

For Version 3.2 [06 March 2022 at 19:30 GMT.]

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This manual documents GnuCOBOL 3.2, 06 March 2022 at 19:30 GMT. build. Document Copyright 2009-2014 Gary L. Cutler, FSF (Free Software Foundation). Updates: Copyright 2014-2022 Vincent B. Coen, Gary L. Cutler & FSF.

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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 FileStat-Msgs.cpy copybook:

```
EVALUATE STATUS
```

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

2. COBDUMP

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

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

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

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

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

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

GNUCOBOL 3.1.2 O6MAR202 Source Listing

2022/03/06 COBDUMP.cbl

| Line | Statement | Page: 1 |
|----------|--|---------|
| 1 | >>SOURCE FORMAT IS FIXED | |
| 2 | IDENTIFICATION DIVISION. | |
| 3 | PROGRAM-ID. COBDUMP. | |
| 4 | *>************************************* | |
| 5 | *> This is an OpenCOBOL subroutine that will generate a ** | |
| 6 | *> formatted Hex/Char dump of a storage area. To use this ** | |
| 7 | *> subroutine, simply CALL it as follows: ** | |
| 8 | *> ** | |
| 9 | *> CALL "COBDUMP" USING <data-item> **</data-item> | |
| 10 | *> [<length>] **</length> | |
| 11 | *> ** | |
| 12 | <pre>*> If specified, the <length> argument specifies how many **</length></pre> | |
| 13 | *> bytes of <data-item> are to be dumped. If absent, all of **</data-item> | |
| 14 | | |
| 15 | <pre>*> be assumed for <length>).</length></pre> | |
| 16 | *> ** | |
| 17 | *> >>> Note that the subroutine name MUST be specified in <<< ** | |
| 18 | *> >>> UPPERCASE | |
| 19 20 | | |
| 21 | <pre>*> The dump is generated to STDERR, so you may pipe it to a ** *> file when you execute your program using "2> file". **</pre> | |
| 22 | | |
| 23 | | |
| 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 | *>******************* | |
| 33 | *> DATE CHANGE DESCRIPTION ** | |
| 34 | *> ===== ========= ** | |
| 35 | *> GC1071 Initial coding - Univac Dept. of Defense COBOL '68 ** | |
| 36 | *> GC0577 Converted to Univac ASCII COBOL (ACOB) - COBOL '74 ** | |
| 37 | *> GC1182 Converted to Univac UTS4000 COBOL - COBOL '74 w/ ** | |
| 38 | *> SCREEN SECTION enhancements ** | |
| 39 | *> GC0883 Converted to Honeywell/Bull COBOL - COBOL '74 ** | |
| 40 | *> GC0983 Converted to IBM VS COBOL - COBOL '74 | |
| 41 42 | | |
| 43 | *> GC1294 Converted to Micro Focus CUBUL V3.0 - CUBUL '85 w/ ** *> extensions ** | |
| 44 | | |
| 45 | *> COBOL (UCOB) - COBOL '85 ** | |
| 46 | *> GC1204 Converted to Unisys Object COBOL (OCOB) - COBOL 2002 ** | |
| 47 | *> GC0609 Converted to OpenCOBOL 1.1 - COBOL '85 w/ some COBOL ** | |
| 48 | *> 2002 features ** | |
| 49 | | |
| 50 | • | |
| 51 | *> GCO211 Ported to IBM Enterprise COBOL ** | |
| 52 | *> GC0612 Updated for OpenCOBOL 2.0 ** | |
| 53 | *> VC0322 Moved lines only with . to end of previous statement ** | |
| | | |

