
  1138
                     STRING '-fnotrunc '
 1139
                         DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
                          WITH POINTER WS-I-SUB
  1140
  1141
                 END-IF
 1142
                 IF WS-CS-TRACEALL-CHR NOT = ' '
                  STRING '-ftraceall '
 1143 GC0809
                         DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
 1144
 1145
                          WITH POINTER WS-I-SUB
                END-IF
 1146
                IF WS-CS-NOFUNC-CHR NOT = ' '
 1147 GC0712
                  STRING '-fintrinsics=ALL '
  1148 VC0717
  1149 GC0712
                         DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
 1150 GC0712
                          WITH POINTER WS-I-SUB
 1151 GC0712 END-IF
  1152 GCO712 IF WS-CS-WARNALL-CHR NOT = ', '
 1153 GC0712
                     STRING '-Wall '
 1154 GC0712
                         DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
  1155 GC0712
                          WITH POINTER WS-I-SUB
  1156 GC0712
                END-IF
  1157 GC0712
                 IF WS-CS-FREE-CHR NOT = ' '
                 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 '
  1163 GC0712
                         DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
 1164 GC0712
                         WITH POINTER WS-I-SUB
 1165 GC0712 END-IF
 1166
 1167 GC0712 MOVE 0 TO WS-Tally-QTY
 1168 GC0712 INSPECT WS-CS-Extra-TXT
 1169 GC0712 TALLYING WS-Tally-UTY FUR
1170 GC0712 IF WS-CS-LISTING-CHR > SPACE
1171 GC0712 AND WS-Tally-QTY > 0
MOVE SPACE TO WS-CS-LISTI
                  TALLYING WS-Tally-QTY FOR ALL '-save-temps'
                 MOVE SPACE TO WS-CS-LISTING-CHR *> Can't generate listing if -save-temps used
 1173 GC0712 END-IF
  1174 GC0712 IF WS-CS-LISTING-CHR > SPACE
                 STRING '-save-temps '
  1175 GC1010
  1176 GC1010
                      DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
                          WITH POINTER WS-I-SUB
  1177 GC1010
  1178 GC1010
               END-IF
 1179
                IF WS-CS-Extra-TXT > SPACES
 1180 GC0709
                 STRING ''
 1181 GC0709
 1182 GC0709
                            TRIM(WS-CS-Extra-TXT, TRAILING)
 1183 GC0709
                             DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
  1184 GC0709
  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
```

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 1189 GC0909
                    WITH POINTER WS-I-SUB
       1190
 1191
             *> Prepare the compilation listing file
 1192
            1193 GC1113 MOVE CONCATENATE(TRIM(WS-Pgm-Nm-TXT,Trailing),'.gclst')
 1194 GC0712
                 TO WS-Listing-Filename-TXT
 1195 GC0712 CALL 'CBL_DELETE_FILE' USING WS-Listing-Filename-TXT
 1196
       1197
            *> Now execute the 'cobc' command
            *>************************
 1198
 1199 GCO410 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
                 STRING TRIM(WS-Cobc-Cmd-TXT, TRAILING)
 1203
 1204 GC0712
                 ' >' WS-Listing-Filename-TXT
 1205 GC0712
                        ' 2>&1'
 1206
                        DELIMITED SIZE
 1207
                        INTO WS-Cmd-TXT
 1208 DEBUG D DISPLAY WS-Cmd-TXT UPON SYSERR
 1209
                 CALL 'SYSTEM' USING TRIM(WS-Cmd-TXT, TRAILING)
 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
MOVE ' Compilation Was Successful'
MOVE CONCATENATE('GNU COBOL', WS-Ou
TO F-Cobc-Output-REC
WRITE F-Cobc-Output-REC
SET WS-RS-Complete-BOOL TO TRUE
 1213 GC0712
 1214 GC0712
                     MOVE 'Compilation Was Successful' TO WS-Output-Msg-TXT
 1215 GC0712
                   MOVE CONCATENATE ('GNU COBOL', WS-Output-Msg-TXT)
 1216 GC0712
 1217 GC0712
 1218 GC0712
 1219 GC0712 ELSE
                 SET WS-RS-Compile-Failed-BOOL TO TRUE MOVE CONCATENATE(' Compilation Failed - See ',
 1220 GC0712
 1221 GC0712
 1222 GC0712
                TO WS-Output-Msg-TXT
MOVE 'GNU COBOL Compilation HAS FAILED - See Above'
TO F-Cobc-Output-REC
WRITE F-Cobc-Output-REC
                                 TRIM(WS-Listing-Filename-TXT, Trailing))
 1223 GC0712
1224 GC0712
1225 GC0712
 1226 GC0712
 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
 1235
             *> ---- Control will not return
                 END-IF
 1236
 1237
 1238
 1239
             *>*********************
             *> Generate a source + xref listing using 'LISTING' subroutine **
 1240
 1241
            *>************************
 1242 GCO410 220-Make-Listing SECTION.
```

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ACS Cobol Xref v2.02.04
                          Dictionary File for GCIC
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                                                                            24
               MOVE 'Generating listing...' TO WS-Output-Msg-TXT
 1243 GC0410
 1244 GCO410 DISPLAY S-Switches-SCR
 1245 GCO410 MOVE O TO RETURN-CODE
       *>*******************
 1246
 1247
          *> Create the listing
                                                              **
 1248
          *>***********************
 1249 GC0410 MOVE SPACES TO WS-Output-Msg-TXT
1250 GC0410 CALL 'LISTING' USING WS-Listing-
              CALL 'LISTING' USING WS-Listing-Filename-TXT
 1251 GC0712
                                WS-File-Name-TXT
 1252 GC0712
                                WS-OS-Type-CD
 1253 GC1213
                                I.PP
 1254 GC1213
                                I.PPP
 1200 GC0410 ON EXCEPTION 1257 GC0410 MOUT
 1255 GC1213
                                WS-Listing-CD
              MOVE ' LISTING module is not available'
 1258 GC0410
                  TO WS-Output-Msg-TXT
 1258 GC0410 TO WS-Output-Msg-TX
1259 GC0410 MOVE 1 TO RETURN-CODE
 1260 GCO410 END-CALL
 1261 GCO410 IF RETURN-CODE = 0
              MOVE ' Source+Xref listing generated '
 1262 GC0712
 1263 GC0712 T
1264 GC0410 END-IF
                   TO WS-Output-Msg-TXT
 1265 GC0712 DISPLAY S-Switches-SCR
 1266 GC0712 CALL 'C$SLEEP' USING 2
 1267 GC0712
              PERFORM 250-Autoload-Listing
 1268 GC0410
 1269
 1270
          *> Run the compiled program
 1271
         1272
 1273
 1274 GC0114 MOVE ' Preparing to run program ... press ENTER to close '
 1275 GC0114
              TO WS-Output-Msg-TXT
 1276 GC0114 DISPLAY S-Switches-SCR
 1277 GC0114 CALL 'C$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 GCO712 IF WS-CS-LIBRARY-CHR NOT = ' '
 1284
                  STRING 'cobcrum ' DELIMITED SIZE
                        INTO WS-Cmd-TXT
 1285
 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
              IF WS-OS-Cygwin-BOOL AND WS-Prog-Folder-TXT (2:1) = ':'
STRING '/cvødrive''
 1292
 1293 GC0909
                 STRING '/cygdrive/'
 1294 GC0909
 1295 GC0909
                        INTO WS-Cmd-TXT
 1296 GC0909
                         WITH POINTER WS-I-SUB
```

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                                                                                   25
 1297 GC0909
                       STRING LOWER-CASE(WS-Prog-Folder-TXT (1:1))
 1298 GC0909
                           INTO WS-Cmd-TXT
 1299 GC0909
                           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
 1303 GC0909
                           IF WS-Prog-Folder-TXT (WS-J-SUB:1) = '\'
                               STRING '/'
 1304 GC0909
 1305 GC0909
                                  INTO WS-Cmd-TXT
 1306 GC0909
                                  WITH POINTER WS-I-SUB
                           ELSE
 1307 GC0909
 1308 GC0909
                              STRING WS-Prog-Folder-TXT (WS-J-SUB:1)
 1309 GC0909
                                  INTO WS-Cmd-TXT
 1310 GC0909
                                  WITH POINTER WS-I-SUB
 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
                    INTO WS-Cmd-TXT
 1320 GC0909
 1321 GC0909
                       WITH POINTER WS-I-SUB
 1322 GC0909
                ELSE.
 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
 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
           *>***********************
 1338 GCO712 IF WS-CS-LIBRARY-CHR = ' '
               IF WS-OS-Exe-Ext-CONST > ' '
 1339 GC0712
 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
                ELSE
 1344 GC0712
               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
                END-IF
 1349 GC0712
 1350 GC0712
              END-IF
```

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                                                                                   26
               IF WS-RS-Double-Quote-Used-BOOL
 1351 GC0712
                STRING '"' DELIMITED SIZE
 1352 GC0712
 1353 GC0712
                       INTO WS-Cmd-TXT
 1354 GC0712
                       WITH POINTER WS-I-SUB
 1355 GC0712 END-IF
                IF WS-CS-Args-TXT NOT = SPACES
 1356
 1357 GC0809 STRING ', TRIM(WS-CS-Args-TXT, TRAILING)
                       INTO WS-Cmd-TXT
 1359
                       WITH POINTER WS-I-SUB
 1360
               END-IF
 1361
           *>**********************
          *> Run the program
 1362
 1363
           1364 GC0114 CALL X'E4'
1365 CALL 'SYSTEM' USING TRIM(WS-Cmd-TXT, TRAILING)
 1366 GC0712 MOVE SPACES TO WS-Output-Msg-TXT
 1367 GC0114 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
            *>**********************
           240-Find-LINKAGE-SECTION SECTION.
 1375
 1376
                OPEN INPUT F-Source-Code-FILE
 1377 GC0712
                MOVE ' ' TO WS-CS-LIBRARY-CHR
 1378
                SET WS-RS-More-To-1st-Prog-BOOL TO TRUE
 1379
                PERFORM UNTIL WS-RS-1st-Prog-Complete-BOOL
 1380
                  READ F-Source-Code-FILE AT END
 1381
                       CLOSE F-Source-Code-FILE
 EAIT SECTIO
END-READ

1384 GC0712 CALL 'CHECKSRC'
1385 GC0712 USING RV CON
1386 GC0712
 1382
                       EXIT SECTION
                  USING BY CONTENT F-Source-Code-REC
                BY REFERENCE WS-RS-Source-Rec-Ident-BOOL
                             BY REFERENCE WS-RS-Source-Record-Type-CHR
 1387
 1388
                       SET WS-RS-1st-Prog-Complete-BOOL TO TRUE
 1389
                    END-IF
 1390
              END-PERFORM
 1391 GC0712 SET WS-RS-Source-Rec-Ignored-BOOL TO TRUE
 1392
                PERFORM UNTIL WS-RS-Source-Rec-Linkage-BOOL
                         OR WS-RS-Source-Rec-Ident-BOOL
 1393
 1394
                    READ F-Source-Code-FILE AT END
 1395
                     CLOSE F-Source-Code-FILE
 1396
                       EXIT SECTION
 1397
                    END-READ
 1398 GC0712
                    CALL 'CHECKSRC'
 1399 GC0712
                    USING BY CONTENT F-Source-Code-REC
 1400 GC0712
                             BY REFERENCE WS-RS-Source-Record-Type-CHR
 1401
               END-PERFORM
 1402
               CLOSE F-Source-Code-FILE
 1403
               IF WS-RS-Source-Rec-Linkage-BOOL
               MOVE SELCHAR TO WS-CS-LIBRARY-CHR
 1404 GC0712
```

```
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 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 GC0712*> an application - invoke the appropriate application to
 1412 GC0712*> allow the user to view the listing.
 1414 GCO712 250-Autoload-Listing SECTION.
 1415 GC0712 EVALUATE TRUE
               WHEN WS-OS-Windows-BOOL OR WS-OS-Cygwin-BOOL
 1416 GC0712
 1417 GC0712
                  MOVE SPACES TO WS-Cmd-TXT
 1418 GC0712
                      STRING
 1419 GC0712
                           'cmd /c '
 TRIM(WS-Listing-Filename-TXT,TRAILING)
1421 GC0712 DELIMITED SIZE INTO WS-Cmd-TXT
1422 GC0712 CALL 'SYSTEM' USING TRIM(WS-Cmd-TXT,TRAILING)
1423 GC0712 WHEN WS-OS-OSX-BOOL
1424 GC0712
                  MOVE SPACES TO WS-Cmd-TXT
 1424 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)
              END-EVALUATE
 1430 GC0712
 1431 GC0712*>
               *********************
 1432 GC0712*>
                ** Since we had to do our own '-save-temps' when we
 1433 GC0712*>
                ** compiled (in order to generate the cross-reference
 1434 GC0712*>
               ** 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
1440 GC0712
1441 GC0712
                    TO WS-Cmd-TXT
               MOVE CONCATENATE('rm ',TRIM(WS-Pgm-Nm-TXT,TRAILING))
 1442 GC0712
                    TO WS-Cmd-TXT
 1443 GC0712 END-IF
 1444 GC0712 CALL 'SYSTEM'
 1445 GC0712
               USING CONCATENATE(TRIM(WS-Cmd-TXT,TRAILING),'.c')
 1446 GC0712 CALL 'SYSTEM'
1447 GC0712 USING CON
1448 GC0712 CALL 'SYSTEM'
                 USING CONCATENATE(TRIM(WS-Cmd-TXT,TRAILING),'.c.h')
 1449 GC0712
                USING CONCATENATE(TRIM(WS-Cmd-TXT,TRAILING),'.c.1*.h')
 1450 GC0712 CALL 'SYSTEM'
 1451 GC0712
               USING CONCATENATE(TRIM(WS-Cmd-TXT,TRAILING),'.i')
 1452 GC0712 CALL 'SYSTEM'
               USING CONCATENATE(TRIM(WS-Cmd-TXT,TRAILING),'.o')
 1453 GC0712
 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)

----- or module: dolo (dolo)

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

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Symbols of Module: GCIC (GCIC) -----Data Section (WORKING-STORAGE) Defn Locations
 COB-COLUR-BLUE
 000233W

 COB-COLOR-CYAN
 000235W

 COB-COLOR-GREEN
 000234W

 COB-COLOR-MAGENTA
 000237W

 COR-COLOR-RED
 000236W

 000239W
 COB-COLOR-BLACK 000232W 000597 000602 000692 000702 000712 000717 000727 000734 000749 000764 000780 000787 000794 000233W 000680 000235W 000693 000234W 000603 000718 000765 000781 000236W 000686 000750 000239W 000598 000681 000687 000703 000713 000728 000735 000788 000238W COB-COLOR-YELLOW 000321W COB-SCR-BACK-TAB COB-SCR-BACKSPACE 000328W COB-SCR-DELETE 000327W COB-SCR-ESC 000318W 001085 000245W 001032 COB-SCR-F1 COB-SCR-F10 000254W COB-SCR-F11 000255W COB-SCR-F12 000256W 001088 COB-SCR-F13 000257W 000258W COB-SCR-F14 COB-SCR-F15 000259W COB-SCR-F16 000260W COB-SCR-F17 000261W COB-SCR-F18 000262W COB-SCR-F19 000263W 000246W 001038 COB-SCR-F2 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-F3 000247W 001044 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 000248W 001050 COB-SCR-F4 000284W COB-SCR-F40

COB-SCR-TIME-OUT

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Data Section (WORKING-STORAGE)	Defn	Locations				
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-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	W008000					
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					
COB-SCR-PRINT	000319W					
COB-SCR-TAB	000320W					
COD COD TIME OUT	11000000					

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000333W

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Symbols of Module: GCIC (GCIC) -----Data Section (WORKING-STORAGE) Defn Locations F1 000364W F12 000358W F2 000371W 000367W 000365W F5 000368W 000415 000369W F6 F7 000372W F8 000366W F9 000370W 000387W 000925 000927 000928 000931 000936 WS-CMD-ARGS-TXT WS-CMD-END-QUOTE-CHR 000389W 000929 000932 WS-CMD-SUB 000391W 000926 000930 000934 000939 WS-CMD-TXT $000385 \hbox{W} \quad 001107 \ 001202 \ 001207 \ 001208 \ 001209 \ 001278 \ 001285 \ 001295$ 001298 001305 001309 001315 001320 001325 001333 001341 001347 001353 001358 001365 001417 001421 001422 001424 001428 001429 001439 001442 001445 001447 001449 001451 001453 WS-COBC-CMD-TXT 000393W 001108 001117 001121 001125 001129 001134 001139 001144 001149 001154 001159 001163 001176 001184 001188 001203 WS-COMPILATION-SWITCHES-TXT 000338W WS-CONFIG-FN-TXT
WS-CS-ALL-SWITCHES-TXT
WS-CS-ARG-H1-TXT 000395W 001113 001119 000373W 000918 000340W 000798 000341W 000799 WS-CS-ARG-H2-TXT 000341W 000356 001357 000354W 000356 000358 001089 001090 001091 001112 000375W 000751 001033 001034 001036 001132 000376W 000754 000888 001051 001052 001054 000361W 000796 000362W 000797 000360W 001168 001180 001182 000751 000790 001112 WS-CS-ARGS-TXT WS-CS-CONFIG-NUM WS-CS-DEBUG-CHR WS-CS-EXECUTE-CHR WS-CS-EXTRA-H1-TXT
WS-CS-EXTRA-H2-TXT WS-CS-EATH. WS-CS-EXTRA-TXT 000351W 000790
WS-CS-FILENAMES-TXT 000350W 000350W
WS-CS-FILENAMES-TXT 000342W 000350
000759 000377W 000759 001074 001075 001077 001157 WS-CS-FREE-CHR WS-CS-LIBRARY-CHR 000378W 000753 001045 001046 001048 001123 001283 001338 001377 001404 WS-CS-LISTING-CHR 0003/9W 000755
WS-CS-NOFUNC-CHR 000380W 000757
WS-CS-NOTRUNC-CHR 000381W 000760
WS-CS-SWITCH-DEFAULTS-TXT 000363W 000374 WS-CS-LISTING-CHR 000379W 000755 000884 001021 001024 001027 001170 001172 001174 000380W 000757 001062 001063 001065 001147 000381W 000760 001080 001081 001083 001137 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 000403W 000400W 000959 000966 000970 WS-FN-CHR

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Data Section (WORKING-STORAGE)	Defn	Locations
WS-FSM-MSG-TXT	000407W	000829 000830 000831 000832 000833 000834 000835 000836
		000837 000838 000839 000840 000841 000842 000843 000849
		000845 000846 000847 000848 000849 000850 000851 00085
		000853 000854 000855 000856 000857 000858
WS-FSM-STATUS-CD	000405W	
WS-HORIZONTAL-LINE-TXT	000409W	000605 000615 000619 000621 000645 000647 000651 00066 000665 000675 001003
WS-I-SUB	000411W	
WB 1 50B	000411W	000986 000987 000988 000990 000994 000998 001111 00112:
		001126 001130 001135 001140 001145 001150 001155 00116
		001164 001177 001185 001189 001279 001286 001296 001299
		001306 001310 001316 001321 001326 001334 001342 00134
		001354 001359
WS-J-SUB	000413W	001301 001302
WS-LISTING-CD	000415W	001018 001057 001058 001059 001255
WS-LISTING-FILENAME-TXT	000417W	001194 001195 001204 001222 001250 001420 001427
WS-LISTING-TXT	000419W	
WS-OC-COMPILE-DT	000421W	
WS-OS-CYGWIN-BOOL	000455W	
WS-OS-DIR-CHR	000424W	
WS-OS-EXE-EXT-CONST	000425W	001319 000431 000437 000443 000449 001339 001340
WS-OS-LIB-EXT-CONST	000425W	
WS-OS-LIB-TYPE-CONST	000420W	
WS-OS-OSX-BOOL	000127W	
WS-OS-TYPE-CD	000428W	
WS-OS-TYPE-FILLER-TXT	000459W	
WS-OS-TYPE-TXT	000466W	001005
WS-OS-TYPES-TXT	000465W	
WS-OS-UNIX-BOOL	000456W	001323
WS-OS-WINDOWS-BOOL	000454W	
WS-OUTPUT-MSG-TXT	000469W	
		001223 001231 001243 001249 001258 001263 001275 001360
UG DATU DELIMITED GUD	00047411	001367 001461
WS-PATH-DELIMITER-CHR WS-PFN-CHR	000471W 000478W	000987 000994 000998
WS-PFN-CHK WS-PGM-NM-TXT	000478W	
WS-PROG-EXTENSION-TXT	000481W	
WS-PROG-FILE-NAME-TXT	000473W	
WS-PROG-FOLDER-TXT	000475W	
1704 - 622217 1111	00011011	001297 001302 001303 001308 001314
WS-RS-1ST-PROG-COMPLETE-BOOL	000494W	
WS-RS-COMPILE-FAILED-BOOL	000487W	001220 001232
WS-RS-COMPILE-OK-BOOL	000485W	
WS-RS-COMPILE-OK-CHR	000484W	
WS-RS-COMPILE-OK-WARN-BOOL	000486W	000883
WS-RS-COMPLETE-BOOL	000489W	
WS-RS-COMPLETE-CHR	000488W	
WS-RS-DOUBLE-QUOTE-USED-BOOL	000492W	001291 001317 001351

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Data Section (WORKING-STORAGE)	Defn	Locations				
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	001011 001000				
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			

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WS-PROG-FOLDER-TXT

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000729S 000964 000969 000985 000991 000995 001187

001302 001303 001308 001314

000730S 000963 000968 000972 000973 000976 001292 001293 001297

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Symbols of Module: GCIC (GCIC)

Variable Tested [S] Symbol (88-Conditions)

WS-OS-TYPE-CD
WS-OS-TYPE-CD
WS-OS-TYPE-CD
WS-OS-CYGWIN-BOOL
WS-OS-TYPE-CD
WS-OS-UNIX-BOOL
WS-OS-TYPE-CD
WS-OS-OSX-BOOL
WS-OS-TYPE-CD
WS-OS-OSX-BOOL
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-CHR
WS-RS-COMPILE-FAILED-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-NO-SWITCH-CHGS-CHR
WS-RS-NO-SWITCH-CHGS-CHR
WS-RS-NO-SWITCH-CHGS-CHR
WS-RS-NO-SWITCH-CHANGES-BOOL
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-OUTPUT-FILE-BUSY-CHR
WS-RS-OUTPUT-FILE-BUSY-CHR
WS-RS-OUTPUT-FILE-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-SWITCH-ERROR-CHR
WS-RS-SWITCH-IS-BAD-BOOL
WS-RS-SWITCH-ERROR-CHR
WS-RS-SWITCH-IS-GOOD-BOOL

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Symbols of Module: GCIC (GCIC)

Variable Tested Symbol (88-Conditions) [S]

WS-OS-TYPE-CD WS-OS-CYGWIN-BOOL WS-OS-TYPE-CD WS-OS-OSX-BOOL WS-OS-TYPE-CD WS-OS-UNIX-BOOL WS-OS-TYPE-CD
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-BOOL
WS-RS-COMPILE-OK-CHR
WS-RS-COMPILE-OK-BOOL
WS-RS-COMPLETE-CHR
WS-RS-COMPLETE-CHR
WS-RS-COMPLETE-BOOL
WS-RS-JDENT-DIV-CHR
WS-RS-DOUBLE-QUOTE-USED-BOOL
WS-RS-NO-SWITCH-CHGS-CHR
WS-RS-NO-SWITCH-CHGS-BOOL
WS-RS-COMPLETE-CHR
WS-RS-NOT-COMPLETE-BOOL WS-OS-WINDOWS-BOOL WS-RS-OUTPUT-FILE-BUSY-CHR WS-RS-OUTPUT-FILE-BUSY-CHR WS-RS-OUTPUT-FILE-AVAIL-BOOL WS-RS-OUTPUT-FILE-BUSY-BOOL WS-RS-SOURCE-RECORD-TYPE-CHR WS-RS-SOURCE-REC-IDENT-BOOL WS-RS-SOURCE-RECORD-TYPE-CHR WS-RS-SOURCE-REC-IGNORED-BOOL WS-RS-SOURCE-RECORD-TYPE-CHR WS-RS-SOURCE-REC-LINKAGE-BOOL WS-RS-NO-SWITCH-CHGS-CHR WS-RS-SWITCH-CHANGES-BOOL WS-RS-SWITCH-ERROR-CHR WS-RS-SWITCH-IS-BAD-BOOL WS-RS-SWITCH-ERROR-CHR WS-RS-SWITCH-IS-GOOD-BOOL

