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This manual documents GnuCOBOL 3.2 - Final, 29 June 2024 at 16:35 GMT. build.

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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
                                          , TO MSG
     WHEN 06 MOVE 'LS Multiple records
                                           , 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
                                          ' TO MSG
     WHEN 35 MOVE 'FILE NOT FOUND
     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
                                        ' TO MSG
     WHEN 91 MOVE 'FILE NOT AVAILABLE
                                         , TO MSG
     WHEN OTHER MOVE 'UNKNOWN ERROR
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 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 24 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 *> ** 30 *> DATE-WRITTEN: October 14, 1971 ** 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 O6MAR202 Source Listing

2022/03/06 COBDUMP.cbl

Line	Statement		Page: 2						
54	*>	Fix for bug #816 by making WS-							
55	*>	UNSIGNED	**						
56	*>**	*>*****************							
57	ENV	ENVIRONMENT DIVISION.							
58	CON	FIGURATION SECTION.							
59	REP	OSITORY.							
60		FUNCTION ALL INTRINSIC.							
61	DAT								
62	WOR	KING-STORAGE SECTION.							
63	01	WS-Addr-PTR	USAGE POINTER.						
64	01	WS-Addr-NUM REDEFINES WS-Addr-PTR							
65			USAGE BINARY-LONG.						
66									
67	01	WS-Addr-SUB	USAGE BINARY-CHAR.						
68									
69	01	WS-Addr-Value-NUM	USAGE BINARY-LONG.						
70									
71	01	WS-Buffer-Byte-CHR.							
72		05 WS-Buffer-Byte-NUM	USAGE BINARY-CHAR						
73		3	UNSIGNED.						
74									
75		WS-Buffer-Length-NUM	USAGE BINARY-LONG.						
76		8							
77		WS-Buffer-SUB	PIC 9(4) COMP-5.						
78		WD Dallol Bob	110 0(1) 0011 0.						
79		WS-Hex-Digit-TXT VALUE '0123456789	ABCDEF'.						
80		05 WS-Hex-Digit-CHR	OCCURS 16 TIMES						
81		00 110 11011 21610 01110	PIC X(1).						
82			110 h(1).						
83		WS-Nibble-SUB	PIC 9(1) COMP-5.						
84		WB NIBBIC BOB	110 0(1) 00111 0.						
85		WS-Nibble-Left-SUB	PIC 9(1) COMP-5.						
86		WB NIBBIC HOLD BOB	110 0(1) 00111 0.						
87		WS-Nibble-Right-SUB	PIC 9(1) COMP-5.						
88		WS NIBBIE RIGHT SOD	710 9(1) COMP 3.						
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							
		v	PIC Z(3)9.						
94		05 FILLER	PIC X(1).						
95		05 WS-OD-Hex-TXT	OCCURS 16 TIMES.						
96		10 WS-OD-Hex-1-CHR	PIC X.						
97		10 WS-OD-Hex-2-CHR	PIC X.						
98		10 FILLER	PIC X.						
99		05 WS-OD-ASCII-Data-TXT.	OGGUDG 46 ETVEG						
100		10 WS-OD-ASCII-CHR	OCCURS 16 TIMES						
101		UG Outroot GUD	PIC X.						
102		WS-Output-SUB	PIC 9(2) COMP-5.						
103		OUDGE FORMAR TO FEE							
104		OURCE FORMAT IS FREE							
105		WS-Output-Header-1-TXT.	77 1 2 1 1 2 1 1						
106		Ub VALUE '<-Addr-> Byte <	Hexadecimal ''> <						

GNUCOBOL 3.1.2 06MAR202 Source Listing

2022/03/06 COBDUMP.cbl

```
Page: 3
______
  107 - Char ---->' PIC X(80).
  109
            01 WS-Output-Header-2-TXT.
            05 VALUE '----- --- --- --- ----
  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
                IF NUMBER-OF-CALL-PARAMETERS = 1
  122
  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
  147
                    MOVE WS-Hex-Digit-CHR (WS-Nibble-Left-SUB)
  148
                     TO WS-OD-Hex-1-CHR (WS-Output-SUB)
  149
                    MOVE WS-Hex-Digit-CHR (WS-Nibble-Right-SUB)
                     TO WS-OD-Hex-2-CHR (WS-Output-SUB)
  150
                    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 O6MAR202 Source Listing

2022/03/06 COBDUMP.cbl

Line	Statement	age: 4
160	= ====================================	
161	CALL "C\$PRINTABLE" USING WS-OD-ASCII-Data-TXT	
162	DISPLAY WS-Output-Detail-TXT UPON SYSERR	
163	B END-IF	
164	EXIT PROGRAM.	
165	5	
166	5 100-Generate-Address SECTION.	
167	7 MOVE 8 TO WS-Addr-SUB	
168	MOVE WS-Addr-NUM TO WS-Addr-Value-NUM	
169	MOVE ALL 'O' TO WS-OD-Addr-TXT	
170	PERFORM WITH TEST BEFORE UNTIL WS-Addr-Value-NUM = 0	
171	DIVIDE WS-Addr-Value-NUM BY 16	
172	GIVING WS-Addr-Value-NUM	
173	REMAINDER WS-Nibble-SUB	
174	4 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	7 SUBTRACT 1 FROM WS-Addr-SUB	
178	B END-PERFORM	
179		

GNU COBOL 2.1 23NOV2013 Cross-Reference Listing

2014/03/27

PROGRAM-ID	C:/Us Identifier/Register/Function		10/Documents/Pro Where Defined	grams/Samp Reference		DUMP.cbl Page: 5
	== ====================================					-
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		WORKING-STORAGE		120*	129
COBDUMP	WS-Buffer-SUB	73	WORKING-STORAGE	128*	129	132
				134		
COBDUMP	WS-Hex-Digit-CHR	76	WORKING-STORAGE	142	144	170
COBDUMP	WS-Hex-Digit-TXT	75	WORKING-STORAGE			
COBDUMP	WS-Nibble-Left-SUB	81	WORKING-STORAGE	138*	140*	142
COBDUMP	WS-Nibble-Right-SUB	83	WORKING-STORAGE	139*	141*	144
COBDUMP	WS-Nibble-SUB	79	WORKING-STORAGE	168*	169*	170
COBDUMP	WS-OD-Addr-Hex-CHR	87	WORKING-STORAGE	171*		
COBDUMP	WS-OD-Addr-TXT	86	WORKING-STORAGE	164*		
COBDUMP	WS-OD-ASCII-CHR	96	WORKING-STORAGE	135*		
COBDUMP	WS-OD-ASCII-Data-TXT	95	WORKING-STORAGE	147C	156C	
COBDUMP	WS-OD-Hex-1-CHR	92	WORKING-STORAGE	143*		
COBDUMP	WS-OD-Hex-2-CHR	93	WORKING-STORAGE	145*		
COBDUMP	WS-OD-Hex-TXT	91	WORKING-STORAGE			
COBDUMP	WS-OD-Relative-Byte-NUM	89	WORKING-STORAGE	132*		
COBDUMP	WS-Output-Detail-TXT	85	WORKING-STORAGE	122*	148	149*
				157		
COBDUMP	WS-Output-Header-1-TXT	102	WORKING-STORAGE	126		
COBDUMP	WS-Output-Header-2-TXT	105	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.

.CS	Cobol	Xr	ref v2	2.02.02		Di	ictio	nary I	File	for CO	OLOR	LS 07	7/12,	/2019	16:	57:00	:16
	1		>	>>SOURCE	FREE												
		IDE		CATION		ON.											
	3	PRC	GRAM-	-ID. col	ors.												
				ISION.													
	5	WOF	RKING-	-STORAGE	SECTI	ON.											
				SECTION.													
				LORTST-S		KGROU	JND-C	OLOR () FOE	REGROUI	ND-C	OLOR 7	BLAI	IK SCRI	EEN.		
			LINE														
				L VALUE	, I.OMI	TGHT.			HTGE	HT.TGHT	T.O	WI.TGHT			HTG	HT.TGH	т,
			LINE														
	11	10	COT. 1	L VALUE	,												_,
			LINE														•
				L VALUE	,						R	EVERSE	RI	EVERSE	B.	EVERS	E,
			LINE								-		161		10.		ъ.
				. I. L VALUE	, 0123	14567	012	34567	011	234567	01	234567	011	234567	01	23456	7,
			LINE		0120	1001	012	0-1001	012	20-1001	01	204001	012	20-1001	01	20400	
				L VALUE	,0		0		0		0		0		0		,.
			LINE		U		U		U		U		U		U		•
				VALUE	, 1		1		1		1		1		1		, .
			LINE		1		1		1		1		1		1		•
				T I.	, 0		2		2		2		2		2		, .
					. 7		2		2		2		2		2		•
			LINE		, ,	4	2	0	2	3	2	4	2	-	2	c	,
				L VALUE	13	1	3	2	3	3	3	4	3	5	3	6	٠.
			LINE								4		4		4		
				L VALUE	′4		4		4		4		4		4		٠.
			LINE				_		_		_		_		_		
				L VALUE	15		5		5		5		5		5		, .
			LINE				_		_		_		_		_		
				L VALUE	' 6		6		6		6		6		6		٠.
			LINE				_		_		_		_		_		
				L VALUE	,,,		7		7		7		7		7		٠.
			LINE														
				L VALUE	, LOMI	JIGHT			HIGH	HLIGHT	LC	WLIGHT			HIG	HLIGH	Т'.
			LINE														
				L VALUE	, E	BLINK		BLINK		BLINK		BLINK		BLINK		BLIN	К'.
			LINE														
				L VALUE	,						R	EVERSE	RI	EVERSE	R.	EVERS	Ε'.
			LINE														
				L VALUE	' 0123	34567	012	34567	012	234567	01	234567	012	234567	01	23456	7'.
			LINE														
				L VALUE	,0		0		0		0		0		0		٠.
			LINE														
				L VALUE	'1		1		1		1		1		1		٠.
			LINE														
				L VALUE	'2		2		2		2		2		2		٠.
	46	05	LINE	+ 1.													
				L VALUE	'3	7	3	8	3	9	3	10	3	11	3	12	٠.
			LINE														
				L VALUE	'4		4		4		4		4		4		٠.
			LINE														
				L VALUE	'5		5		5		5		5		5		٠.
	52	05	LINE	+ 1.													
	53	10	COL 1	L VALUE	'6		6		6		6		6		6		٠.
	54	05	LINE	+ 1.													

```
ACS Cobol Xref v2.02.02
                                 Dictionary File for COLORS
                                                               07/12/2019 16:57:00:16
                                                                                     ٠.
         10 COL 1 VALUE '7
                                   7
                                                                 7
    56
         *> #1
    57
         05 LINE 05.
    58
         10 COL 2 BACKGROUND-COLOR O FOREGROUND-COLOR O LOWLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 LOWLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 LOWLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 LOWLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 LOWLIGHT VALUE 'X'.
    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
    71
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 LOWLIGHT VALUE 'X'.
    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'.
    80
         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.
    94
         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'.
```

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ACS Cobol Xref v2.02.02
                                 Dictionary File for COLORS
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         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
   139
         05 LINE + 1.
         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'.
```

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ACS Cobol Xref v2.02.02
                                 Dictionary File for COLORS
         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'.
   165
   166
         05 LINE + 1.
   167
         10 COL 12 BACKGROUND-COLOR 4 FOREGROUND-COLOR 0 VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 VALUE 'X'.
   168
   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
   179
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 VALUE 'X'.
   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'.
   187
         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'.
   194
   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 0 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 O HIGHLIGHT VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 HIGHLIGHT VALUE 'X'.
   259
   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
```

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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 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.
   277
         10 COL 32 BACKGROUND-COLOR O FOREGROUND-COLOR O LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   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'.
   305
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   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
   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
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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'.
   327
   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'.
   336
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   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'.
   341
   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 0 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
   362
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 REVERSE-VIDEO VALUE 'X'.
         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'.
   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'.
```

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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 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'.
   430
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   431
         05 LINE + 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'.
   440
         05 I.TNF. + 1.
   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'.
   451
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   452
         10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   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'.
   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
   497
         10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 LOWLIGHT BLINK VALUE 'X'.
   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'.
   509
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 LOWLIGHT BLINK VALUE 'X'.
   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'.
   511
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 LOWLIGHT BLINK VALUE 'X'.
   512
         05 LINE + 1.
   513
         10 COL 02 BACKGROUND-COLOR 2 FOREGROUND-COLOR 0 LOWLIGHT BLINK VALUE 'X'.
   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 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
                                                               07/12/2019 16:57:00:19
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
   553
         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'.
   557
   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.
         10 COL 12 BACKGROUND-COLOR 2 FOREGROUND-COLOR 0 BLINK VALUE 'X'.
   587
   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'.
   593
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 BLINK VALUE 'X'.
         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
   611
         10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 BLINK VALUE 'X'.
   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'.
   648
```

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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 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'.
   656
         10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 HIGHLIGHT BLINK VALUE 'X'.
   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'.
   658
         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'.
   673
         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'.
         10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 HIGHLIGHT BLINK VALUE 'X'.
   694
         05 LINE + 1.
   695
   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
   698
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 HIGHLIGHT BLINK VALUE 'X'.
   699
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 HIGHLIGHT BLINK VALUE 'X'.
   700
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 HIGHLIGHT BLINK VALUE 'X'.
         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'.
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   739
   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'.
   756
```

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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'.
   773
   774
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   775
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   776
         10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   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'.
   782
         10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   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
```

```
ACS Cobol Xref v2.02.02
                                 Dictionary File for COLORS
                                                               07/12/2019 16:57:00:21
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 5 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 BLINK REVERSE-VIDEO VALUE 'X'.
   814
         05 LINE + 1.
   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'.
   864
```

```
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 O 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'.
   885
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   886
         10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   887
         05 LINE + 1.
   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'.
   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'.
   920
        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 Locations

None

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

Symbols of Module: COLORS (COLORS)
----Unreferenced Working Storage Symbols

None

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

Symbols of Module: COLORS (COLORS)

Unreferenced Procedures

None

4 DAY-FROM-DATE

DAY-FROM-DATE is a user-defined function that accepts a single numeric USAGE DISPLAY argument $-\infty$ 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 **
   6
         *> 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:
                                                             **
   20
         *>
   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.
   48
          000-Main SECTION.
              CALL "C$PARAMSIZE" USING 1
```

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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
   79
                    SUBTRACT 1 FROM WS-ID-YYYY-NUM GIVING WS-Y-NUM
                    ADD WS-ID-MM-NUM, 10 GIVING WS-M-NUM
   81
                ELSE.
   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
   94
                    REMAINDER L-Output-Day-NUM
   95
                ADD 1 TO L-Output-Day-NUM
   96
                GOBACK
   97
   98
```