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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 | IRONMENT DIVISION. | | |
| 58 | | FIGURATION SECTION. | | |
| 59 | | POSITORY. | | |
| 60 | | FUNCTION ALL INTRINSIC. | | |
| 61 | | TA DIVISION. | | |
| 62 | | RKING-STORAGE SECTION. | | |
| 63 | | WS-Addr-PTR | USAGE POINTER. | |
| | | WS-Addr-NUM REDEFINES WS-Addr-PTR | OSAGE FUINTER. | |
| 64 | | ws-Addr-Non REDEFINES ws-Addr-Fir | HOAGE DINADY LONG | |
| 65 | | | USAGE BINARY-LONG. | |
| 66 | | HG All GHD | HOAGE DINARY GHAR | |
| 67 | | WS-Addr-SUB | USAGE BINARY-CHAR. | |
| 68 | | | | |
| 69 | | WS-Addr-Value-NUM | USAGE BINARY-LONG. | |
| 70 | | | | |
| 71 | | , and the second | | |
| 72 | | O5 WS-Buffer-Byte-NUM | USAGE BINARY-CHAR | |
| 73 | | | UNSIGNED. | |
| 74 | | | | |
| 75 | 01 | WS-Buffer-Length-NUM | USAGE BINARY-LONG. | |
| 76 | | | | |
| 77 | 01 | WS-Buffer-SUB | PIC 9(4) COMP-5. | |
| 78 | | | | |
| 79 | 01 | WS-Hex-Digit-TXT VALUE '0123456789A | BCDEF'. | |
| 80 | | 05 WS-Hex-Digit-CHR | OCCURS 16 TIMES | |
| 81 | | 0 | PIC X(1). | |
| 82 | | | | |
| 83 | | WS-Nibble-SUB | PIC 9(1) COMP-5. | |
| 84 | | | (-, | |
| 85 | | WS-Nibble-Left-SUB | PIC 9(1) COMP-5. | |
| 86 | | WE NIBELO HOLD BOD | 110 0(1) 0011 0. | |
| 87 | | WS-Nibble-Right-SUB | PIC 9(1) COMP-5. | |
| 88 | | MP MIDDIE HIGHT DOD | F10 9(1) COMF 5. | |
| | | MC-Ontont-Datail-TVT | | |
| 89 90 | | WS-Output-Detail-TXT. 05 WS-OD-Addr-TXT. | | |
| | | | OCCUPA O TIMES DIS | v |
| 91 | | 10 WS-OD-Addr-Hex-CHR | OCCURS 8 TIMES PIC | Α. |
| 92 | | 05 FILLER | PIC X(1). | |
| 93 | | 05 WS-OD-Relative-Byte-NUM | PIC Z(3)9. | |
| 94 | | 05 FILLER | PIC X(1). | |
| 95 | | 05 WS-OD-Hex-TXT | OCCURS 16 TIMES. | |
| 96 | | 10 WS-OD-Hex-1-CHR | PIC X. | |
| 97 | | 10 WS-OD-Hex-2-CHR | PIC X. | |
| 98 | | 10 FILLER | PIC X. | |
| 99 | | 05 WS-OD-ASCII-Data-TXT. | | |
| 100 | | 10 WS-OD-ASCII-CHR | OCCURS 16 TIMES | |
| 101 | | | PIC X. | |
| 102 | 01 | WS-Output-SUB | PIC 9(2) COMP-5. | |
| 103 | | | | |
| 104 | >>5 | SOURCE FORMAT IS FREE | | |
| 105 | 01 | WS-Output-Header-1-TXT. | | |
| 106 | | 05 VALUE '<-Addr-> Byte < | Hexadecimal '' | > < |
| | | · | | |

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GNUCOBOL 3.1.2 06MAR202 Source Listing