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Functions	Defn	Locations			
CONCATENATE	001004I	001193 001215 001221	001438 001441	001445 00144	7 001449
		001451 001453			
LOWER-CASE	001112I	001297			
TRIM	000865I	000870 000976 001005	001119 001182	001187 00119	3 001203
		001209 001222 001302	001314 001332	001357 00136	5 001420
		001422 001427 001429	001438 001441	001445 00144	7 001449
		001451 001453			

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Called Procedures	J 1	Locati	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	001446	001448	00145	0
		001452								

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Procedure	Defn	Locations			
CAUTION:	000860P				
FOUND G29	000860P 000860P				
LPP	001253P				
LPPP	001254P				
MORE ONE	000860P 000860P				
SELCHAR	000920P	000921 001024 0010 001069 001075 0010		1040 001046 00	1052 001063
SYSERR	001208P				

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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 COB-SCR-F51 000295W COB-SCR-F52 000296W COB-SCR-F53 000297W COB-SCR-F54 000298W

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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 COB-SCR-F61 000305W 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 000311W COB-SCR-PAGE_UP 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

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Symbols of Module: GCIC (GCIC)

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

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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

```
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                             Dictionary File for GCIC
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                                                                              Page
                                                                                     45
             IDENTIFICATION DIVISION.
 1472
             PROGRAM-ID. CHECKSRC.
 1473
            *> This subprogram will scan a line of source code it is given **
 1474
            *> 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
            *> -----
 1485
            *> GC0809 Initial coding.
            *>****************
 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
             01 WS-Runtime-Switches-TXT.
 1497
 1498
                 05 WS-RS-Found-SPACE-CHR
                                                   PIC X(1).
 1499
                   88 WS-RS-Skipping-SPACE-BOOL
                                                  VALUE 'Y'.
                    88 WS-RS-Not-Skipping-SPACE-BOOL VALUE 'N'.
 1500
 1501
             01 WS-I-SUB
                                                   USAGE BINARY-CHAR.
 1502
 1503
             01 WS-J-SUB
                                                   USAGE BINARY-CHAR.
 1504
 1505
             LINKAGE SECTION.
 1506
             01 L-Argument-1-TXT.
                                                   OCCURS 80 TIMES
 1507
                 02 L-A1-CHR
                                                   PIC X(1).
 1508
 1509
 1510
             01 L-Argument-2-CHR
                                                   PIC X(1).
                 88 L-A2-LINKAGE-SECTION-BOOL VALUE 'L'.
 1511
                 88 L-A2-IDENT-DIVISION-BOOL VALUE 'I'.
 1512
 1513
                 88 L-A2-Nothing-Special-BOOL VALUE ' '.
 1514
 1515 GCO712 PROCEDURE DIVISION USING BY VALUE
                                                L-Argument-1-TXT
 1516 GC0712
                                    BY REFERENCE L-Argument-2-CHR.
             000-Main SECTION.
 1517
 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
```

```
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                                                                                                  Page
                                                                                                          46
  1525
  1526
                   SET WS-RS-Not-Skipping-SPACE-BOOL TO TRUE
  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
  1530
                             UNTIL WS-I-SUB > 80
  1531
                       IF L-A1-CHR (WS-I-SUB) = SPACE
  1532
                           IF WS-RS-Not-Skipping-SPACE-BOOL
 1533
                               ADD 1 TO WS-J-SUB
  1534
                               MOVE UPPER-CASE(L-A1-CHR (WS-I-SUB))
  1535
                                 TO WS-CS-CHR (WS-J-SUB)
  1536
                               SET WS-RS-Skipping-SPACE-BOOL TO TRUE
  1537
                           END-IF
  1538
                       ELSE
  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
                       EVALUATE TRUE
  1549
                           WHEN WS-CS-CHR (WS-I-SUB) = '*'
  1550
                               IF WS-Compressed-Src-TXT (WS-I-SUB : 2) = '*>'
  1551
  1552
                                   GOBACK
  1553
                               END-IF
                           WHEN (WS-CS-CHR (WS-I-SUB) = 'L') AND (WS-I-SUB < 66)
  1554
  1555
                               IF WS-Compressed-Src-TXT (WS-I-SUB : 15)
  1556
                                   = 'LINKAGE SECTION'
  1557
                                   SET L-A2-LINKAGE-SECTION-BOOL TO TRUE
                                   GOBACK
  1558
  1559
                               END-IF
  1560
                           WHEN (WS-CS-CHR (WS-I-SUB) = 'I') AND (WS-I-SUB < 58)
                               IF WS-Compressed-Src-TXT (WS-I-SUB : 23)
  1561
                                   = 'IDENTIFICATION DIVISION'
  1562
  1563
                                   SET L-A2-IDENT-DIVISION-BOOL TO TRUE
  1564
                                    GOBACK
                               END-IF
  1565
  1566
                       END-EVALUATE
                   END-PERFORM
  1567
  1568
              *>
  1569
              *> If we get to here, we never found anything!
  1570
  1571 +
                    GOBACK
  1572
               END PROGRAM CHECKSRC.
  1573
  1574
```

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Data Section (WORKING-STORAGE) Defn Locations

Data Section (WURKING-STURAGE)		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

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Symbols of Module: GCIC (CHECKSRC)

Variable Tested [S] Symbol (88-Conditions)

· ------

L-ARGUMENT-2-CHR
L-A2-LINKAGE-SECTION-BOOL
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

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Symbols of Module: GCIC (CHECKSRC)

Variable Tested Symbol (88-Conditions) [S]

L-ARGUMENT-2-CHR
L-ARGUMENT-2-CHR
L-A2-IDENT-DIVISION-BOOL
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

UPPER-CASE 001534I

None

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Symbols of Module: GCIC (CHECKSRC)
----Unreferenced Working Storage Symbols

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

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Symbols of Module: GCIC (CHECKSRC)

Unreferenced Procedures

None

```
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                                                                                  Page
                                                                                        55
            IDENTIFICATION DIVISION.
 1575
 1576
           PROGRAM-ID. LISTING.
 1577
           *>************************
           *> This subprogram generates a cross-reference listing of an **
 1578
           *> GNU COBOL program.
 1579
                                                                 **
 1580
           1581
           *>
           *> AUTHOR:
                         GARY L. CUTLER
 1582
 1583
           *>
                          Copyright (C) 2010, Gary L. Cutler, GPL
 1584
 1585
           *> DATE-WRITTEN: April 1, 2010
 1586
           *>
 1587
           1588
           *> DATE CHANGE DESCRIPTION
           1589
           *> GCO410 Initial coding
 1590
 1591
           *> GC0711 Updates to accommodate the 12MAR2010 version of OC
 1592
           *> GC0710 Handle duplicate data names (i.e. 'CORRESPONDING' or **
 1593
           *>
                    qualified items) better; ignore 'END PROGRAM' recs **
 1594
           *>
                   so program name doesn't appear in listing.
           *> GC0313 Fix problem where the first procedure name defined
 1595
 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 **
 1601
                  a "C" rather than "*" because they aren't necessari- **
           *>
                  ly altered; Fixed assorted formatting bugs; DOWN-
 1602
           *>
 1603
           *>
                    WARD COMPATIBLE WITH GNU COBOL 2.0 SYNTAX
           *> GC0314 Fix problem where 1st char of 1st token on a line is **
 1604
               lost if >>SOURCE MODE IS FREE is in effect and the **
 1605
           *>
 1606
                    1st character is non-blank.
 1607
          *> VC1217 Updated compiler version & date to v3.0 & 24DEC2017. **
 1608
          *> VC0720 Updated compiler to 3.1 July2020 and the copyright. **
 1609
           *> VCO322 Updated compiler to 3.1.2 March2022 & the copyright. **
 1610
           ENVIRONMENT DIVISION.
 1611
 1612
            CONFIGURATION SECTION.
 1613
            REPOSITORY.
 1614
                FUNCTION ALL INTRINSIC.
            INPUT-OUTPUT SECTION.
 1615
 1616
            FILE-CONTROL.
 1617
                SELECT F-Expanded-Src-FILE ASSIGN TO WS-Expanded-Src-Fn-TXT
 1618
                                        ORGANIZATION IS LINE SEQUENTIAL.
                                        ASSIGN TO L-Listing-Fn-TXT
 1619 GC0712
                SELECT F-Listing-FILE
                                        ORGANIZATION IS LINE SEQUENTIAL.
 1620
                SELECT F-Original-Src-FILE ASSIGN TO L-Src-Fn-TXT
 1621
                                       ORGANIZATION IS LINE SEQUENTIAL.
 1622
 1623
                SELECT F-Sort-Work-FILE
                                       ASSIGN TO DISK.
           DATA DIVISION.
 1624
           FILE SECTION.
 1625
           FD F-Expanded-Src-FILE.
 1626
           01 F-Expanded-Src-REC.
 1627
                05 F-ES-1-CHR
                                                 PIC X.
 1628
```

```
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                                                                                            Page
                                                                                                   56
  1629
                  05 F-ES-2-256-TXT-256
                                                       PIC X(256).
  1630 GC0712 01 F-Expanded-Src2-REC.
  1631 GC0712 05 F-ES-1-7-TXT
                                                       PIC X(7).
  1632 GC0712
               05 F-ES-8-256-TXT
                                                       PIC X(249).
  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
 1637
                                                      PIC X(135).
 1638
  1639
              FD F-Original-Src-FILE.
 1640
             01 F-Original-Src-REC.
 1641 GCO410 05 F-OS-1-128-TXT.
                 10 FILLER
10 F-OS-7-CHR
  1642 GC0410
                                                       PIC X(6).
  1643 GC0410
                                                      PIC X(1).
                 10 F-OS-8-72-TXT
10 FILLER
  1644 GC0712
                                                      PIC X(65).
  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).
                                                      PIC X(32).
  1651
                  05 F-SW-Token-Uc-TXT
                                                    PIC X(32).
PIC X(15).
  1652
                 05 F-SW-Token-TXT
                 05 F-SW-Section-TXT
  1653
                 05 F-SW-Def-Line-NUM
                                                     PIC 9(6).
  1654
                 05 F-SW-Reference-TXT.
  1655
  1656
                     10 F-SW-Ref-Line-NUM
                                                      PIC 9(6).
  1657
                     10 F-SW-Ref-Flag-CHR
                                                       PIC X(1).
  1658
             WORKING-STORAGE SECTION.
  1659
  1660 GC1213 01 WS-Copyright-TXT
                                                       PIC X(86).
  1661
             01 WS-Curr-CHR
  1662
                                                       PTC X(1).
 1663
                  88 WS-Curr-Char-Is-Punct-BOOL
                                                       VALUE '=', '(', ')',
                                                             '*', '/', '&',
';', ',', '<',
  1664
  1665
  1666
                                                      VALUE "', '"'.
                 88 WS-Curr-Char-Is-Quote-BOOL
  1667
  1668
                  88 WS-Curr-Char-Is-X-BOOL
                                                       VALUE 'x', 'X'.
                                                       VALUE 'z', 'Z'.
  1669
                 88 WS-Curr-Char-Is-Z-BOOL
  1670
  1671
             01 WS-Curr-Division-TXT
                                                      PIC X(1).
  1672 GC1010
                  88 WS-CD-In-IDENT-DIV-BOOL
                                                       VALUE 'i', 'I', '?'.
  1673 GC1010
                                                      VALUE 'e', 'E'.
                 88 WS-CD-In-ENV-DIV-BOOL
                                                      VALUE 'd', 'D'.
  1674 GC1010 88 WS-CD-In-DATA-DIV-BOOL
  1675 GC1010 88 WS-CD-In-PROC-DIV-BOOL
                                                       VALUE 'p', 'P'.
  1676
             01 WS-Curr-Line-NUM
                                                       PIC 9(6).
 1677
  1678
  1679
              01 WS-Curr-Prog-ID-TXT.
                  05 FILLER
                                                      PIC X(12).
  1680
                 05 WS-CPI-13-15-TXT
                                                      PIC X(3).
 1681
  1682 GC0712 05 WS-CPI-16-CHR
                                                      PIC X(1).
```

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168	33												
168			01	WS-Curr-Section	on-TXT.								
168	35			05 WS-CS-1-CHI	3			F	PIC X(1).				
168				05 WS-CS-2-14-	-TXT.								
168				10 FILLER	4 44 MVM				PIC X(10).				
168 168				10 WS-CS-1:					PIC X(3). PIC X(1).				
169				05 WS-CS-15-C	ın			г	710 A(1).				
169			01	WS-Curr-Verb-	гхт			F	PIC X(12).				
169			V -					-					
169	93		01	WS-Delim-TXT				F	PIC X(2).				
169	94												
169	95		01	WS-Dummy-TXT				F	PIC X(1).				
169													
169			01	WS-Expanded-Si	rc-Fn-TXT			ŀ	PIC X(256)	•			
169 169			01	WS-Filename-T	VТ				PIC X(256)				
170			OI	wb-rilename-i	V.I			1	10 A(200)	•			
170		C1213	01	WS-Flags-TXT.									
170		C1213		05 WS-Suppress	s-FF-CHR			F	PIC X(1).				
170				11									
170	04 G(C1213	01	WS-Formatted-I	TO			F	PIC 9999/9	9/99.			
170													
170			01	WS-Group-Indio									
170				05 WS-GI-Prog					PIC X(15).				
170 170				05 WS-GI-Toker	1-111			ŀ	PIC X(32).				
171			01	WS-Held-Refere	ance-TYT			г	PIC X(100)				
171			O1	wb herd herer	since TXT			1	10 K(100)	•			
171			01	WS-I-SUB				Ţ	JSAGE BINA	RY-LONG.			
171	13												
171	14		01	WS-J-SUB				J	JSAGE BINA	RY-LONG.			
171													
171			01	WS-Lines-Left	-NUM			J	JSAGE BINA	RY-LONG.			
171			01	UC I imaa Dam I	Dama MIIM			т	ICACE DINA	DV IONG			
171 171			01	WS-Lines-Per-l	Page-NUM			·	JSAGE BINA	RI-LUNG.			
172			01	WS-Lines-Per-	Page-Env-TX1	r		F	PIC X(256)	_			
172			V-			-		-	10 11(200)				
172	22 G(C1010	01	WS-Main-Module	e-Name-TXT			F	PIC X(256)				
172	23												
172			01	WS-Next-CHR					PIC X(1).				
172				88 WS-Next-Cha	ar-Is-Quote-	-BOOL		I	ALUE '"',	",".			
172													
172			01	WS-OS-Type-FII					TC V(14)				
172 172				05 VALUE 'Wind		,			PIC X(14). PIC X(14).				
173				O5 VALUE 'UNIX					PIC $X(14)$.				
173				O5 VALUE 'OSX					PIC $X(14)$.				
173				05 VALUE 'Wind					PIC X(14).				
173			01	WS-OS-Types-T		S WS-C	DS-Ty						
173	34			05 WS-OS-Type	-TXT		·	F	PIC X(14)				
173				- -			OCC	URS 5	TIMES .				
173	36												

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1737 1738	GC0712	01	WS-Page-NUM				US	AGE BINA	RY-LONG.			
1739	GC0712	01	WS-Page-No-TXT	7.								
1740			05 WS-PN-Liter	al-TXT			ΡI	C X(6).				
1741	GC0712		05 WS-PN-Liter 05 WS-PN-Page-	-NUM			PI	C Z(3)9.				
1742			O .									
1743	GC1213	01	WS-Program-Pat	:h-TXT			PI	C X(135)				
1744			· ·									
1745		01	WS-Reserved-Wo	ords-TXT.								
1746			O5 VALUE '					, bic	X(33).			
1747	GC1213		O5 VALUE 'FABS	3				, bic	X(33).			
1748			O5 VALUE 'VACO	CEPT				, bic	X(33).			
1749			O5 VALUE ' ACC	CESS					X(33).			
1750	GC1213		O5 VALUE 'FABS O5 VALUE 'VACC O5 VALUE 'ACC O5 VALUE 'ACC O5 VALUE 'ACC O5 VALUE 'ACC O5 VALUE 'ADC O5 VALUE 'ADC O5 VALUE 'ADC O5 VALUE 'KAFT)S					X(33).			
1751			05 VALUE ' ACT	TIVE-CLASS					X(33).	UNIMPLEMENTED		
1752			O5 VALUE 'VADI)					X(33).			
1753			O5 VALUE , ADI	DRESS					X(33).			
1754			05 VALUE ' ADV	ANCING					X(33).			
1755									X(33).	INITADI DADAMDO		
1756			OF VALUE , ALI						X(33). X(33).	UNIMPLEMENTED		
1757 1758			O5 VALUE 'VALI						X(33).			
1759			OS VALUE 'VALI						X(33).			
1760			OS VALUE ' ALF						X(33).			
1761			OS VALUE , ALF		JFR			, bic				
1762			OS VALUE , ALF					, bic				
1763			O5 VALUE ' ALF						X(33).			
1764			O5 VALUE ' ALF		EDITED)			X(33).			
1765			O5 VALUE , ALS						X(33).			
1766			O5 VALUE 'VALT					, bic	X(33).			
1767			O5 VALUE ' ALT	TERNATE				, bic	X(33).			
1768			O5 VALUE ' AND)				, bic	X(33).			
1769	GC1213		O5 VALUE 'FANN					, bic	X(33).			
1770			O5 VALUE ' ANY	?					X(33).			
1771			O5 VALUE ' ANY						X(33).	UNIMPLEMENTED		
1772			O5 VALUE ' ARE						X(33).			
1773			05 VALUE ' ARE						X(33).			
1774			O5 VALUE ' ARE		70				X(33).			
1775 1776			OF VALUE , ARC						X(33).			
1777			OF VALUE , ARG		-				X(33).	UNIMPLEMENTED		
1778			05 VALUE ' ARI	ITHMETIC					X(33). X(33).	ONTHFLEHENTED		
1779			05 VALUE , ASC	SENDING					X(33).			
1780			O5 VALUE , ASC						X(33).			
1781	GC1213		05 VALUE 'FASI						X(33).			
1782			05 VALUE ' ASS						X(33).			
1783			O5 VALUE ' AT						X(33).			
1784	GC1213		O5 VALUE 'FATA	AN					X(33).			
1785	GC0711		O5 VALUE ' ATT	TRIBUTE				, bic	X(33).			
1786			O5 VALUE ' AUT	THOR				, bic	X(33).	OBSOLETE		
1787			O5 VALUE ' AUT						X(33).			
1788			O5 VALUE ' AUT						X(33).			
1789			O5 VALUE ' AUT						X(33).			
1790			O5 VALUE ' AUT	·UΓERMINATE				, bic	X(33).			

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1791		05 VALUE	' AWAY-FROM-ZERO		, bic	X(33).			
1792		05 VALUE	' B-AND ' B-NOT ' B-OR ' B-XOR		, bic	X(33).	UNIMPLEMENTED		
1793		05 VALUE	' B-NOT		, bic	X(33).	UNIMPLEMENTED		
1794		05 VALUE	, B-OK		, bic	X(33). X(33).	UNIMPLEMENTED		
1795		05 VALUE	, B-XOK		, bic	X(33)	UNIMPLEMENTED		
1796		05 VALUE	, BACKGROUND-COLOR		, bic	X(33).			
1797		05 VALUE	' BACKGROUND-COLOUR		, bic	X(33).			
1798		OF TRATTIP	1 DAGED		, bic	X(33).			
1799		05 VALUE	, BEED		, bic	X(33).			
1800		05 VALUE	, BEFORE		, bic	X(33).			
1801		05 VALUE	, BELL		, bic	X(33).			
1802		05 VALUE	' BINARY		, bic	X(33).			
1803		05 VALUE	BASED BEEP BEFORE BELL BINARY BINARY-C-LONG		, bic	X(33).			
1804		05 VALUE	' BINARY-CHAR ' BINARY-DOUBLE ' BINARY-INT		, bic	X(33).			
1805		05 VALUE	' BINARY-DOUBLE		, bic	X(33).			
1806		05 VALUE	' BINARY-INT		, bic	X(33).			
1807		OE MATIE) DINADV_IONC) DTC	X(33).			
1808		05 VALUE	' BINARY-LONG-LONG		, bic	X(33).			
1809		05 VALUE	' BINARY-SHORT		, bic	X(33).			
1810		05 VALUE	'BIT		, bic	X(33).	UNIMPLEMENTED		
1811		05 VALUE	BINARY-LONG BINARY-LONG-LONG BINARY-SHORT BIT BLANK BLINK BLOCK BOOLEAN		, bic	X(33).			
1812		05 VALUE	' BLINK		, bic	X(33).			
1813		O5 VALUE	, BLOCK		, bic	X(33).			
1814		O5 VALUE	' BOOLEAN		, bic	X(33).	UNIMPLEMENTED		
1815	GC1213	O5 VALUE	'FBOOLEAN-OF-INTEGER		, PIC	X(33).	UNIMPLEMENTED		
1816		05 VALUE	, BOLLOW		, bic	X(33).			
1817		05 VALUE				X(33).			
1818	GC1213		'FBYTE-LENGTH		, bic	X(33).			
1819		05 VALUE				X(33).			
1820		05 VALUE				X(33).			
1821		05 VALUE				X(33).			
1822		05 VALUE				X(33).			
1823		05 VALUE				X(33).			
1824		05 VALUE				X(33).			
1825		05 VALUE				X(33).			
1826		05 VALUE				X(33).			
1827		05 VALUE				X(33).			
1828		05 VALUE				X(33).			
1829 1830		05 VALUE 05 VALUE				X(33). X(33).			
1831 1832		O5 VALUE	'MCALL-CONVENTION			X(33). X(33).			
1833		O5 VALUE				X(33).			
1834			, CAPACITY			X(33).	UNIMPLEMENTED		
1835		05 VALUE				X(33).	OBSOLETE		
1836		05 VALUE				X(33).	UNIMPLEMENTED		
1837		05 VALUE				X(33).			
1838		05 VALUE				X(33).			
1839		05 VALUE				X(33).	UNIMPLEMENTED		
1840			, CHAINING			X(33).			
1841	GC1213	05 VALUE				X(33).			
1842	GC1213		'FCHAR-NATIONAL			X(33).	UNIMPLEMENTED		
1843	-		, CHARACTER			X(33).	_		
1844			' CHARACTERS			X(33).			

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1845		05 VALUE	, CLASS		, bic	X(33).			
1846		OS VALUE	, CIASS-ID		, DIC	X(33).	UNIMPLEMENTED		
1847	GC0711	05 VALUE	' CLASSIFICATION 'VCLOSE		, bic	X(33).			
1848		O5 VALUE	'VCLOSE		, bic	X(33).			
1849	GC1213	O5 VALUE	'FCOB-CRT-STATUS		, bic	X(33).			
1850		O5 VALUE	, CODE		, bic	X(33).			
1851		O5 VALUE	, CODE-SET		, bic	X(33).			
1852		05 VALUE	, COL		, bic	X(33).			
1853		05 VALUE	' COLLATING		, bic	X(33).			
1854		O5 VALUE	, COLS		, bic	X(33).			
1855		O5 VALUE	CODE CODE CODE CODE CODE CODE CODE CODE		, bic	X(33).			
1856		O5 VALUE	, COLUMNS		, bic	X(33).			
1857	GC1213	US VALUE.	'FCUMBINED-DATELIME.		, PIG	X(33).			
1858		05 VALUE	' COMMA		, bic	X(33).			
1859		05 VALUE	' COMMAND-LINE		, bic	X(33).			
1860		05 VALUE	COMMA COMMAND-LINE COMMON COMMUNICATION		, bic	X(33).			
1861		05 VALUE	, COMMON		, bic	X(33).			
1862		05 VALUE	COMMUNICATION		, PIC	X(33).	OBSOLETE		
1863		05 VALUE	, COMP			X(33).			
1864		05 VALUE	CUMP-1			X(33).			
1865		05 VALUE	CUMP-2			X(33).			
1866		O5 VALUE	CUMP-3			X(33).			
1867		OF VALUE	COMP-4			X(33).			
1868 1869		OF VALUE	COMP-6			X(33). X(33).			
1870		OS VALUE	COMP-1 COMP-1 COMP-2 COMP-3 COMP-4 COMP-5 COMP-6 COMP-X COMPUTATIONAL			X(33).			
1871		OS VALUE	, COMPLITATIONAL			X(33).			
1872		OS VALUE	' COMPUTATIONAL-1		, PIC	X(33).			
1873			COMPUTATIONAL-2			X(33).			
1874		O5 VALUE	, COMPUTATIONAL-3			X(33).			
1875		O5 VALUE	' COMPUTATIONAL-3 ' COMPUTATIONAL-4			X(33).			
1876		05 VALUE	' COMPUTATIONAL-5		, bic	X(33).			
1877		05 VALUE	' COMPUTATIONAL-X			X(33).			
1878		05 VALUE	'VCOMPUTE			X(33).			
1879	GC1213	05 VALUE	'FCONCATENATE ' CONDITION		, bic	X(33).			
1880	GC0712				, bic	X(33).			
1881		O5 VALUE	'KCONFIGURATION		, bic	X(33).			
1882		05 VALUE	'MCONSOLE		, bic	X(33).			
1883			' CONSTANT			X(33).			
1884		05 VALUE	' CONTAINS		, bic	X(33).			
1885	GC0712		'ACONTENT			X(33).			
1886			'VCONTINUE			X(33).			
1887			' CONTROL			X(33).			
1888	222 <u>7</u> 11		' CONTROLS			X(33).			
1889	GC0711		, CONVERSION			X(33).			
1890			'KCONVERTING			X(33).			
1891	,					X(33).			
1892 1893		05 VALUE	CORRESPONDING			X(33). X(33).			
1893 1894	GC1213	05 VALUE				X(33).			
1895	401213	05 VALUE				X(33).			
1896		05 VALUE				X(33).			
1897			, CRT-UNDER			X(33).			
1898		05 VALUE				X(33).			
1000		UU VALUL			110	(00) .			