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Page: 2

GNU COBOL 2.1 23NOV2013 Cross-Reference Listing

2014/03/27

PROGRAM-ID	C:/Users/tda Identifier/Register/Function	a010/Doc Defn	uments/Programs/ Where Defined	Samples/DAY- References	-FROM-	DATE.cbl 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'
    g
   10
             >>DEFINE CONSTANT COMP-YEAR AS '2022'
   11
   12
             *> LINEDRAW Set to:
   13
             *> 0 To use spaces (no lines)
                  1 To use the line-drawing characterset (PC codepage 437)
   14
             *>
   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 *> LANDSCAPE (GCXREF_LINES)
45 GC1213 >>DEFINE CONSTANT LPPP AS 60 *> 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
      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
            *>
                                                                   **
            *> This programs execution syntax is as follows:
   85
                                                                   **
   87
            *> GCic cprogram-path-and-filename> [ <switch>... ]
   88
            *>
                                                                   **
   89
            *> Once executed, a display screen will be presented showing
                                                                   **
            *> the compilation options that will be used. The user will
   90
   91
            *> have the opportunity to change options, specify new ones
                                                                   **
   92
            *> and specify any program execution arguments to be used if
            *> 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 v2.02.04
                                 Dictionary File for GCIC
                                                             06/03/2022 23:09:10:96
                                                                                       Page
             *> DATE CHANGE DESCRIPTION
              110
              *> GC0609 Don't display compiler messages file if compilation
   111
   112
             *>
                      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.
             *> GC0709 When 'EXECUTE' is selected, a 'FILE BUSY' error will **
   116
              *> CLC still cause the (old) executable to be launched.
   117
                        Also, the 'EXTRA SWITCHES' field is being ignored.
   118
   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
                        executing users program. Add a SPACE after the
   123
             *>
                        -ftraceall switch when building cobc command.
              *> GC0909 Convert to work on Cygwin/Linux as well as MinGW
   124
   125
              *> GCO310 Virtualized the key codes for S-F1 thru S-F7 as they **
                        differ depending upon whether PDCurses or NCurses is **
   126
   127
             *>
                        being used.
              *> GCO410 Introduced the cross-reference and source listing
   128
                                                                             **
   129
              *>
                        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
                      1) Listing/Xref wouldn't work if '-I' additional
   134
              *>
                           cobc switch specified.
                                                                             **
   135
              *>
                        2) Programs coded with lowercase reserved words did
                                                                             **
   136
              *>
                          not get parsed properly when generating listing
                                                                             **
   137
              *>
                           and/or xref reports.
                                                                             **
                        3) Reliance on a TEMP environment variable caused
   138
              *>
                                                                             **
   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
             *>
                                                                             **
                        reports. A '-save-temps' (without '=dir') specified
   144
              *>
   145
              *>
                        in the EXTRA options field will be ignored. A
                                                                             **
                        '-save-temps=dir' specified in the EXTRA options
   146
              *>
   147
              *>
                        field will negate both the XREF and SOURCE opts,
              *>
   148
                        if specified.
              *> GC0711 Tailored for 29APR2011 version of GNU COBOL 2.0
   149
                                                                             **
   150
              *> GC0712 Replaced all switches with configuration settings;
                                                                             **
   151
              *>
                        Tailored for 11FEB2012 version of GNU COBOL 2.0;
   152
              *>
                        Reformatted screen layout to fit a 24x80 screen
   153
              *>
                        rather than a 25x81 screen and to accommodate shell
                        environments having only F1-F12 (like 'terminal' in
   154
              *>
                        OSX); Fully tested under OSX (required a few altera-
   155
              *>
   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
                                                                             **
                        to facilitate looking for "LINKAGE SECTION" in a
   162
```

```
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
   218 *> version 3 of the License, or (at your option) any later
   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
        78
            COB-COLOR-MAGENTA
                                VALUE 5.
   238
        78 COB-COLOR-YELLOW
                                VALUE 6.
   239
        78 COB-COLOR-WHITE
                                VALUE 7.
   240
   241 *> Values that may be returned in CRT STATUS (or COB-CRT-STATUS)
   242 *> Normal return - Value 0000
        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.
   252
        78 COB-SCR-F8
                                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.
                                VALUE 1020.
   264
        78 COB-SCR-F20
                                VALUE 1021.
   265
        78 COB-SCR-F21
   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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                                                                                Page
                                                                                        6
  271
        78 COB-SCR-F27
                              VALUE 1027.
  272
        78 COB-SCR-F28
                              VALUE 1028.
        78 COB-SCR-F29
                            VALUE 1029.
  273
        78 COB-SCR-F30
                            VALUE 1030.
  274
                             VALUE 1031.
        78 COB-SCR-F31
  275
        78 COB-SCR-F32
  276
                             VALUE 1032.
                             VALUE 1033.
  277
        78 COB-SCR-F33
        78 COB-SCR-F34
                             VALUE 1034.
  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.
        78 COB-SCR-F41
  285
        78 COB-SCR-F42
                             VALUE 1042.
  286
  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
                              VALUE 1046.
  290
  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.
        78 COB-SCR-F52
  296
  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.
  304
       78 COB-SCR-F60
                            VALUE 1060.
        78 COB-SCR-F61
  305
                              VALUE 1061.
  306
        78 COB-SCR-F62
                              VALUE 1062.
        78 COB-SCR-F63
                             VALUE 1063.
  307
       78 COB-SCR-F64
                             VALUE 1064.
  308
       *> 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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   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.
                                 VALUE 2015.
   330
        78 COB-SCR-KEY-END
        *> Input validation - Values 8xxx
   331
        78 COB-SCR-NO-FIELD VALUE 8000.
   332
        78 COB-SCR-TIME-OUT VALUE 8001.
   333
   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).
                                                           PIC X(76).
   341 GC0712
                     10 WS-CS-Arg-H2-TXT
   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 GCO712 05 WS-CS-Config-NUM
                                             VALUE 4
                                                           PIC 9(1).
   355 GC0712 >>ELIF F12 > 7
   356 GC0712 05 WS-CS-Config-NUM
                                             VALUE 4
                                                            PIC 9(1).
   357 GC0712 >>ELSE
   358 GC0712 05 WS-CS-Config-NUM
                                             VALUE F12
                                                           PIC 9(1).
   359 GC0712 >>END-IF
   360 GC0712 05 WS-CS-Extra-TXT VALUE SPACES.
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
10 VALUE F7
   371 GC0712
                                                            PIC 9(1). *> WS-CS-TRACEALL-CHR
   372 GC0712 10 VALUE F7
373 GC0712 05 WS-CS-All-Switches-TXT REDEFINES
                                                            PIC 9(1). *> WS-CS-WARNALL-CHR
   374 GC0712
                                               WS-CS-Switch-Defaults-TXT.
                   10 WS-CS-DEBUG-Unn
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
             01 WS-J-SUB
  413
                                                      USAGE BINARY-LONG.
  414
  415 GC1213 01 WS-Listing-CD VALUE F5
                                                      PIC 9(1).
  416
  417 GCO712 01 WS-Listing-Filename-TXT
                                                      PIC X(256).
  418
  419 GC1213 01 WS-Listing-TXT VALUE SPACES
                                                      PIC X(27).
  420
                                                      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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                                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 GCO712 78 WS-OS-Exe-Ext-CONST
  438 GC0712 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
                                                        PTC 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.
                  05 WS-PFN-CHR
                                                        OCCURS 256 TIMES
   478 GC0712
       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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ACS Cobol Xref v2.02.04
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                                                                                10
  487
                  88 WS-RS-Compile-Failed-BOOL
                                               VALUE 'N'.
                                              PIC X(1).
  488 GC0609 05 WS-RS-Complete-CHR
               05 WS-RS-Complete-CHR PIC X(1).
88 WS-RS-Complete-BOOL VALUE 'Y'.
88 WS-RS-Not-Complete-BOOL VALUE 'N'.
05 WS-RS-Quote-CHR PIC X(1).
  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-
               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
  500 GC0709
                                                VALUE 'Y'.
                  88 WS-RS-Output-File-Avail-BOOL VALUE 'N'.
  501 GC0709
  502 GC0809
             05 WS-RS-Source-Record-Type-CHR
                                               PIC X(1).
               88 WS-RS-Source-Rec-Linkage-BOOL VALUE 'L'.
  503 GC0809
               88 WS-RS-Source-Rec-Ident-BOOL 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-Bad-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
  531
         07 *>+-----+
         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
```

```
Dictionary File for GCIC
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                                                                             11
         17 *>| ______ |
  542
        19 *> Program Execution Arguments, If Any:
        20 *>+-----
  544
  545
        21 *>| ______ |
  546
  547
         23 *>+-----+
  548 VC 24 *> GCic Copyright (C) 2009-2022, Gary L. Cutler, GPL
  549
          *>12345678901234567890123456789012345678901234567890123456789012345678901234567890
  551
           *>
               1 2 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
           *> or Windows 7) function to define the variable. XP Users: use 'My Computer/
  560
  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
                                      VALUE ''.
  573
           78 LD-Horiz-Line
                                      VALUE ' '.
  574
           78 I.D-Vert-Line
  575
            >>ELIF LINEDRAW IS EQUAL TO 1
                                      VALUE X'DA'.
  576
            78 LD-UL-Corner
  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.
                   05 COL 67
  625 GC0712
                                             VALUE LD-Vert-Line.
                              COL 80
                                              VALUE LD-Vert-Line.
  626
  627
                05 LINE 09 COL 01
  628 GC0712
                                              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
                   05 LINE 13 COL 01
  644 GC0712
                                              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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                                                                                             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
                    05
                               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
                    05 LINE 21 COL 01
   668
       GC0712
                                                VALUE LD-Vert-Line.
   669
                               COL 80
                                                VALUE LD-Vert-Line.
   670
   671 GC0712
                    05 LINE 22 COL 01
                                                VALUE LD-Vert-Line.
   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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                                                                                              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
   722 GC0712
                    05 LINE 03 COL 67 VALUE ': Compile
   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.
                     05 LINE 04 COL 13 PIC X(66) FROM WS-Prog-Folder-TXT.
   730 GC0712
   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 12 COL 03 VALUE 'F5'.
   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.
                    05 LINE 09 COL 06 PIC X(1) FROM WS-CS-TRACEALL-CHR.
   752 GC0712
   753 GC0712
                    05 LINE 10 COL 06 PIC X(1) FROM WS-CS-LIBRARY-CHR.
   754 GC0712
                    05 LINE 11 COL 06 PIC X(1) FROM WS-CS-EXECUTE-CHR.
  755 GC0712
                   05 LINE 12 COL 06 PIC X(1) FROM WS-CS-LISTING-CHR.
   756
```

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ACS Cobol Xref v2.02.04
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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
   765
                    FOREGROUND-COLOR COB-COLOR-GREEN HIGHLIGHT.
   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
                    05 LINE 08 COL 39 VALUE '"FUNCTION" Is Optional
   773 GC0712
   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.
   799 GC0712
                       05 LINE 22 COL 03 PIC X(76) USING WS-CS-Arg-H2-TXT.
   800
   801
               PROCEDURE DIVISION.
               *>*******************
   802
   803
               *> Legend to procedure names:
   804
               *>
              *> 00x-xxx All MAIN driver procedures

*> 0xx-xxx All GLOBAL UTILITY procedures

*> 1xx-xxx All INITIALIZATION procedures

*> 2xx-xxx All CORE PROCESSING procedures
   805
   806
   807
   808
               *> 9xx-xxx All TERMINATION procedures
   809
   810
```

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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
                                                                                                                                                                            **
                             *> **
      820
      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.
                            827
                            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 12 MOVE 'KEY INVALID ' TO WS-FSM-Msg-TXT

WHEN 22 MOVE 'KEY INVALID ' TO WS-FSM-Msg-TXT

WHEN 23 MOVE 'KEY NOT 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 'PERMISSION DENIED ' 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 'CLOSED WITH LOCK ' 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 'RECORD OVERFLOW ' TO WS-FSM-Msg-TXT

WHEN 44 MOVE 'RECORD OVERFLOW ' TO WS-FSM-Msg-TXT

WHEN 45 MOVE 'INPUT DENIED ' 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 49 MOVE 'RECORD LOCKED ' TO WS-FSM-Msg-TXT

WHEN 50 MOVE 'END-OF-PAGE ' 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 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 61 MOVE 'FILE SHARING FAILURE ' TO WS-FSM-Msg-TXT

WHEN 61 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
      842
      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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                                                                17
  865
                  TRIM(WS-File-Name-TXT,TRAILING)
  866
  867
            ELSE
  868
               DISPLAY
                  'Error accessing file: "'
  869
                  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
893 GC0609 END-PERFORM
894 PERFORM 900-Terminate
  895
         * -- Control will NOT return
  896
  897
  898
         899
         *> Perform all program-wide initialization operations
  900
         901
         100-Initialization SECTION.
  902
         903
         *> Make sure full screen-handling is in effect
  904
         905
            SET ENVIRONMENT 'COB_SCREEN_EXCEPTIONS' TO 'Y'
            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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                                                                         18
                 REPLACING ALL 'O' BY SPACE
  919
  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
  950
          *> 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
              ELSE
  965
                 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
               IF WS-OS-Cygwin-BOOL AND WS-File-Name-TXT (2:1) = ':'
  978 GC0909
  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-IF
 1000
       1001
           *> Build initial Line 24 Message
 1002
           1003 GC0909
             MOVE ALL LD-Horiz-Line TO WS-Horizontal-Line-TXT.
 1004 GC0410 MOVE CONCATENATE(' GCic for '
 1005 GC0410
                              TRIM(WS-OS-Type-TXT(WS-OS-Type-CD),Trailing)
 1006 VC0811
                              ' Copyright (C) 2009-2022, Gary L. '
 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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1027	GC1213	MOVE	SELCHAR		TO 1	WS-CS-LISTIN	G-CHR		
1028	GC1213	END-EVALU	JATE						
1029		ACCEPT S-	-Switches-SC	R					
1030		IF COB-CE	RT-STATUS >	0					
1031		EVALU	JATE COB-CRT	-STATUS					
1032		V	HEN COB-SCR	-F1					
1033			IF WS-CS	-DEBUG-CHR =	= SPAC	E			
1034	GC0712		MOVE	SELCHAR TO	WS-CS	-DEBUG-CHR			
1035			ELSE						
1036				, , IO MS-0	CS-DEB	UG-CHR			
1037			END-IF						
1038	GC0712	V	HEN COB-SCR						
1039	GC0712			S-TRACEALL-(
1040	GC0712			SELCHAR TO	WS-CS	-TRACEALL-CH	R		
1041	GC0712		ELSE						
	GC0712			, , IO MS-C	CS-TRA	CEALL-CHR			
1043	GC0712	_	END-IF						
1044		V	HEN COB-SCR						
1045	GC0712			-LIBRARY-CHE					
1046	GC0712			SELCHAR TO	WS-CS	-LIBRARY-CHR	į		
1047	220 <u>2</u> 10		ELSE		aa	D. I. D. I. G. I. D.			
1048	GC0712			' ' TO WS-0	CS-LIB	RARY-CHR			
1049			END-IF	T-4					
1050		V	HEN COB-SCR		a.	DAGE			
1051	000710			S-EXECUTE-CH					
1052	GC0712			SELCHAR IU	M2-C2	-EXECUTE-CHR			
1053			ELSE	י י ייים נום (ad EVE	CUTTE CUD			
1054				' ' TO WS-0	29-EVE	CUIE-CHK			
1055 1056	GC0712	T.	END-IF HEN COB-SCR	_05					
1050	GC1213	v		WS-Listing-	-CD				
1058	GC1213			sting-CD > 2					
1059	GC1213			O TO WS-Lis		CD			
1060	GC1213		END-IF	O TO WE LIE	301116	OD			
1061	GC0712	,	HEN COB-SCR	-F6					
1062	GC0712	·		-NOFUNC-CHR	= SPA	CE			
1063	GC0712			SELCHAR TO					
1064	GC0712		ELSE	222011111 10	02				
1065	GC0712		MOVE	, , TO WS-0	CS-NOF	UNC-CHR			
1066	GC0712		END-IF						
1067		V	HEN COB-SCR	-F7					
1068	GC0712		IF WS-CS	-WARNALL-CHE	R = SP	ACE			
1069	GC0712		MOVE	SELCHAR TO	WS-CS	-WARNALL-CHR			
1070	GC0712		ELSE						
1071	GC0712		MOVE	, , TO WS-0	CS-WAR	NALL-CHR			
1072	GC0712		END-IF						
1073	GC0712	V	HEN COB-SCR	-F8					
1074	GC0712		IF WS-CS	-FREE-CHR =	SPACE				
1075	GC0712		MOVE	SELCHAR TO	WS-CS	-FREE-CHR			
1076	GC0712		ELSE						
1077	GC0712		MOVE	' ' TO WS-0	CS-FRE	E-CHR			
1078	GC0712		END-IF						
1079	GC0712	V	HEN COB-SCR	-F9					
1080	GC0712		IF WS-C	S-NOTRUNC-CH	HR = SI	PACE			