2022/03/06 COBDUMP.cbl

```
Line Statement
                                                                                   Page: 3
_____
  107 - Char ---->' PIC X(80).
  108
  109
            01 WS-Output-Header-2-TXT.
               05 VALUE '----- --- --- ---- ---- ----
  110
  111 ======= ' PIC X(80).
           >>SOURCE FORMAT IS FIXED
  112
  113
           LINKAGE SECTION.
  114
           01 L-Buffer-TXT
                                                    PIC X ANY LENGTH.
  115
  116
           01 L-Buffer-Length-NUM
  117
                                                    USAGE BINARY-LONG.
  118
            PROCEDURE DIVISION USING L-Buffer-TXT,
  119
  120
                                    OPTIONAL L-Buffer-Length-NUM.
  121
            000-Main SECTION.
                IF NUMBER-OF-CALL-PARAMETERS = 1
  122
  123
                    MOVE LENGTH(L-Buffer-TXT) TO WS-Buffer-Length-NUM
  124
  125
                    MOVE L-Buffer-Length-NUM TO WS-Buffer-Length-NUM
  126
                END-IF
  127
                MOVE SPACES TO WS-Output-Detail-TXT
  128
                SET WS-Addr-PTR TO ADDRESS OF L-Buffer-TXT
  129
                PERFORM 100-Generate-Address
  130
                MOVE 0 TO WS-Output-SUB
  131
                DISPLAY WS-Output-Header-1-TXT UPON SYSERR
  132
                DISPLAY WS-Output-Header-2-TXT UPON SYSERR
  133
                PERFORM VARYING WS-Buffer-SUB FROM 1 BY 1
                         UNTIL WS-Buffer-SUB > WS-Buffer-Length-NUM
  134
  135
                    ADD 1 TO WS-Output-SUB
  136
                    IF WS-Output-SUB = 1
  137
                        MOVE WS-Buffer-SUB TO WS-OD-Relative-Byte-NUM
  138
                    END-IF
  139
                    MOVE L-Buffer-TXT (WS-Buffer-SUB : 1)
  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)
  150
                      TO WS-OD-Hex-2-CHR (WS-Output-SUB)
  151
                    IF WS-Output-SUB = 16
  152
                        CALL "C$PRINTABLE" USING WS-OD-ASCII-Data-TXT
  153
                        DISPLAY WS-Output-Detail-TXT UPON SYSERR
  154
                        MOVE SPACES TO WS-Output-Detail-TXT
  155
                        MOVE 0 TO WS-Output-SUB
  156
                        SET WS-Addr-PTR UP BY 16
  157
                        PERFORM 100-Generate-Address
  158
                    END-IF
  159
                END-PERFORM
```

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GNUCOBOL 3.1.2 O6MAR202 Source Listing

2022/03/06 COBDUMP.cbl

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

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GNU COBOL 2.1 23NOV2013 Cross-Reference Listing