1999	ACS Cob	ol Xref	v2.02.04	Dictionary File fo	or GCIC (LISTING)	06/03/2022	23:09:11:01	Page	61
1901 GC1213 OS VALUE PCURRENCY-SYMBOL PIC X(33) 1902 OS VALUE CURSOR PIC X(33) 1904 OS VALUE CURSOR PIC X(33) 1904 OS VALUE CURSOR PIC X(33) UNIMPLEMENTED 1905 OS VALUE CANTA PIC X(33) UNIMPLEMENTED 1906 OS VALUE DATE PLOTE PIC X(33) UNIMPLEMENTED 1906 OS VALUE DATE PLOTE PIC X(33) OBSOLETE 1908 OS VALUE DATE OTHER PIC X(33) OBSOLETE 1908 OS VALUE DATE - COMPILED PIC X(33) OBSOLETE 1908 OS VALUE DATE - COMPILED PIC X(33) OBSOLETE 1909 OS VALUE DATE - COMPILED PIC X(33) OBSOLETE 1909 OS VALUE DATE - COMPILED PIC X(33) OBSOLETE 1910 OS VALUE DATE - COMPILED PIC X(33) OBSOLETE 1911 OS VALUE DATE - COMPILED PIC X(33) OBSOLETE 1912 OS VALUE DATE - COMPILED PIC X(33) OBSOLETE 1912 OS VALUE DATE - COMPILED PIC X(33) OBSOLETE 1914 OS VALUE DATE - COMPILED PIC X(33) OBSOLETE 1918 OS VALUE DATE - COMPILED PIC X(33) OBSOLETE 1918 OS VALUE DATE - COMPILED PIC X(33) OBSOLETE 1918 OS VALUE DATE - COMPILED PIC X(33) OBSOLETE 1918 OS VALUE DEBUG-CITEM PIC X(33) PIC X(33) PIC X(33) OBSOLETE 1918 OS VALUE DEBUG-TIME PIC X(33) PIC	1899		05 VALUE	, CURRENCY	, bic	X(33).			
1911		GC1213	05 VALUE	'FCURRENCY-SYMBOL	, bic	X(33).			
1911	1901	GC1213	05 VALUE	'FCURRENT-DATE	, bic	X(33).			
1911	1902		05 VALUE	, CURSOR	, bic	X(33).			
1911			05 VALUE	, CYCLE	, bic	X(33).			
1911			05 VALUE	'KDATA	, bic	X(33).			
1911			05 VALUE	' DATA-POINTER	, bic	X(33).	UNIMPLEMENTED		
1911			05 VALUE	, DATE	, bic	X(33).			
1911			05 VALUE	' DATE-COMPILED	, bic	X(33).	OBSOLETE		
1911	1908		05 VALUE	' DATE-MODIFIED	, bic	X(33).	OBSOLETE		
1911	1909	GC1213	05 VALUE	'FDATE-OF-INTEGER	, bic	X(33).			
1911	1910	GC1213							
1912	1011		05 VALUE	' DATE-WRITTEN	, bic	X(33).	OBSOLETE		
1915 GC1213	1912		05 VALUE	' DAY	, bic	X(33).			
1915 GC1213	1913	GC1213	05 VALUE	'FDAY-OF-INTEGER	, bic	X(33).			
1916	1914		05 VALUE	' DAY-OF-WEEK	, bic	X(33).			
1916	1915	GC1213	05 VALUE	'IDAY-TO-YYYYDDD	, bic	X(33).			
1920 GCO712 O5 VALUE 'IDEBUG-NAME 'PIC X(33). 1921 GCO712 O5 VALUE 'IDEBUG-SUB-1 'PIC X(33). 1922 GCO712 O5 VALUE 'IDEBUG-SUB-2 'PIC X(33). 1923 GCO712 O5 VALUE 'IDEBUG-SUB-3 'PIC X(33). 1924 O5 VALUE 'DEBUG-SUB-3 'PIC X(33). 1925 O5 VALUE 'DECIMAL-POINT 'PIC X(33). 1926 O5 VALUE 'DECLARATIVES 'PIC X(33). 1927 O5 VALUE 'DECLARATIVES 'PIC X(33). 1928 O5 VALUE 'DELETE 'PIC X(33). 1929 O5 VALUE 'DELIMITED 'PIC X(33). 1930 O5 VALUE 'DELIMITED 'PIC X(33). 1931 O5 VALUE 'DEPENDING 'PIC X(33). 1932 O5 VALUE 'DEPENDING 'PIC X(33). 1933 O5 VALUE 'DESCENDING 'PIC X(33). 1934 O5 VALUE 'DESCENDING 'PIC X(33). 1935 GCO711 O5 VALUE 'DESCENDING 'PIC X(33). 1936 OF VALUE 'DISC 'PIC X(33). 1937 O5 VALUE 'DISC 'PIC X(33). 1938 GC1213 O5 VALUE 'DISK 'PIC X(33). 1939 O5 VALUE 'DISK 'PIC X(33). 1940 O5 VALUE 'NDISPLAY 'PIC X(33). 1940 O5 VALUE 'NDISPLAY 'PIC X(33). 1941 O5 VALUE 'NDIVIDE 'PIC X(33). 1942 O5 VALUE 'NDIVIDE 'PIC X(33). 1944 O5 VALUE 'NDIVIDE 'PIC X(33). 1945 O5 VALUE 'DUPLICATES 'PIC X(33). 1946 GCO712 O5 VALUE 'PE 'PIC X(33). 1947 O5 VALUE 'EECDIC 'PIC X(33). 1948 O5 VALUE 'EEC 'PIC X(33). 1949 O5 VALUE 'EEC 'PIC X(33). 1940 O5 VALUE 'EEC 'PIC X(33). 1944 O5 VALUE 'EEC 'PIC X(33). 1945 O5 VALUE 'EEC 'PIC X(33). 1946 O5 VALUE 'EEC 'PIC X(33). 1947 O5 VALUE 'EEC 'PIC X(33). 1948 O5 VALUE 'EEC 'PIC X(33). 1949 O5 VALUE 'EET 'PIC X(33). 1949 O5 VALUE 'EET 'PIC X(33). 1949 O5 VALUE 'EET 'PIC X(33). 1950 O5 VALUE 'PENPTY-CHECK 'PIC X(33). 1950 O5 VALUE 'VENSEE 'PIC X(33). 19	1916		05 VALUE	' DE	, bic	X(33).			
1920 GCO712 O5 VALUE 'IDEBUG-NAME 'PIC X(33). 1921 GCO712 O5 VALUE 'IDEBUG-SUB-1 'PIC X(33). 1922 GCO712 O5 VALUE 'IDEBUG-SUB-2 'PIC X(33). 1923 GCO712 O5 VALUE 'IDEBUG-SUB-3 'PIC X(33). 1924 O5 VALUE 'DEBUG-SUB-3 'PIC X(33). 1925 O5 VALUE 'DECIMAL-POINT 'PIC X(33). 1926 O5 VALUE 'DECLARATIVES 'PIC X(33). 1927 O5 VALUE 'DECLARATIVES 'PIC X(33). 1928 O5 VALUE 'DELETE 'PIC X(33). 1929 O5 VALUE 'DELIMITED 'PIC X(33). 1930 O5 VALUE 'DELIMITED 'PIC X(33). 1931 O5 VALUE 'DEPENDING 'PIC X(33). 1932 O5 VALUE 'DEPENDING 'PIC X(33). 1933 O5 VALUE 'DESCENDING 'PIC X(33). 1934 O5 VALUE 'DESCENDING 'PIC X(33). 1935 GCO711 O5 VALUE 'DESCENDING 'PIC X(33). 1936 OF VALUE 'DISC 'PIC X(33). 1937 O5 VALUE 'DISC 'PIC X(33). 1938 GC1213 O5 VALUE 'DISK 'PIC X(33). 1939 O5 VALUE 'DISK 'PIC X(33). 1940 O5 VALUE 'NDISPLAY 'PIC X(33). 1940 O5 VALUE 'NDISPLAY 'PIC X(33). 1941 O5 VALUE 'NDIVIDE 'PIC X(33). 1942 O5 VALUE 'NDIVIDE 'PIC X(33). 1944 O5 VALUE 'NDIVIDE 'PIC X(33). 1945 O5 VALUE 'DUPLICATES 'PIC X(33). 1946 GCO712 O5 VALUE 'PE 'PIC X(33). 1947 O5 VALUE 'EECDIC 'PIC X(33). 1948 O5 VALUE 'EEC 'PIC X(33). 1949 O5 VALUE 'EEC 'PIC X(33). 1940 O5 VALUE 'EEC 'PIC X(33). 1944 O5 VALUE 'EEC 'PIC X(33). 1945 O5 VALUE 'EEC 'PIC X(33). 1946 O5 VALUE 'EEC 'PIC X(33). 1947 O5 VALUE 'EEC 'PIC X(33). 1948 O5 VALUE 'EEC 'PIC X(33). 1949 O5 VALUE 'EET 'PIC X(33). 1949 O5 VALUE 'EET 'PIC X(33). 1949 O5 VALUE 'EET 'PIC X(33). 1950 O5 VALUE 'PENPTY-CHECK 'PIC X(33). 1950 O5 VALUE 'VENSEE 'PIC X(33). 19	1917	GC0712	05 VALUE	'IDEBUG-CONTENTS	, bic				
1920 GCO712 O5 VALUE 'IDEBUG-NAME 'PIC X(33). 1921 GCO712 O5 VALUE 'IDEBUG-SUB-1 'PIC X(33). 1922 GCO712 O5 VALUE 'IDEBUG-SUB-2 'PIC X(33). 1923 GCO712 O5 VALUE 'IDEBUG-SUB-3 'PIC X(33). 1924 O5 VALUE 'DEBUG-SUB-3 'PIC X(33). 1925 O5 VALUE 'DECIMAL-POINT 'PIC X(33). 1926 O5 VALUE 'DECLARATIVES 'PIC X(33). 1927 O5 VALUE 'DECLARATIVES 'PIC X(33). 1928 O5 VALUE 'DELETE 'PIC X(33). 1929 O5 VALUE 'DELIMITED 'PIC X(33). 1930 O5 VALUE 'DELIMITED 'PIC X(33). 1931 O5 VALUE 'DEPENDING 'PIC X(33). 1932 O5 VALUE 'DEPENDING 'PIC X(33). 1933 O5 VALUE 'DESCENDING 'PIC X(33). 1934 O5 VALUE 'DESCENDING 'PIC X(33). 1935 GCO711 O5 VALUE 'DESCENDING 'PIC X(33). 1936 OF VALUE 'DISC 'PIC X(33). 1937 O5 VALUE 'DISC 'PIC X(33). 1938 GC1213 O5 VALUE 'DISK 'PIC X(33). 1939 O5 VALUE 'DISK 'PIC X(33). 1940 O5 VALUE 'NDISPLAY 'PIC X(33). 1940 O5 VALUE 'NDISPLAY 'PIC X(33). 1941 O5 VALUE 'NDIVIDE 'PIC X(33). 1942 O5 VALUE 'NDIVIDE 'PIC X(33). 1944 O5 VALUE 'NDIVIDE 'PIC X(33). 1945 O5 VALUE 'DUPLICATES 'PIC X(33). 1946 GCO712 O5 VALUE 'PE 'PIC X(33). 1947 O5 VALUE 'EECDIC 'PIC X(33). 1948 O5 VALUE 'EEC 'PIC X(33). 1949 O5 VALUE 'EEC 'PIC X(33). 1940 O5 VALUE 'EEC 'PIC X(33). 1944 O5 VALUE 'EEC 'PIC X(33). 1945 O5 VALUE 'EEC 'PIC X(33). 1946 O5 VALUE 'EEC 'PIC X(33). 1947 O5 VALUE 'EEC 'PIC X(33). 1948 O5 VALUE 'EEC 'PIC X(33). 1949 O5 VALUE 'EET 'PIC X(33). 1949 O5 VALUE 'EET 'PIC X(33). 1949 O5 VALUE 'EET 'PIC X(33). 1950 O5 VALUE 'PENPTY-CHECK 'PIC X(33). 1950 O5 VALUE 'VENSEE 'PIC X(33). 19	1918	GC0712	05 VALUE	'IDEBUG-ITEM	, bic	X(33).			
1940	1919	GC0712	05 VALUE	'IDEBUG-LINE	, bic	X(33).			
1940			05 VALUE	'IDEBUG-NAME	, bic				
1940			05 VALUE	'IDEBUG-SUB-1	, bic				
1940			05 VALUE	'IDEBUG-SUB-2	, bic				
1940		GC0712	05 VALUE	'IDEBUG-SUB-3	, bic				
1940			05 VALUE	, DEBUGGING	, bic				
1940			05 VALUE	' DECIMAL-POINT	, bic				
1940			05 VALUE	' DECLARATIVES	, bic				
1940			05 VALUE	' DEFAULT	, bic				
1940			05 VALUE	, ADEL EVENDO	, bic				
1940			05 VALUE	, DELIMITED	, PIC				
1940			05 VALUE	'KDELIMITER	, PIC				
1940			O5 VALUE	, DEPENDING	, PIC				
1940			OF VALUE	· DESCENDING	, PIC		IINTMDI EMENTED		
1940			OF VALUE	DESTINATION	, PIC		UNIMPLEMENTED		
1940		CC0711	OS VALUE) DIGC	, DIC				
1940		GCU/II	OS VALUE) DIGC	, DIC				
1940			OS VALUE	ANDIADI VA	, DIC				
1940		CC1213	O5 VALUE	'EDISPLAT	, DIC		IINTMDI EMENTED		
1940		001210	O5 VALUE	'VDTVTDF	, bic		ONTIN ELITENTED		
1941									
1942									
1943						1 1			
1944 GC1213									
1945		GC1213							
1946 GC0712 05 VALUE 'EC 'PIC X(33). 1947 05 VALUE 'EGI 'PIC X(33). OBSOLETE 1948 05 VALUE 'VELSE 'PIC X(33). 1949 05 VALUE 'EMI 'PIC X(33). 1950 05 VALUE 'EMPTY-CHECK 'PIC X(33). 1951 05 VALUE 'VENABLE 'PIC X(33). OBSOLETE									
1947 05 VALUE 'EGI 'PIC X(33). OBSOLETE 1948 05 VALUE 'VELSE 'PIC X(33). 1949 05 VALUE 'EMI 'PIC X(33). OBSOLETE 1950 05 VALUE 'EMPTY-CHECK 'PIC X(33). 1951 05 VALUE 'VENABLE 'PIC X(33). OBSOLETE		GC0712							
1948							OBSOLETE		
1949 05 VALUE 'EMI 'PIC X(33). OBSOLETE 1950 05 VALUE 'EMPTY-CHECK 'PIC X(33). 1951 05 VALUE 'VENABLE 'PIC X(33). OBSOLETE									
1950 05 VALUE 'EMPTY-CHECK 'PIC X(33). 1951 05 VALUE 'VENABLE 'PIC X(33). OBSOLETE							OBSOLETE		
1951 O5 VALUE 'VENABLE 'PIC X(33). OBSOLETE									
1952 GC0710 05 VALUE 'KEND ' PIC X(33).			05 VALUE	'VENABLE			OBSOLETE		
	1952	GC0710	05 VALUE	'KEND	, bic	X(33).			

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1953		05 VALUE	' END-ACCEPT			, bi	C X(33).			
1954		05 VALUE	' END-ADD			, bi	C X(33).			
1955			' END-CALL				C X(33).			
1956			' END-CHAIN				C X(33).	UNIMPLEMENTED		
1957			' END-COMPUTE				C X(33).			
1958			' END-DELETE				C X(33).			
1959			' END-DISPLAY				C X(33).			
1960			' END-DIVIDE				C X(33).			
1961			' END-EVALUATE				C X(33).			
1962		05 VALUE					C X(33).			
1963			, END OF DAGE				C X(33).			
1964			' END-OF-PAGE ' END-PERFORM				C X(33). C X(33).			
1965 1966			' END-READ				C X(33).			
1966			' END-RECEIVE				C X(33).	OBSOLETE		
1968			, END-RETURN				C X(33).	ODSOLETE		
1969			' END-REWRITE				C X(33).			
1970		OS VALUE	, END-SEARCH				C X(33).			
1971			' END-START				C X(33).			
1972			, END-STRING				C X(33).			
1973			' END-SUBTRACT				C X(33).			
1974		05 VALUE	' END-UNSTRING				C X(33).			
1975			' END-WRITE				C X(33).			
1976		05 VALUE	'VENTRY			, bi	C X(33).			
1977		05 VALUE	' ENTRY-CONVENT	ION		, bi	C X(33).	UNIMPLEMENTED		
1978			'KENVIRONMENT			, bi	C X(33).			
1979			' ENVIRONMENT-N				C X(33).			
1980		05 VALUE	' ENVIRONMENT-V	ALUE			C X(33).			
1981		05 VALUE					C X(33).	UNIMPLEMENTED		
1982		05 VALUE					C X(33).			
1983		05 VALUE					C X(33).			
1984		05 VALUE					C X(33).			
1985		05 VALUE					C X(33).			
1986		05 VALUE					C X(33).			
1987		O5 VALUE					C X(33).			
1988 1989		05 VALUE 05 VALUE					C X(33). C X(33).			
1990		05 VALUE					C X(33).	OBSOLETE		
1991			'VEVALUATE				C X(33).	ODSOLETE		
1992			, EXCEPTION				C X(33).			
	GC1213		'FEXCEPTION-FIL	.E.			C X(33).			
1994			'FEXCEPTION-FIL				C X(33).	UNIMPLEMENTED		
1995	GC1213		'FEXCEPTION-LOC				C X(33).			
1996	GC1213	05 VALUE	'FEXCEPTION-LOC	ATION-	-N		C X(33).	UNIMPLEMENTED		
1997			, EXCEPTION-OBJ			, bi	C X(33).	UNIMPLEMENTED		
1998	GC1213	05 VALUE	'FEXCEPTION-STA	TEMENT	[, bi	C X(33).			
1999	GC1213	05 VALUE	'FEXCEPTION-STA	TUS		, bi	C X(33).			
2000		05 VALUE	, EXCLUSIVE			, bi	C X(33).			
2001		05 VALUE	'VEXIT				C X(33).			
2002	GC1213	05 VALUE	'FEXP				C X(33).			
2003	GC1213	05 VALUE					C X(33).			
2004			' EXPANDS				C X(33).	UNIMPLEMENTED		
2005		05 VALUE					C X(33).			
2006		05 VALUE	' EXTERNAL			, bi	C X(33).			

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2007	GC1213	O5 VALUE	'FFACTORIAL	, bic	X(33).			
2008		05 VALUE	'FFACTORIAL ' FACTORY ' FALSE 'KFD 'KFILE ' FILE-CONTROL ' FILE-ID ' FILLER ' FINAL ' FIRST ' FLOAT-BINARY-128 ' FLOAT-BINARY-32	, bic	X(33).	UNIMPLEMENTED		
2009		05 VALUE	' FALSE	, bic	X(33).			
2010		05 VALUE	'KFD	, bic	X(33).			
2011		05 VALUE	'KFILE	, bic	X(33).			
2012		05 VALUE	' FILE-CONTROL	, bic	X(33).			
2013		05 VALUE	' FILE-ID	, bic	X(33).			
2014	GC1113	05 VALUE	' FILLER	, bic	X(33).			
2015		05 VALUE	' FINAL	, bic	X(33).			
2016		05 VALUE	' FIRST	, bic	X(33). X(33).			
2017	GC0712 GC0712	05 VALUE	' FLOAT-BINARY-128	, bic	X(33).	UNIMPLEMENTED		
		00 111101	I BONI DIMMINI OE	110	11 (00).	UNIMPLEMENTED		
	GC0712	05 VALUE	' FLOAT-BINARY-64	, bic	X(33).	UNIMPLEMENTED		
2020		05 VALUE	' FLOAT-DECIMAL-16 ' FLOAT-DECIMAL-34 ' FLOAT-EXTENDED	, PIC	X(33).			
2021		O5 VALUE	FLUAT-DECIMAL-34	, PIC	X(33).	INTANT DADAMED		
2022	000740	O5 VALUE	' FLOAT-EXTENDED	, PIC	X(33).			
	GC0712	O5 VALUE	' FLOAT-INFINITY ' FLOAT-LONG	, PIC	X(33).	UNIMPLEMENTED		
2024	000710	OF VALUE	' FLUAT-LUNG	, bic	Λ(33).	HINTMDI EMENTED		
2025	GC0712	OF VALUE	FLUAT-NUT-A-NUMBER	, PIC	Λ(33). V(33)	ONIMPLEMENTED		
2026		OS VALUE	PLUAT-SHURT	, DIC	Λ(33).			
2027		OS VALUE	' FLOAT-NOT-A-NUMBER ' FLOAT-SHORT ' FOOTING ' FOR ' FOREGROUND-COLOR	PIC PIC PIC PIC PIC PIC	X(33).			
2029		O5 VALUE	, EUBECBUIND-CUI UB	, bic	X(33).			
2030		O5 VALUE	, EUBECRUIND-CULUIR	, bic	X(33).			
	GC0711	O5 VALUE	, EUREAGE	, bic	X(33)			
2032		O5 VALUE	, FORMAT	, bic	X(33).	UNIMPLEMENTED		
2033	GC1213	05 VALUE	' FOREGROUND-COLOR ' FOREGROUND-COLOUR ' FOREVER ' FORMAT 'FFORMATTED-CURRENT-DATE 'FFORMATTED-DATE	ATE , PIC	X(33).	UNIMPLEMENTED		
2034	GC1213	05 VALUE	'FFORMATTED-DATE	, PIC	X(33).	UNIMPLEMENTED		
2035					X ('3'3')	HIM I WIDT FIME WILLELD		
2036	GC1213	05 VALUE	'FFORMATTED-TIME 'MFORMFEED	, bic		UNIMPLEMENTED		
2037		05 VALUE	'MFORMFEED	, bic	X(33).			
2038	GC1213	05 VALUE	'MFORMFEED 'FFRACTION-PART 'VFREE 'FROM 'FULL 'FUNCTION 'KFUNCTION-ID 'FUNCTION-POINTER 'VGENERATE 'GET	, bic	X(33).			
2039		05 VALUE	'VFREE	, bic	X(33).			
2040		05 VALUE	' FROM	, bic	X(33).			
2041		05 VALUE	' FULL	, bic	X(33).			
2042		05 VALUE	' FUNCTION	, bic	X(33).			
2043	GC0712	05 VALUE	'KFUNCTION-ID	, PIC	X(33).			
2044		05 VALUE	' FUNCTION-POINTER	, PIC	X(33).	UNIMPLEMENTED		
2045		05 VALUE	'VGENERATE	, PIC	X(33).			
2046		O5 VALUE	, GET	, PIC	X(33).	UNIMPLEMENTED		
2047		OO VALOE	MAIVING	110	Λ(33).			
2048 2049		05 VALUE			X(33).			
2049		05 VALUE 05 VALUE			X(33). X(33).			
2050			' GREATER		X(33).			
2051		05 VALUE			X(33).			
2052			' GROUP-USAGE		X(33).	UNIMPLEMENTED		
2054			, HEADING		X(33).			
2055			, HIGH-VALUE		X(33).			
2056			, HIGH-VALUES		X(33).			
2057	GC1213		'FHIGHEST-ALGEBRAIC		X(33).			
2058			' HIGHLIGHT		X(33).			
2059		O5 VALUE	, I-O		X(33).			
2060		05 VALUE	' I-O-CONTROL	, bic	X(33).			