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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
                               FND-TF
 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
                        WITH POINTER WS-I-SUB
 1126
 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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                                                                                 Page
                                                                                         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
                 STRING '-fixed '
 1162 GC0712
 1163 GC0712
                        DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
 1164 GC0712
                         WITH POINTER WS-I-SUB
 1165 GC0712 END-IF
 1166
 1167 GCO712 MOVE O TO WS-Tally-QTY
 1168 GC0712 INSPECT WS-CS-Extra-TXT
 1169 GC0712 TALLYING WS-Tally-QTY FOR
1170 GC0712 IF WS-CS-LISTING-CHR > SPACE
1171 GC0712 AND WS-Tally-QTY > 0
                  TALLYING WS-Tally-QTY FOR ALL '-save-temps'
 1172 GC0712
                 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
 1184 GC0709
                            DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
 1185 GC0709
                            WITH POINTER WS-I-SUB
 1186 GC0709
               END-IF
 1187 GC0909 STRING TRIM(WS-Prog-File-Name-TXT,TRAILING)
 1188 GC0909
                 DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
```

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                                                                                         23
 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
PERFORM 900-Terminate
 1234
 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
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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
                   TO WS-Output-Msg-TXT
 1264 GC0410 END-IF
 1265 GC0712 DISPLAY S-Switches-SCR
 1266 GC0712 CALL 'C$SLEEP' USING 2
 1267 GC0712
              PERFORM 250-Autoload-Listing
 1268 GC0410
 1269
 1270
          *> Run the compiled program
 1271
         1272
 1273
 1274 GC0114 MOVE ' Preparing to run program ... press ENTER to close '
 1275 GC0114
              TO WS-Output-Msg-TXT
 1276 GC0114 DISPLAY S-Switches-SCR
 1277 GC0114 CALL 'C$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
 1285
                       INTO WS-Cmd-TXT
 1286
                        WITH POINTER WS-I-SUB
 1287
              END-IF
 1288
          1289
         *> Add any necessary path prefix
 1290
          *>***********************
 1291 GC0712
              SET WS-RS-Double-Quote-Used-BOOL TO FALSE
              IF WS-OS-Cygwin-BOOL AND WS-Prog-Folder-TXT (2:1) = ':'
STRING '/cygdrive''
 1292
 1293 GC0909
                 STRING '/cygdrive/'
 1294 GC0909
 1295 GC0909
                        INTO WS-Cmd-TXT
 1296 GC0909
                        WITH POINTER WS-I-SUB
```

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Dictionary File for GCIC
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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
 1313 GC0909
                    ELSE
 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
                 SET
END-IF
 1318 GC0909
                STRING WS-US-LLI
INTO WS-Cmd-TXT
WITH POINTER WS-
 1319 GC0712
                    STRING WS-OS-Dir-CHR
 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
 1344 GC0712 ELSE
 1345 GC0712 IF WS-OS-Lib-Ext-CONST > ' '
                        STRING WS-OS-Lib-Ext-CONST DELIMITED SPACE
 1346 GC0712
 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
 1356 IF WO-OD AIGS IN NO.

1357 GC0809 STRING ' ' TRIM(WS-CS-Args-TXT, TRAILING)

TMTO US-Cmd-TXT
                        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-So
IF 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
 1393
                          OR WS-RS-Source-Rec-Ident-BOOL
 1394
                    READ F-Source-Code-FILE AT END
 1395
                     CLOSE F-Source-Code-FILE
 1396
                        EXIT SECTION
 1397
                    END-READ
 1398 GC0712
                    CALL 'CHECKSRC'
                    USING BY CONTENT F-Source-Code-REC
 1399 GC0712
 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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                            Dictionary File for GCIC
 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.
 DISPLAY S-Blank-SCR
 1436 GC1112
 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)

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

ACS Cobol Xref v2.02.04 Symbols of Module: GCIC (GCIC)	Diction	hary File for GCIC 06/03/2022 23:09:11:00 Page 30
Data Section (WORKING-STORAGE)		
COB-COLOR-BLACK	000232W	000597 000602 000692 000702 000712 000717 000727 000734 000749 000764 000780 000787 000794
COB-COLOR-BLUE	000233W	000680
COB-COLOR-CYAN	000235W	000693
COB-COLOR-GREEN	000234W	000603 000718 000765 000781
COB-COLOR-MAGENTA	000237W	
COB-COLOR-RED	000236W	000686 000750
COB-COLOR-WHITE	000239W	000598 000681 000687 000703 000713 000728 000735 000788 000795
COB-COLOR-YELLOW	000238W	
COB-SCR-BACK-TAB	000321W	
COB-SCR-BACKSPACE	000328W	
COB-SCR-DELETE	000327W	
COB-SCR-ESC	000318W	001085
COB-SCR-F1	000245W	001032
COB-SCR-F10	000254W	
COB-SCR-F11	000255W	
COB-SCR-F12	000256W	001088
COB-SCR-F13	000257W	
COB-SCR-F14	000258W	
COB-SCR-F15	000259W	
COB-SCR-F16	000260W	
COB-SCR-F17	000261W	
COB-SCR-F18	000262W	
COB-SCR-F19	000263W	
COB-SCR-F2	000246W	001038
COB-SCR-F20	000264W	
COB-SCR-F21	000265W	
COB-SCR-F22	000266W	
COB-SCR-F23	000267W	
COB-SCR-F24	000268W	
COB-SCR-F25	000269W	
COB-SCR-F26	000270W	
COB-SCR-F27	000271W	
COB-SCR-F28	000272W	
COB-SCR-F29	000273W	004044
COB-SCR-F3	000247W	001044
COB-SCR-F30	000274W	
COB-SCR-F31	000275W	
COB-SCR-F32	000276W	
COB-SCR-F33	000277W	
COB-SCR-F34 COB-SCR-F35	000278W 000279W	
COB-SCR-F36	000279W	
COB-SCR-F37	000280W	
COB-SCR-F38	000281W	
COB-SCR-F39	000282W	
COB-SCR-F4	000283W	001050
COB-SCR-F40	000248W	001000

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COB-SCR-PAGE_DOWN

COB-SCR-PAGE_UP

COB-SCR-TIME-OUT

COB-SCR-PRINT

COB-SCR-TAB

Symbols of Module: GCIC (GCIC) -----Data Section (WORKING-STORAGE) Defn Locations 000285W COB-SCR-F41 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 000300W COB-SCR-F57 000301W COB-SCR-F58 000302W COB-SCR-F59 000303W 000250W 001061 COB-SCR-F6 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 000253W 001079 COB-SCR-F9 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 000336W COB-SCR-MAX-FIELD COB-SCR-NO-FIELD 000332W COB-SCR-OK 000243W COB-SCR-PAGE-DOWN 000312W COB-SCR-PAGE-UP 000310W

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000313W

000311W

000319W

000320W

000333W

ACS Cobol Xref v2.02.04 Symbols of Module: GCIC (GCIC)	Diction	nary File for GCIC 06/03/2022 23:09:11:00 Page 32
Data Section (WORKING-STORAGE)		Locations
F1	000364W	
F12	000358W	
F2	000371W	
F3	000367W	
F4	000365W	
F5	000368W	000415
F6	000369W	
F7	000372W	
F8	000366W	
F9	000370W	
WS-CMD-ARGS-TXT	000387W	000925 000927 000928 000931 000936
WS-CMD-END-QUOTE-CHR	000389W	000929 000932
WS-CMD-SUB	000391W	000926 000930 000934 000939
WS-CMD-TXT	000385W	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	000395W	
WS-CS-ALL-SWITCHES-TXT	000373W	
WS-CS-ARG-H1-TXT	000340W	
WS-CS-ARG-H2-TXT	000341W	
WS-CS-ARGS-TXT	000339W	
WS-CS-CONFIG-NUM	000354W	
WS-CS-DEBUG-CHR	000375W	
WS-CS-EXECUTE-CHR	000376W	
WS-CS-EXTRA-H1-TXT	000361W	
WS-CS-EXTRA-H2-TXT	000362W	
WS-CS-EXTRA-TXT	000360W	
WS-CS-FILENAME-TXT WS-CS-FILENAMES-TABLE-TXT	000351W	000790 001112
WS-CS-FILENAMES-TXT	000350W	000350
WS-CS-FILENAMES-IXI WS-CS-FREE-CHR		000759 001074 001075 001077 001157
WS-CS-LIBRARY-CHR	000377W	
WB GB EIDRART CHR	000376W	001404
WS-CS-LISTING-CHR	000379W	
WS-CS-NOFUNC-CHR	000379W	
WS-CS-NOTRUNC-CHR	000380W	
WS-CS-SWITCH-DEFAULTS-TXT	000361W	
WS-CS-TRACEALL-CHR	000382W	
WS-CS-WARNALL-CHR	000383W	
WS-DELETE-FN-TXT	000303W	
WS-FILE-NAME-TXT	000397W	
	000403W	

ACS Cobol Xref v2.02.04 Symbols of Module: GCIC (GCIC)	Diction	ary File	e for G	CIC	06/03/2	022 23	:09:11:0	00 Paį	ge 33		
Data Section (WORKING-STORAGE)	Defn	Locatio	ons								
WS-FSM-MSG-TXT	000407W										
					000840						
					000848			000851	000852		
WS-FSM-STATUS-CD	000405W		000862	000855	000856	000857	000858				
WS-HORIZONTAL-LINE-TXT	000403W			000619	000621	000645	000647	000651	000661		
WO HORTZONIAL LINE IXI	000±03W		000675			000040	000041	000001	000001		
WS-I-SUB	000411W				000960	000962	000966	000970	000985		
		000986	000987	000988	000990	000994	000998	001111	001122		
		001126	001130	001135	001140	001145	001150	001155	001160		
		001164	001177	001185	001189	001279	001286	001296	001299		
				001316	001321	001326	001334	001342	001348		
	000440**		001359								
WS-J-SUB	000413W			001050	001050	001055					
WS-LISTING-CD WS-LISTING-FILENAME-TXT	000415W 000417W				001059 001222		001420	001407			
WS-LISTING-FILENAME-IXI WS-LISTING-TXT	000417W				001222	001250	001420	001427			
WS-OC-COMPILE-DT	000413W		001020								
WS-OS-CYGWIN-BOOL	000455W				001323	001416					
WS-OS-DIR-CHR	000424W				000448		000959	000970	000979		
		001319									
WS-OS-EXE-EXT-CONST	000425W	000431	000437	000443	000449	001339	001340				
WS-OS-LIB-EXT-CONST	000426W				000450		001346				
WS-OS-LIB-TYPE-CONST	000427W		000439	000445	000451	000769					
WS-OS-OSX-BOOL	000457W	001423									
WS-OS-TYPE-CD	000428W		000440	000446	000452	001005	001252				
WS-OS-TYPE-FILLER-TXT	000459W	000465 001005									
WS-OS-TYPE-TXT WS-OS-TYPES-TXT	000466W 000465W	001005									
WS-OS-UNIX-BOOL	000455W	001323									
WS-OS-WINDOWS-BOOL	000454W	001416	001437								
WS-OUTPUT-MSG-TXT	000469W			001008	001095	001109	001199	001214	001215		
		001223	001231	001243	001249	001258	001263	001275	001366		
		001367	001461								
WS-PATH-DELIMITER-CHR	000471W										
WS-PFN-CHR	000478W		000994								
WS-PGM-NM-TXT	000481W			001193	001332	001438	001441				
WS-PROG-EXTENSION-TXT	000473W		000997	000000	000005	000001	000005	001107			
WS-PROG-FILE-NAME-TXT WS-PROG-FOLDER-TXT	000477W 000475W				000985 000972						
WS-FRUG-FULDER-IXI	000475W				000372			001292	001293		
WS-RS-1ST-PROG-COMPLETE-BOOL	000494W		001302	001000	001300	001014					
WS-RS-COMPILE-FAILED-BOOL	000487W		001232								
WS-RS-COMPILE-OK-BOOL	000485W		001213								
WS-RS-COMPILE-OK-CHR	000484W										
WS-RS-COMPILE-OK-WARN-BOOL	000486W	000883									
WS-RS-COMPLETE-BOOL	000489W	088000	001218								
WS-RS-COMPLETE-CHR	000488W										
WS-RS-DOUBLE-QUOTE-USED-BOOL	000492W	001291	001317	001351							

Diction	nary File for GCIC	06/03/2022	23:09:11:00	Page	34			
Defn	n Locations							
000493W 000495W 000496W 000490W 000501W 000500W 000499W 000505W 000505W 000503W 000502W 000498W 000506W 000507W 000508W 000508W 000483W	001386 001400 001016							
000510W	001167 001169 00117	71						
	Defn +	Defn Locations +	Defn Locations +	Defn Locations 	Defn Locations			

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000688S 000861 001008 001095 001109 001199 001214 001215 001223

000730S 000963 000968 000972 000973 000976 001292 001293 001297

000729S 000964 000969 000985 000991 000995 001187

001302 001303 001308 001314

001231 001243 001249 001258 001263 001275 001366 001367

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WS-OS-LIB-TYPE-CONST

WS-PROG-FILE-NAME-TXT

WS-PROG-FOLDER-TXT

WS-OUTPUT-MSG-TXT

Symbols of Module: GCIC (GCIC) -----Data Section (SCREEN) Defn Locations 000597S 000602 000692 000702 000712 000717 000727 000734 000749 COB-COLOR-BLACK 000764 000780 000787 000794 000680S COB-COLOR-BLUE COB-COLOR-CYAN 000693S 000603S 000718 000765 000781 COB-COLOR-GREEN COB-COLOR-RED 000686S 000750 COB-COLOR-WHITE 000598S 000681 000687 000703 000713 000728 000735 000788 000795 LD-HORIZ-LINE 000573S 000582 000591 001003 LD-LL-CORNER 000568S 000577 000586 000614 000644 000660 000674 000572S 000581 000590 000646 LD-LOWER-T 000570S 000579 000588 000616 000648 000662 000676 LD-LR-CORNER LD-UL-CORNER 000567S 000576 000585 000604 000618 000650 000664 LD-UPPER-T 000571S 000580 000589 000620 LD-UR-CORNER 000569S 000578 000587 000606 000622 000652 000666 LD-VERT-LINE 000574S 000583 000592 000608 000609 000611 000612 000624 000625 000626 000628 000629 000630 000632 000633 000634 000636 000637 000638 000640 000641 000642 000654 000655 000657 000658 000668 000669 000671 000672 S-BLANK-SCR 000595S 000885 001436 001465 000597S 001029 001110 001200 001229 001244 001265 001276 001462 S-SWITCHES-SCR WS-CS-ARG-H1-TXT 000798S WS-CS-ARG-H2-TXT 000799S WS-CS-DEBUG-CHR 000751S 001033 001034 001036 001132 WS-CS-EXECUTE-CHR 000754S 000888 001051 001052 001054 WS-CS-EXTRA-H1-TXT 0007968 WS-CS-EXTRA-H2-TXT 000797S 000759S 001074 001075 001077 001157 000759S 001074 001075 001077 001157 000753S 001045 001046 001048 001123 001283 001338 001377 001404 000755S 000884 001021 001024 001027 001170 001172 001174 000757S 001062 001063 001065 001147 000760S 001080 001081 001083 001137 000752S 001039 001040 001042 001142 000758S 001068 001069 001071 001152 WS-CS-FILENAME-TXT WS-CS-FREE-CHR WS-CS-LIBRARY-CHR WS-CS-LISTING-CHR WS-CS-NOFUNC-CHR WS-CS-NOTRUNC-CHR WS-CS-NUTRUNC-CHR
WS-CS-TRACEALL-CHR
WS-CS-WARNALL-CHR
WS-HORIZONTAL-LINE-TXT 000758S 001068 001069 001071 001152 000605S 000615 000619 000621 000645 000647 000651 000661 000665 000675 001003 WS-LISTING-TXT 000771S 001020 001023 001026 000683S 000911 000912 WS-OC-COMPILE-DT