2014/03/27

| | | ers/tda0 | 10/Documents/Pro | grams/Samp | les/COE | BDUMP.cbl |
|------------|------------------------------|----------|--------------------|------------|---------|-----------|
| PROGRAM-ID | Identifier/Register/Function | Defn | Where Defined | | | Page: 5 |
| COBDUMP | | | PROCEDURE | | | |
| COBDUMP | 100-Generate-Address | | PROCEDURE | 124 | 152 | |
| COBDUMP | L-Buffer-Length-NUM | | LINKAGE | 115 | 120 | |
| COBDUMP | L-Buffer-TXT | | LINKAGE | 115 | 118 | 123 |
| CODDOMP | r-parier-ivi | 110 | LINKAGE | 134 | 110 | 123 |
| COBDUMP | NUMBER-OF-CALL-PARAMETERS | | PROCEDURE | 117 | | |
| COBDUMP | WS-Addr-NUM | 61 | WORKING-STORAGE | 163 | | |
| COBDUMP | WS-Addr-PTR | | WORKING-STORAGE | 61 | 123* | 151* |
| COBDUMP | WS-Addr-SUB | | WORKING-STORAGE | | 171 | 172 |
| COBDUMP | WS-Addr-Value-NUM | | WORKING-STORAGE | 163* | 165 | 166 |
| CODDOIN | WD Addi Value Non | 00 | WOILITING DIGITAGE | 167* | 100 | 100 |
| COBDUMP | WS-Buffer-Byte-CHR | 68 | WORKING-STORAGE | 136 | | |
| COBDUMP | WS-Buffer-Byte-NUM | | WORKING-STORAGE | | | |
| COBDUMP | WS-Buffer-Length-NUM | | WORKING-STORAGE | 118* | 120* | 129 |
| COBDUMP | WS-Buffer-SUB | | WORKING-STORAGE | 128* | 129 | 132 |
| OODDOIN | wb builer bob | 10 | WOILITING DIGITAGE | 134 | 125 | 102 |
| COBDUMP | WS-Hex-Digit-CHR | 76 | WORKING-STORAGE | 142 | 144 | 170 |
| COBDUMP | WS-Hex-Digit-TXT | | WORKING-STORAGE | 112 | | 110 |
| COBDUMP | WS-Nibble-Left-SUB | | WORKING-STORAGE | 138* | 140* | 142 |
| COBDUMP | WS-Nibble-Right-SUB | | WORKING-STORAGE | 139* | 141* | 144 |
| COBDUMP | WS-Nibble-SUB | | WORKING-STORAGE | 168* | 169* | 170 |
| COBDUMP | WS-OD-Addr-Hex-CHR | | WORKING-STORAGE | 171* | | |
| COBDUMP | WS-OD-Addr-TXT | | WORKING-STORAGE | | | |
| COBDUMP | WS-OD-ASCII-CHR | 96 | WORKING-STORAGE | 135* | | |
| COBDUMP | WS-OD-ASCII-Data-TXT | | 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 |
| | - | | | 135 | 143 | 145 |
| | | | | 146 | 150* | 155 |