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2061		05 VALUE	'KID			, bic	X(33).			
2062		05 VALUE	'KIDENTIFICATION			, bic	X(33).			
2063						, bic	X(33).			
2064		05 VALUE	, IGNORE				X(33).			
2065		05 VALUE	'VIF ' IGNORE ' IGNORING ' IMPLEMENTS ' IN				X(33).			
2066		05 VALUE	, IMPLEMENTS				X(33).	UNIMPLEMENTED		
2067		O5 VALUE	, IN				X(33).			
2068		O5 VALUE	, INDEX				X(33).			
2069		O5 VALUE	'KINDEXED				X(33).			
2070		O5 VALUE	, INDICATE				X(33).			
2071		05 VALUE	, INDIRECT			, bic	X(33).	UNIMPLEMENTED		
2072		05 VALUE	, INHERITS			, bic	X(33).	UNIMPLEMENTED		
2073		05 VALUE	' INITIAL			, bic	X(33).			
2074		05 VALUE	'VINITIALISE			, bic	X(33).			
2075		O5 VALUE	' INITIALISED			, bic	X(33).			
2076		05 VALUE	' IN ' INDEX 'KINDEXED ' INDICATE ' INDIRECT ' INHERITS ' INITIAL 'VINITIALISE ' INITIALISE ' VINITIALIZE ' INITIALIZE			, bic	X(33).			
2077		05 VALUE	' INITIALIZED			, bic	X(33).			
2078			'VINITIATE				X(33).			
2079		05 VALUE				, bic	X(33).			
2080		05 VALUE	'KINPUT-OUTPUT				X(33).			
2081		O5 VALUE	'VINSPECT			, bic	X(33).			
2082		O5 VALUE	'VINSPECT ' INSTALLATION			, bic	X(33).	OBSOLETE		
2083	GC1213	UD VALUE	FINIEGER			, PIC	X(33).			
	GC1213	05 VALUE	'FINTEGER-OF-BOOL	EAN.		, bic	X(33).	UNIMPLEMENTED		
	GC1213		'FINTEGER-OF-DATE			, bic				
	GC1213	05 VALUE	'FINTEGER-OF-DAY			, bic	X(33).			
	GC1213	05 VALUE	'FINTEGER-OF-FORM	IATTED-DA	ATE	, bic	X(33).	UNIMPLEMENTED		
	GC1213		'FINTEGER-PART				X(33).			
2089		05 VALUE	' INTERFACE			, PIC		UNIMPLEMENTED		
2090		05 VALUE	' INTERFACE-ID			, PIC	X(33).	UNIMPLEMENTED		
2091		05 VALUE	' INTERMEDIATE				X(33).	UNIMPLEMENTED		
2092		O5 VALUE	'KINIU				X(33).			
2093		OF VALUE	' INIKINSIC				X(33).			
2094 2095		OF VALUE	, INVALID				X(33). X(33).	UNIMPLEMENTED		
2095		OS VALUE) INVUKE				X(33).	ONTMPLEMENTED		
2096		OS VALUE	י דט				X(33).			
2098		OS VALUE	'KINTO 'INTRINSIC 'INVALID 'INVOKE 'IS 'JUST 'JUSTIFIED				X(33).			
2099		05 VALUE	, KEDT				X(33).			
2100		05 VALUE					X(33).			
2101			, KEABOALD				X(33).			
2102		05 VALUE					X(33).			
2103		05 VALUE					X(33).			
2104		05 VALUE					X(33).	UNIMPLEMENTED		
2105			, LC_COLLATE				X(33).	UNIMPLEMENTED		
2106			, LC_CTYPE				X(33).	UNIMPLEMENTED		
2107			, LC_MESSAGES				X(33).	UNIMPLEMENTED		
2108			' LC_MONETARY			, bic	X(33).	UNIMPLEMENTED		
2109			' LC_NUMERIC			, bic	X(33).	UNIMPLEMENTED		
2110			' LC_TIME			, bic	X(33).	UNIMPLEMENTED		
2111		05 VALUE	' LEADING			, bic	X(33).			
2112		05 VALUE				, bic	X(33).			
2113			' LEFT-JUSTIFY				X(33).	UNIMPLEMENTED		
2114		05 VALUE	' LEFTLINE			, bic	X(33).			

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2115	GC1213	05 VALUE	'FLENGTH	, bic	X(33).			
2116	GC1213	05 VALUE	'FLENGTH-AN	, bic	X(33).			
2117		05 VALUE	, LENGTH-CHECK	, bic	X(33).			
2118		05 VALUE	'FLENGTH-AN ' LENGTH-CHECK ' LESS ' LIMIT ' LIMITS ' LINAGE 'ILINAGE-COUNTER ' LINE	, bic	X(33).			
2119		05 VALUE	' LIMIT	, bic	X(33).			
2120		05 VALUE	' LIMITS	, bic	X(33).			
2121		05 VALUE	' LINAGE	, bic	X(33).			
2122		05 VALUE	'ILINAGE-COUNTER	, bic	X(33).			
2123		05 VALUE	' LINE	, bic	X(33).			
2124	GC1213	05 VALUE	'ILINE-COUNTER	, bic	X(33).			
2125		05 VALUE	' LINES	, bic	X(33).			
2126		05 VALUE	'LINECOUNTER 'ILINE-COUNTER 'LINES 'KLINKAGE 'KLOCAL-STORAGE 'LOCALE 'FLOCALE-COMPARE 'FLOCALE-DATE	, bic	X(33).			
2127		05 VALUE	'KLOCAL-STORAGE	, bic	X(33).			
2128		05 VALUE	' LOCALE	, bic	X(33).			
2129	GC1213	05 VALUE	'FLOCALE-COMPARE	, bic	X(33).			
2130	GC1213	05 VALUE	'FLOCALE-DATE 'FLOCALE-TIME	, bic	X(33).			
2131	GC1213	05 VALUE	'FLOCALE-TIME	, bic	X(33).			
2132	GC1213	05 VALUE	'FLOCALE-TIME-FROM-SECONDS	, bic	X(33).			
2133		05 VALUE	, FOCK	, bic	X(33).			
	GC1213	05 VALUE	'FLOG	, bic	X(33).			
2135	GC1213	05 VALUE	'FLOG10	, bic	X(33).			
2136		05 VALUE	' LOW-VALUE	, bic	X(33).			
2137		05 VALUE	' LOW-VALUES	, bic	X(33).			
2138		05 VALUE	, LOWER	, bic	X(33).			
	GC1213	05 VALUE	'FLOWER-CASE	, bic	X(33).			
	GC1213	05 VALUE	'FLOWEST-ALGEBRAIC	, bic	X(33).			
2141		05 VALUE	'LOCK 'FLOG 'FLOG10 'LOW-VALUE 'LOW-VALUES 'LOWER 'FLOWER-CASE 'FLOWEST-ALGEBRAIC 'LOWLIGHT 'MANUAL 'FMAX 'FMEAN 'FMEDIAN 'MEMORY 'VMERGE 'MESSAGE 'METHOD-ID	, bic	X(33).			
2142		05 VALUE	' MANUAL	110	K(00).			
	GC1213	05 VALUE	'FMAX		X(33).			
	GC1213	05 VALUE	'FMEAN		X(33).			
	GC1213	05 VALUE	'FMEDIAN		X(33).			
2146		05 VALUE	, MEMORA		X(33).			
2147		05 VALUE	VMERGE NEGRACE		X(33).	ODGOT EME		
2148		O5 VALUE	MESSAGE	, PIC	X(33).	UNIMPLEMENTED		
2149		O5 VALUE	, WEIHOD ID	, PIC				
2150	GC1213	OF VALUE	WEIHUD-ID	, PIC	X(33). X(33).	UNIMPLEMENTED		
	GC1213	OS VALUE	PRIDRANGE	, PIC				
2152	GCIZIS	OS VALUE	> MINIIG	, DIC	X(33). X(33).			
	GC1213	OS VALUE	'METHOD-ID 'FMIDRANGE 'FMIN 'MINUS 'FMOD	, DIC	X(33).			
2154		O5 VALUE	, WUDE	, DIC	X(33).			
	GC1213		'FMODULE-CALLER-ID		X(33).			
2157			'FMODULE-DATE		X(33).			
2158	GC1213		'FMODULE-FORMATTED-DATE		X(33).			
2159	GC1213		'FMODULE-ID		X(33).			
2160			'FMODULE-PATH		X(33).			
2161			'FMODULE-SOURCE		X(33).			
2162			'FMODULE-TIME		X(33).			
	GC1213		'FMONETARY-DECIMAL-POINT		X(33).			
2164			'FMONETARY-THOUSANDS-SEPARATOR		X(33).			
2165		05 VALUE			X(33).			
2166			' MULTIPLE		X(33).			
2167			'VMULTIPLY		X(33).			
2168	GC0711	05 VALUE	' NAME	, bic	X(33).			

2169	
2170 O5 VALUE 'NATIONAL-EDITED 'PIC X(33).	
2171 CC1212 OF WAITE JEWATTOWAL OF J DIC V(22) INTERDITED	
ZI/I GOIZIO OO VALUE FNAIIUNAL-UF YIO A(33). UNIMPLEMENIED	
2172 O5 VALUE 'NATIVE 'PIC X(33).	
2173 O5 VALUE 'NEAREST-AWAY-FROM-ZERO 'PIC X(33).	
2174 O5 VALUE 'NEAREST-EVEN 'PTC X(33).	
2175 O5 VALUE 'NEAREST-TOWARD-ZERO 'PIC X(33).	
2176 O5 VALUE 'NEGATIVE 'PIC X(33).	
2177 O5 VALUE 'NESTED 'PIC X(33). UNIMPLEMENTED	
2178 05 VALUE 'VNEXT ' PIC X(33). 2179 05 VALUE 'NO ' PIC X(33). 2180 05 VALUE 'NO-ECHO ' PIC X(33).	
2179	
2180 O5 VALUE 'NO-ECHO 'PIC X(33).	
2181 O5 VALUE 'NONE 'PIC X(33). UNIMPLEMENTED	
2182	
2184 05 VALUE 'NULL 'PIC X(33).	
2181	
2186 O5 VALUE 'NUMBER 'PIC X(33).	
2187 05 VALUE 'INUMBER-OF-CALL-PARAMETERS ' PIC X(33).	
2188 05 VALUE 'NUMBERS 'PIC X(33).	
2189 05 VALUE 'NUMERIC' 'PIC X(33). 2190 GC1213 05 VALUE 'FNUMERIC-DECIMAL-POINT 'PIC X(33). 2191 05 VALUE 'NUMERIC-EDITED 'PIC X(33).	
2191 O5 VALUE 'NUMERIC-EDITED 'PIC X(33).	
2192 GC1213 O5 VALUE 'FNUMERIC-THOUSANDS-SEPARATUR ' PIC X(33).	
2193 GC1213 05 VALUE 'FNUMVAL 'PIC X(33).	
2194 GC1213 05 VALUE 'FNUMVAL-C ' PIC X(33).	
2195 GC1213 05 VALUE 'FNUMVAL-F 'PIC X(33).	
2196 05 VALUE 'OBJECT 'PIC X(33). UNIMPLEMENTED 2197 05 VALUE 'OBJECT-COMPUTER 'PIC X(33).	
2197 05 VALUE ' OBJECT-COMPUTER ' PIC X(33). 2198 05 VALUE ' OBJECT-REFERENCE ' PIC X(33). 2199 05 VALUE ' OCCURS ' PIC X(33).	
2198 O5 VALUE OBJECT-REFERENCE PIC X(33). UNIMPLEMENTED	
2199	
2201 05 VALUE ' OFF ' PIC X(33).	
2202 05 VALUE 'OMITTED 'PIC X(33).	
2203 05 VALUE ON PIC X(33).	
2204 05 VALUE 'ONLY 'PIC X(33).	
2205 05 VALUE 'VOPEN ' PIC X(33).	
2206 O5 VALUE 'OPTIONAL 'PIC X(33).	
2207 O5 VALUE OPTIONS PIC X(33). UNIMPLEMENTED	
2208	
2200 GOILLO GO VILLOL TOLD	
2210 GC1213 O5 VALUE 'FORD-MAX ' PIC X(33).	
2211 GC1213 05 VALUE 'FORD-MIN ' PIC X(33).	
2212 O5 VALUE 'ORDER 'PIC X(33).	
2213 O5 VALUE ORGANISATION OF WALVE ORGANISATION ORGANISATI	
2214	
2216 05 VALUE ' OUTPUT ' PIC X(33).	
2217 05 VALUE OUTFOR PIC X(33).	
2218 O5 VALUE OVERLINE PIC X(33).	
2219 O5 VALUE 'OVERRIDE 'PIC X(33).	
2220 05 VALUE 'PACKED-DECIMAL 'PIC X(33).	
2221 05 VALUE ' PADDING ' PIC X(33).	
2222 05 VALUE ' PAGE ' PIC X(33).	

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2223	GC1213	05 VALUE	'IPAGE-COUNTER			, bic	X(33).			
2224		O5 VALUE	' PARAGRAPH			, bic	X(33).			
2225			'VPERFORM			, bic	X(33).			
2226		O5 VALUE	' PF				X(33).			
2227		O5 VALUE	'PH				X(33).			
	GC1213						X(33).			
2229		05 VALUE					X(33).			
2230			'KPICTURE				X(33).			
2231		05 VALUE					X(33).			
2232			'KPOINTER				X(33).			
2233			, POSITION				X(33).			
2234			, POSITIVE				X(33).	IINTMDI EMENTED		
2235 2236			' PREFIXED ' PRESENT				X(33). X(33).	UNIMPLEMENTED		
	GC1213	OS VALUE	PRESENT VALUE				X(33).			
2238	GC1213	OS VALUE	'FPRESENT-VALUE ' PREVIOUS				X(33).			
2239			'MPRINTER				X(33).			
2240			, PRINTING				X(33).			
2241			'KPROCEDURE				X(33).			
2242			, PROCEDURE-POINT	ER.			X(33).			
2243			, PROCEDURES				X(33).			
2244		O5 VALUE	' PROCEED			, bic	X(33).			
2245		O5 VALUE	' PROGRAM			, bic	X(33).			
2246		O5 VALUE	'KPROGRAM-ID			, bic	X(33).			
2247			' PROGRAM-POINTER				X(33).			
2248			' PROHIBITED				X(33).			
2249		05 VALUE					X(33).			
2250			' PROPERTY				X(33).	UNIMPLEMENTED		
2251			' PROTOTYPE				X(33).	UNIMPLEMENTED		
2252 2253		05 VALUE 05 VALUE					X(33). X(33).	OBSOLETE		
2253		05 VALUE					X(33).	OBSOLETE		
2255		05 VALUE					X(33).			
2256		05 VALUE					X(33).	UNIMPLEMENTED		
2257			, RAISING				X(33).	UNIMPLEMENTED		
2258	GC1213						X(33).			
2259	GC1213	O5 VALUE	'FRANGE			, bic	X(33).			
2260	GC1213	O5 VALUE	'KRD			, bic	X(33).			
2261		O5 VALUE	'VREAD			, bic	X(33).			
2262		O5 VALUE	'VREADY			, bic	X(33).			
2263			'VRECEIVE				X(33).	OBSOLETE		
2264		O5 VALUE					X(33).			
2265			' RECORDING				X(33).			
2266			, RECORDS				X(33).			
2267			, RECURSIVE				X(33).			
2268 2269		O5 VALUE	'KREDEFINES				X(33).			
2269	GC0712		'AREFERENCE				X(33). X(33).			
2271	400112		, REFERENCES				X(33).			
2272			, RELATION				X(33).	UNIMPLEMENTED		
2273			, RELATIVE				X(33).	_		
2274			'VRELEASE				X(33).			
2275	GC1213	05 VALUE	'FREM				X(33).			
2276		05 VALUE	' REMAINDER			, bic	X(33).			

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2278		05 VALUE	' REMOVAL			, bic	X(33).			
2279			'KRENAMES			, bic	X(33).			
2280		05 VALUE	' REPLACE			, bic	X(33).			
2281		05 VALUE	'KREPLACING			, bic	X(33).			
2282		05 VALUE					X(33).			
2283			' REPORTING				X(33).			
2284			, REPORTS				X(33).			
2285			' REPOSITORY				X(33).			
2286			' REQUIRED				X(33).			
2287			, RESERVE				X(33).			
2288		05 VALUE					X(33).			
2289		05 VALUE						UNIMPLEMENTED		
2290		05 VALUE					X(33).	UNIMPLEMENTED		
2291		05 VALUE					X(33).			
2292		05 VALUE	'IRETURN-CODE				X(33).			
2293			'KRETURNING				X(33).			
	GC1213	05 VALUE	'FREVERSE				X(33).			
2295		05 VALUE	' REVERSE-VIDEO			, bic	X(33).			
2296		05 VALUE	' REVERSED			, bic	X(33).			
2297		05 VALUE	' REWIND				X(33).			
2298		05 VALUE	'VREWRITE				X(33).			
2299		05 VALUE	' RF				X(33).			
2300		05 VALUE	'RH			, bic	X(33).			
2301		05 VALUE	' RIGHT			, bic	X(33).			
2302			' RIGHT-JUSTIFY			, bic	X(33).	UNIMPLEMENTED		
2303		05 VALUE	'VROLLBACK			, bic	X(33).			
2304		05 VALUE	, ROUNDED			, bic	X(33).			
2305			' ROUNDING			, bic	X(33).	UNIMPLEMENTED		
2306		05 VALUE	' RUN			, bic	X(33).			
2307		05 VALUE	' SAME				X(33).			
2308		05 VALUE	'KSCREEN				X(33).			
2309		05 VALUE	, SCROLL				X(33).			
2310		05 VALUE					X(33).			
2311		05 VALUE					X(33).			
2312			, SECONDS				X(33).	UNIMPLEMENTED		
	GC1213		'FSECONDS-FROM-				X(33).			
	GC1213		'FSECONDS-PAST-	MIDNIG	HT		X(33).			
2315			'KSECTION				X(33).			
2316		05 VALUE					X(33).			
2317			' SECURITY				X(33).	OBSOLETE		
2318			' SEGMENT				X(33).	OBSOLETE		
2319			' SEGMENT-LIMIT				X(33).			
2320		05 VALUE					X(33).			
2321		05 VALUE					X(33).	UNIMPLEMENTED		
2322		O5 VALUE					X(33).	OBSOLETE		
2323			' SENTENCE				X(33).			
2324			' SEPARATE				X(33).			
2325 2326			' SEQUENCE ' SEQUENTIAL				X(33). X(33).			
2326		05 VALUE	•				X(33).			
2328			' SHARING				X(33).			
2329	GC1213	05 VALUE					X(33).			
2330	301210	05 VALUE					X(33).			
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2331		05 VALUE	, SIGNED-INT	, bic	X(33).			
2332		O5 VALUE	' SIGNED-LONG	, bic	X(33).			
2333		05 VALUE	'SIGNED-LONG' 'SIGNED-SHORT' 'FSIN' 'SIZE' 'VSORT' 'SORT-MERGE' 'ISORT-RETURN' 'SOURCE' 'SOURCE-COMPUTER	, bic	X(33).			
2334	GC1213	05 VALUE	'FSIN	, bic	X(33).			
2335		05 VALUE	' SIZE	, bic	X(33).			
2336		05 VALUE	'VSORT	, bic	X(33).			
2337		05 VALUE	' SORT-MERGE	, bic	X(33).			
2338		05 VALUE	'ISORT-RETURN	, bic	X(33).			
2339		05 VALUE	, SOURCE	, bic	X(33).			
2340		05 VALUE	' SOURCE-COMPUTER	, bic	X(33).			
2341		O5 VALUE	' SOURCE-COMPUTER ' SOURCES	, bic	X(33).	UNIMPLEMENTED		
2342		05 VALUE	' SPACE	, bic	X(33).			
2343		05 VALUE	' SOURCES ' SPACE ' SPACE-FILL	, bic	X(33).	UNIMPLEMENTED		
2344		05 VALUE	' SPACES	, bic	X(33).			
2345		05 VALUE	' SPECIAL-NAMES	, bic	X(33).			
2346	GC1213	05 VALUE	'FSQRT	, bic	X(33).			
2347		05 VALUE	' STANDARD	, bic	X(33).			
2348		05 VALUE	' SPACE-FILL ' SPACES ' SPECIAL-NAMES 'FSQRT ' STANDARD ' STANDARD-1 ' STANDARD-2	, bic	X(33).			
2349		05 VALUE	' STANDARD-2	, bic	X(33).			
2350		US VALUE	214NDAVD_DINAVI	PIC	X(33).	UNIMPLEMENTED		
	GC1213		'FSTANDARD-COMPARE	, bic	X(33).	UNIMPLEMENTED		
2352		05 VALUE	' STANDARD-DECIMAL	, bic	X(33). X(33)	UNIMPLEMENTED		
2353	GC1213	05 VALUE	'FSTANDARD-DEVIATION	110	11 (00).			
2354		O5 VALUE			X(33).			
2355			' STATEMENT		X(33).	UNIMPLEMENTED		
2356		05 VALUE			X(33).			
2357		05 VALUE			X(33).			
2358			, STDCALL		X(33).			
2359 2360		05 VALUE 05 VALUE			X(33). X(33).			
2361		05 VALUE			X(33).			
2362		05 VALUE			X(33).			
2363		05 VALUE			X(33).			
	GC1213	O5 VALUE	'FSTORED-CHAR-LENGTH	, bic	X(33).			
2365	401210	05 VALUE	'VSTRING	, bic	X(33).			
2366		O5 VALUE	, STRONG	, 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	'STRING' 'STRONG' 'SUB-QUEUE-1' 'SUB-QUEUE-2' 'SUB-QUEUE-3' 'FSUBSTITUTE	, bic	X(33).			
2371	GC1213		'FSUBSTITUTE-CASE	, bic	X(33).			
2372		05 VALUE	'VSUBTRACT	, bic	X(33).			
2373	GC1213	05 VALUE	'FSUM	, bic	X(33).			
2374		05 VALUE	' SUPER	, bic	X(33).	UNIMPLEMENTED		
2375		O5 VALUE	'VSUPPRESS	, bic	X(33).			
2376		05 VALUE	'MSWO	, bic	X(33).			
2377		05 VALUE			X(33).			
2378		05 VALUE			X(33).			
2379		05 VALUE			X(33).			
2380		05 VALUE			X(33).			
2381		05 VALUE			X(33).			
2382		05 VALUE			X(33).			
2383		05 VALUE			X(33).			
2384		05 VALUE	ZMQIL,	, bic	X(33).			