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Symbols of Module: GCIC (GCIC)

Variable Tested [S] Symbol (88-Conditions)

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-COMPLETE-CHR
WS-RS-COMPLETE-CHR
WS-RS-COMPLETE-BOOL
WS-RS-COMPLETE-CHR
WS-RS-OMPLETE-BOOL
WS-RS-IDENT-DIV-CHR
WS-RS-IDENT-DIV-CHR
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-OUTPUT-FILE-BUSY-CHR
WS-RS-OUTPUT-FILE-BUSY-CHR
WS-RS-OUTPUT-FILE-BUSY-CHR
WS-RS-OUTPUT-FILE-BUSY-CHR
WS-RS-SOURCE-RECORD-TYPE-CHR
WS-RS-SOURCE-REC-IDENT-BOOL
WS-RS-SUITCH-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-OSX-BOOL

 WS-OS-TYPE-CD
 WS-OS-UNIX-BOOL

 WS-OS-TYPE-CD
 WS-OS-WINDOWS-BOOL

 WS-RS-IDENT-DIV-CHR
 WS-RS-1ST-PROG-COMPLETE-BOOL

 WS-RS-COMPILE-OK-CHR
 WS-RS-COMPILE-FAILED-BOOL

 WS-RS-COMPILE-OK-CHR
 WS-RS-COMPILE-OK-BOOL

 WS-RS-COMPLETE-CHR
 WS-RS-COMPLETE-BOOL

 WS-RS-QUOTE-CHR
 WS-RS-DOUBLE-QUOTE-USED-BOOL

 WS-RS-IDENT-DIV-CHR
 WS-RS-MORE-TO-1ST-PROG-BOOL

 WS-RS-NO-SWITCH-CHGS-CHR
 WS-RS-NO-SWITCH-CHANGES-BOOL

 WS-RS-COMPLETE-CHR
 WS-RS-NOT-COMPLETE-BOOL
 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-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

ACS Cobol Xref v2.02.04 Symbols of Module: GCIC (GCIC)	Diction	ary File for GCIC 06/03/2022 23:	09:11:00 Page 38
Functions	Defn	Locations	
CONCATENATE	001004I	001193 001215 001221 001438 001441 0 001451 001453	001445 001447 001449
LOWER-CASE	001112I	001297	
TRIM	000865I	000870 000976 001005 001119 001182	001187 001193 001203
		001209 001222 001302 001314 001332	001357 001365 001420
		001422 001427 001429 001438 001441	001445 001447 001449
		001451 001453	

ACS Cobol Xref v2.02.04 Symbols of Module: GCIC (GCIC)	Dicti	onary F	ile for	GCIC	06/03,	/2022	23:09:11	1:00	Page	39
Called Procedures	Туре	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								

ACS Cobol Xref v2.02.04 Symbols of Module: GCIC (GCIC)	Diction	nary File for GCIC	06/03/2022	23:09:11:00	Page 40
Procedure	Defn	Locations			
CAUTION:	000860P				
FOUND	000860P				
G29	000860P				
LPP	001253P				
LPPP	001254P				
MORE	000860P				
ONE	000860P				
SELCHAR	000920P	000921 001024 0010	27 001034 003	1040 001046 00	1052 001063
		001069 001075 0010	81 001404		
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

Dictionary File for GCIC

Dictionary File for GCIC

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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 COB-SCR-PAGE_UP 000311W COB-SCR-PRINT 000319W COB-SCR-TAB 000320W COB-SCR-TIME-OUT 000333W F.4 001364C F1 000364W F12 000358W F2 000371W F3 000367W F4 000365W F6 000369W F7 000372W F8 000366W F9 000370W LISTING 001250C WS-COMPILATION-SWITCHES-TXT 000338W WS-CS-FILENAMES-TABLE-TXT 000350W WS-DELETE-FN-TXT 000397W WS-FILE-STATUS-MESSAGE-TXT 000403W WS-OS-TYPES-TXT 000465W WS-PATH-DELIMITER-CHR 000471W WS-RS-COMPILE-OK-CHR 000484W WS-RS-COMPLETE-CHR 000488W WS-RS-IDENT-DIV-CHR 000493W WS-RS-NO-SWITCH-CHGS-CHR 000496W

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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

```
ACS Cobol Xref v2.02.04
                             Dictionary File for GCIC
                                                     06/03/2022 23:09:11:00 Page
                                                                                     45
 1471
             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*** **
 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
                                   BY REFERENCE L-Argument-2-CHR.
 1516 GC0712
             000-Main SECTION.
 1517
                 {\tt SET\ L-A2-Nothing-Special-BOOL\ TO\ TRUE}
 1518
 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
                             UNTIL WS-I-SUB > 80
  1530
  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
  1565
                               END-IF
  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
```

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

Data Section (WORKING-STORAGE) Defn Locations											
	,										
WS-COMPRESSED-SRC-TXT	001493W	001528 001551 001555 001561									
WS-CS-CHR	001494W	001535 001541 001550 001554 001560									
WS-I-SUB	001502W	001529 001530 001531 001534 001541 001547 001548 001550									
		001551 001554 001555 001560 001561									
WS-J-SUB	001504W	001527 001533 001535 001540 001541									
WS-RS-FOUND-SPACE-CHR	001498W										
WS-RS-NOT-SKIPPING-SPACE-BOOL	001500W	001526 001532 001539									
WS-RS-SKIPPING-SPACE-BOOL	001499W	001536									
WS-RUNTIME-SWITCHES-TXT	001497W										

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

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

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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
WS-RS-NOT-SKIPPING-SPACE-BOOL