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3. Colors

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

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

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



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

| ACS Cobo | l Xref v2.02.02 | D: | ictionary l | File for C | OLORS 0 | 7/12/2019 | 16:57:00:16 |
|----------|--------------------------------|------------|-------------|------------|------------|-----------|-------------|
| 1 | >>SOURCE | E FREE | | | | | |
| 2 | IDENTIFICATION | | | | | | |
| 3 | PROGRAM-ID. col | | | | | | |
| 4 | DATA DIVISION. | | | | | | |
| 5 | WORKING-STORAGE | E SECTION. | | | | | |
| 6 | SCREEN SECTION | | | | | | |
| 7 | 01 S-COLORTST-S | | JND-COLOR (| FOREGROU | ND-COLOR 7 | BLANK SCR | EEN. |
| 8 | 05 LINE 01. | | | | | | |
| 9 | 10 COL 1 VALUE | , LOWLIGHT | | HIGHLIGHT | LOWLIGHT | | HIGHLIGHT'. |
| 10 | 05 LINE + 1. | | | | | | |
| 11 | 10 COL 1 VALUE | , | | | | | '. |
| 12 | 05 LINE + 1. | | | | | | |
| 13 | 10 COL 1 VALUE | , | | | REVERSE | REVERSE | REVERSE'. |
| 14 | 05 LINE + 1. | | | | | | |
| 15 | 10 COL 1 VALUE | , 01234567 | 01234567 | 01234567 | 01234567 | 01234567 | 01234567'. |
| 16 | 05 LINE + 1. | | | | | | |
| 17 | 10 COL 1 VALUE | '0 | 0 | 0 | 0 | 0 | 0 '. |
| 18 | 05 LINE + 1. | | | | | | |
| 19 | 10 COL 1 VALUE | '1 | 1 | 1 | 1 | 1 | 1 '. |
| 20 | 05 LINE + 1. | | | | | | |
| 21 | 10 COL 1 VALUE | '2 | 2 | 2 | 2 | 2 | 2 '. |
| 22 | 05 LINE + 1. | | | | | | |
| 23 | 10 COL 1 VALUE | '3 1 | 3 2 | 3 3 | 3 4 | 3 5 | 3 6 '. |
| 24 | 05 LINE + 1. | | | | | | |
| 25 | 10 COL 1 VALUE | '4 | 4 | 4 | 4 | 4 | 4 '. |
| 26 | 05 LINE + 1. | | | | | | |
| 27 | 10 COL 1 VALUE | '5 | 5 | 5 | 5 | 5 | 5 '. |
| 28 | 05 LINE + 1. | | | | | | |
| 29 | 10 COL 1 VALUE | '6 | 6 | 6 | 6 | 6 | 6 '. |
| 30 | 05 LINE + 1. | | | | | | |
| 31 | 10 COL 1 VALUE | '7 | 7 | 7 | 7 | 7 | 7 '. |
| 32 | 05 LINE + 1. | | | | | | |
| 33 | 10 COL 1 VALUE | , LOWLIGHT | | HIGHLIGHT | LOWLIGHT | | HIGHLIGHT'. |
| 34 | 05 LINE + 1. | | | | | | |
| 35 | 10 COL 1 VALUE | , BLINK | BLINK | BLINK | BLINK | BLINK | BLINK'. |
| 36 | 05 LINE + 1. | | | | | | |
| 37 | 10 COL 1 VALUE | , | | | REVERSE | REVERSE | REVERSE'. |
| 38 | 05 LINE + 1. | 1 01004567 | 01004567 | 04004567 | 04004567 | 04004567 | 040045671 |
| 39 | 10 COL 1 VALUE | , 01234567 | 01234567 | 01234567 | 01234567 | 01234567 | 012345677. |
| 40 | 05 LINE + 1. | 10 | ^ | ^ | 0 | 0 | |
| 41 | 10 COL 1 VALUE | 70 | 0 | 0 | 0 | 0 | 0 '. |
| 42 | 05 LINE + 1. | 14 | 1 | 1 | 4 | 1 | 4 , |
| 43 44 | 10 COL 1 VALUE | , I | 1 | 1 | 1 | 1 | 1 '. |
| | 05 LINE + 1. | , 0 | 0 | 0 | 0 | 0 | o , |
| 45 46 | 10 COL 1 VALUE 05 LINE + 1. | ۷ | 2 | 2 | 2 | 2 | 2 '. |
| 46 47 | 10 COL 1 VALUE | '3 7 | 3 8 | 3 9 | 3 10 | 3 11 | 3 12 '. |
| 48 | 05 LINE + 1. | 5 1 | 5 0 | 5 3 | 5 10 | 0 11 | 0 12 . |
| 49 | 10 COL 1 VALUE | ,4 | 4 | 4 | 4 | 4 | 4 '. |
| 50 | 05 LINE + 1. | • | • | • | 1 | • | |
| 51 | 10 COL 1 VALUE | '5 | 5 | 5 | 5 | 5 | 5 '. |
| 52 | 05 LINE + 1. | • | - | - | • | - | • |
| 53 | 10 COL 1 VALUE | '6 | 6 | 6 | 6 | 6 | 6 '. |
| | | - | - | - | - | - | - |