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2385	05 VALUE	'MSW3	, PIC	X(33).			
2386	05 VALUE	'MSW4		X(33).			
2387	05 VALUE			X(33).			
2388	05 VALUE			X(33).			
2389	05 VALUE			X(33).			
2390	05 VALUE	'MSW8		X(33).			
2391	05 VALUE			X(33).			
2392		'MSWITCH-O		X(33).			
2393		'MSWITCH-1		X(33).			
2394	05 VALUE	'MSWITCH-10		X(33).			
2395		'MSWITCH-11		X(33).			
2396		'MSWITCH-12		X(33).			
2397	05 VALUE	'MSWITCH-13	, bic	X(33).			
2398	05 VALUE	'MSWITCH-14	, bic	X(33).			
2399	05 VALUE	'MSWITCH-15	, bic	X(33).			
2400	05 VALUE	'MSWITCH-2	, bic	X(33).			
2401	05 VALUE	'MSWITCH-3	, bic	X(33).			
2402	05 VALUE	'MSWITCH-4	, bic	X(33).			
2403	05 VALUE	'MSWITCH-5	, bic	X(33).			
2404	05 VALUE	'MSWITCH-6		X(33).			
2405	05 VALUE	'MSWITCH-7	, bic	X(33).			
2406	05 VALUE	'MSWITCH-8	, bic	X(33).			
2407		'MSWITCH-9	, bic	X(33).			
2408	05 VALUE			X(33).	UNIMPLEMENTED		
2409		' SYMBOLIC		X(33).			
2410	O5 VALUE			X(33).			
2411		' SYNCHRONISED		X(33).			
2412		, SYNCHRONIZED		X(33).			
2413	05 VALUE			X(33).			
2414	05 VALUE			X(33).			
2415	05 VALUE			X(33).			
2416		'MSYSLIST		X(33).			
2417 2418	05 VALUE 05 VALUE			X(33). X(33).			
2410		' SYSTEM-DEFAULT		X(33).			
2419	O5 VALUE			X(33).	UNIMPLEMENTED		
2421		'KTALLYING		X(33).	ONTER LEHENTED		
	GC1213 05 VALUE			X(33).			
2423	05 VALUE			X(33).			
2424		' TERMINAL		X(33).	OBSOLETE		
2425		'VTERMINATE		X(33).	02202212		
2426	05 VALUE			X(33).			
2427 ('FTEST-DATE-YYYYMMDD		X(33).			
		'FTEST-DAY-YYYYDDD		X(33).			
2429 (GC1213 05 VALUE	'FTEST-FORMATTED-DATETIM	ME , bic	X(33).	UNIMPLEMENTED		
2430 (GC1213 05 VALUE	'FTEST-NUMVAL	, bic	X(33).			
		'FTEST-NUMVAL-C	, bic	X(33).			
2432 (GC1213 05 VALUE	'FTEST-NUMVAL-F		X(33).			
2433	05 VALUE	' TEXT	, bic	X(33).	OBSOLETE		
2434	05 VALUE	' THAN		X(33).			
2435	05 VALUE			X(33).			
2436		, THROUGH		X(33).			
2437	05 VALUE			X(33).			
2438	05 VALUE	' TIME	, bic	X(33).			

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2439	GC0711	05 VALUE	'TIME-OUT	,	PIC	X(33).			
2440	GC0711	05 VALUE	' TIMEOUT ' TIMES 'KTO ' TOP ' TOWARD-GREATER ' TOWARD-LESSER ' TRAILING ' TRAILING	,		X(33).			
2441		05 VALUE	' TIMES	,		X(33).			
2442		05 VALUE	'KTO	,	PIC	X(33).			
2443		05 VALUE	' TOP	,	PIC	X(33).			
2444		05 VALUE	' TOWARD-GREATER	,	PIC	X(33).			
2445		05 VALUE	' TOWARD-LESSER	,	PIC	X(33).			
2446		05 VALUE	' TRAILING	,	PIC	X(33).			
2447		OO VALOE	INATELNA DIGN	,	PIC	X(33).	UNIMPLEMENTED		
2448		05 VALUE	'VTRANSFORM			X(33).			
	GC1213	05 VALUE	'FTRIM	,	PIC	X(33).			
2450		05 VALUE	'FTRIM ' TRUE ' TRUNCATION ' TYPE	,		X(33).			
2451		05 VALUE	' TRUNCATION	,		X(33).			
2452		OO VALOE	TIFE			X(33).			
2453			' TYPEDEF		PIC	X(33).	UNIMPLEMENTED		
2454		05 VALUE	, ucs-4	,		X(33).	UNIMPLEMENTED		
2455		O5 VALUE	' UNDERLINE	,		X(33).			
2456		OF VALUE	, UNII	,		X(33).	UNIMPLEMENTED		
2457 2458		OF VALUE	VIIII OCK	,		X(33). X(33).	UNIMPLEMENTED		
2450 2459		OS VALUE	' UCS-4 ' UNDERLINE ' UNIT ' UNIVERSAL 'VUNLOCK ' UNSIGNED ' UNSIGNED-INT ' UNSIGNED-LONG ' UNSIGNED-SHORT	,		X(33).			
2459		OS VALUE	, INGIGNED-INT	,		X(33).			
2461		O5 VALUE	, INSIGNED INI	,		X(33).			
2462		O5 VALUE	, INSTRNED-SHORT	,		X(33).			
2463		O5 VALUE	'VIINSTRING	,		X(33).			
2464		05 VALUE	, UNTIL	,		X(33).			
2465		05 VALUE	'KUP	,		X(33).			
2466		05 VALUE	' UPDATE	,		X(33).			
2467		05 VALUE	' UNSIGNED-LONG ' UNSIGNED-SHORT 'VUNSTRING ' UNTIL 'KUP ' UPDATE ' UPON ' UPPER 'FUPPER-CASE ' USAGE 'VUSE ' USER	,		X(33).			
2468		05 VALUE	' UPPER	,	PIC	X(33).			
2469	GC1213	05 VALUE	'FUPPER-CASE	,	PIC	X(33).			
2470		05 VALUE	' USAGE	,		X(33).			
2471		05 VALUE	'VUSE	,		X(33).			
	GC0711	05 VALUE	' USER	,		X(33).			
2473		05 VALUE	' USER-DEFAULT	,		X(33).			
2474		05 VALUE	'KUSING	,		X(33).			
2475		O5 VALUE	, UTF-16	,		X(33).	UNIMPLEMENTED		
2476		OF VALUE	YULF-8	,	PIC	X(33). X(33).	UNIMPLEMENTED		
2477 2478		OF VALUE	' USER-DEFAULT 'KUSING ' UTF-16 ' UTF-8 ' VAL-STATUS ' VALID	,	PIC	X(33).	UNIMPLEMENTED UNIMPLEMENTED		
2478		OS VALUE	, ATTIP	,		X(33).	UNIMPLEMENTED		
2480			, VALIDATE-STATUS			X(33).	UNIMPLEMENTED		
	GC0712	05 VALUE				X(33).			
2482	400.12	05 VALUE				X(33).			
2483	GC1213		'FVARIANCE			X(33).			
2484			'KVARYING	,	PIC	X(33).			
2485		05 VALUE	' VDISABLE	,	PIC	X(33).	UNIMPLEMENTED		
2486		05 VALUE	' WAIT			X(33).			
2487		05 VALUE	'VWHEN	,	PIC	X(33).			
2488	GC1213	05 VALUE	'FWHEN-COMPILED	,	PIC	X(33).			
2489		05 VALUE				X(33).			
2490		05 VALUE				X(33).			
2491			'KWORKING-STORAGE			X(33).			
2492		05 VALUE	'VWRITE	,	PIC	X(33).			

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2493 2494 2495 2496	GC1213		05 VALUE 'FYEAR-TO-' 05 VALUE ' YYYYMDD 05 VALUE ' ZERO		, bic	X(33). X(33). X(33). X(33).			
2497 2498			O5 VALUE 'ZERO-FILIO5 VALUE 'ZEROES	L		X(33). X(33).	UNIMPLEMENTED		
2499			O5 VALUE ' ZEROS			X(33).			
2500		01	WS-Reserved-Word-Tal	ble-TXT REDEFINE	ES WS-Reserved	-Words-TXT.			
2501	GC1113		05 WS-Reserved-Word	-TXT OCCU	JRS 754 TIMES				
2502					ASCENDING				
2503						Word-TXT			
2504 2505			10 UC-DU-Tuno-CD		INDEXED WS PIC X(1).	-KW-IDX.			
2506			10 WS-RW-Type-CD 10 WS-RW-Word-TX		PIC X(1).				
2507			10 ND 100 NOTA 111	•	110 11(02).				
2508		01	WS-Runtime-Switches						
2509	GC0710		05 WS-RS-Duplicate-0	CHR	PIC X(1).				
2510			05 WS-RS-In-Which-Page	-	PIC X(1).				
2511			88 WS-RS-In-Main		VALUE 'M'.				
2512			88 WS-RS-In-Copyl		VALUE 'C'.				
2513 2514			05 WS-RS-Last-Token 05 WS-RS-Processing		PIC X(1). PIC X(1).				
2514			05 WS-RS-Token-Ended		PIC X(1).				
	GC0710		05 WS-RS-Verb-Has-Be		PIC X(1).				
2517									
2518		01	WS-Saved-Section-TX	T	PIC X(15).				
2519									
			WS-Src-Dashes-TXT.		DIG V(7)				
2521 2522	GC0712 GC0712		05 VALUE '=====' 05 VALUE ALL '='		PIC X(7). PIC X(128)				
2523	000712		OO VALOL 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 2534	GC1213	01	WS-Src-Lines-NUM		USAGE BINA	RY-LONG.			
2535		01	WS-Src-SUB		USAGE BINA	RY-LONG.			
2536 2537		01	WS-Tally-QTY		USAGE BINA	RY-LONG.			
2538 2539		01	WS-Temp-10-Chars-TX	T	PIC X(10).				
2540 2541		01	WS-Temp-32-Chars-1-	тхт	PIC X(32).				
2542			•						
2543 2544	GC0711	01	WS-Temp-32-Chars-2-	TXT	PIC X(32).				
2545 2546	GC0711	01	WS-Temp-32-Chars-3-	TXT	PIC X(32).				

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 2547 GC0712 01 WS-Temp-65-Chars-TXT
                                                     PIC X(65).
 2548
 2549
             01 WS-Temp-256-Chars-TXT
                                                     PIC X(256).
 2550
 2551
             01 WS-Today-DT
                                                     PIC 9(8).
 2552
             01 WS-Token-Curr-TXT
 2553
                                                     PIC X(32).
 2554
 2555
            01 WS-Token-Curr-Uc-TXT
                                                     PIC X(32).
 2556
             01 WS-Token-Prev-TXT
 2557
                                                     PIC X(32).
 2558
 2559
             01 WS-Token-Search-TXT
                                                     PIC X(32).
 2560
             01 WS-Token-Type-CD
                                                     PIC X(1).
 2561
                88 WS-TT-Token-Is-Argtype-BOOL
                                                     VALUE 'A'.
 2562 GC0712
 2563 88 WS-TT-Token-Is-EOF-BOOL VALUE HIGH 2564 GC1213 88 WS-TT-Token-Is-Function-BOOL VALUE 'F'.
                88 WS-TT-Token-Is-EOF-BOOL
                                                     VALUE HIGH-VALUES.
 VALUE 'K', 'V', 'A'.
                                                     VALUE 'V'.
 2569
                 88 WS-TT-Token-Is-Verb-BOOL
 2570 GC1213 88 WS-TT-Token-Is-Reserved-Wd-BOOL
                                                     VALUE ' ', 'F'.
 2571
            01 WS-Usernames-QTY
                                                     USAGE BINARY-LONG.
 2572
 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
                05 FILLER
                                                    PIC X(1).
 2578
 2579
               05 WS-XDL-Token-TXT
                                                    PIC X(32).
               05 FILLER
 2580
                                                    PIC X(1).
 2581
                05 WS-XDL-Def-Line-NUM
                                                    PIC ZZZZZ9.
 2582
                 05 FILLER
                                                     PIC X(1).
                 05 WS-XDL-Section-TXT
                                                    PIC X(15).
 2583
                                                   PIC X(1).
 2584
                05 FILLER
 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
 2592
             LINKAGE SECTION.
 2593 GC0712 01 L-Listing-Fn-TXT
                                                     PIC X(256).
 2594
             01 L-Src-Fn-TXT
                                                     PIC X(256).
 2595
 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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 2601 GC1213 01 L-LPP-Port-NUM
                                                    USAGE BINARY-LONG.
 2602
                                                    PIC 9(1).
 2603 GC1213 01 L-Listing-CD
 2604
 2605 GC0712 PROCEDURE DIVISION USING L-Listing-Fn-TXT
 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
                                   F-SW-Prog-ID-TXT
                  ASCENDING KEY
 2617 GC0712
                                    F-SW-Token-Uc-TXT
 2618 GC0712
                                     F-SW-Ref-Line-NUM
                INPUT PROCEDURE 300-Tokenize-Source
 2619 GC0712
 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
 2634 VC0820
                       ' Copyright (C) 2009-'
                                               DELIMITED SIZE
 2635 VC0322
                       COMP-YEAR
                                                  DELIMITED SIZE
 2636 VC0322
                       ', Gary L. Cutler, GPL'
                                                  DELIMITED SIZE
 2637 GC1213
                       INTO WS-Copyright-TXT
 2638 VCO811*> See const-set-1.cpy for constants used
                MOVE 'GNUCOBOL 3.1.2 O6MAR2022' TO WS-Version-TXT
 2639 VC0811*>
 2640
 2641 VC0811
                         Comp-Vers to
                                        WS-Version-TXT.
                 move
 2642
                 MOVE TRIM(L-Src-Fn-TXT, Leading) TO L-Src-Fn-TXT
                 PERFORM VARYING WS-I-SUB FROM LENGTH(L-Src-Fn-TXT) BY -1
 2643 GC1010
 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
              IF WS-I-SUB = 0
 2649 GC1010
                    MOVE UPPER-CASE(L-Src-Fn-TXT) TO WS-Main-Module-Name-TXT
 2650 GC1010
 2651
           *> No directory delimiter, whole thing is filename
 2652 GC1010
               FLSF.
                 ADD 1 TO WS-I-SUB
 2653 GC1010
 2654 GC1010
                   MOVE UPPER-CASE(L-Src-Fn-TXT(WS-I-SUB:))
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 2655 GC1010
                       TO WS-Main-Module-Name-TXT *> Extract filename
 2656 GC1010 END-IF
                IF L-Listing-CD = 1 *> LANDSCAPE
 2657 GC1213
                 MOVE 8 TO WS-Xref-Lines-Per-Rec-NUM
 2658 GC1213
                 ACCEPT WS-Lines-Per-Page-Env-TXT
 2659 GC1213
 2660 GC1213
                         FROM ENVIRONMENT 'GCXREF_LINES'
 2661 GC1213
                ELSE *> PORTRAIT
                 MOVE 3 TO WS-Xref-Lines-Per-Rec-NUM
 2662 GC1213
 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
 2668
                 CALL 'C$JUSTIFY' USING WS-Program-Path-TXT, 'Right'
 2669
                 MOVE LENGTH(TRIM(L-Src-Fn-TXT, Trailing)) TO WS-I-SUB
                 MOVE O TO WS-J-SUB
 2670
                 PERFORM UNTIL L-Src-Fn-TXT(WS-I-SUB:1) = '/'
 2671
 2672
                            OR WS-I-SUB = 0
 2673
                     SUBTRACT 1 FROM WS-I-SUB
 2674
                     ADD
                           1 TO WS-J-SUB
 2675
                 END-PERFORM
 2676
                 UNSTRING L-Src-Fn-TXT((WS-I-SUB + 1):WS-J-SUB)
                     DELIMITED BY '.'
 2677
 2678
                     INTO WS-Filename-TXT
 2679
                          WS-Dummy-TXT
 2680 GC1010 STRING
 2681 GC1010
                       TRIM(WS-Filename-TXT, Trailing)
 2682 GC1010
                        '.i'
 2683 GC1010
                        DELIMITED SIZE
 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
 2687 GC1010
                IF RETURN-CODE NOT = 0
 2688 GC1010
                    GOBACK
 2689 GC1010
                 END-IF
 2690
                 IF WS-Lines-Per-Page-Env-TXT NOT = SPACES
 2691
                     MOVE NUMVAL(WS-Lines-Per-Page-Env-TXT)
 2692
                       TO WS-Lines-Per-Page-NUM
                 ELSE
 2693
                 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
                END-IF
 2699
 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
                 MOVE '???????????...' TO WS-Curr-Prog-ID-TXT
 2703
 2704
                 MOVE SPACES
                                       TO WS-Curr-Verb-TXT
 2705
                                          WS-Held-Reference-TXT
 2706
 2707
              300-Tokenize-Source SECTION.
 2708
```

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                                                                                                       76
  2709
                   OPEN INPUT F-Expanded-Src-FILE
  2710
                  MOVE SPACES TO F-Expanded-Src-REC
                  MOVE 256 TO WS-Src-SUB
  2711
                  MOVE 0 TO WS-Usernames-QTY
  2712
  2713
                            WS-Curr-Line-NUM
  2714
                  MOVE '?' TO WS-Curr-Division-TXT
                  MOVE 'N' TO WS-RS-Verb-Has-Been-Found-CHR
  2715 GC0710
 2716
                  PERFORM FOREVER
 2717
                      PERFORM 310-Get-Token
 2718
                      IF WS-TT-Token-Is-E0F-B00L
 2719
                          EXIT PERFORM
 2720
                      END-TF
  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
  2725 GC1010
                          MOVE WS-Token-Curr-Uc-TXT TO WS-Token-Curr-TXT
  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
                              MOVE WS-Held-Reference-TXT TO F-Sort-Work-REC
  2731
  2732
                               MOVE SPACES TO WS-Held-Reference-TXT
  2733
                               RELEASE F-Sort-Work-REC
                           FND-TF
  2734
                      END-IF
  2735
  2736
                       EVALUATE TRUE
  2737
                       WHEN WS-CD-In-IDENT-DIV-BOOL
  2738
                          PERFORM 320-IDENTIFICATION-DIVISION
  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
                      IF WS-RS-Token-Ended-Sentence-CHR = 'Y'
  2749
  2750
                       AND WS-Curr-Division-TXT NOT = 'I'
                           MOVE SPACES TO WS-Token-Prev-TXT
  2751
  2752
                                         WS-Curr-Verb-TXT
  2753
                      END-IF
  2754
  2755
                   END-PERFORM
  2756
                   CLOSE F-Expanded-Src-FILE
  2757
  2758
  2759
              310-Get-Token SECTION.
              *>-- Position to 1st non-blank character
  2760
  2761
                  MOVE WS-RS-Token-Ended-Sentence-CHR
  2762
                     TO WS-RS-Last-Token-Ended-Sent-CHR
```

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                                                                                                      77
                  MOVE 'N' TO WS-RS-Token-Ended-Sentence-CHR
  2763
  2764
                  PERFORM UNTIL F-Expanded-Src-REC(WS-Src-SUB : 1) NOT = SPACE
  2765
                      IF WS-Src-SUB > 255
                          READ F-Expanded-Src-FILE AT END
  2766
                              IF WS-Held-Reference-TXT NOT = SPACES
  2767
  2768
                                  MOVE WS-Held-Reference-TXT TO F-Sort-Work-REC
  2769
                                  MOVE SPACES TO WS-Held-Reference-TXT
 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
  2776 GC0712
                          IF F-ES-1-7-TXT NOT = '#DEFLIT'
  2777 GC0712
                              IF F-ES-1-CHR = '#'
 2778 GC0712
                                  PERFORM 311-Control-Record
  2779 GC0712
  2780 GC0712
                                  PERFORM 312-Expanded-Src-Record
                              END-IF
  2781 GC0712
  2782 GC0712
                          END-IF
  2783
                      ELSE
  2784
                          ADD 1 TO WS-Src-SUB
  2785
                      END-IF
  2786
                 END-PERFORM
  2787
             *>-- Extract token string
                 MOVE F-Expanded-Src-REC(WS-Src-SUB : 1)
  2788
  2789
                    TO WS-Curr-CHR
  2790
                  MOVE F-Expanded-Src-REC(WS-Src-SUB + 1: 1)
  2791
                    TO WS-Next-CHR
                  IF WS-Curr-CHR = '.'
  2792
  2793
                      ADD 1 TO WS-Src-SUB
                      MOVE WS-Curr-CHR TO WS-Token-Curr-TXT
  2794
  2795
                      MOVE SPACE TO WS-Token-Type-CD
                      MOVE 'Y' TO WS-RS-Token-Ended-Sentence-CHR
  2796
  2797
                      EXIT SECTION
  2798
                  END-IF
                  IF WS-Curr-Char-Is-Punct-BOOL
  2799
  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
                  END-IF
  2807
                  IF WS-Curr-Char-Is-Punct-BOOL *> So subscripts don't get flagged w/ '*'
  2808
                  AND WS-Curr-CHR = '('
  2809
                  AND WS-Curr-Division-TXT = 'P'
  2810
                      MOVE SPACES TO WS-Token-Prev-TXT
  2811
                  END-IF
                  IF WS-Curr-Char-Is-Punct-BOOL
  2812
  2813
                      ADD 1 TO WS-Src-SUB
                      MOVE WS-Curr-CHR TO WS-Token-Curr-TXT
  2814
  2815
                      MOVE SPACE TO WS-Token-Type-CD
  2816
                      EXIT SECTION
```

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                                                                                                          78
  2817
                   END-TF
  2818
                   IF WS-Curr-Char-Is-Quote-BOOL
                       ADD 1 TO WS-Src-SUB
  2819
  2820
                       UNSTRING F-Expanded-Src-REC
  2821
                           DELIMITED BY WS-Curr-CHR
  2822
                           INTO WS-Token-Curr-TXT
  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-TF
  2828
                       SET WS-TT-Token-Is-Lit-Alpha-BOOL TO TRUE
  2829
                       EXIT SECTION
  2830
                   END-IF
                   IF WS-Curr-Char-Is-X-BOOL AND WS-Next-Char-Is-Quote-BOOL
  2831
  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
                       SET WS-TT-Token-Is-Lit-Number-BOOL TO TRUE
  2841
  2842
                       EXIT SECTION
                   END-IF
  2843
  2844
                   IF WS-Curr-Char-Is-Z-BOOL AND WS-Next-Char-Is-Quote-BOOL
  2845
                       ADD 2 TO WS-Src-SUB
                       UNSTRING F-Expanded-Src-REC
  2846
  2847
                           DELIMITED BY WS-Next-CHR
                           INTO WS-Token-Curr-TXT
  2848
  2849
                           WITH POINTER WS-Src-SUB
                       IF F-Expanded-Src-REC(WS-Src-SUB : 1) = '.'
  2850
  2851
                           MOVE 'Y' TO WS-RS-Token-Ended-Sentence-CHR
  2852
                           ADD 1 TO WS-Src-SUB
  2853
                       END-IF
                       SET WS-TT-Token-Is-Lit-Alpha-BOOL TO TRUE
  2854
  2855
                       EXIT SECTION
  2856
                   END-IF
                   IF WS-RS-Processing-PICTURE-CHR = 'Y'
  2857
  2858
                       UNSTRING F-Expanded-Src-REC
                           DELIMITED BY '. ' OR ' '
  2859
  2860
                           INTO WS-Token-Curr-TXT
  2861
                           DELIMITER IN WS-Delim-TXT
  2862
                           WITH POINTER WS-Src-SUB
  2863
                       IF WS-Delim-TXT = '. '
                           MOVE 'Y' TO WS-RS-Token-Ended-Sentence-CHR
  2864
                           ADD 1 TO WS-Src-SUB
  2865
  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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  2871
                           MOVE 'N' TO WS-RS-Processing-PICTURE-CHR
  2872
                           MOVE SPACE TO WS-Token-Type-CD
  2873
                           EXIT SECTION
                       FND-TF
  2874
  2875
                   END-IF
  2876
                   UNSTRING F-Expanded-Src-REC
                      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
  2882
                      WITH POINTER WS-Src-SUB
  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
  2887
                      SUBTRACT 1 FROM WS-Src-SUB
  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
                      MOVE 'K'
  2893
                                     TO WS-Token-Type-CD
  2894
                      EXIT SECTION
  2895
  2896
                   SEARCH ALL WS-Reserved-Word-TXT
  2897
                      WHEN WS-RW-Word-TXT (WS-RW-IDX) = WS-Token-Search-TXT
                           MOVE WS-RW-Type-CD (WS-RW-IDX) TO WS-Token-Type-CD
  2898
  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
                           EXIT SECTION
  2902
  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
                      IF (WS-RS-Last-Token-Ended-Sent-CHR = 'Y')
  2908
  2909
                       AND (WS-Curr-Division-TXT = 'D')
  2910
                           MOVE 'LEVEL #' TO WS-Token-Curr-TXT
                           MOVE 'K'
  2911
                                          TO WS-Token-Type-CD
  2912
                          EXIT SECTION
  2913
                       ELSE
  2914
                           EXIT SECTION
  2915
                      END-IF
  2916
                   END-IF
  2917
  2918
              311-Control-Record SECTION.
  2919
                   UNSTRING F-ES-2-256-TXT-256
  2920
  2921
                       DELIMITED BY '"'
                       INTO WS-Temp-10-Chars-TXT
  2922
  2923
                            WS-Temp-256-Chars-TXT
  2924
                            WS-Dummy-TXT
```