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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

```
Dictionary File for GCIC (CHECKSRC) 06/03/2022 23:09:11:00
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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
           *> VCO720 Updated compiler to 3.1 July2020 and the copyright. **
 1609
           *> VC0322 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
```

```
Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:00
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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 GC0410 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 '=', '(', ')',
                                                             '*', '/', '&',
';', ',', '<',</pre>
  1664
  1665
  1666
                                                       VALUE "', '"'.
  1667
                 88 WS-Curr-Char-Is-Quote-BOOL
  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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1683											
1684		01	WS-Curr-Secti	on-TXT.							
1685			05 WS-CS-1-CH			F	PIC X(1).				
1686			05 WS-CS-2-14								
1687			10 FILLER			F	PIC X(10).				
1688			10 WS-CS-1	1-14-TXT		F	PIC X(3).				
1689			05 WS-CS-15-C	HR		F	PIC X(1).				
1690											
1691		01	WS-Curr-Verb-	TXT		F	PIC X(12).				
1692						_					
1693		01	WS-Delim-TXT			F	PIC X(2).				
1694		01	IIC Damma TVT			-	TC V(1)				
1695 1696		01	WS-Dummy-TXT			F	PIC X(1).				
1697		01	WS-Expanded-S	rc-Fn-TXT		F	PIC X(256)				
1698		01	"D Emparada D	10 111 1111		•	10 11(200)	•			
1699		01	WS-Filename-T	XT		F	PIC X(256)				
1700							, , , , ,				
1701	GC1213	01	WS-Flags-TXT.								
1702	GC1213		05 WS-Suppres	s-FF-CHR		F	PIC X(1).				
1703											
	GC1213	01	WS-Formatted-	DT		F	PIC 9999/9	9/99.			
1705											
1706		01	WS-Group-Indi			_	7.7.7.(1.5)				
1707 1708			05 WS-GI-Prog 05 WS-GI-Toke				PIC X(15).				
1708			OS WS-GI-TOKE	11-171		г	PIC X(32).				
1710		01	WS-Held-Refer	ence-TYT		E	PIC X(100)				
1711		01	WD HEIGH REFER	chec ini		•	10 N(100)	•			
1712		01	WS-I-SUB			Ţ	JSAGE BINA	RY-LONG.			
1713											
1714		01	WS-J-SUB			U	JSAGE BINA	RY-LONG.			
1715											
1716		01	WS-Lines-Left	-NUM		Ü	JSAGE BINA	RY-LONG.			
1717											
1718		01	WS-Lines-Per-	Page-NUM		Ü	JSAGE BINA	RY-LONG.			
1719		0.1	IIO I de la Deservicio	D T TV	P	-	TO WOLCE				
1720 1721		01	WS-Lines-Per-	Page-Env-1X	L	F	PIC X(256)				
	GC1010	01	WS-Main-Modul	a-Nama-TYT		Е	PIC X(256)				
1723	401010	O1	wb nain nouui	e name ini		•	10 X(200)	•			
1724		01	WS-Next-CHR			F	PIC X(1).				
1725			88 WS-Next-Ch	ar-Is-Quote-	-BOOL		VALUE '"',	",".			
1726											
1727		01	WS-OS-Type-FI	LLER-TXT.							
1728			05 VALUE 'Win	dows'		F	PIC X(14).				
1729			05 VALUE 'Win	00	,		PIC X(14).				
1730			O5 VALUE 'UNI				PIC X(14).				
1731			05 VALUE 'OSX				PIC X(14).				
1732		04	05 VALUE 'Win		ת זום סם די		PIC X(14).				
1733		U1	WS-OS-Types-T		o ws-Us-T	• -					
1734 1735			05 WS-OS-Type	1 V I	nc		PIC X(14) 5 TIMES .				
1736					UC	oons 5	, rilling .				
1100											

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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			ΡI	C Z(3)9.				
1742			O .									
1743	GC1213	01	WS-Program-Pat	:h-TXT			ΡI	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 ' ANI)				, 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		, bic	X(33).	UNIMPLEMENTED		
1793		05 VALUE	' B-AND ' B-NOT ' B-OR ' B-XOR		, bic	X(33). X(33).	UNIMPLEMENTED		
1794		05 VALUE	' B-OR		, bic	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 WATEE	1 DAGED		, bic	X(33).			
1799		05 VALUE	, BEEL		, bic	X(33).			
1800		05 VALUE	, BEFORE		, bic	X(33).			
1801		05 VALUE	, BELL		, bic	X(33).			
1802		05 VALUE	BASED BEEP BEFORE BELL BINARY BINARY-C-LONG		, bic	X(33).			
1803		05 VALUE	' BINARY-C-LONG		, bic	X(33).			
1804		05 VALUE	' BINARY-CHAR		, bic	X(33).			
1805		05 VALUE	, BINARY-DOUBLE		, bic	X(33).			
1806		05 VALUE	' BINARY-CHAR ' BINARY-DOUBLE ' BINARY-INT		, bic	X(33).			
1807		OE MATIE) DIMADV_I OMC) 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-LONG BINARY-SHORT BIT BLANK BLINK BLOCK BOOLEAN		, bic	X(33).			
1812		05 VALUE	' BLINK		, bic	X(33).			
1813		05 VALUE	, Brock		, bic	X(33).			
1814		05 VALUE	' BOOLEAN		, bic	X(33).	UNIMPLEMENTED		
	GC1213	O5 VALUE	'FBOOLEAN-OF-INTEGER		, PIC	X(33).	UNIMPLEMENTED		
1816		05 VALUE				X(33).			
1817		05 VALUE				X(33).			
	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 1828		05 VALUE 05 VALUE				X(33). X(33).			
1829		05 VALUE				X(33).			
1830		05 VALUE				X(33).			
1831		05 VALUE				X(33).			
1832			'MCALL-CONVENTION			X(33).			
1833		05 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		O5 VALUE				X(33).	UNIMPLEMENTED		
1840			' CHAINING		, bic	X(33).			
	GC1213	O5 VALUE				X(33).			
1842	GC1213		'FCHAR-NATIONAL			X(33).	UNIMPLEMENTED		
1843		05 VALUE	' CHARACTER			X(33).			
1844		05 VALUE	' CHARACTERS		, bic	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	O5 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	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) .			

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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 1909 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 ENTERD	, bic				
1940			05 VALUE	, DELIMITED	, PIC				
1940			05 VALUE	'KDELIMITER	, PIC				
1940			O5 VALUE	, DESCRIPTING	, 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	ADIZDI VA	, DIC				
1940		CC1213	O5 VALUE	'FDISPLAT	, 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									
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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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1955	1953		O5 VALUE	' END-ACCEPT			, bic	X(33).			
1956 O5 VALUE END-CHAIN PIC X(33) UNIMPLEMENTED 1958 O5 VALUE END-CHETE PIC X(33) 1958 O5 VALUE END-DELETE PIC X(33) 1960 O5 VALUE END-DIFICAY PIC X(33) 1961 O5 VALUE END-EVALUATE PIC X(33) 1962 O5 VALUE END-EVALUATE PIC X(33) 1963 O5 VALUE END-EVALUATE PIC X(33) 1963 O5 VALUE END-EVALUATE PIC X(33) 1964 O5 VALUE END-EVALUATE PIC X(33) 1965 O5 VALUE END-PERFORM PIC X(33) 1966 O5 VALUE END-ERFORM PIC X(33) 1967 O5 VALUE END-EREAD PIC X(33) 1967 O5 VALUE END-EREAD PIC X(33) 1969 O5 VALUE END-EREAD PIC X(33) 1969 O5 VALUE END-EREAD PIC X(33) 1971 O5 VALUE END-EREACH PIC X(33) 1971 O5 VALUE END-EREACH PIC X(33) 1971 O5 VALUE END-EREACH PIC X(33) 1973 O5 VALUE END-EREACH PIC X(33) 1974 O5 VALUE END-STRING PIC X(33) 1975 O5 VALUE END-ERING PIC X(33) 1976 O5 VALUE END-HARTTE PIC X(33) 1977 O5 VALUE END-HARTTE PIC X(33) 1978 O5 VALUE END-HARTTE PIC X(33) 1979 O5 VALUE END-HARTTE PIC X(33) 1971 O5 VALUE END-HARTTE PIC X(33) 1972 O5 VALUE END-HARTTE PIC X(33) 1973 O5 VALUE END-HARTTE PIC X(33) 1974 O5 VALUE END-HARTTE PIC X(33) 1975 O5 VALUE END-HARTTE PIC X(33) 1976 O5 VALUE END-HARTTE PIC X(33) 1977 O5 VALUE END-HARTTE PIC X(33) 1980 O5 VALUE ENDHANNINT-NAME PIC X(33) 1980 O5 VALUE END HART PIC X(33) 1981 O5 VALUE END HART PIC X(33) 1982 O5 VALUE END HART PIC X(33) 1984 O5 VALUE END HART PIC X(33) 1986 O5 VALUE END HART PIC X(33) 1987 O5 VALUE END HART PIC X(33) 1989 O5 VALUE END HART PIC X(33) 1989 O5 VALUE END HART PIC X(33) 1990 O5 VALUE END HART PIC X(33) 1991 O5 VALUE ENCEPTION PIC X(33) 1993 O5 VALUE ENCEPTION PIC X(33) 1994 OT VALUE PIC X(33) 1995 OF VALUE PIC X(34	1954		05 VALUE	' END-ADD			, bic	X(33).			
1957	1955		05 VALUE	' END-CALL			, bic	X(33).			
1958	1956						, bic	X(33).	UNIMPLEMENTED		
1959 OS VALUE END-DISPLAY PIC X(33) 1961 OS VALUE END-DIVIDE PIC X(33) 1962 OS VALUE END-DITATE PIC X(33) 1963 OS VALUE END-DITATE PIC X(33) 1964 OS VALUE END-DITATE PIC X(33) 1965 OS VALUE END-DITATE PIC X(33) 1966 OS VALUE END-DEPRORM PIC X(33) 1966 OS VALUE END-DEPRORM PIC X(33) 1966 OS VALUE END-READ PIC X(33) 1968 OS VALUE END-READ PIC X(33) 1968 OS VALUE END-REATE PIC X(33) 1969 OS VALUE END-SEARCH PIC X(33) 1970 OS VALUE END-SEARCH PIC X(33) 1971 OS VALUE END-SEARCH PIC X(33) 1972 OS VALUE END-SEARCH PIC X(33) 1973 OS VALUE END-START PIC X(33) 1974 OS VALUE END-START PIC X(33) 1975 OS VALUE END-START PIC X(33) 1976 OS VALUE END-WITTE PIC X(33) 1977 OS VALUE END-WITTE PIC X(33) 1977 OS VALUE END-WITTE PIC X(33) 1977 OS VALUE END-WITTE PIC X(33) 1979 OS VALUE ENTRY-CONVENTION PIC X(33) 1981 OS VALUE ENTRY-CONVENTION PIC X(33) 1981 OS VALUE ENTRY-CONVENTION PIC X(33) 1984 OS VALUE ENTRY-CONVENTION PIC X(33) 1985 OS VALUE ENTRY-CONVENTION PIC X(33) 1986 OS VALUE ENTRY-CONVENTION PIC X(33) 1989 OS VALUE ENTRY-CONVENTION PIC X(33) 1980 OS VALUE ENTRY-CONVENTION PIC X(33) 1981 OS VALUE ENTRY-CONVENTION PIC X(33) 1983 OS VALUE ENTRY-CONVENTION PIC X(33) 1984 OS VALUE ENTRY-CONVENTION PIC X(33) 1985 OS VALUE ENTRY-CONVENTION PIC X(33) 1996 OS VAL	1957		05 VALUE	' END-COMPUTE			, bic	X(33).			
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1963	1962										
1964 05 VALUE END-OF-PACE PIC X(33). 1966 05 VALUE END-PERFORM PIC X(33). 1967 05 VALUE END-READ PIC X(33). 1968 05 VALUE END-READ PIC X(33). 1969 05 VALUE END-RETURN PIC X(33). 1969 05 VALUE END-RETURN PIC X(33). 1971 05 VALUE END-SEARCH PIC X(33). 1971 05 VALUE END-STRING PIC X(33). 1972 05 VALUE END-STRING PIC X(33). 1973 05 VALUE END-STRING PIC X(33). 1974 05 VALUE END-WRITE PIC X(33). 1975 05 VALUE END-WRITE PIC X(33). 1976 05 VALUE END-WRITE PIC X(33). 1977 05 VALUE END-WRITE PIC X(33). 1978 05 VALUE END-WRITE PIC X(33). 1979 05 VALUE END-WRITE PIC X(33). 1979 05 VALUE ENT-WRITE PIC X(33). 1979 05 VALUE ENTRY-CONVENTION PIC X(33). 1981 05 VALUE ENVIRONMENT PIC X(33). 1981 05 VALUE ENVIRONMENT PIC X(33). 1981 05 VALUE ENVIRONMENT-VALUE PIC X(33). 1981 05 VALUE EOD PIC X(33). 1984 05 VALUE EOD PIC X(33). 1984 05 VALUE EOD PIC X(33). 1985 05 VALUE EOD PIC X(33). 1986 05 VALUE EDO PIC X(33). 1986 05 VALUE ENGRA PIC X(33). 1986 05 VALUE ERROR PIC X(33). 1989 05 VALUE ERROR PIC X(33). 1989 05 VALUE ERROR PIC X(33). 1989 05 VALUE ERROR PIC X(33). 1991 05 VALUE ERROR PIC X(33). 1991 05 VALUE ERROR PIC X(33). 1992 05 VALUE ERROR PIC X(33). 1993 05 VALUE ERROR PIC X(33). 1994 05 VALUE ERROR PIC X(33). 1995 05 VALUE ERROR PIC X(33). 1996 05 VALUE ERROR PIC X(33). 1997 05 VALUE ERROR PIC X(33). 1998 05 VALUE ERROR PIC X(33). 1999 05 VALUE ERROR PIC X(33). 1990 05 VALUE ERROR PIC X(33). 1991 05 VALUE ERROR PIC X(33). 1993 05 VALUE ERROR PIC X(33). 1994 05 VALUE ERROR PIC X(33). 1995 05 VALUE ERROR PIC X(33). 1996 05 VALUE ERROR PIC X(33). 1997 05 VALUE	1963						, bic	X(33).			
1966	1964		05 VALUE	' END-OF-PAGE							
1967	1965		05 VALUE	' END-PERFORM			, bic	X(33).			
1967	1966		05 VALUE	' END-READ			, bic	X(33).			
1969	1967						, bic	X(33).	OBSOLETE		
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1971	1969		05 VALUE	' END-REWRITE			, bic	X(33).			
1971	1970		05 VALUE	' END-SEARCH			, bic	X(33).			
1973	1971		05 VALUE	' END-START			, bic	X(33).			
1974	1972		05 VALUE	' END-STRING			, bic	X(33).			
1975	1973						, bic	X(33).			
1976	1974		05 VALUE	' END-UNSTRING							
1977	1975		05 VALUE	' END-WRITE			, bic	X(33).			
1978	1976		O5 VALUE	'VENTRY			, bic	X(33).			
1979			05 VALUE	' ENTRY-CONVENT	ION				UNIMPLEMENTED		
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2004 05 VALUE 'EXPANDS 'PIC X(33). UNIMPLEMENTED 2005 05 VALUE 'EXTEND 'PIC X(33).	2002	GC1213	O5 VALUE	'FEXP			, bic	X(33).			
2005	2003	GC1213	05 VALUE	'FEXP10			, bic	X(33).			
	2004		05 VALUE	' EXPANDS			, bic	X(33).	UNIMPLEMENTED		
2006 05 VALUE 'EXTERNAL 'PIC X(33).	2005		05 VALUE	' EXTEND			, bic	X(33).			
	2006		05 VALUE	' EXTERNAL			, bic	X(33).			

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2007	GC1213	05 VALUE	'FFACTORIAL		, bic	X(33).			
2008		O5 VALUE	' FACTORY		, bic	X(33).	UNIMPLEMENTED		
2009		O5 VALUE	' FALSE		, bic	X(33).			
2010		O5 VALUE	'KFD		, bic	X(33).			
2011		O5 VALUE	'KFILE		, bic	X(33).			
2012		05 VALUE	' FILE-CONTROL		, bic	X(33).			
2013		05 VALUE	' FILE-ID		, bic	X(33).			
	GC1113	05 VALUE	, FILLER		, bic	X(33).			
2015		05 VALUE	'FINAL		' PIC	X(33).			
2016		05 VALUE	'FFACTORIAL ' FACTORY ' FALSE 'KFD 'KFILE ' FILE-CONTROL ' FILE-ID ' FILLER ' FINAL ' FIRST		, PIC	X(33).			
	GC0712	05 VALUE	' FLOAT-BINARY-128 ' FLOAT-BINARY-32		, bic	X(33).	UNIMPLEMENTED		
	GC0712	O5 VALUE	FLUAT-BINARY-32		, PIC	X(33).	UNIMPLEMENTED		
2019	GC0712		' FLOAT-BINARY-64				UNIMPLEMENTED		
2020 2021		OF VALUE	' FLOAT-DECIMAL-16 ' FLOAT-DECIMAL-34		, PIC	Λ(33).			
2021		OS VALUE	' FLOAT-DECIMAL-34 ' FLOAT-EXTENDED		, DIC	X(33).	UNIMPLEMENTED		
	GC0712	OS VALUE	' FLOAT-INFINITY		, bic	X(33).	UNIMPLEMENTED		
2023	000712	OS VALUE	, FLOAT-LONG) DTC	v(22)			
	GC0712		' FLOAT-NOT-A-NUMBER		, PIC	X(33).	UNIMPLEMENTED		
2026	400112	O5 VALUE	' FLOAT-SHORT		, bic	X(33).			
2027		05 VALUE	' FOOTING		, bic	X(33).			
2028		05 VALUE	' FOOTING ' FOR ' FOREGROUND-COLOR		, bic , bic	X(33).			
2029		O5 VALUE	' FOREGROUND-COLOR		, bic	X(33).			
2030		O5 VALUE	> EUDEGDUIMD GUI UID		י א דרי	V (22)			
2031	GC0711	OS VALUE	' FOREVER		, PIC:	X (33)			
2032		O5 VALUE	' FORMAT 'FFORMATTED-CURRENT-DA 'FFORMATTED-DATE		, bic	X(33).	UNIMPLEMENTED		
	GC1213	O5 VALUE	'FFORMATTED-CURRENT-DA	TE	, bic	X(33).	UNIMPLEMENTED		
	GC1213	05 VALUE	'FFORMATTED-DATE		, bic	X(33).	UNIMPLEMENTED		
	GC1213	05 VALUE	'FFORMATTED-DATETIME		, bic	X(33).	UNIMPLEMENTED		
	GC1213		'FFORMATTED-TIME				UNIMPLEMENTED		
2037	aa	05 VALUE	'MFORMFEED		, bic	X(33).			
	GC1213	05 VALUE	FFRACTION-PART VFREE FROM FULL FUNCTION		, PIC	X(33).			
2039		OF VALUE	YFKEE		, PIC	X(33).			
2040 2041		OS VALUE	, EIII I		, DIC	X(33). X(33).			
2041		OS VALUE	, EINCTION		, DIC	X(33).			
	GC0712	O5 VALUE	'KFUNCTION-ID		, bic				
2044	400.12		, FUNCTION-POINTER		, bic	X(33).	UNIMPLEMENTED		
2045		05 VALUE	'VGENERATE			X(33).			
2046		O5 VALUE	' GET		, bic	X(33).	UNIMPLEMENTED		
2047		O5 VALUE	'KGIVING		, bic	X(33).			
2048		05 VALUE	, GLOBAL		, bic	X(33).			
2049		05 VALUE	'VGO		, bic	X(33).			
2050		O5 VALUE	'VGOBACK			X(33).			
2051			' GREATER		, bic	X(33).			
2052		05 VALUE				X(33).			
2053			' GROUP-USAGE			X(33).	UNIMPLEMENTED		
2054			' HEADING			X(33).			
2055			' HIGH-VALUE			X(33).			
2056	001010		' HIGH-VALUES			X(33).			
2057 2058	GC1213		'FHIGHEST-ALGEBRAIC ' HIGHLIGHT			X(33). X(33).			
2058		05 VALUE				X(33). X(33).			
2069			' I-O-CONTROL			X(33).			
2000		OO VALUE	I O CONTICUL		110	Λ(00).			

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2061		05 VALUE	'KID	, PIC	X(33).			
2062			'KIDENTIFICATION		X(33).			
2063		05 VALUE	'VIF	, bic	X(33).			
2064		05 VALUE	' IGNORE		X(33).			
2065		05 VALUE	' IGNORING ' IMPLEMENTS	, bic	X(33).			
2066		05 VALUE	' IMPLEMENTS	, bic	X(33).	UNIMPLEMENTED		
2067		05 VALUE	' IN	, bic	X(33).			
2068		05 VALUE			X(33).			
2069		05 VALUE	'KINDEXED		X(33).			
2070		05 VALUE	' INDICATE ' INDIRECT		X(33).			
2071		O5 VALUE	' INHERITS			UNIMPLEMENTED		
2072 2073					X(33). X(33).	UNIMPLEMENTED		
2073		OS VALUE	'INITIAL' 'VINITIALISE	, DIC	X(33).			
2074		OS VALUE	' INITIALISED	, DIC	X(33).			
2076		O5 VALUE	'VINITIALIZE	, PIC	X(33).			
2077			' INITIALIZED		X(33).			
2078			'VINITIATE		X(33).			
2079		05 VALUE	' INPUT		X(33).			
2080		05 VALUE	'KINPUT-OUTPUT		X(33).			
2081		05 VALUE	'VINSPECT	, bic	X(33).			
2082		05 VALUE	' INSTALLATION 'FINTEGER	, bic	X(33).	OBSOLETE		
2083	GC1213				X(33).			
	GC1213		'FINTEGER-OF-BOOLEAN	, bic	X(33).	UNIMPLEMENTED		
	GC1213		'FINTEGER-OF-DATE	, bio	X(33).			
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2089			' INTERFACE	, PIC	X(33). X(33).	UNIMPLEMENTED		
2090 2091			' INTERFACE-ID ' INTERMEDIATE		X(33).	UNIMPLEMENTED UNIMPLEMENTED		
2091		05 VALUE			X(33).	ONTHEFERENTED		
2093		O5 VALUE	, INTRINSIC	, PIC	X(33).			
2094		O5 VALUE	' INTRINSIC ' INVALID ' INVOKE ' IS ' JUST ' JUSTIFIED	, bic	X(33).			
2095		O5 VALUE	, INVOKE	, bic	X(33).	UNIMPLEMENTED		
2096		05 VALUE	, IS	, bic	X(33).			
2097		05 VALUE	, Just	, bic	X(33).			
2098		05 VALUE	, JUSTIFIED	, bic	X(33).			
2099		05 VALUE	' KEPT	, bic	X(33).			
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2101		05 VALUE	' KEYBOARD		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 2107			' LC_CTYPE ' LC_MESSAGES		X(33). X(33).	UNIMPLEMENTED		
2107			' LC_MONETARY		X(33).	UNIMPLEMENTED UNIMPLEMENTED		
2108			' LC_NUMERIC		X(33).	UNIMPLEMENTED		
2110			, TC_LIME		X(33).	UNIMPLEMENTED		
2111			, LEADING		X(33).			
2112		05 VALUE			X(33).			
2113			, LEFT-JUSTIFY		X(33).	UNIMPLEMENTED		
2114			' LEFTLINE		X(33).			

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                                                                                                                                                                 , bic X(33).
                                              05 VALUE 'FLENGTH
    2115 GC1213
    2116 GC1213 O5 VALUE 'FLENGTH-AN
                                                                                                                                                              , PIC X(33).
                     05 VALUE ' LENGTH-CHECK
05 VALUE ' LESS
                                                                                                                                                               , bic X(33).
    2117
                                                                                                                                                               ' PIC X(33).
    2118
                                           O5 VALUE ' LIMIT
                                                                                                                                                               , bic X(33).
    2119
                                              O5 VALUE ' LIMITS
O5 VALUE ' LINAGE
                                                                                                                                                              ' PIC X(33).
     2120
    2121
                                                                                                                                                            , bic X(33).
                                            05 VALUE 'LINAGE-COUNTER
                         O5 VALUE 'ILINAGE-COUNTER O5 VALUE ' LINE
                                                                                                                                                            , bic X(33).
    2122
                                                                                                                                                            , PIC X(33).
    2123
    2123 US VALUE JIME-COUNTER
2124 GC1213 OS VALUE 'ILINE-COUNTER
                                                                                                                                                             , bic X(33).
                                          05 VALUE ' LINES
                                                                                                                                                              ' PIC X(33).
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   2132 GC1213 05 VALUE 'FLOCALE-TIME-FRUM-SECONDS 'PIC X(33).
2134 GC1213 05 VALUE 'FLOG 'PIC X(33).
2135 GC1213 05 VALUE 'FLOG 'PIC X(33).
2136 05 VALUE 'LOW-VALUE 'PIC X(33).
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2138 05 VALUE 'LOW-VALUES 'PIC X(33).
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2140 GC1213 05 VALUE 'FLOWER-CASE 'PIC X(33).
2141 05 VALUE 'LOWLIGHT 'PIC X(33).
2142 05 VALUE 'MANUAL 'PIC X(33).
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2142 OS VALUE 'MANUAL 'PIC X(33).
2143 GC1213 OS VALUE 'FMAX 'PIC X(33).
2144 GC1213 OS VALUE 'FMEAN 'PIC X(33).
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2146 OS VALUE 'MEMORY 'PIC X(33).
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2152 GC1213 OS VALUE 'FMIN 'PIC X(33).
2153 OS VALUE 'FMIN 'PIC X(33).
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2155 OS VALUE 'MINUS 'PIC X(33).
2165 OS VALUE 'MINUS 'PIC X(33).
2166 VALUE 'MINUS 'PIC X(33).
2170 OS VALUE 'MINUS 'PIC X(33).
2171 OS VALUE 'MINUS 'PIC X(33).
                                                                                                                                                                                                        OBSOLETE
                                                                                                                                                                                                           UNIMPLEMENTED
UNIMPLEMENTED
                   GC1213 OS VALUE 'FMIN
OS VALUE 'MINUS
GC1213 OS VALUE 'FMOD
OS VALUE 'MODE

      2153
      05 VALUE ' MINUS
      ' PIC X(33).

      2154
      GC1213
      05 VALUE 'FMOD
      ' PIC X(33).

      2155
      05 VALUE ' MODE
      ' PIC X(33).

      2156
      GC1213
      05 VALUE 'FMODULE-CALLER-ID
      ' PIC X(33).

      2157
      GC1213
      05 VALUE 'FMODULE-DATE
      ' PIC X(33).

      2158
      GC1213
      05 VALUE 'FMODULE-FORMATTED-DATE
      ' PIC X(33).

      2159
      GC1213
      05 VALUE 'FMODULE-ID
      ' PIC X(33).

      2160
      GC1213
      05 VALUE 'FMODULE-PATH
      ' PIC X(33).

      2161
      GC1213
      05 VALUE 'FMODULE-SOURCE
      ' PIC X(33).

      2162
      GC1213
      05 VALUE 'FMODULE-TIME
      ' PIC X(33).

      2163
      GC1213
      05 VALUE 'FMONETARY-DECIMAL-POINT
      ' PIC X(33).

      2164
      GC1213
      05 VALUE 'FMONETARY-THOUSANDS-SEPARATOR
      ' PIC X(33).

      2165
      05 VALUE 'VMOVE
      ' PIC X(33).

                                                                                                                                                              , bic X(33).
                                               O5 VALUE 'VMOVE
     2165
                                     O5 VALUE ' MULTIPLE
O5 VALUE 'VMULTIPLY
O5 VALUE ' NAME
                                                                                                                                                              , bic X(33).
    2166
                                                                                                                                                                , PIC X(33).
    2167
    2168 GC0711 05 VALUE ' NAME
                                                                                                                                                                , bic X(33).
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2170		05 VALUE	' NATIONAL-EDITED	' PIC X(33).			
2171	GC1213	05 VALUE	'FNATIONAL-OF	, PIC X(33).	UNIMPLEMENTED		
2172		05 VALUE		' PIC X(33).			
2173		05 VALUE	' NEAREST-AWAY-FROM-ZERO	' PIC X(33).			
2174		O5 VALUE	'NEAREST-EVEN	'PTC X(33).			
2175		05 VALUE	' NEAREST-TOWARD-ZERO	' PIC X(33).			
2176			' NEGATIVE	, bic X(33).			
2177		05 VALUE		' PIC X(33).	UNIMPLEMENTED		
2178		05 VALUE	'VNEXT	, bic X(33).			
2179		05 VALUE	'VNEXT' ' NO ' NO-ECHO	, bic x(33).			
2180		05 VALUE	, NO-ECHO	' PIC X(33).			
2181		05 VALUE	' NONE	' PIC X(33).	UNIMPLEMENTED		
2182		05 VALUE	' NORMAL	, bic x(33).			
2183		O5 VALUE	NUI	' PIC X(33).			
2184		OF VALUE	NOTECHU NONE NORMAL NOT NULL NULLS NUMBER	' PIC X(33).			
2185		OF VALUE	, NOTES	' PIC X(33).			
2186 2187		05 VALUE	'INUMBER-OF-CALL-PARAMETERS	, bic X(33).			
2188		05 VALUE		PIC X(33).			
2189							
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2191	GC1213	OS VALUE	, NIMERIC-EDITED	, bic X(33).			
	GC1213	O5 VALUE	'FNUMERIC-THOUSANDS-SEPARATOR	, bic x(33)			
	GC1213	05 VALUE		, bic x(33).			
	GC1213	O5 VALUE	'FNUMVAL-C	, bic x(33).			
	GC1213	05 VALUE	'FNUMVAL-F	, bic X(33).			
2196		05 VALUE	, OBJECT	, bic X(33).	UNIMPLEMENTED		
2197		05 VALUE	' OBJECT ' OBJECT-COMPUTER	, bic X(33).			
2198		05 VALUE	' OBJECT-REFERENCE	, bic X(33).	UNIMPLEMENTED		
2199		05 VALUE	, OCCURS	, PIC X(33).			
2200		05 VALUE	' OCCURS ' OF ' OFF ' OMITTED ' ON ' ONLY 'VOPEN ' OPTIONAL ' OPTIONS ' OR	, bic X(33).			
2201		05 VALUE	, OFE	, bic X(33).			
2202		05 VALUE	' OMITTED	' PIC X(33).			
2203		05 VALUE	'ON	, bic X(33).			
2204		05 VALUE	' ONLY	' PIC X(33).			
2205		05 VALUE	'VOPEN	' PIC X(33).			
2206		05 VALUE	OPTIONAL	' PIC X(33).			
2207		05 VALUE	, OPTIONS	' PIC X(33).	UNIMPLEMENTED		
2208	001010	O5 VALUE	, OK	' PIC X(33).			
	GC1213	oo viibob	1 0100	110 11(00).			
2210	GC1213 GC1213		'FORD-MAX 'FORD-MIN	' PIC X(33). ' PIC X(33).			
2211	GC1213	05 VALUE		, bic x(33).			
2212			ORGANISATION	, bic x(33).			
2214			ORGANIZATION ORGANIZATION	, bic x(33).			
2214		05 VALUE		PIC X(33).			
2216		05 VALUE		, bic x(33).			
2217			OVERFLOW	, bic x(33).			
2218			OVERLINE	, bic x(33).			
2219			' OVERRIDE	, bic X(33).			
2220			' PACKED-DECIMAL	, bic X(33).			
2221			' PADDING	, bic X(33).			
2222		05 VALUE		, PIC X(33).			

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2224		05 VALUE	' PARAGRAPH		, bic	X(33).			
2225		05 VALUE	'VPERFORM		, bic	X(33).			
2226		05 VALUE	' PF			X(33).			
2227		05 VALUE	'PH		, bic	X(33).			
2228	GC1213	05 VALUE	'FPI		, bic	X(33).			
2229		05 VALUE	'FPI 'KPIC 'KPICTURE		, bic	X(33).			
2230		05 VALUE	'KPICTURE			X(33).			
2231		05 VALUE	' PLUS		, bic	X(33).			
2232			'KPOINTER			X(33).			
2233		05 VALUE	' POSITION			X(33).			
2234			, POSITIVE			X(33).			
2235			' PREFIXED			X(33).	UNIMPLEMENTED		
2236			' PRESENT			X(33).			
	GC1213	05 VALUE	'FPRESENT-VALUE ' PREVIOUS			X(33).			
2238		OO VALOL	TILLVIOOD			X(33).			
2239			'MPRINTER			X(33).			
2240			' PRINTING			X(33).			
2241			'KPROCEDURE			X(33).			
2242			' PROCEDURE-POINTER			X(33).			
2243			PROCEDURES			X(33).			
2244			PROCEED			X(33). X(33).			
2245			' PROGRAM 'KPROGRAM-ID			X(33).			
2246 2247			PROGRAM-POINTER			X(33).			
2247			PROGRAM-POINTER PROHIBITED			X(33).			
2249		O5 VALUE				X(33).			
2250			PROPERTY			X(33).	UNIMPLEMENTED		
2251			, PROTOTAPE			X(33).	UNIMPLEMENTED		
2252		05 VALUE				X(33).	OBSOLETE		
2253		05 VALUE				X(33).	OBSOLETE		
2254		05 VALUE				X(33).	05202212		
2255		05 VALUE				X(33).			
2256		05 VALUE				X(33).	UNIMPLEMENTED		
2257			' RAISING		, bic	X(33).	UNIMPLEMENTED		
2258	GC1213				, bic	X(33).			
2259	GC1213	05 VALUE	'FRANGE			X(33).			
2260	GC1213	05 VALUE	'KRD		, bic	X(33).			
2261		05 VALUE			, bic	X(33).			
2262		O5 VALUE	'VREADY		, bic	X(33).			
2263		05 VALUE	'VRECEIVE		, bic	X(33).	OBSOLETE		
2264		05 VALUE				X(33).			
2265			' RECORDING			X(33).			
2266			' RECORDS			X(33).			
2267			' RECURSIVE			X(33).			
2268			'KREDEFINES			X(33).			
2269	000240	05 VALUE				X(33).			
2270	GC0712		'AREFERENCE			X(33).			
2271			, REFERENCES			X(33).	INTMOT DADAMES		
2272			' RELATION			X(33).	UNIMPLEMENTED		
2273			' RELATIVE			X(33). X(33).			
2274 2275	CC1019	05 VALUE	'VRELEASE			X(33). X(33).			
2275	GC1213		'REMAINDER			X(33).			
2210		OO VALUE	TELIATINDER		. P10	Λ(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).			
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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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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		
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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		O5 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	05 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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2440 GC0711 05 VI 2441 05 VI 2442 05 VI 2443 05 VI	ALUE ' TIME-OUT ALUE ' TIMEOUT ALUE ' TIMES ALUE 'KTO ALUE ' TOP	' PIC X(33).		
2444 05 VI 2445 05 VI 2446 05 VI 2447 05 VI	ALUE ' TOWARD-GREATER ALUE ' TOWARD-LESSER ALUE ' TRAILING ALUE ' TRAILING-SIGN ALUE 'VTRANSFORM	' PIC X(33). ' PIC X(33). ' PIC X(33).	UNIMPLEMENTED	
2449 GC1213 05 VI 2450 05 VI 2451 05 VI	ALUE 'TRUE ALUE 'TRUE ALUE 'TRUNCATION	' PIC X(33).		
2453 05 VI 2454 05 VI	ALUE ' TYPEDEF ALUE ' UCS-4	' PIC X(33). ' PIC X(33). ' PIC X(33). ' PIC X(33).	UNIMPLEMENTED UNIMPLEMENTED	
2457 05 VI 2458 05 VI 2459 05 VI 2460 05 VI 2461 05 VI	ALUE ' UNDERLINE ALUE ' UNIT ALUE ' UNIVERSAL ALUE ' VUNLOCK ALUE ' UNSIGNED ALUE ' UNSIGNED-INT ALUE ' UNSIGNED-LONG ALUE ' UNSIGNED-SHORT ALUE ' VUNSTRING ALUE ' UNTIL ALUE ' KUP ALUE ' UPDATE ALUE ' UPON ALUE ' UPPER	' PIC X(33).	UNIMPLEMENTED	
2462 05 VI 2463 05 VI 2464 05 VI 2465 05 VI	ALUE ' UNSIGNED-SHORT ALUE 'VUNSTRING ALUE ' UNTIL ALUE 'KUP	PIC X(33). PIC X(33). PIC X(33). PIC X(33).		
2469 GC1213 05 VA	ALUE 'FUPPER-CASE	' PIC X(33).		
2471 05 VI 2472 GC0711 05 VI 2473 05 VI	ALUE ' USAGE ALUE 'VUSE ALUE ' USER ALUE ' USER-DEFAULT ALUE 'KUSING	' PIC X(33).		
2475 05 VI 2476 05 VI 2477 05 VI 2478 05 VI	ALUE ' UTF-16 ALUE ' UTF-8 ALUE ' VAL-STATUS ALUE ' VALID	' PIC X(33). ' PIC X(33). ' PIC X(33). ' PIC X(33).	UNIMPLEMENTED UNIMPLEMENTED UNIMPLEMENTED UNIMPLEMENTED	
2480 05 VI 2481 GC0712 05 VI 2482 05 VI	ALUE ' VALIDATE ALUE ' VALIDATE-STATUS ALUE 'AVALUE ALUE ' VALUES ALUE 'FVARIANCE	' PIC X(33).	UNIMPLEMENTED UNIMPLEMENTED	
2485 05 VI 2486 05 VI 2487 05 VI	ALUE 'KVARYING ALUE ' VDISABLE ALUE ' WAIT ALUE 'VWHEN	' PIC X(33). ' PIC X(33). ' PIC X(33). ' PIC X(33).	UNIMPLEMENTED	
2489 05 VI 2490 05 VI 2491 05 VI	ALUE 'FWHEN-COMPILED ALUE ' WITH ALUE ' WORDS ALUE 'KWORKING-STORAGE ALUE 'VWRITE	' PIC X(33).		

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2493 2494 2495 2496 2497 2498 2499	GC1213		05 VALUE 'FYEAR-TO-YYYY 05 VALUE ' YYYYDDD 05 VALUE ' YYYYMMDD 05 VALUE ' ZERO 05 VALUE ' ZERO-FILL 05 VALUE ' ZEROES 05 VALUE ' ZEROS	' PIC X(33).	UNIMPLEMENTED		
2500		01	WS-Reserved-Word-Table-TXT REDEFINE	S WS-Reserved-Words-TXT.			
2501 2502 2503	GC1113		05 WS-Reserved-Word-TXT OCCUI	RS 754 TIMES ASCENDING KEY WS-RW-Word-TXT			
2504				INDEXED WS-RW-IDX.			
2505 2506 2507			10 WS-RW-Type-CD 10 WS-RW-Word-TXT	PIC X(1). PIC X(32).			
2508		01	WS-Runtime-Switches.				
2509	GC0710		05 WS-RS-Duplicate-CHR	PIC X(1).			
2510			05 WS-RS-In-Which-Pgm-CHR	PIC X(1).			
2511			88 WS-RS-In-Main-Module-BOOL	VALUE 'M'.			
2512			88 WS-RS-In-Copybook-BOOL	VALUE 'C'.			
2513			05 WS-RS-Last-Token-Ended-Sent-CHR	PIC X(1).			
2514			05 WS-RS-Processing-PICTURE-CHR	PIC X(1).			
2515	~~~		05 WS-RS-Token-Ended-Sentence-CHR	PIC X(1).			
2516	GC0710		05 WS-RS-Verb-Has-Been-Found-CHR	PIC X(1).			
2517		01	UC Court Costing TVT	DIG V(15)			
2518 2519		01	WS-Saved-Section-TXT	PIC X(15).			
2520	GC1213	01	WS-Src-Dashes-TXT.				
2521	GC0712		05 VALUE '====='	PIC X(7).			
2522 2523	GC0712		O5 VALUE ALL '='	PIC X(128).			
2524		01	WS-Src-Detail-Line-TXT.				
2525			05 WS-SDL-Line-NUM	PIC ZZZZZ9.			
2526			05 FILLER	PIC X(1).			
2527 2528			05 WS-SDL-Statement-TXT	PIC X(256).			
2529 2530	GC1213	01	WS-Src-Hold-TXT	PIC X(256).			
2531 2532		01	WS-Src-Line-NUM	PIC 9(6).			
2533 2534	GC1213	01	WS-Src-Lines-NUM	USAGE BINARY-LONG.			
2535 2536		01	WS-Src-SUB	USAGE BINARY-LONG.			
2537 2538		01	WS-Tally-QTY	USAGE BINARY-LONG.			
2539 2540		01	WS-Temp-10-Chars-TXT	PIC X(10).			
2541 2542		01	WS-Temp-32-Chars-1-TXT	PIC X(32).			
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
                                                                                                                              PTC X(32).
    2558
    2559
                                01 WS-Token-Search-TXT
                                                                                                                              PIC X(32).
    2560
                                01 WS-Token-Type-CD
    2561
                                                                                                                              PIC X(1).
                                        88 WS-TT-Token-Is-Argtype-BOOL
                                                                                                                              VALUE 'A'.
    2562 GC0712
                                        88 WS-TT-Token-Is-EOF-BOOL
                                                                                                                              VALUE HIGH-VALUES.
    2563

        2563
        88 WS-TT-Token-Is-E0F-B00L
        VALUE HIGH

        2564 GC1213
        88 WS-TT-Token-Is-Function-B00L
        VALUE 'F'.

   | 2564 | GC1213 | OO | WS-11-TOKEN IS FUNCTION | BOSE | Color 
                                                                                                                             VALUE 'K', 'V', 'A'.
                                                                                                                              VALUE 'V'.
    2569
                                         88 WS-TT-Token-Is-Verb-BOOL
                                                                                                                              VALUE ' ', 'F'.
    2570 GC1213 88 WS-TT-Token-Is-Reserved-Wd-BOOL
    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.
                                                10 WS-XDL-Ref-Flag-CHR
    2587
                                                                                                                          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.
    2600
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                                                                                                74
 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
               OPEN OUTPUT F-Listing-FILE
 2613 GC0712
 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
 2619 GC0712
                   OUTPUT PROCEDURE 400-Produce-Xref-Listing
                 CLOSE F-Listing-FILE
 2622
                 GOBACK
 2623
 2624
 2625
 2626
             *> Perform all program-wide initialization operations
 2627
            2628
             100-Initialization SECTION.
 2629 GC1213 MOVE 0 TO WS-Page-NUM
                MOVE 'N' TO WS-Suppress-FF-CHR
 2630 GC1213
 2631 GC1213 MOVE SPACES TO WS-Copyright-TXT
 2632 GC1213 STRING 'GCic for '
                                                   DELIMITED SIZE
                       WS-OS-Type-TXT(L-OS-Type-CD) DELIMITED SPACE
 2633 GC1213
                        ' Copyright (C) 2009-' DELIMITED SIZE
 2634 VC0820
 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
 2639 VC0811*>
                MOVE 'GNUCOBOL 3.1.2 O6MAR2022' TO WS-Version-TXT
 2640
 2641 VC0811
                          Comp-Vers to
                                         WS-Version-TXT.
                 move
 2642
                 MOVE TRIM(L-Src-Fn-TXT, Leading) TO L-Src-Fn-TXT
                 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
               ELSE
                 ADD 1 TO WS-I-SUB
MOVE UPPER-CASE(L-Src-Fn-TXT(WS-I-SUB:))
 2653 GC1010
 2654 GC1010
```

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                                                                                          Page
                                                                                                 75
 2655 GC1010
                       TO WS-Main-Module-Name-TXT *> Extract filename
 2656 GC1010 END-IF
 2657 GC1213
                IF L-Listing-CD = 1 *> LANDSCAPE
                 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
 2670
                 MOVE O TO WS-J-SUB
                 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
                   ELSE
                                     *> 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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                                                                                                Page
                                                                                                       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
                          END-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
                      END-IF
  2753
  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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                                                                                                Page
                                                                                                       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
                          {\tt 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
                  AND WS-Curr-CHR = '='
  2800
  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
                  END-IF
  2811
                  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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  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
                           WITH POINTER WS-Src-SUB
  2862
  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
                       ELSE
  2913
  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
                   FND-TF
  2928 GC0712
                   COMPUTE WS-I-SUB = NUMVAL(WS-Temp-10-Chars-TXT) - 1
  2929
  2930 GC1010
                   IF UPPER-CASE(TRIM(WS-Temp-256-Chars-TXT,Trailing)) =
  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
                   END-IF
                   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
 2991 GC0711
                          WS-Dummy-TXT
              IF WS-Dummy-TXT NOT = SPACES
 2992 GC0711
                                                                *> More than one 'E' - Not Numeric
 2993 GC0711
                  EXIT SECTION
 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
                 IF WS-Temp-32-Chars-3-TXT(1:1) = '+' OR '-'
 2998 GC0711
 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
 3031 GC0712
                     IF WS-CPI-16-CHR NOT = SPACES
                         MOVE '...' TO WS-CPI-13-15-TXT
 3032
```

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  3033
                      END-IF
  3034
                      EXIT SECTION
                  END-IF
  3035
  3036
  3037
  3038
              330-ENVIRONMENT-DIVISION SECTION.
  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
  3042
  3043
                  AND WS-Token-Curr-TXT = 'DIVISION'
  3044
                    MOVE WS-Token-Prev-TXT TO WS-Curr-Division-TXT
  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
                 END-IF
  3077
                 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-TF
  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
                        PERFORM 360-Release-Def
  3095 GC1213
                         MOVE SPACES TO WS-Token-Prev-TXT
                      WHEN 'SD'
  3096
  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
  3115
                     END-EVALUATE
 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 EXX
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
                   EXIT SECTION
 3143
           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'
 3161 GC1213
                 PERFORM 351-GENERATE
 3162
                 WHEN 'INITIALIZE'
                 PERFORM 351-INITIALIZE
 3163
 3164 GC1213 WHEN 'INITIATE'
 3165 GC1213
                 PERFORM 351-GENERATE
                WHEN 'INSPECT'
 3166
 3167
                   PERFORM 351-INSPECT
               WHEN 'MOVE'
 3168
 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
 3193
                 WHEN 'ACCEPT'
 3194
                    PERFORM 362-Release-Upd
```