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  2925
                   INSPECT WS-Temp-10-Chars-TXT REPLACING ALL '"' BY SPACE
  2926 GC0712
                   IF WS-Temp-10-Chars-TXT(1:4) = 'line'
                      MOVE SPACES TO WS-Temp-10-Chars-TXT(1:4)
  2927 GC0712
                   END-IF
  2928 GC0712
                   COMPUTE WS-I-SUB = NUMVAL(WS-Temp-10-Chars-TXT) - 1
  2929
                   IF UPPER-CASE(TRIM(WS-Temp-256-Chars-TXT,Trailing)) =
  2930 GC1010
  2931 GC1010
                      TRIM(WS-Main-Module-Name-TXT)
                       MOVE WS-I-SUB TO WS-Curr-Line-NUM
  2932
  2933
                       SET WS-RS-In-Main-Module-BOOL TO TRUE
                       IF WS-Saved-Section-TXT NOT = SPACES
  2934
  2935
                           MOVE WS-Saved-Section-TXT TO WS-Curr-Section-TXT
                       END-IF
  2936
  2937
                   ELSE
  2938
                       SET WS-RS-In-Copybook-BOOL TO TRUE
  2939
                       IF WS-Saved-Section-TXT = SPACES
                          MOVE WS-Curr-Section-TXT TO WS-Saved-Section-TXT
  2940
  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
                       END-PERFORM
  2949
                       UNSTRING WS-Temp-256-Chars-TXT((WS-I-SUB + 1):WS-J-SUB)
  2950
                           DELIMITED BY '.'
  2951
  2952
                           INTO WS-Filename-TXT
  2953
                                WS-Dummy-TXT
                       MOVE '['
                                     TO WS-CS-1-CHR
  2954
                       MOVE WS-Filename-TXT TO WS-CS-2-14-TXT
  2955
                       IF WS-CS-11-14-TXT NOT = SPACES
  2956
  2957
                           MOVE '...' TO WS-CS-11-14-TXT
  2958
                       FND-TF
  2959
                       MOVE '1'
                                     TO WS-CS-15-CHR
  2960
                   MOVE SPACES TO F-Expanded-Src-REC *> Force another READ
  2961
                               TO WS-Src-SUB
  2962
                   MOVE 256
  2963
  2964
  2965
               312-Expanded-Src-Record SECTION.
  2966 GC0314
                   IF F-Expanded-Src-REC(1:1) = SPACE
                      MOVE 2 TO WS-Src-SUB
  2967
        GC0314
  2968
       GC0314
                   ELSE
                     MOVE 1 TO WS-Src-SUB
  2969
       GC0314
                   END-IF
  2970
       GC0314
  2971
                   IF WS-RS-In-Main-Module-BOOL
  2972
                       ADD 1 To WS-Curr-Line-NUM
                   END-IF
  2973
  2974
  2975
               313-Check-For-Numeric-Token SECTION.
  2976
  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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                                                                                             Page
                                                                                                    81
  2979 GC0711
                     CONVERTING '0123456789' TO SPACES
  2980 GC0711
                 IF WS-Temp-32-Chars-1-TXT = SPACES
                                                                         *> Simple Unsigned Integer
                  SET WS-TT-Token-Is-Lit-Number-BOOL TO TRUE
  2981
  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
                          WS-Temp-32-Chars-3-TXT
 ws-Dummy-TXT
2992 GC0711 IF WS-Dummy-TXT NOT = SPACES
2993 GC0711 EXIT SECTION
  2991 GC0711
                          WS-Dummy-TXT
                                                                 *> More than one 'E' - Not Numeric
  2994 GC0711
                END-IF
                 IF WS-Temp-32-Chars-2-TXT(1:1) = '+' OR '-'
  2995 GC0711
  2996 GC0711
                    MOVE SPACE TO WS-Temp-32-Chars-2-TXT(1:1)
  2997 GC0711 END-IF
  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
                      TALLYING WS-Tally-QTY FOR ALL '.'
  3003
                  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
                     INSPECT WS-Temp-32-Chars-3-TXT REPLACING ALL '.' BY SPACE
  3010 GC0711
  3011 GC0711 END-IF
                  IF WS-Temp-32-Chars-2-TXT = SPACES AND WS-Temp-32-Chars-3-TXT = SPACES
  3012 GC0711
  3013
                      SET WS-TT-Token-Is-Lit-Number-BOOL TO TRUE
                      EXIT SECTION
  3014
                  END-IF
 3015
  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-TF
                  IF WS-Token-Prev-TXT = 'PROGRAM-ID' OR 'FUNCTION-ID'
  3028 GC0712
  3029
                      MOVE SPACES TO WS-Token-Prev-TXT
                     MOVE WS-Token-Curr-TXT TO WS-Curr-Prog-ID-TXT
  3030
                     IF WS-CPI-16-CHR NOT = SPACES
  3031 GC0712
                          MOVE '...' TO WS-CPI-13-15-TXT
  3032
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  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
                  IF WS-TT-Token-Is-Keyword-BOOL
  3043
                  AND WS-Token-Curr-TXT = 'DIVISION'
                     MOVE WS-Token-Prev-TXT TO WS-Curr-Division-TXT
  3044
  3045
                      EXIT SECTION
  3046
                  END-IF
                  IF WS-TT-Token-Is-Keyword-BOOL
  3047
                  AND WS-Token-Curr-TXT = 'SECTION'
  3048
  3049
                      MOVE WS-Token-Prev-TXT TO WS-Curr-Section-TXT
  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
                  END-IF
  3058
  3059 GC1213
                  IF WS-TT-Token-Is-Function-BOOL
  3060 GC1213
                      PERFORM 361-Release-Ref
  3061 GC1213
                  END-IF
  3062
  3063
             340-DATA-DIVISION SECTION.
  3064
  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
  3068
                  IF WS-TT-Token-Is-Keyword-BOOL
                  AND WS-Token-Curr-TXT = 'DIVISION'
  3069
  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'
                      MOVE WS-Token-Prev-TXT TO WS-Curr-Section-TXT
  3075
  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
                      EXIT SECTION
  3081
                  END-IF
  3082
  3083 GC0710
                  IF WS-TT-Token-Is-Reserved-Wd-BOOL
  3084 GC0710
                  AND WS-Token-Prev-TXT = 'LEVEL #'
  3085 GC0710
                  MOVE SPACES TO WS-Token-Prev-TXT
  3086 GC0710
                    EXIT SECTION
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  3087 GC0710
                  END-IF
  3088
                  IF WS-TT-Token-Is-Identifier-BOOL
  3089
                   EVALUATE WS-Token-Prev-TXT
  3090
                      WHEN 'FD'
  3091
                          PERFORM 360-Release-Def
                          MOVE SPACES TO WS-Token-Prev-TXT
  3092
 3093 GC1213 WHEN 'RD'
3094 GC1213 PERFO
 3094 GC1213
                        PERFORM 360-Release-Def
  3095 GC1213
                          MOVE SPACES TO WS-Token-Prev-TXT
  3096
                      WHEN 'SD'
  3097
                          PERFORM 360-Release-Def
  3098
                          MOVE SPACES TO WS-Token-Prev-TXT
  3099
                      WHEN 'LEVEL #'
  3100
                          PERFORM 360-Release-Def
                          MOVE SPACES TO WS-Token-Prev-TXT
 3101
                      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
                      WHEN OTHER
  3111
                      IF WS-Token-Curr-TXT NOT = 'SUM'
 3112 GC1213
  3113 GC1213
                             PERFORM 361-Release-Ref
  3114 GC1213
                          END-IF
                     END-EVALUATE
  3115
 3116
                      EXIT SECTION
 3117
                  END-IF
 3118
 3119
            350-PROCEDURE-DIVISION SECTION.
 3120
  3121
                IF WS-Curr-Section-TXT NOT = 'PROCEDURE'
  3122
                      MOVE 'PROCEDURE' TO WS-Curr-Section-TXT
                 END-IF
 3123
 3124 GCO710 IF WS-Token-Curr-Uc-TXT = 'PROGRAM'
 3125 GCO710 AND WS-Token-Prev-TXT = 'END'
                  MOVE '?' TO WS-Curr-Division-TXT
  3126 GC0710
 3127 GC0710 EX.
3128 GC0710 END-IF
                     EXIT SECTION
  3129
                  IF WS-TT-Token-Is-Keyword-BOOL
  3130
                  AND WS-Token-Curr-TXT = 'DIVISION'
                  MOVE WS-Token-Prev-TXT TO WS-Curr-Division-TXT
 3131
 3132
                      EXIT SECTION
  3133
                END-IF
 3134 GCO313 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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 3141 GC0313
                 END-TF
                 IF NOT WS-TT-Token-Is-Identifier-BOOL
 3142
 3143
                    EXIT SECTION
              END-IF
 3144
               EVALUATE WS-Curr-Verb-TXT
 3145
                WHEN 'ACCEPT'
 3146
 3147
                  PERFORM 351-ACCEPT
               WHEN 'ADD'
 3148
 3149
                  PERFORM 351-ADD
               WHEN 'ALLOCATE'
 3150
 3151
                   PERFORM 351-ALLOCATE
                WHEN 'CALL'
 3152
 3153
                   PERFORM 351-CALL
               WHEN 'COMPUTE'
 3154
                   PERFORM 351-COMPUTE
 3155
               WHEN 'DIVIDE'
 3156
 3157
                   PERFORM 351-DIVIDE
 3158
               WHEN 'FREE'
 3159
                 PERFORM 351-FREE
 3160 GC1213 WHEN 'GENERATE'
                 PERFORM 351-GENERATE
 3161 GC1213
 3162
                 WHEN 'INITIALIZE'
                 PERFORM 351-INITIALIZE
 3163
 3164 GC1213 WHEN 'INITIATE'
 3165 GC1213
                  PERFORM 351-GENERATE
                 WHEN 'INSPECT'
 3166
 3167
                   PERFORM 351-INSPECT
 3168
               WHEN 'MOVE'
 3169
                   PERFORM 351-MOVE
               WHEN 'MULTIPLY'
 3170
                   PERFORM 351-MULTIPLY
 3171
               WHEN 'PERFORM'
 3172
 3173
                   PERFORM 351-PERFORM
               WHEN 'SET'
 3174
 3175
                  PERFORM 351-SET
               WHEN 'STRING'
 3176
 3177
                 PERFORM 351-STRING
               WHEN 'SUBTRACT'
 3178
 3179
                  PERFORM 351-SUBTRACT
 3180 GC1213 WHEN 'TERMINATE'
 3181 GC1213
                 PERFORM 351-GENERATE
 3182
                 WHEN 'TRANSFORM'
                   PERFORM 351-TRANSFORM
 3183
 3184
                 WHEN 'UNSTRING'
 3185
                  PERFORM 351-UNSTRING
 3186
                 WHEN OTHER
 3187
                   PERFORM 361-Release-Ref
 3188
                 END-EVALUATE
 3189
 3190
 3191
             351-ACCEPT SECTION.
                 EVALUATE WS-Token-Prev-TXT
 3192
                 WHEN 'ACCEPT'
 3193
 3194
                     PERFORM 362-Release-Upd
```

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                                                                                                   85
                     MOVE SPACES TO WS-Token-Prev-TXT
 3195
 3196
                 WHEN OTHER
 3197
                    PERFORM 361-Release-Ref
 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
  3207
                 WHEN OTHER
  3208
                    PERFORM 361-Release-Ref
                 END-EVALUATE
 3209
 3210
 3211
  3212
            351-ALLOCATE SECTION.
             EVALUATE WS-Token-Prev-TXT
 3213
                 WHEN 'ALLOCATE'
  3214
                PERFORM 362-Release-Upd
  3215
         MOVE SPACES :
WHEN 'RETURNING'
PERFORM 362-I
WHEN OTHER
PERFORM 361-I
END-EVALUATE
  3216
                     MOVE SPACES TO WS-Token-Prev-TXT
 3217
                 PERFORM 362-Release-Upd
 3218
  3219
                    PERFORM 361-Release-Ref
  3220
  3221
  3222
  3223
            351-CALL SECTION.
 3224
             EVALUATE WS-Token-Prev-TXT
 3225
 3226
                WHEN 'RETURNING'
         PERFORM 3
WHEN 'GIVING'
 3227
                    PERFORM 362-Release-Upd
 3228
                   PERFORM 362-Release-Upd
 3229
  3230
                 WHEN OTHER
 3231 GC1213
                 PERFORM 365-Release-Arg
                 END-EVALUATE
 3232
 3233
  3234
            351-COMPUTE SECTION.
 3235
  3236
             EVALUATE WS-Token-Prev-TXT
                 WHEN 'COMPUTE'
  3237
  3238
                    PERFORM 362-Release-Upd
 3239
                 WHEN OTHER
 3240
                    PERFORM 361-Release-Ref
  3241
                  END-EVALUATE
 3242
  3243
             351-DIVIDE SECTION.
  3244
  3245
                 EVALUATE WS-Token-Prev-TXT
                 WHEN 'INTO'
 3246
 3247
                     PERFORM 363-Set-Upd
  3248
                     MOVE F-Sort-Work-REC TO WS-Held-Reference-TXT
```

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                  WHEN 'GIVING'
  3249
  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
  3255
                      END-IF
 3256
                     PERFORM 362-Release-Upd
 3257
                WHEN 'REMAINDER'
  3258
                     PERFORM 362-Release-Upd
                  WHEN OTHER
  3259
                    PERFORM 361-Release-Ref
  3260
  3261
                  END-EVALUATE
  3262
  3263
              351-FREE SECTION.
  3264
  3265
                  PERFORM 362-Release-Upd
  3266
  3267
  3268 GC1213 351-GENERATE SECTION.
               PERFORM 362-Release-Upd
  3269 GC1213
  3270 GC1213
 3271
 3272
              351-INITIALIZE SECTION.
  3273
                 EVALUATE WS-Token-Prev-TXT
                  WHEN 'INITIALIZE'
  3274
                    PERFORM 362-Release-Upd
  3275
  3276
                  WHEN 'REPLACING'
  3277
                    PERFORM 361-Release-Ref
 3278
                  END-EVALUATE
 3279
  3280
  3281 GC1213 351-INITIATE SECTION.
  3282 GC1213 PERFORM 362-Release-Upd
  3283 GC1213
  3284
              351-INSPECT SECTION.
 3285
                 EVALUATE WS-Token-Prev-TXT
 3286
                  WHEN 'INSPECT'
  3287
  3288
                     PERFORM 364-Set-Ref
  3289
                      MOVE SPACES TO WS-Held-Reference-TXT
  3290
                     MOVE SPACES TO WS-Token-Prev-TXT
                  WHEN 'TALLYING'
  3291
  3292
                     PERFORM 362-Release-Upd
  3293
                     MOVE SPACES TO WS-Token-Prev-TXT
  3294
                  WHEN 'REPLACING'
  3295
                      IF WS-Held-Reference-TXT NOT = SPACES
  3296
                          MOVE WS-Held-Reference-TXT TO F-Sort-Work-REC
  3297
                          MOVE SPACES TO WS-Held-Reference-TXT
                          MOVE '*'
  3298
                                             TO F-SW-Ref-Flag-CHR
  3299
                          RELEASE F-Sort-Work-REC
                      FND-TF
  3300
  3301
                      MOVE SPACES TO WS-Token-Prev-TXT
  3302
                  WHEN 'CONVERTING'
```

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  3303
                      IF WS-Held-Reference-TXT NOT = SPACES
  3304
                         MOVE WS-Held-Reference-TXT TO F-Sort-Work-REC
  3305
                          MOVE SPACES TO WS-Held-Reference-TXT
  3306
                         MOVE '*'
                                            TO F-SW-Ref-Flag-CHR
  3307
                         RELEASE F-Sort-Work-REC
  3308
                     END-IF
  3309
                     MOVE SPACES TO WS-Token-Prev-TXT
                WHEN OTHER
 3310
 3311
                    PERFORM 361-Release-Ref
 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.
                 EVALUATE WS-Token-Prev-TXT
  3325
  3326
                  WHEN 'BY'
  3327
                     PERFORM 363-Set-Upd
  3328
                     MOVE F-Sort-Work-REC TO WS-Held-Reference-TXT
  3329
                 WHEN 'GIVING'
  3330
                    MOVE WS-Held-Reference-TXT TO F-Sort-Work-REC
  3331
                     MOVE SPACES TO WS-Held-Reference-TXT
  3332
                                          F-SW-Ref-Flag-CHR
  3333
                     RELEASE F-Sort-Work-REC
  3334
                     PERFORM 362-Release-Upd
  3335
                 WHEN OTHER
                    PERFORM 361-Release-Ref
  3336
  3337
                  END-EVALUATE
  3338
 3339
             351-PERFORM SECTION.
 3340
                 EVALUATE WS-Token-Prev-TXT
  3341
  3342
                  WHEN 'VARYING'
  3343
                    PERFORM 362-Release-Upd
  3344
                     MOVE SPACES TO WS-Token-Prev-TXT
                 WHEN 'AFTER'
  3345
  3346
                     PERFORM 362-Release-Upd
  3347
                     MOVE SPACES TO WS-Token-Prev-TXT
  3348
                 WHEN OTHER
  3349
                     PERFORM 361-Release-Ref
  3350
                  END-EVALUATE
  3351
  3352
  3353
              351-SET SECTION.
                EVALUATE WS-Token-Prev-TXT
  3354
  3355
                  WHEN 'SET'
  3356
                     PERFORM 362-Release-Upd
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 3357
                  WHEN OTHER
 3358
                     PERFORM 361-Release-Ref
 3359
                  END-EVALUATE
 3360
 3361
 3362
             351-STRING SECTION.
 3363
              EVALUATE WS-Token-Prev-TXT
                 WHEN 'INTO'
 3364
                    PERFORM 362-Release-Upd
 3365
 3366
                WHEN 'POINTER'
 3367
                    PERFORM 362-Release-Upd
                 WHEN OTHER
 3368
 3369
                    PERFORM 361-Release-Ref
 3370
                 END-EVALUATE
 3371
 3372
            351-SUBTRACT SECTION.
 3373
 3374
               EVALUATE WS-Token-Prev-TXT
                 WHEN 'GIVING'
 3375
                  PERFORM 362-Release-Upd
 3376
 3377
                 WHEN 'FROM'
 3378
                 PERFORM 362-Release-Upd
 3379
                  WHEN OTHER
 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.
 3389
               EVALUATE WS-Token-Prev-TXT
                 WHEN 'TRANSFORM'
 3390
                   PERFORM 362-Release-Upd
 3391
 3392
                     MOVE SPACES TO WS-Token-Prev-TXT
                 WHEN OTHER
 3393
                    PERFORM 361-Release-Ref
 3394
                  END-EVALUATE
 3395
 3396
 3397
 3398
             351-UNSTRING SECTION.
 3399
                 EVALUATE WS-Token-Prev-TXT
 3400
                 WHEN 'INTO'
 3401
                    PERFORM 362-Release-Upd
 3402
                 WHEN 'DELIMITER'
 3403
                    PERFORM 362-Release-Upd
 3404
                 WHEN 'COUNT'
                   PERFORM 362-Release-Upd
 3405
                 WHEN 'POINTER'
 3406
 3407
                   PERFORM 362-Release-Upd
 3408
                 WHEN 'TALLYING'
 3409
                   PERFORM 362-Release-Upd
 3410
                 WHEN OTHER
```

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  3411
                      PERFORM 361-Release-Ref
  3412
                  END-EVALUATE
  3413
  3414
             360-Release-Def SECTION.
  3415
                  MOVE SPACES
  3416
                                              TO F-Sort-Work-REC
                  MOVE WS-Curr-Prog-ID-TXT TO F-SW-Prog-ID-TXT
  3417
                 MOVE WS-Token-Curr-Uc-TXT TO F-SW-Token-Uc-TXT
 3418
 3419
                 MOVE WS-Token-Curr-TXT TO F-SW-Token-TXT
                MOVE WS-Curr-Section-TXT TO F-SW-Section-TXT
  3420
  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
  3427
                  PERFORM 364-Set-Ref
  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
              363-Set-Upd SECTION.
  3436
                 MOVE SPACES
                                              TO F-Sort-Work-REC
  3437
  3438
                  MOVE WS-Curr-Prog-ID-TXT
                                              TO F-SW-Prog-ID-TXT
                  MOVE WS-Token-Curr-Uc-TXT TO F-SW-Token-Uc-TXT MOVE WS-Token-Curr-TXT TO F-SW-Token-TXT
  3439
                  MOVE WS-Token-Curr-TXT
  3440
                 MOVE WS-Curr-Section-TXT TO F-SW-Section-TXT
  3441
                 MOVE WS-Curr-Line-NUM TO F-SW-Ref-Line-NUM MOVE '*' TO F-SW-Ref-Flag-CHR
  3442
  3443
                 MOVE '*'
                                             TO F-SW-Ref-Flag-CHR
  3444
  3445
  3446
             364-Set-Ref SECTION.
                                              TO F-Sort-Work-REC
  3447
               MOVE SPACES
                  MOVE WS-Curr-Prog-ID-TXT TO F-SW-Prog-ID-TXT
  3448
                 MOVE WS-Token-Curr-Uc-TXT TO F-SW-Token-Uc-TXT
  3449
  3450
                MOVE WS-Token-Curr-TXT TO F-SW-Token-TXT
                  MOVE WS-Curr-Section-TXT TO F-SW-Section-TXT
  3451
  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
  3463 GC1213 MOVE WS-Token-Curr-Uc-TXT TO F-SW-Token-Uc-TXT
  3464 GC1213 MOVE WS-Token-Curr-TXT TO F-SW-Token-TXT
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                  MOVE WS-Curr-Section-TXT
  3465 GC1213
                                              TO F-SW-Section-TXT
                  MOVE WS-Curr-Line-NUM
  3466 GC1213
                                              TO F-SW-Ref-Line-NUM
                  MOVE 'C'
  3467 GC1213
                                              TO F-SW-Ref-Flag-CHR
  3468 GC1213
  3469
  3470
  3471
              400-Produce-Xref-Listing SECTION.
                                   TO WS-Xref-Detail-Line-TXT
  3472
                  MOVE SPACES
  3473
                                       WS-Group-Indicators-TXT
                  MOVE O
                                    TO WS-I-SUB
  3474
  3475
                                       WS-Lines-Left-NUM
                  MOVE 'N'
  3476 GC0710
                                    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
  3483 GC1213
                          PERFORM 410-Generate-Report-Line
  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
                      IF F-SW-Prog-ID-TXT NOT = WS-GI-Prog-ID-TXT
  3489
  3490
                      OR F-SW-Token-Uc-TXT NOT = WS-GI-Token-TXT
                          MOVE 'N' TO WS-RS-Duplicate-CHR
  3491 GC0710
  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
                              MOVE SPACES TO WS-Xref-Detail-Line-TXT
  3496 GC1213
  3497 GC1213
                              PERFORM 410-Generate-Report-Line
  3498 GC1213
                                  UNTIL WS-Lines-Left-NUM = 0
  3499
                          END-IF
  3500
                          MOVE F-SW-Prog-ID-TXT TO WS-GI-Prog-ID-TXT
                          MOVE F-SW-Token-Uc-TXT TO WS-GI-Token-TXT
  3501
  3502
                      END-IF
                     IF F-SW-Token-Uc-TXT = WS-GI-Token-TXT
  3503 GC0710
  3504 GC0710
                      AND F-SW-Def-Line-NUM NOT = SPACES
  3505 GC0710
                      AND WS-Xref-Detail-Line-TXT NOT = SPACES
  3506 GC0710
                        MOVE 'Y' TO WS-RS-Duplicate-CHR
  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
                          MOVE ' (Duplicate Definition)' TO WS-XDL-Token-TXT
                          MOVE F-SW-Section-TXT TO WS-XDL-Section-TXT
  3511 GC0710
  3512 GC0710
                          MOVE F-SW-Def-Line-NUM TO WS-XDL-Def-Line-NUM
  3513 GC0710
                          EXIT PERFORM CYCLE
                      END-IF
  3514 GC0710
  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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  3519 GC0710
                           PERFORM 410-Generate-Report-Line
  3520 GC0710
                          MOVE O TO WS-I-SUB
                           MOVE F-SW-Prog-ID-TXT TO WS-XDL-Prog-ID-TXT
  3521 GC0710
  3522 GC0710
                           MOVE ' (Duplicate References)' TO WS-XDL-Token-TXT
  3523 GC0710
                     END-IF
  3524
                       IF WS-Xref-Detail-Line-TXT = SPACES
  3525
                           MOVE F-SW-Prog-ID-TXT TO WS-XDL-Prog-ID-TXT
  3526
                           MOVE F-SW-Token-TXT TO WS-XDL-Token-TXT
 3527
                           MOVE F-SW-Section-TXT TO WS-XDL-Section-TXT
                           IF F-SW-Def-Line-NUM NOT = SPACES
  3528
  3529
                               MOVE F-SW-Def-Line-NUM TO WS-XDL-Def-Line-NUM
  3530
                           FND-TF
  3531
                       END-IF
  3532
                       IF F-SW-Reference-TXT > '000000'
  3533
                           ADD 1 TO WS-I-SUB
                           IF WS-I-SUB > WS-Xref-Lines-Per-Rec-NUM
  3534
  3535
                               PERFORM 410-Generate-Report-Line
  3536
                                MOVE 1 TO WS-I-SUB
  3537
                           END-IF
                           MOVE F-SW-Ref-Line-NUM
  3538
  3539
                             TO WS-XDL-Ref-Line-NUM (WS-I-SUB)
  3540
                            MOVE F-SW-Ref-Flag-CHR
                             TO WS-XDL-Ref-Flag-CHR (WS-I-SUB)
  3541
  3542
                       END-IF
                   END-PERFORM
  3543
                   IF WS-Xref-Detail-Line-TXT NOT = SPACES
  3544
  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
                  ADD 1 TO WS-Page-NUM
MOVE 'Page:' TO WS-PN-Literal-TXT
MOVE WS-Page-NUM
TO WS-PN-Page-NUM
  3552 GC1213
  3553 GC1213
  3554 GC1213
 3555 GC1213
                       CALL 'C$JUSTIFY' USING WS-PN-Page-NUM, 'Left'
                   CALL 'C$JUSTIFY' USING WS-PN-Page-NUM, 'Left'
CALL 'C$JUSTIFY' USING WS-Page-No-TXT, 'Right'
IF L-Listing-CD = 1 *> LANDSCAPE
MOVE WS-Version-TXT
TO F-Lighting-125-PFC
  3556 GC1213
  3557 GC1213
  3558 GC1213
  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
  3565 GC1213
                         MOVE WS-Program-Path-TXT
  3566 GC1213
                            TO F-Listing-135-REC
                          WRITE F-Listing-135-REC BEFORE 1 *> Page Header Line #2
  3567 GC1213
  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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                                                                                           Page
                                                                                                  92
 3573 GC1213
                         WRITE F-Listing-135-REC BEFORE 1 *> Page Header Line #3
 3574 GC1213
                         MOVE ALL '=' TO F-Listing-135-REC
                         MOVE SPACE TO F-Listing-135-REC(16:1)
 3575 GC1213
 3576 GC1213
                                      F-Listing-135-REC(49:1)
                                      F-Listing-135-REC(56:1)
 3577 GC1213
 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
 3591 GC1213
                        MOVE 'PROGRAM-ID
                                              Identifier/Register/Function' &
 3592 GC1213
                                  Defn Where Defined References
                         TO F-Listing-96-REC
 3593 GC1213
 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
                         MOVE SPACE TO F-Listing-96-REC(16:1)
 3598 GC1213
 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
 3603 GC1213
                     END-IF
                     COMPUTE WS-Lines-Left-NUM = WS-Lines-Per-Page-NUM - 4
 3604 GC1213
 3605
                END-IF
 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
                 WRITE F-Listing-96-REC FROM WS-Xref-Detail-Line-TXT
 3610 GC1213
 3611 GC1213
 3612 GC1213
                 END-IF
                 MOVE SPACES TO WS-Xref-Detail-Line-TXT
 3613
 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
                 WRITE F-Listing-135-REC FROM SPACES BEFORE 1 *> Footer Line #1
 3619 GC1213
                    MOVE ALL '='
 3620 GC1213
                      TO F-Listing-135-REC
 3621 GC1213
 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
 3625 GC1213
                    MOVE WS-Page-No-TXT
 3626 GC1213
                     TO F-Listing-135-REC(126:10)
```

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                                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
                          WRITE F-Listing-135-REC BEFORE PAGE *> Footer Line #3
  3630 GC1213
  3631 GC1213
                          WRITE F-Listing-135-REC FROM SPACES BEFORE 1 *> Spaces After FF Character
  3632 GC1213
                      END-IF
  3633 GC1213
                  ELSE
                                       *> PORTRAIT
                 WRITE F-Listing-96-REC FROM SPACES BEFORE 1 *> Footer Line #1 MOVE ALL '='
  3634 GC1213
  3635 GC1213
                 TO F-Listing-96-REC
WRITE F-Listing-96-REC BEFORE 1 *> Footer Line #2
MOVE WS-Copyright-TXT
  3636 GC1213
  3637 GC1213
  3638 GC1213
  3639 GC1213
                        TO F-Listing-96-REC
                    MOVE WS-Page-No-TXT
  3640 GC1213
  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
                      ELSE
  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
                      END-IF
  3648 GC1213
                  END-IF
  3649 GC1213
  3650
              500-Produce-Source-Listing SECTION.
  3651
                  OPEN INPUT F-Original-Src-FILE
  3652
  3653
                             F-Expanded-Src-FILE
  3654
                  MOVE O TO WS-Src-Line-NUM
  3655
                  PERFORM FOREVER
                    READ F-Expanded-Src-FILE AT END
  3656
  3657 GC1213
                         MOVE SPACES TO WS-Src-Detail-Line-TXT
  3658 GC1213
                          PERFORM 530-Generate-Source-Line
  3659 GC1213
                              UNTIL WS-Lines-Left-NUM = 0
  3660
                          EXIT PERFORM
  3661
                      END-READ
  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
  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.
                  UNSTRING F-ES-2-256-TXT-256
  3675
  3676
                      DELIMITED BY '"'
  3677
                      INTO WS-Temp-10-Chars-TXT
                           WS-Temp-256-Chars-TXT
  3678
                           WS-Dummy-TXT
  3679
  3680 GC1010
               IF UPPER-CASE(TRIM(WS-Temp-256-Chars-TXT,Trailing)) =
```