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                     MOVE SPACES TO WS-Token-Prev-TXT
 3195
 3196
                 WHEN OTHER
 3197
                    PERFORM 361-Release-Ref
                 END-EVALUATE
 3198
 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
         PERFORM 362-.

MOVE SPACES :
WHEN 'RETURNING'
PERFORM 362-R
WHEN OTHER
PERFORM:
                 WHEN 'ALLOCATE'
 3214
                 PERFORM 362-Release-Upd
 3215
 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'
 3227
                    PERFORM 362-Release-Upd
               WHEN 'GIVING'
 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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                                                                                             Page
                                                                                                    86
                  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.
  3269 GC1213 PERFORM 362-Release-Upd
  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
                     MOVE SPACES TO WS-Token-Prev-TXT
  3293
  3294
                  WHEN 'REPLACING'
  3295
                      IF WS-Held-Reference-TXT NOT = SPACES
  3296
                          MOVE WS-Held-Reference-TXT TO F-Sort-Work-REC
                          MOVE SPACES TO WS-Held-Reference-TXT
  3297
                          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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                                                                                            Page
  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
                  MOVE O
  3422
                                             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
  3440
                  MOVE WS-Token-Curr-TXT
                  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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                                                                                                     90
                  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
  3474
                                    TO WS-I-SUB
  3475
                                      WS-Lines-Left-NUM
                  MOVE 'N'
                                    TO WS-RS-Duplicate-CHR
  3476 GC0710
  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
                          EXIT PERFORM CYCLE
  3513 GC0710
                     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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                                                                                                          91
  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-Listing-12E-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
  3567 GC1213
                          WRITE F-Listing-135-REC BEFORE 1 *> Page Header Line #2
  3568 GC1213
                          MOVE 'PROGRAM-ID Identifier/Register/Function' &
  3569 GC1213
                                      Defn Where Defined References'
 3570 GC1213
                           TO F-Listing-135-REC
 3571 GC1213
                         MOVE WS-Page-No-TXT
  3572 GC1213
                             TO F-Listing-135-REC(126:10)
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 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)
 3577 GC1213
                                      F-Listing-135-REC(56:1)
 3578 GC1213
                                      F-Listing-135-REC(72:1)
                  WF
ELSE
 3579 GC1213
                         WRITE F-Listing-135-REC BEFORE 1 *> Page Header Line #4
 3580 GC1213
                                        *> 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
 3621 GC1213
                      TO F-Listing-135-REC
 3622 GC1213
                     WRITE F-Listing-135-REC BEFORE 1 *> Footer Line #2
 3623 GC1213
                     MOVE WS-Copyright-TXT
 3624 GC1213
                     TO F-Listing-135-REC
 3625 GC1213
                   MOVE WS-Page-No-TXT
 3626 GC1213
                     TO F-Listing-135-REC(126:10)
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  3627 GC1213
                      IF WS-Suppress-FF-CHR = 'Y'
  3628 GC1213
                          WRITE F-Listing-135-REC BEFORE 1 *> Footer Line #3
  3629 GC1213
  3630 GC1213
                          WRITE F-Listing-135-REC BEFORE PAGE *> Footer Line #3
  3631 GC1213
                          WRITE F-Listing-135-REC FROM SPACES BEFORE 1 *> Spaces After FF Character
  3632 GC1213
                      END-IF
  3633 GC1213
                  ELSE
                                       *> PORTRAIT
                 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
                      IF WS-Src-Line-NUM > 0
  3683
  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.
  3692
                  IF WS-RS-In-Main-Module-BOOL
  3693
                      ADD 1 To WS-Curr-Line-NUM
  3694 GC0712
                      READ F-Original-Src-FILE AT END CONTINUE END-READ
                      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
  3712 GC0712
                         WHEN WS-Temp-65-Chars-TXT = "skip1"
  3713 GC0712
                              MOVE SPACES TO WS-Src-Detail-Line-TXT
  3714 GC0712
                              PERFORM 530-Generate-Source-Line
  3715 GC0712
                              EXIT SECTION
  3716 GC0712
                          WHEN WS-Temp-65-Chars-TXT = "skip2"
  3717 GC0712
                              MOVE SPACES TO WS-Src-Detail-Line-TXT
  3718 GC0712
                              PERFORM 530-Generate-Source-Line 2 TIMES
  3719 GC0712
                              EXIT SECTION
  3720 GC0712
                          WHEN WS-Temp-65-Chars-TXT = "skip3"
  3721 GC0712
                              MOVE SPACES TO WS-Src-Detail-Line-TXT
  3722 GC0712
                              PERFORM 530-Generate-Source-Line 3 TIMES
  3723 GC0712
                              EXIT SECTION
  3724 GC0712
                      END-EVALUATE
  3725
                      PERFORM 530-Generate-Source-Line
  3726
                  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"
                                  MOVE O TO WS-Lines-Left-NUM
  3737 GC0712
  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
                                 WHEN 3 *> Need 2 extra blank lines
  3793 GC1213
  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
                                 WRITE F-Listing-96-REC BEFORE 1 *> Footer Line #2
  3800 GC1213
  3801 GC1213
                                 MOVE WS-Copyright-TXT
  3802 GC1213
                                   TO F-Listing-96-REC
  3803 GC1213
                                 MOVE WS-Page-No-TXT
                  WRITE F-Listing-96-REC BEFORE PAGE *>
WRITE F-Listing-96-REC BEFORE PAGE *>
WRITE F-Listing-96-REC FROM SPACES BEI
END-IF
END-IF
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-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
  3807 GC1213
  3808 GC1213
  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)
  3819 GC1213
                           MOVE WS-Formatted-DT
  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
                           MOVE 'Source Listing'
  3836 GC1213
  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
                        MOVE WS-Page-No-TXT
  3846 GC1213
  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
  3860 GC1213
                          SUBTRACT 1 FROM WS-Lines-Left-NUM
                      WHEN 2
  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
  3873 GC1213
                    WHEN 1 *> Print only chars 1-89 of stmnt
  3874 GC1213
                          WRITE F-Listing-96-REC FROM WS-Src-Detail-Line-TXT
  3875 GC1213
                              BEFORE 1
                  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-
  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
                         MOVE WS-Src-Hold-TXT(90:89) TO WS-SDL-Statement-TXT
  3891 GC1213
                         WRITE F-Listing-96-REC FROM WS-Src-Detail-Line-TXT
  3892 GC1213
  3893 GC1213
                              BEFORE 1
  3894 GC1213
                       MOVE SPACES TO WS-Src-Detail-Line-TXT
                         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
```

 ${\tt Symbols\ of\ Module:\ GCIC\ (LISTING)}$

Data Section (FILE)	Defn	Locations
	•	
F-ES-1-7-TXT	001631F	002776 003662
F-ES-1-CHR	001628F	002777 003663
F-ES-2-256-TXT-256	001629F	002920 003675
F-ES-8-256-TXT	001632F	
F-EXPANDED-SRC-FILE	001617F	001626 002709 002756 002766 003653 003656 003671 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
		003816 003818 003820 003821 003823 003824 003826 003828
		003829 003831 003832 003858 003863 003864 003867 003868
F-LISTING-96-REC	001635F	
		003596 003597 003598 003599 003600 003601 003602 003610
		003634 003636 003637 003639 003641 003643 003645 003646
		003792 003794 003795 003797 003799 003800 003802 003804
		003805 003806 003835 003837 003839 003840 003842 003843
		003845 003847 003848 003850 003851 003859 003874 003879
	0010100	003883 003888 003892 003896
F-LISTING-FILE		001634 002613 002621
F-LISTING-REC	001637F	0044000 000450 000470 000404
F-ORIGINAL-SRC-FILE	001621F	
F-ORIGINAL-SRC-REC	001640F	003698
F-OS-1-128-TXT F-OS-129-256-TXT	001641F	
F-05-129-250-1X1 F-0S-7-CHR	001646F 001643F	002702
F-0S-8-72-TXT	001643F	
F-SORT-WORK-FILE		001648 002615 003478
F-SORT-WORK-REC	001623F 001649F	
r-Sori-work-rec	001049r	003299 003304 003307 003328 003330 003333 003416 003423
		003428 003433 003437 003447 003457 003461
F-SW-DEF-LINE-NUM	001654F	
F-SW-PROG-ID-TXT	001650F	
1 5W 1100 15 1M1	0010001	003509 003521 003525
F-SW-REF-FLAG-CHR	001657F	003253 003298 003306 003332 003443 003467 003540
F-SW-REF-LINE-NUM	001656F	
F-SW-REFERENCE-TXT	001655F	
F-SW-SECTION-TXT	001653F	003420 003441 003451 003465 003511 003527
F-SW-TOKEN-TXT	001652F	
F-SW-TOKEN-UC-TXT	001651F	
		003515
L-LISTING-FN-TXT	001619F	002593 002605
L-SRC-FN-TXT	001621F	002595 002606 002642 002643 002645 002650 002654 002666
		002667 002669 002671 002676
WS-EXPANDED-SRC-FN-TXT	001617F	001697 002684 002685

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)	Defn	Locatio	ons						
	+								
WS-OS-TYPE-TXT WS-OS-TYPES-TXT	001734W 001733W	002633							
WS-PAGE-NO-TXT	001739W	003556 003827		003594	003625	003640	003783	003803	003813
WS-PAGE-NUM	001737W	002629	003552	003554	003772	003809	003811		
WS-PN-LITERAL-TXT	001740W	003553	003810						
WS-PN-PAGE-NUM	001741W	003554	003555	003811	003812				
WS-PROGRAM-PATH-TXT	001743W	002667	002668	003565	003588	003822	003841		
WS-RESERVED-WORD-TABLE-TXT	002500W								
WS-RESERVED-WORD-TXT	002501W	002896							
WS-RESERVED-WORDS-TXT	001745W	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		002762	002908						
WS-RS-PROCESSING-PICTURE-CHR	002514W	002857							
WS-RS-TOKEN-ENDED-SENTENCE-CHR	002515W	002749 002884	002761	002763	002796	002825	002838	002851	002864
WS-RS-VERB-HAS-BEEN-FOUND-CHR WS-RUNTIME-SWITCHES	002516W 002508W	002715	002900	003022					
WS-RW-IDX	002504W	002897	002898						
WS-RW-TYPE-CD	002505W	002898							
WS-RW-WORD-TXT	002503W	002506	002897						
WS-SAVED-SECTION-TXT	002518W	002934	002935	002939	002940				
WS-SDL-LINE-NUM	002525W	003697							
WS-SDL-STATEMENT-TXT	002527W	003698 003882		003760 003891		003766	003862	003866	003878
WS-SRC-DASHES-TXT	002520W	003830	003849						
WS-SRC-DETAIL-LINE-TXT	002524W	003657	003696	003704	003708	003713	003717	003721	003728
		003740	003744	003748	003858	003863	003865	003867	003874
		003879	003881	003883	003888	003890	003892	003894	003896
		003901							
WS-SRC-HOLD-TXT	002529W	003862				003887	003891	003895	
WS-SRC-LINE-NUM	002531W	003654							
WS-SRC-LINES-NUM	002533W	003758 003872	003761	003765	003767	003771	003774	003788	003856
WS-SRC-SUB	002535W	002711							
					002824				
		002839	002845	002849	002850	002852	002862	002865	002882
					002969				
WS-SUPPRESS-FF-CHR	001702W	002630							
WS-TALLY-QTY	002537W	003001							
WS-TEMP-10-CHARS-TXT	002539W	002922							
WS-TEMP-256-CHARS-TXT	002549W				002942	002945	002950	003678	003680
WS-TEMP-32-CHARS-1-TXT	002541W	002977							
WS-TEMP-32-CHARS-2-TXT	002543W	002984							
WS-TEMP-32-CHARS-3-TXT	002545W	002985							000700
WS-TEMP-65-CHARS-TXT	002547W	003700	003701	003707	003712	003716	003720	003732	003733

Symbols of Module: GCIC (LISTING)

Data Section (WORKING-STORAGE)	Defn	Locatio	ons						
	+								
		003736	003739	003743	003747				
WS-TODAY-DT	002551W	002701	002702						
WS-TOKEN-CURR-TXT	002553W	002721	002725	002794	002803	002814	002822	002835	002848
		002860	002867	002880	002890	002892	002910	002977	003024
		003030	003043	003048	003069	003074	003078	003112	003130
		003419	003440	003450	003464				
WS-TOKEN-CURR-UC-TXT	002555W	002722	002725	002728	002747	003124	003418	003439	003449
		003463							
WS-TOKEN-PREV-TXT	002557W	002729	002747	002751	002810	003025	003028	003029	003044
		003049	003053	003070	003075	003084	003085	003089	003092
		003095	003098	003101	003104	003107	003110	003125	003131
		003135	003139	003192	003195	003202	003213	003216	003225
		003236	003245	003273	003286	003290	003293	003301	003309
		003316	003325	003341	003344	003347	003354	003363	003374
		003389	003392	003399					
WS-TOKEN-SEARCH-TXT	002559W	002890	002891	002897					
WS-TOKEN-TYPE-CD	002561W	002795	002804	002815	002868	002872	002893	002898	002911
WS-TT-TOKEN-IS-ARGTYPE-BOOL	002562W	003019	003039	003065					
WS-TT-TOKEN-IS-EOF-BOOL	002563W	002718	002772						
WS-TT-TOKEN-IS-FUNCTION-BOOL	002564W	003059							
WS-TT-TOKEN-IS-IDENTIFIER-BOOL	002565W	002905	003052	003088	003134	003142			
WS-TT-TOKEN-IS-KEYWORD-BOOL	002566W	002723	002746	003023	003042	003047	003068	003073	003079
		003129							
WS-TT-TOKEN-IS-LIT-ALPHA-BOOL	002567W	002828	002854						
WS-TT-TOKEN-IS-LIT-NUMBER-BOOL	002568W	002841	002907	002981	003013				
WS-TT-TOKEN-IS-RESERVED-WD-BOOL	002570W	002724	003020	003040	003066	003083			
WS-TT-TOKEN-IS-VERB-BOOL	002569W	002727	002899						
WS-USERNAMES-QTY	002572W	002712							
	002574W	002641	003558	003581	003815	003834			
	002581W	003512	003529						
WS-XDL-PROG-ID-TXT	002577W	003509	003521	003525					
WS-XDL-REF-FLAG-CHR	002587W	003541							
WS-XDL-REF-LINE-NUM	002586W	003539							
WS-XDL-REFERENCE-TXT	002585W								
WS-XDL-SECTION-TXT	002583W	003511	003527						
WS-XDL-TOKEN-TXT	002579W	003510	003522	003526					
WS-XREF-DETAIL-LINE-TXT	002576W	003472	003479	003482	003492	003496	003505	003524	003544
		003607							
WS-XREF-LINES-PER-REC-NUM	002590W	002658	002662	003534					

Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:07 ACS Cobol Xref v2.02.04 Page 103 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 L-LPP-NUM 002599K 002608 002695 L-LPP-NOr1 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-Z-BOOL
WS-CURR-DIVISION-TXT WS-CD-IN-IDENT-DIV-BOOL
WS-CURR-DIVISION-TXT WS-CD-IN-ENV-DIV-BOOL
WS-CURR-DIVISION-TXT WS-CD-IN-DATA-DIV-BOOL
WS-CURR-DIVISION-TXT WS-CD-IN-PROC-DIV-BOOL
WS-CURR-DIVISION-TXT WS-CD-IN-PROC-DIV-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-ALPHA-BOOL
WS-TOKEN-TYPE-CD WS-TT-TOKEN-IS-LIT-NUMBER-BOOL
WS-TOKEN-TYPE-CD WS-TT-TOKEN-IS-VERB-BOOL
WS-TOKEN-TYPE-CD WS-TT-TOKEN-IS-RESERVED-WD-BOOL WS-CURR-CHR WS-CURR-CHAR-IS-X-BOOL

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

Variable Tested Symbol (88-Conditions) [S]

 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-CHR
 WS-CD-IN-PROC-DIV-BOOL

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

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

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

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

 WS-NEXT-CHR
 WS-RS-IN-COPYBOOK-BOOL

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

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

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

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

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

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

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

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

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

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ACS Cobol Xref v2.02.04

Procedure

COMP-VERS

COMP-YEAR

Page 106

Symbols of Module: GCIC (LISTING) -----Functions Defn Locations 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 ACS Cobol Xref v2.02.04 Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:07 Page 108 Symbols of Module: GCIC (LISTING)

Defn Locations

002641P

002635P

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

Symbols of Module: GCIC (LISTING)

Unreferenced Working Storage Symbols

 CBL_CHECK_FILE_EXIST
 002685C

 F-ES-8-256-TXT
 001632F

 F-EXPANDED-SRC2-REC
 001630F

 F-LISTING-REC
 001637F

 F-0S-1-128-TXT
 001641F

 F-0S-129-256-TXT
 001701W

 WS-FLAGS-TXT
 001701W

 WS-0S-TYPES-TXT
 001733W

 WS-RESERVED-WORD-TABLE-TXT
 002500W

 WS-RS-IN-WHICH-PGM-CHR
 002510W

 WS-RUNTIME-SWITCHES
 002508W

 WS-XDL-REFERENCE-TXT
 002585W

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

Symbols of Module: GCIC (LISTING)

Unreferenced Procedures

COMP-VERS 002641P COMP-YEAR 002635P

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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).
                          88 SCB-MODE-Input-BOOL
88 SCB-MODE-Output-BOOL
88 SCB-MODE-Both-BOOL
                                                                                                                                                                                                                                                                                                                   VALUE 'I', 'i'.
                                                                                                                                                                                                                                                                                                                 VALUE '0', 'o'.
                             88 SCB-MODE-Both-BOOL
                                                                                                                                                                                                                                                                                                                  VALUE 'B', 'b'.

      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 'RD', 'rd'
                                                                                                                                                                                                                                                                                                        PIC X(2).
     05 SCB-Function-CD
                           'rD', 'Rd'.

88 SCB-Func-WRITE-BOOL

88 SCB-Func-WRITE-Delim-BOOL

VALUE 'WD', 'wd',
'wD', 'Wd'.
VALUE 'WD', 'wd 'wD', 'wd '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 2014/03/27

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 *> 49

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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', 'r'. **

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

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

*> 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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GNU COBOL 2.1 23NOV2013 Source Listing

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
          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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 $2014/03/27 \\ \texttt{C:/Users/tda010/Documents/Programs/Samples/STREAMIO.cbl}$

Line	Statement		Page: 4
148	*>		**
149	*>	This function invokes a standard CBL_READ_FILE against	**
150	*>	the file specified in the control block (see	**
151	*>	SCB-Filename-TXT).	**
152	*>		**
153	*>	The buffer into which you wish to read data must be	**
154	*>	supplied as "arg2". The size of that buffer, in bytes,	**
155	*>	will define the "byte-count" value supplied to the	**
156	*>	CBL_READ_FILE subroutine. The buffer data item will be	**
157	*>	set to SPACES before the read takes place.	**
158	*>	•	**
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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ie	Statement	C:/Users/tda010/Documents/Programs/	Samples/STREAMIO. 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	*> S	CB-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		CB-Delimiter-Mode-CD	**
241	*>		-**
242	*>		**
243	*> T	his data item is needed only when issuing the Streamio-	**
244	*> F	UNC-WRITE-Delim function. In those circumstances, this	**
245	*> i	tem defines what end-of-line delimiter sequence is to be	**

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C:/Users/tda010/Documents/Programs/Samples/STREAMIO.cbl ______ 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
          *> If you are planning on reading the file, the file MUST exist **
  323
          *> 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 **
         *> automatically for you in whatever directory is de- **
  339
  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
         WORKING-STORAGE SECTION.
  366
                                            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
                                            PIC X(1).
  372
         01 WS-Tally-NUM
  373
                                            USAGE BINARY-LONG.
         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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```
GNU COBOL 2.1 23NOV2013 Source Listing
```

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
                FND-TF
  449
                IF RETURN-CODE = 30
  450
                   MOVE 12 TO L-SCB-Return-CD
  451
                    PERFORM 099-ERROR-Return
  452
                END-IF
                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
```

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060-Identify-TEMP SECTION.

466

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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 MOVE -2 TO L-SCB-Return-CD 534 535 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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```
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```

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$PARAMSIZE" USING 2
  574
                MOVE RETURN-CODE TO WS-Arg-Length-NUM
  575
  576
                MOVE SPACES TO L-Arg2-TXT(1:WS-Arg-Length-NUM)
  577
                CALL "CBL_READ_FILE" USING L-SCB-Handle-NUM
                                          {\tt L-SCB-Offset-NUM}
  578
  579
                                          WS-Arg-Length-NUM
  580
  581
                                          L-Arg2-TXT
                PERFORM 050-Check-READ-SCB-Return-CD
  582
  583
                ADD WS-Arg-Length-NUM TO L-SCB-Offset-NUM
  584
  585
            500-READ-Delim SECTION.
  586
                CALL "C$PARAMSIZE" USING 2
  587
                MOVE RETURN-CODE TO WS-Arg-Length-NUM
                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
                    MOVE 256 TO WS-Arg-Length-NUM
  604
                    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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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
  621
                            TALLYING WS-Tally-NUM FOR ALL X"OA"
  622
                        IF WS-Tally-NUM = 0
                           ADD 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
                ELSE
                             *> 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
                    ELSE
  654
                        MOVE SPACES
  655
                          TO L-Arg2-TXT(1:WS-Arg-Length-NUM)
                    END-IF
  656
                END-IF
  657
```

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		s/tda01	O/Documents/Pr	ogran	ns/Sample	s/STR	EAMIO.cbl
PROGRAM-ID	Identifier/Register/Function	Defn	Where Defined	_	eferences		Page: 15
==========		=====	=========	== ==		====	=======
STREAMIO	000-Main	383	PROCEDURE				
STREAMIO	020-Validate-Handle-Zero	432	PROCEDURE		392		
STREAMIO	030-Validate-Handle-NonZero	438	PROCEDURE		387	395	398
					401	406	411
STREAMIO	040-Check-WRITE-SCB-Return-CD	444	PROCEDURE		424	570	
STREAMIO	O5O-Check-READ-SCB-Return-CD	455	PROCEDURE		582	594	
STREAMIO	060-Identify-TEMP	466	PROCEDURE		493	508	
STREAMIO	099-ERROR-Return	478	PROCEDURE		417	428	435
					441	447	451
					458	489	535
					544	548	557
					614		
STREAMIO	100-OPEN	485	PROCEDURE		393		
STREAMIO	200-CLOSE		PROCEDURE		388		
STREAMIO	300-WRITE		PROCEDURE		402	407	412
STREAMIO	400-READ		PROCEDURE		396	101	112
STREAMIO	500-READ-Delim		PROCEDURE		399		
STREAMIO			LINKAGE		382	EGOC	576*
SIREAMIU	L-Arg2-TXT	360	LINKAGE			569C	
					581C	588*	
					599	600*	
			Fa	,	652*	655*	
STREAMIO	L-SCB-DELIM-Unix-BOOL		[STREAMIOcb]	405		
STREAMIO	L-SCB-DELIM-Windows-BOOL		[STREAMIOcb]	410		
STREAMIO	L-SCB-Delimiter-Mode-CD		[STREAMIOcb]			
STREAMIO	L-SCB-Error-Routine-NUM		[STREAMIOcb]	479		
STREAMIO	L-SCB-Error-Routine-PTR		[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	379	[STREAMIOcb]	403		
STREAMIO	L-SCB-Function-CD	379	[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	j	100	001	
STREAMIO	L-SCB-MODE-Input-BOOL		[STREAMIOCD	j	486	527	
STREAMIO	L-SCB-MODE-Output-BOOL		[STREAMIOcb	j	529	521	
STREAMIO	L-SCB-Offset-NUM		[STREAMIOCD	j	420C	425*	551*
STIMERITO	T DOD OTIDOO HOII	019	FOITHMITTOOD	_	566C	571*	
					583*	590C	
					JUJ*	5300	002≁

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PROGRAM-ID	Identifier/Register/Function	Defn	Where Defined	References		Page: 16	
========				608C 638*	623*	629*	
STREAMIO	L-SCB-Return-CD	379	[STREAMIOcb]	384*	416*	427*	
				434*	440*	446*	
				450*	453*	457*	
				461*	464*	488*	
				534*	543*	547*	
				550*	556*	559*	
				603*	613*		
STREAMIO	L-StreamIO-Control-Block-TXT	377	LINKAGE	381			
STREAMIO	RETURN-CODE		PROCEDURE	445	449	456	
				460	542	546	
				555	564	575	
				587	612	616	
STREAMIO	WS-256-Byte-TXT	375	WORKING-STORAGE	510*	512*	522	
STREAMIO	WS-8-Digit-NUM	374	WORKING-STORAGE	496*	503	515*	
				521			
STREAMIO	WS-Access-Mode-CD	367	WORKING-STORAGE	528*	530*	532*	
				538C			
STREAMIO	WS-Arg-Length-NUM	368	WORKING-STORAGE	408*	413*	421C	
				425	564*	567C	
				571	575*	576	
				579C	583	587*	
				588	591C	596	
				599	600	602	
				604*	609C	635	
				641*	642	646*	
CERTANTO	LIG D CC TIVE	0.00	HODIZING GEODAGE	647	652	655	
STREAMIO	WS-Buffer-TXT		WORKING-STORAGE	606*	611C	4000	
STREAMIO	WS-Delim-Buffer-TXT		WORKING-STORAGE	409*	414*	423C	
STREAMIO	WS-Env-Temp-TXT	3/1	WORKING-STORAGE	467*	469	471 510	
STREAMIO	WS-Slash-CHR	270	WORKING-STORAGE	474* 470*	500 472*	518 475*	
SIREAMIU	WS-SIASH-CHR	312	WURKING-SIURAGE	501	472↑ 519	4/5*	
STREAMIO	WS-Tally-NUM	272	WORKING-STORAGE	501 595*	519 597*	598	
DITEMPTO	WD TALLY NOT	313	WOINTING-DITUNION	619*	621*	622	
				625*	627*	629	
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