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                                 Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:06
                                                                                               Page
                                                                                                       94
  3681 GC1010
                     TRIM(WS-Main-Module-Name-TXT) *> Main Pgm
  3682
                      SET WS-RS-In-Main-Module-BOOL TO TRUE
  3683
                      IF WS-Src-Line-NUM > 0
  3684
                          READ F-Expanded-Src-FILE END-READ
  3685
                      END-IF
  3686
                  ELSE *> COPY
  3687
                      SET WS-RS-In-Copybook-BOOL TO TRUE
                  END-TF
  3688
  3689
  3690
  3691
              520-Expanded-Src-Record SECTION.
                  {\tt IF\ WS-RS-In-Main-Module-BOOL}
  3692
  3693
                      ADD 1 To WS-Curr-Line-NUM
  3694 GC0712
                      READ F-Original-Src-FILE AT END CONTINUE END-READ
                      ADD 1 TO WS-Src-Line-NUM
  3695
                      MOVE SPACES TO WS-Src-Detail-Line-TXT
  3696
  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
                         WHEN WS-Temp-65-Chars-TXT = "skip1"
  3712 GC0712
  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
                  ELSE
  3727
                      IF F-Expanded-Src-REC NOT = SPACES
  3728
                          MOVE SPACES TO WS-Src-Detail-Line-TXT
                          MOVE F-Expanded-Src-REC
  3729 GC1213
  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
                          INSPECT WS-Temp-65-Chars-TXT
  3733 GC0712
  3734 GC0712
                              REPLACING ALL '.' BY SPACE
```

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Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:06
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                                                                                             Page
                                                                                                    95
                        EVALUATE TRUE
 3735 GC0712
 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
                           WHEN WS-Temp-65-Chars-TXT = "skip2"
 3743 GC0712
  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
  3753
                     END-IF
  3754
                 END-IF
  3755
  3756
         530-Generate-Source-Line SECTION.
  3757
  3758 GC1213 MOVE 1 TO WS-Src-Lines-NUM
  3759 GC1213
                IF L-Listing-CD = 1 *> LANDSCAPE
                 IF WS-SDL-Statement-TXT(129:128) > SPACES
ADD 1 TO WS-Src-Lines-NUM
END-IF
  3760 GC1213
  3761 GC1213
  3762 GC1213
  3763 GC1213
                ELSE
                                     *> PORTRAIT
                 IF WS-SDL-Statement-TXT(90:167) > SPACES
  3764 GC1213
  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
                          END-IF
  3768 GC1213
  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

IF L-Listing-CD = 1 *> LANDSCAPE

IF WS-Src-Lines-NUM = 2
 3772 GC1213
  3773 GC1213
  3774 GC1213
  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
                             WRITE F-Listing-135-REC BEFORE 1 *> Footer Line #2
 3780 GC1213
  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
                                             *> PORTRAIT
  3788 GC1213
                             EVALUATE WS-Src-Lines-NUM
```

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Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:06
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                                                                                                   Page
                                                                                                          96
                               WHEN 1 *> Need no extra blank lines
  3789 GC1213
 3790 GC1213
                                   CONTINUE
  3791 GC1213
                               WHEN 2 *> Need 1 extra blank line
                                   WRITE F-Listing-96-REC FROM SPACES BEFORE 1
  3792 GC1213
  3793 GC1213
                               WHEN 3 *> Need 2 extra blank lines
  3794 GC1213
                                    WRITE F-Listing-96-REC FROM SPACES BEFORE 1
 3795 GC1213
                                    WRITE F-Listing-96-REC FROM SPACES BEFORE 1
 3796 GC1213
                              END-EVALUATE
 3797 GC1213
                               WRITE F-Listing-96-REC FROM SPACES BEFORE 1 *> Footer Line #1
  3798 GC1213
                               MOVE ALL '='
 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
  3802 GC1213
                                 TO F-Listing-96-REC
  3803 GC1213
                               MOVE WS-Page-No-TXT
  3804 GC1213
                                 TO F-Listing-96-REC(87:10)
  3805 GC1213
                                WRITE F-Listing-96-REC BEFORE PAGE *> Footer Line #3
  3806 GC1213
                                WRITE F-Listing-96-REC FROM SPACES BEFORE 1 *> Spaces After FF Character
                    END-IF
  3807 GC1213
                           END-IF
  3808 GC1213
                  ADD 1 TO WS-Page-NUM

MOVE 'Page:' TO WS-PN-Literal-TXT

MOVE WS-Page-NUM TO WS-PN-Page-NUM

CALL 'C$JUSTIFY' USING WS-PN-Page-NUM, 'Left'

CALL 'C$JUSTIFY' USING WS-Page-No-TXT, 'Right'

IF L-Listing-CD = 1 *> LANDSCAPE

MOVE WS-Version-TXT

TO F-Listing-135-REC
  3809 GC1213
  3810 GC1213
  3811 GC1213
  3812 GC1213
  3813 GC1213
  3814 GC1213
  3815 GC1213
  3816 GC1213
                             TO F-Listing-135-REC
  3817 GC1213
                         MOVE 'Source Listing'
 3818 GC1213
                            TO F-Listing-135-REC(25:14)
                          MOVE WS-Formatted-DT
 3819 GC1213
 3820 GC1213
                            TO F-Listing-135-REC(126:10)
  3821 GC1213
                          WRITE F-Listing-135-REC BEFORE 1 *> Page Header Line #1
  3822 GC1213
                         MOVE WS-Program-Path-TXT
  3823 GC1213
                            TO F-Listing-135-REC
  3824 GC1213
                          WRITE F-Listing-135-REC BEFORE 1 *> Page Header Line #2
 3825 GC1213
                          MOVE 'Line Statement'
  3826 GC1213
                           TO F-Listing-135-REC
  3827 GC1213
                         MOVE WS-Page-No-TXT
  3828 GC1213
                            TO F-Listing-135-REC(126:10)
  3829 GC1213
                           WRITE F-Listing-135-REC BEFORE 1 *> Page Header Line #3
  3830 GC1213
                         MOVE WS-Src-Dashes-TXT
  3831 GC1213
                            TO F-Listing-135-REC
  3832 GC1213
                          WRITE F-Listing-135-REC BEFORE 1 *> Page Header Line #4
  3833 GC1213
                     ELSE
                                            *> PORTRAIT
                       MOVE WS-Version-TXT
  3834 GC1213
  3835 GC1213
                            TO F-Listing-96-REC
  3836 GC1213
                           MOVE 'Source Listing'
  3837 GC1213
                            TO F-Listing-96-REC(25:14)
  3838 GC1213
                           MOVE WS-Formatted-DT
  3839 GC1213
                            TO F-Listing-96-REC(87:10)
  3840 GC1213
                          WRITE F-Listing-96-REC BEFORE 1 *> Page Header Line #1
  3841 GC1213
                          MOVE WS-Program-Path-TXT(40:96)
  3842 GC1213
                             TO F-Listing-96-REC
```

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Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:06
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                                                                                              Page
                                                                                                     97
  3843 GC1213
                          WRITE F-Listing-96-REC BEFORE 1 *> Page Header Line #2
                        MOVE 'Line Statement'
  3844 GC1213
                           TO F-Listing-96-REC
  3845 GC1213
  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
  3851 GC1213
                         WRITE F-Listing-96-REC BEFORE 1 *> Page Header Line #4
                 END-IF
COMPUTE WS-Lines-Left-NUM = WS-Lines-Per-Page-NUM - 4
  3852 GC1213
  3853 GC1213
  3854 GC1213 END-IF
  3855 GC1213 IF L-Listing-CD = 1 *> LANDSCAPE
  3856 GC1213
                     EVALUATE WS-Src-Lines-NUM
  3857 GC1213
                     WHEN 1
  3858 GC1213
                         MOVE WS-Src-Detail-Line-TXT TO F-Listing-135-REC
  3859 GC1213
                          WRITE F-Listing-96-REC BEFORE 1
                   SUE
WHEN 2
  3860 GC1213
                          SUBTRACT 1 FROM WS-Lines-Left-NUM
  3861 GC1213
                     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
  3871 GC1213
                 ELSE
                                      *> PORTRAIT
                  EVALUATE WS-Src-Lines-NUM
  3872 GC1213
                    WHEN 1 *> Print only chars 1-89 of stmnt
  3873 GC1213
  3874 GC1213
                          WRITE F-Listing-96-REC FROM WS-Src-Detail-Line-TXT
  3875 GC1213
                  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
  3876 GC1213
  3877 GC1213
  3878 GC1213
  3879 GC1213
                          WRITE F-Listing-96-REC FROM WS-Src-Detail-Line-TXT
  3880 GC1213
                              BEFORE 1
  3881 GC1213
                        MOVE SPACES TO WS-Src-Detail-Line-TXT
  3882 GC1213
                         MOVE WS-Src-Hold-TXT(90:89) TO WS-SDL-Statement-TXT
  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
  3886 GC1213
                    WHEN 3 *> Print chars 1-89, 90-178 and 179-256 of stmnt
  3887 GC1213
                     MOVE WS-SDL-Statement-TXT TO WS-Src-Hold-TXT
  3888 GC1213
                         WRITE F-Listing-96-REC FROM WS-Src-Detail-Line-TXT
  3889 GC1213
                              BEFORE 1
  3890 GC1213
                        MOVE SPACES TO WS-Src-Detail-Line-TXT
  3891 GC1213
                        MOVE WS-Src-Hold-TXT(90:89) TO WS-SDL-Statement-TXT
                         WRITE F-Listing-96-REC FROM WS-Src-Detail-Line-TXT
  3892 GC1213
  3893 GC1213
                       MOVE SPACES TO WS-Src-Detail-Line-TXT
  3894 GC1213
                        MOVE WS-Src-Hold-TXT(179:78) TO WS-SDL-Statement-TXT
  3895 GC1213
  3896 GC1213
                         WRITE F-Listing-96-REC FROM WS-Src-Detail-Line-TXT
```

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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
```

Symbols of Module: GCIC (LISTING)

Data Section (FILE)	Defn	Locatio	ons						
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	003684
F-EXPANDED-SRC-REC	001627F	002710	002764	002788	002790	002820	002824	002833	002837
		002846	002850	002858	002876	002961	002966	003727	003729
F-EXPANDED-SRC2-REC	001630F								
F-LISTING-135-REC	001636F	003559	003561	003563	003564	003566	003567	003570	003572
		003573	003574	003575	003576	003577	003578	003579	003607
		003619	003621	003622	003624	003626	003628	003630	003631
		003775	003777	003779	003780	003782	003784	003785	003786
					003821				
					003858				
F-LISTING-96-REC	001635F								
					003599				
					003639				
					003797				
					003837				
					003850	003851	003859	003874	003879
				003892	003896				
F-LISTING-FILE		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								
F-SORT-WORK-FILE	001623F	001648				000040	000054	000054	
F-SORT-WORK-REC	001649F	002731							
					003328			003416	003423
E OU DEE LINE NUM	0016545				003447				
F-SW-DEF-LINE-NUM	001654F							002405	003500
F-SW-PROG-ID-TXT	001650F	002616 003509			003448	003462	003469	003495	003500
F-SW-REF-FLAG-CHR	001657F				002220	002442	002467	003E40	
F-SW-REF-LINE-NUM	001657F 001656F							003540	
F-SW-REFERENCE-TXT	001656F		003422	003442	003432	003400	003536		
F-SW-SECTION-TXT	001653F		003441	003/151	003465	003511	003527		
F-SW-TOKEN-TXT	001653F				003464		003321		
F-SW-TOKEN-UC-TXT	001652F				003449		003490	003501	003503
I S. IONEN OO INI	2010011	002017	200410	300 1 03	300443	300-00	300-300	300001	300000
L-LISTING-FN-TXT	001619F	002593	002605						
L-SRC-FN-TXT	001613F			002642	002643	002645	002650	002654	002666
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				002676	302010	302000	302001	302000
WS-EXPANDED-SRC-FN-TXT	001617F								

Symbols of Module: GCIC (LISTING)

Data Section (WORKING-STORAGE)	Defn	Locations
	,	
WS-CD-IN-DATA-DIV-BOOL	001674W	
WS-CD-IN-ENV-DIV-BOOL	001673W 001672W	002739
WS-CD-IN-IDENT-DIV-BOOL	001672W	002737
WS-CD-IN-PROC-DIV-BOOL		
	001660W	
WS-CPI-13-15-TXT	001681W	003032
WS-CPI-16-CHR	001682W	003031
WS-CS-1-CHR	001685W	002954
WS-CS-11-14-TXT	001688W	002956 002957
WS-CS-15-CHR	001689W	002959
WS-CS-2-14-TXT	001686W	002955
WS-CURR-CHAR-IS-PUNCT-BOOL	001663W	002799 002807 002812
	001667W	
WS-CURR-CHAR-IS-X-BOOL	001668W	002831
WS-CURR-CHAR-IS-Z-BOOL	001669W	002844
WS-CURR-CHR	001662W	002789 002792 002794 002800 002808 002814 002821
WS-CURR-DIVISION-TXT	001671W	002714 002750 002801 002809 002909 003025 003044 003070
		003126 003131
WS-CURR-LINE-NUM	001677W	002713 002773 002932 002972 003421 003442 003452 003466
	0040000	003693
WS-CURR-PROG-ID-TXT		002703 003030 003417 003438 003448 003462
WS-CURR-SECTION-TXT	001684W	002935 002940 003049 003075 003121 003122 003420 003441 003451 003465
WS-CURR-VERB-TXT	001691W	002704 002728 002752 003136 003145
WS-DELIM-TXT	001693W	
WS-DUMMY-TXT	001695W	
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	
		003250 003251 003252 003289 003295 003296 003297 003303
		003304 003305 003328 003330 003331
WS-I-SUB	001712W	002643 002646 002649 002653 002669 002672 002673 002676
		002929 002932 002943 002946 002947 002950 003474 003508
		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 003706
		003710 003737 003771 003853 003860 003869 003876 003885
		003898
WS-LINES-PER-PAGE-ENV-TXT	001720W	002659 002663 002690 002691
WS-LINES-PER-PAGE-NUM	001718W	002692 002695 002697 002700 003604 003853
WS-MAIN-MODULE-NAME-TXT	001722W	002650 002655 002931 003681
WS-NEXT-CHAR-IS-QUOTE-BOOL	001725W	002831 002844
WS-NEXT-CHR	001724W	002791 002834 002847
WS-OS-TYPE-FILLER-TXT	001727W	001733

Symbols of Module: GCIC (LISTING)

Data Section (WORKING-STORAGE)		
WS-OS-TYPE-TXT	001734W	003633
WS-OS-TYPES-TXT	001734W	
WS-PAGE-NO-TXT		
WE THAT NO THE	00110011	003827 003846
WS-PAGE-NUM	001737W	002629 003552 003554 003772 003809 003811
WS-PN-LITERAL-TXT	001740W	
WS-PN-PAGE-NUM	001741W	
WS-PROGRAM-PATH-TXT	001743W	002667 002668 003565 003588 003822 003841
WS-RESERVED-WORD-TABLE-TXT	002500W	
WS-RESERVED-WORD-TXT	002501W	
WS-RESERVED-WORDS-TXT	001745W 002509W 002512W	002500
WS-RS-DUPLICATE-CHR	002509W	003476 003491 003506 003517 003518
WS-RS-IN-COPYBOOK-BOOL	002512W	002938 003687
WS-RS-IN-MAIN-MODULE-BOOL	002511W	002933 002971 003682 003692
WS-RS-IN-WHICH-PGM-CHR	002510W	
WS-RS-LAST-TOKEN-ENDED-SENT-CHR	002513W	002762 002908
WS-RS-PROCESSING-PICTURE-CHR	002514W	
WS-RS-TOKEN-ENDED-SENTENCE-CHR	002515W	002749 002761 002763 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	
WS-RW-WORD-TXT	002503W	
WS-SAVED-SECTION-TXT	002518W	
WS-SDL-LINE-NUM	002525W	
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	
WS-SRC-LINE-NUM		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
		002813 002819 002823 002824 002826 002832 002836 002837
		002839 002845 002849 002850 002852 002862 002865 002882
		002887 002962 002967 002969
WS-SUPPRESS-FF-CHR	001702W	
WS-TALLY-QTY	002537W	
WS-TEMP-10-CHARS-TXT	002539W	
WS-TEMP-256-CHARS-TXT	002549W	
WS-TEMP-32-CHARS-1-TXT	002541W	
WS-TEMP-32-CHARS-2-TXT	002543W	
WS-TEMP-32-CHARS-3-TXT	002545W	
WS-TEMP-65-CHARS-TXT	002547W	003700 003701 003707 003712 003716 003720 003732 003733

Symbols of Module: GCIC (LISTING)

Data Section (WORKING-STORAGE)			
			-
		003736 003739 003743 003747	
WS-TODAY-DT	002551W	002701 002702	
WS-TOKEN-CURR-TXT	002553W	002721 002725 002794 002803 002814 002822 002835 00284	18
		002860 002867 002880 002890 002892 002910 002977 00302	24
		003030 003043 003048 003069 003074 003078 003112 00313	30
		003419 003440 003450 003464	
WS-TOKEN-CURR-UC-TXT	002555W	002722 002725 002728 002747 003124 003418 003439 00344	1 9
		003463	
WS-TOKEN-PREV-TXT	002557W		
		003049 003053 003070 003075 003084 003085 003089 00309	
		003095 003098 003101 003104 003107 003110 003125 00313	
		003135 003139 003192 003195 003202 003213 003216 00322	
		003236 003245 003273 003286 003290 003293 003301 00330	
		003316 003325 003341 003344 003347 003354 003363 00337	′4
		003389 003392 003399	
WS-TOKEN-SEARCH-TXT			
WS-TOKEN-TYPE-CD	002561W		. 1
WS-TT-TOKEN-IS-ARGTYPE-BOOL	002562W		
WS-TT-TOKEN-IS-EOF-BOOL	002563W		
WS-TT-TOKEN-IS-FUNCTION-BOOL	002564W		
WS-TT-TOKEN-IS-IDENTIFIER-BOOL			
WS-TT-TOKEN-IS-KEYWORD-BOOL	002566W	002723 002746 003023 003042 003047 003068 003073 00307	9
	00050511	003129	
WS-TT-TOKEN-IS-LIT-ALPHA-BOOL		**	
WS-TT-TOKEN-IS-LIT-NUMBER-BOOL			
WS-TT-TOKEN-IS-RESERVED-WD-BOOL			
WS-TT-TOKEN-IS-VERB-BOOL	002569W		
	002572W		
WS-VERSION-TXT WS-XDL-DEF-LINE-NUM	002574W		
WS-XDL-PROG-ID-TXT WS-XDL-REF-FLAG-CHR	002577W 002587W		
WS-XDL-REF-FLAG-CHR WS-XDL-REF-LINE-NUM	002587W		
WS-XDL-REFERENCE-TXT		003539	
		003511 003527	
	002583W		
WS-XREF-DETAIL-LINE-TXT	002579W		1/1
MO MUSE DETAIL LINE-INI	002310W	003607 003610 003613	
WS-XREF-LINES-PER-REC-NUM	002590W		

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Symbols of Module: GCIC (LISTING) -----Defn Locations Data Section (LINKAGE) 002603K 002610 002657 002694 003557 003606 003618 003759 003773 L-LISTING-CD 003814 003855 L-LISTING-FN-TXT 002593K 002605 002599K 002608 002695 L-LPP-NUM L-LPP-NUM L-LPP-PORT-NUM 002601K 002609 002697 L-OS-TYPE-CD 002597K 002607 002633 L-SRC-FN-TXT 002595K 002606 002642 002643 002645 002650 002654 002666 002667 002669 002671 002676 ACS Cobol Xref v2.02.04 Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:07 Page 104 Symbols of Module: GCIC (LISTING) -----Variable Tested [S] Symbol (88-Conditions) 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-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-DATA-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-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-LIT-NUMBER-BOOL

 WS-TOKEN-TYPE-CD
 WS-TT-TOKEN-IS-VERB-BOOL
 WS-CURR-CHR WS-CURR-CHAR-IS-Z-BOOL WS-TT-TOKEN-IS-RESERVED-WD-BOOL

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

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

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

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Defn Locations

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

COMP-VERS 002641P COMP-YEAR 002635P

Symbols of Module: GCIC (LISTING)

Procedure

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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-OS-1-128-TXT
 001641F

 F-OS-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

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Symbols of Module: GCIC (LISTING)

Unreferenced Procedures

COMP-VERS 002641P COMP-YEAR 002635P

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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).
                                                            VALUE 'I', 'i'.
     88 SCB-MODE-Input-BOOL
     88 SCB-MODE-Input-BOOL
88 SCB-MODE-Output-BOOL
                                                            VALUE '0', 'o'.
     88 SCB-MODE-Both-BOOL
                                                            VALUE 'B', 'b'.
                                                          PIC X(2).
 05 SCB-Function-CD
                                                           VALUE 'C ', 'c '.
     88 SCB-Func-CLOSE-BOOL
     88 SCB-Func-CLUSE-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 'R', 'r'.
88 SCB-Func-READ-Delim-BOOL VALUE 'RD', 'rd',
     'rD', 'Rd'.

88 SCB-Func-WRITE-BOOL

88 SCB-Func-WRITE-Delim-BOOL

VALUE 'WD', 'wd',
'wD', 'Wd'.
05 SCB-Delimiter-Mode-CD PIC X(1).

88 SCB-DELIM-Unix-BOOL VALUE 'U', 'u'.

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

05 SCB-Offset-NUM PIC X(8) COMP-X

05 SCB-Error-Routine-PTR USAGE PROCEDAMED OF SCB-Error-Routine-PTR
                                                                      'wD', 'Wd'.
                                                           PIC X(8) COMP-X.
                                                           USAGE PROGRAM-POINTER.
 05 SCB-Error-Routine-NUM REDEFINES SCB-Error-Routine-PTR
                                                          USAGE BINARY-LONG.
                                                            USAGE BINARY-LONG.
 05 SCB-Return-CD
 05 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

C:/Users/tda010/Documents/Programs/Samples/STREAMIO.cbl _____ >>SOURCE FORMAT IS FIXED IDENTIFICATION DIVISION. PROGRAM-ID. STREAMIO. 4 *>************************* *> 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 *> CALLed is as follows: 10 *> CALL "STREAMIO" USING control-block [, arg2] 11 *> ** 12 *> ** *> where 'control-block' is defined by the "STREAMIOcb.cpy" *> copybook and 'arg2' will vary, depending upon the function 14 ** *> specified in the control block. ** 15 16 17 *> The STREAMIO routine has an advantage over the various 18 *> "CBL_xxxxxx_FILE" routines in that: ** 19 ** *> *> 1. It automates the establishment and on-going adjustment of ** 21 the file-offset value in such a way as to simplify the 22 *> sequential processing of a bytestream file (you may still ** 23 *> specify a file-offset manually on each read or write, if ** you wish) 25 *> ** 26 *> 2. It auto-detects the size of the I/O buffer you supply to ** 27 *> STREAMIO, using that as the byte-count of all read and 28 *> write operations. 29 *> ** *> 3. Not only does it support the raw input and output of data ** 30 *> that the CBL_READ_FILE and CBL_WRITE_FILE routines do, 32 *> but on input it is also capable of delivering just a *> 33 single newline-delimited or carriage-return/newline de-34 *> limited record to the caller. ** 35 *> 4. On output, STREAMIO can optionally append either a new-36 37 *> line or carriage-return/newline sequence (your choice) to ** *> the end of every record it writes. 39 *> 5. STREAMIO can automatically generate filenames for output ** 40 41 *> files if you wish, simplifying the process of creating ** 42 *> scratch or work files. 43 *> ** 44 *> 6. The STREAMIO routine also allows you to (optionally) re-45 gister a general error-handling routine to be given control should a fatal error be detected with STREAMIO. 47 *> This routine can be "turned on" and "turned off" at will. ** 48 *>

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GNU COBOL 2.1 23NOV2013 Source Listing

C:/Users/tda010/Documents/Programs/Samples/STREAMIO.cbl ______ *> The control block format is as follows. This structure must ** *> be defined under an 01-level data item of your creation and ** *> should be INITIALIZEd before any items within it are used. ** 53 *> PIC X(4) COMP-X. *> 05 SCB-Handle-NUM *> 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). 55 56 57 *> 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 'R', 'r'. **

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

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

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

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

*> 88 SCB-Func-WRITE-Delim-BOOL VALUE 'WD', 'wd', **

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

*> 88 SCB-Delim-Unix-BOOL VALUE 'U', 'u'. **

*> 88 SCB-Delim-Windows-BOOL VALUE 'W', 'w'. **

*> 05 SCB-Offset-NUM PIC X(8) COMP-X. **

*> 05 SCB-Error-Routine-PTR USAGE PROGRAM-POINTER. **

*> 05 SCB-Error-Routine-PTR ** *> 05 SCB-Function-CD 59 PIC X(2). 60 61 62 63 64 65 66 67 68 69 70 71 72 *> 05 SCB-Error-Routine-NUM REDEFINES SCB-Error-Routine-PTR ** 74 75 USAGE BINARY-LONG. *> ** USAGE BINARY-LONG. 76 *> 05 SCB-Return-CD *> 05 SCB-Filename-TXT 77 PIC X(256). 78 *> 79 *> Such a structure is defined for your use using the copybook ** *> "STREAMIOcb.cpy" (you may also define your own, provided it ** 81 *> conforms to the above layout). 82 83 *> SCB-Handle-NUM 85 *> 86 *> Serves as a file handle to the file once it has been opened ** *> (via the "SCB-Func-OPEN-BOOL" function). 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 ** 94 *> 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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C:/Users/tda010/Documents/Programs/Samples/STREAMIO.cbl

```
______
           *> SCB-Function-CD
  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 **
           *> level-88 items to "SCB-Function-CD".
  105
  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
                   call STREAMIO for any given file. It opens the file & **
  112
           *>
                  makes it available for use according to the
           *>
  113
  114
           *>
                  "SCB-Mode-CD" specification.
           *>
  115
           *> The filename being opened must be specified in the
  116
                                                                       **
  117
           *>
                  "SCB-Filename-TXT" field.
                                                                       **
  118
           *>
  119
           *>
                 The SCB-Offset-NUM field will be initialized to ZERO.
                                                                       **
  120
           *>
                 If "arg2" is specified in conjunction with this funct-
  121
           *>
  122
                  ion, it will be ignored.
  123
           *>
                                                                       **
           *> SCB-Func-CLOSE-BOOL
  124
                                                                       **
  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
           *> SCB-Func-DELETE-BOOL
  137
           *>
                  This function will delete the file specified in the
                                                                       **
  138
                 control block (see SCB-Filename-TXT).
  139
           *>
                                                                       **
  140
           *>
           *> This function should not be performed against a file
*> that is open.
  141
                                                                       **
  142
                                                                       **
  143
           *>
                                                                       **
                 If "arg2" is specified in conjunction with this funct-
  144
  145
          *>
                  ion, it will be ignored.
                                                                       **
  146
           *>
                                                                       **
  147
           *> SCB-Func-READ-BOOL
```

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		C:/Users/tda010/Documents/Programs/	Samples/STREAMIO.cbl
Line	Statement		Page: 4
148	*>	military and a second s	**
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	*>	(222 222 222)	**
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			**
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			**
168	*> SCB-	-Func-WRITE-BOOL	**
169			**
170	*>	This function invokes a standard CBL_WRITE_FILE against	**
171	*>	the file specified in the control block (see	**
172		SCB-Filename-TXT).	**
173			**
174	*>	The buffer from which data will be written to the file	**
175	*>	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	*>	written to the file-offset position defined by the	**
179	*>	SCB-Offset-NUM value. You may specify "arg2" either	**
180	*>	as an actual alphanumeric data item or as an alpha-	**
181	*>	numeric literal.	**
182			**
183		If the file-offset value (SCB-Offset-NUM) is greater	**
184	*>	than the size of the file, a "no more data" return code	**
185	*>	will be passed back in SCB-Return-CD and the buffer	**
186	*>	will have been set to SPACES.	**
187	*>		**
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	*>		**
193	*> SCB-	-Func-READ-Delim-BOOL	**
194	*>		**
195	*>	SCB-Func-READ-Delim-BOOL bahaves like the SCB-FUNC-	**
196	*>	READ function, with the following behavioral dif-	**

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ne ====	Statement	C:/Users/tda010/Documents/Programs/	Samples/STREAMIO.c Page:
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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______ 246 *> written: *> 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 *> *>-----** 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 ** 263 *> the file is read or written via STREAMIO. 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 *> STREAMIO failures, Create the routine and define an entry-273 *> name for it via the ENTRY statement. Then use the following ** 274 275 *> 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 *> *> 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 ** *> routine triggers. If you wish to be able to recover from ** 289 290 *> fatal STREAMIO errors, you should NOT use the SCB-Error-*> Routine feature but instead you should explicitly test the ** 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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C:/Users/tda010/Documents/Programs/Samples/STREAMIO.cbl

```
_____
          *> copybook.
         *>-----
  297
  298
          *> SCB-Return-CD
  299
  300
          *>
          *> The following are the possible SCB-Return-CD values. The **
  301
          *> ones marked with a ">" will NOT trigger an error-routine, if **
  302
          *> one is currently registered via SCB-Error-Routine-PTR.
  304
          *>
  305
          *> 12 I/O error writing to file
                                                                   **
  306
          *> 11 File does not exist
                                                                   **
  307
               10 File already OPEN or already CLOSEd
          *> > 02 READ-Delim was truncated
  308
                                                                   **
  309
          *> > 01 No more data is available from the current
  310
                SCB-Offset-NUM
  311
         *> > 00 OK - the operation was successful
  312
         *> -1 Invalid SCB-Function-CD
         *>
  313
               -2 Invalid SCB-Mode-CD
  314
               -3 CBL_xxxxx_FILE routine rejected operation
  315
               -4 Invalid delimiter mode specified (Not U/W)
  316
          *>-----
  317
  318
          *> SCB-Filename-TXT
  319
          *>----**
  320
          *>
  321
          *> This is the name of the file you wish to access.
  322
  323
          *> If you are planning on reading the file, the file MUST exist **
          *> at the time the SCB-Func-OPEN-BOOL is executed.
  324
  325
  326
          *> If you are planning on writing to the file, the file need **
          *> exist when the SCB-Func-OPEN-BOOL is issued.
  327
                                                                   **
  328
                                                                   **
          *>
          *> In general, the contents of SCB-Filename-TXT should re-
  329
  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
  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 **
         *> no TEMP variable defined, the "/tmp" folder will be **

*> assumed. The filename will be STREAMIO-nnnnnnnn.dat **

*> where "nnnnnnn" is a random number. **
  341
  342
  343
```

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C:/Users/tda010/Documents/Programs/Samples/STREAMIO.cbl _____ 344 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 *> 350 351 352 353 354 355 356 357 358 359 *>******************** 360 ENVIRONMENT DIVISION. 361 362 CONFIGURATION SECTION. 363 REPOSITORY. 364 FUNCTION ALL INTRINSIC. DATA DIVISION. 365 366 WORKING-STORAGE SECTION. PIC X(1) COMP-X. 367 01 WS-Access-Mode-CD PIC X(4) COMP-X. 368 01 WS-Arg-Length-NUM PIC X(256). 369 01 WS-Buffer-TXT 01 WS-Delim-Buffer-TXT 01 WS-Env-Temp-TXT 370 PIC X(2). 371 PIC X(256). 01 WS-Slash-CHR 372 PIC X(1). 01 WS-Tally-NUM USAGE BINARY-LONG. 373 01 WS-8-Digit-NUM 374 PIC 9(8). 375 01 WS-256-Byte-TXT PIC X(256). LINKAGE SECTION. 376 377 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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```

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
                                                     PIC X ANY LENGTH.
            01 L-Arg2-TXT
  381
            PROCEDURE DIVISION USING L-StreamIO-Control-Block-TXT,
  382
                                    L-Arg2-TXT.
            000-Main SECTION.
  383
                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
                    WHEN L-SCB-Func-READ-BOOL
  394
  395
                        PERFORM 030-Validate-Handle-NonZero
  396
                        PERFORM 400-READ
  397
                    WHEN L-SCB-Func-READ-Delim-BOOL
  398
                       PERFORM 030-Validate-Handle-NonZero
                        PERFORM 500-READ-Delim
  399
  400
                    WHEN L-SCB-Func-WRITE-BOOL
  401
                       PERFORM 030-Validate-Handle-NonZero
  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
                                MOVE X"ODOA" TO WS-Delim-Buffer-TXT
  414
                           WHEN OTHER
  415
  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
_____
                       END-EVALUATE
  418
                       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
  425
                       ADD WS-Arg-Length-NUM TO L-SCB-Offset-NUM
                    WHEN OTHER
  426
  427
                       MOVE -1 TO L-SCB-Return-CD
  428
                       PERFORM 099-ERROR-Return
  429
                END-EVALUATE
  430
                GOBACK
  431
            020-Validate-Handle-Zero SECTION.
  432
                IF L-SCB-Handle-NUM NOT = ZERO
  433
  434
                    MOVE 10 TO L-SCB-Return-CD
  435
                    PERFORM 099-ERROR-Return
  436
                END-IF
  437
  438
            030-Validate-Handle-NonZero SECTION.
                IF L-SCB-Handle-NUM = ZERO
  439
  440
                    MOVE 10 TO L-SCB-Return-CD
                    PERFORM 099-ERROR-Return
  441
                END-IF
  442
  443
  444
            040-Check-WRITE-SCB-Return-CD SECTION.
  445
                IF RETURN-CODE < 0
                   MOVE -3 TO L-SCB-Return-CD
  446
  447
                    PERFORM 099-ERROR-Return
  448
  449
                IF RETURN-CODE = 30
                   MOVE 12 TO L-SCB-Return-CD
  450
  451
                    PERFORM 099-ERROR-Return
  452
                MOVE 00 TO L-SCB-Return-CD
  453
  454
            050-Check-READ-SCB-Return-CD SECTION.
  455
  456
                IF RETURN-CODE < 0
  457
                   MOVE -3 TO L-SCB-Return-CD
  458
                    PERFORM 099-ERROR-Return
                END-IF
  459
  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
            060-Identify-TEMP SECTION.
  466
```

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2014/03/27

C:/Users/tda010/Documents/Programs/Samples/STREAMIO.cbl _____ ACCEPT WS-Env-Temp-TXT FROM ENVIRONMENT "TEMP" 467 EVALUATE TRUE 469 WHEN WS-Env-Temp-TXT (1:1) = "/"470 MOVE "/" TO WS-Slash-CHR WHEN WS-Env-Temp-TXT (2:1) = ":" 471 MOVE "\" TO WS-Slash-CHR 472 WHEN OTHER 473 MOVE "/tmp" TO WS-Env-Temp-TXT 474 MOVE "/" TO WS-Slash-CHR 475 END-EVALUATE 476 477 478 099-ERROR-Return SECTION. 479 IF L-SCB-Error-Routine-NUM NOT = 0 CALL "CBL_EXIT_PROC" USING O, L-SCB-Error-Routine-PTR 480 481 482 END-IF 483 GOBACK 484 100-OPEN SECTION. 485 486 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 EVALUATE TRUE 491 WHEN L-SCB-Filename-TXT = SPACES OR LOW-VALUES 492 493 PERFORM 060-Identify-TEMP 494 MOVE SPACES TO L-SCB-Filename-TXT COMPUTE 495 496 WS-8-Digit-NUM = RANDOM(SECONDS-PAST-MIDNIGHT) * 100000000 497 498 END-COMPUTE 499 STRING 500 TRIM(WS-Env-Temp-TXT, TRAILING) 501 WS-Slash-CHR "STREAMIO-" 502 WS-8-Digit-NUM 503 504 ".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 MOVE L-SCB-Filename-TXT TO WS-256-Byte-TXT 512 513 END-IF 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
  519
                           WS-Slash-CHR
  520
                           "STREAMIO-"
  521
                           WS-8-Digit-NUM
                           TRIM(WS-256-Byte-TXT, TRAILING)
  522
  523
                           DELIMITED BY SIZE
  524
                           INTO L-SCB-Filename-TXT
                END-EVALUATE
  525
                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
                CALL "CBL_OPEN_FILE" USING TRIM(L-SCB-Filename-TXT,TRAILING)
  537
  538
                                         WS-Access-Mode-CD
  539
  540
                                         0
                                         L-SCB-Handle-NUM
  541
  542
                IF RETURN-CODE = 35
  543
                   MOVE 11 TO L-SCB-Return-CD
                   PERFORM 099-ERROR-Return
  544
              END-IF
  545
               IF RETURN-CODE < 0
  546
  547
                   MOVE -2 TO L-SCB-Return-CD
                    PERFORM 099-ERROR-Return
  548
  549
                END-IF
  550
                MOVE 00 TO L-SCB-Return-CD
                MOVE O TO L-SCB-Offset-NUM
  551
  552
          200-CLOSE SECTION.
  553
  554
                CALL "CBL_CLOSE_FILE" USING L-SCB-Handle-NUM
  555
                IF RETURN-CODE < 0
  556
                   MOVE -2 TO L-SCB-Return-CD
                    PERFORM 099-ERROR-Return
  557
  558
                END-IF
                MOVE 00 TO L-SCB-Return-CD
  559
  560
                MOVE 0 TO L-SCB-Handle-NUM
  561
            300-WRITE SECTION.
  562
  563
                CALL "C$PARAMSIZE" USING 2
  564
                MOVE RETURN-CODE TO WS-Arg-Length-NUM
```

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```
GNU COBOL 2.1 23NOV2013 Source Listing
```

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

```
______
                CALL "CBL_WRITE_FILE" USING L-SCB-Handle-NUM
  565
                                           L-SCB-Offset-NUM
  567
                                           WS-Arg-Length-NUM
  568
                                           0
  569
                                           L-Arg2-TXT
  570
                PERFORM 040-Check-WRITE-SCB-Return-CD
                ADD WS-Arg-Length-NUM TO L-SCB-Offset-NUM
  571
  572
           400-READ SECTION.
  573
                CALL "C$PARAMSIZE" USING 2
  574
                MOVE RETURN-CODE TO WS-Arg-Length-NUM
  575
  576
                MOVE SPACES TO L-Arg2-TXT(1:WS-Arg-Length-NUM)
  577
                CALL "CBL_READ_FILE" USING L-SCB-Handle-NUM
                                          {\tt L-SCB-Offset-NUM}
  578
  579
                                          WS-Arg-Length-NUM
  580
  581
                                          L-Arg2-TXT
  582
                PERFORM 050-Check-READ-SCB-Return-CD
  583
                ADD WS-Arg-Length-NUM TO L-SCB-Offset-NUM
  584
  585
            500-READ-Delim SECTION.
  586
                CALL "C$PARAMSIZE" USING 2
  587
                MOVE RETURN-CODE TO WS-Arg-Length-NUM
                MOVE SPACES TO L-Arg2-TXT(1:WS-Arg-Length-NUM)
  588
                CALL "CBL_READ_FILE" USING L-SCB-Handle-NUM
  589
  590
                                          L-SCB-Offset-NUM
  591
                                          WS-Arg-Length-NUM
  592
  593
                                          L-Arg2-TXT
                PERFORM 050-Check-READ-SCB-Return-CD
  594
                MOVE O TO WS-Tally-NUM
  595
  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)
                    IF L-Arg2-TXT(WS-Arg-Length-NUM:1) = X"OD"
  599
  600
                        MOVE SPACE TO L-Arg2-TXT(WS-Arg-Length-NUM:1)
  601
  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
                    PERFORM UNTIL 0 = 1
  605
  606
                        MOVE SPACES TO WS-Buffer-TXT
                        CALL "CBL_READ_FILE" USING L-SCB-Handle-NUM
  607
  608
                                                  L-SCB-Offset-NUM
  609
                                                  WS-Arg-Length-NUM
  610
  611
                                                  WS-Buffer-TXT
                        IF RETURN-CODE < 0
  612
```

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GNU COBOL 2.1 23NOV2013 Source Listing 2014/03/27 C:/Users/tda010/Documents/Programs/Samples/STREAMIO.cbl _____ MOVE -3 TO L-SCB-Return-CD 613 PERFORM 099-ERROR-Return 614 FND-TF 615 616 IF RETURN-CODE = 10 617 GOBACK 618 END-IF MOVE O TO WS-Tally-NUM 619 620 INSPECT WS-Buffer-TXT TALLYING WS-Tally-NUM FOR ALL X"OA" 621 622 IF WS-Tally-NUM = 0ADD 256 TO L-SCB-Offset-NUM 623 624 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 GOBACK 631 END-IF 632 END-PERFORM 633 *> There is (at least) one LF in the buffer 634 MOVE O TO WS-Tally-NUM INSPECT L-Arg2-TXT(1:WS-Arg-Length-NUM) 635 TALLYING WS-Tally-NUM 636 FOR CHARACTERS BEFORE INITIAL X"OA" 637 638 ADD WS-Tally-NUM, 1 TO L-SCB-Offset-NUM 639 IF WS-Tally-NUM > 1 640 IF L-Arg2-TXT(WS-Tally-NUM:1) = X"OD" 641 COMPUTE WS-Arg-Length-NUM = 642 WS-Arg-Length-NUM - WS-Tally-NUM 643 644 + 1 ELSE. 645 646 COMPUTE WS-Arg-Length-NUM = 647 WS-Arg-Length-NUM - WS-Tally-NUM 648 649 ADD 1 TO WS-Tally-NUM 650 END-IF 651 MOVE SPACES 652 TO L-Arg2-TXT(WS-Tally-NUM:WS-Arg-Length-NUM) 653 654 MOVE SPACES 655 TO L-Arg2-TXT(1:WS-Arg-Length-NUM) 656 END-IF

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END-IF

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PROGRAM-ID	Identifier/Register/Function	Defn	O/Documents/Pr Where Defined	l :	References	3	Page: 15
STREAMIO	======================================		PROCEDURE	== :			
STREAMIO	020-Validate-Handle-Zero	432	PROCEDURE		392		
STREAMIO	030-Validate-Handle-NonZero		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		
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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*
	9				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	379	[STREAMIOcb]	386		
STREAMIO	L-SCB-Func-DELETE-BOOL	379	[STREAMIOcb]	389		
STREAMIO	L-SCB-Func-OPEN-BOOL	379	[STREAMIOcb]	391		
STREAMIO	L-SCB-Func-READ-BOOL	379	[STREAMIOcb]	394		
STREAMIO	L-SCB-Func-READ-Delim-BOOL	379	[STREAMIOcb]	397		
STREAMIO	L-SCB-Func-WRITE-BOOL	379	[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
					607C		
STREAMIO	L-SCB-MODE-Both-BOOL	379	[STREAMIOcb]	486	531	
STREAMIO	L-SCB-Mode-CD		[STREAMIOcb]			
STREAMIO	L-SCB-MODE-Input-BOOL		[STREAMIOcb]	486	527	
STREAMIO	L-SCB-MODE-Output-BOOL		[STREAMIOcb]	529		
STREAMIO	L-SCB-Offset-NUM	379	[STREAMIOcb]	420C	425*	551*
					566C	571*	578C
					583*	590C	602*

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PROGRAM-ID	Identifier/Register/Function	Defn		References	3	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		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
	0 0			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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