54 05 LINE + 1.

```
ACS Cobol Xref v2.02.02
                                Dictionary File for COLORS
                                                              07/12/2019 16:57:00:16
        10 COL 1 VALUE '7
                                7
                                                                                    ٠.
   56
        *> #1
   57
        05 LINE 05.
        10 COL 2 BACKGROUND-COLOR O FOREGROUND-COLOR O LOWLIGHT VALUE 'X'.
   58
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 LOWLIGHT VALUE 'X'.
        05 LINE + 1.
        10 COL 2 BACKGROUND-COLOR 1 FOREGROUND-COLOR 0 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 1 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 LOWLIGHT VALUE 'X'.
   74
   75
        05 LINE + 1.
   76
        10 COL 2 BACKGROUND-COLOR 2 FOREGROUND-COLOR 0 LOWLIGHT VALUE 'X'.
   77
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 LOWLIGHT VALUE 'X'.
   78
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 LOWLIGHT VALUE 'X'.
   79
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 LOWLIGHT VALUE 'X'.
   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'.
   82
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 LOWLIGHT VALUE 'X'.
   83
   84
        05 LINE + 1.
   85
        10 COL 2 BACKGROUND-COLOR 3 FOREGROUND-COLOR 0 LOWLIGHT VALUE 'X'.
   86
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 LOWLIGHT VALUE 'X'.
   87
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 LOWLIGHT VALUE 'X'.
        05 LINE + 1.
        10 COL 2 BACKGROUND-COLOR 4 FOREGROUND-COLOR 0 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 LOWLIGHT VALUE 'X'.
   100
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 LOWLIGHT VALUE 'X'.
   101
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 LOWLIGHT VALUE 'X'.
   102
        05 LINE + 1.
        10 COL 2 BACKGROUND-COLOR 5 FOREGROUND-COLOR 0 LOWLIGHT VALUE 'X'.
   103
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 LOWLIGHT VALUE 'X'.
   104
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 LOWLIGHT VALUE 'X'.
   105
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 LOWLIGHT VALUE 'X'.
   106
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 LOWLIGHT VALUE 'X'.
   107
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 LOWLIGHT VALUE 'X'.
   108
```

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ACS Cobol Xref v2.02.02
                                Dictionary File for COLORS
                                                               07/12/2019 16:57:00:17
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 6 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 LOWLIGHT VALUE 'X'.
   110
   111
        05 LINE + 1.
   112
        10 COL 2 BACKGROUND-COLOR 6 FOREGROUND-COLOR 0 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 LOWLIGHT VALUE 'X'.
   113
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 LOWLIGHT VALUE 'X'.
   114
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 LOWLIGHT VALUE 'X'.
   115
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 LOWLIGHT VALUE 'X'.
   116
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 LOWLIGHT VALUE 'X'.
   117
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 LOWLIGHT VALUE 'X'.
   118
   119
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 LOWLIGHT VALUE 'X'.
   120
        05 LINE + 1.
   121
        10 COL 2 BACKGROUND-COLOR 7 FOREGROUND-COLOR 0 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 1 LOWLIGHT VALUE 'X'.
   122
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 6 LOWLIGHT VALUE 'X'.
   128
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 LOWLIGHT VALUE 'X'.
   129
        *> #2
   130
        05 LINE 05.
   131
        10 COL 12 BACKGROUND-COLOR O FOREGROUND-COLOR O VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 0 FOREGROUND-COLOR 1 VALUE 'X'.
   132
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 VALUE 'X'.
   133
        10 COL + 1 BACKGROUND-COLOR 0 FOREGROUND-COLOR 3 VALUE 'X'.
   134
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 VALUE 'X'.
   135
   136
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 0 FOREGROUND-COLOR 6 VALUE 'X'.
   137
        10 COL + 1 BACKGROUND-COLOR 0 FOREGROUND-COLOR 7 VALUE 'X'.
   138
   139
        05 LINE + 1.
   140
        10 COL 12 BACKGROUND-COLOR 1 FOREGROUND-COLOR 0 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 1 VALUE 'X'.
   141
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 VALUE 'X'.
   142
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 VALUE 'X'.
   143
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 VALUE 'X'.
   146
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 VALUE 'X'.
   147
   148
        05 LINE + 1.
   149
        10 COL 12 BACKGROUND-COLOR 2 FOREGROUND-COLOR 0 VALUE 'X'.
   150
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 VALUE 'X'.
   151
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 VALUE 'X'.
   152
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 VALUE 'X'.
   153
   154
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 5 VALUE 'X'.
   155
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 VALUE 'X'.
   156
   157
        05 LINE + 1.
        10 COL 12 BACKGROUND-COLOR 3 FOREGROUND-COLOR 0 VALUE 'X'.
   158
   159
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 VALUE 'X'.
   160
   161
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 VALUE 'X'.
   162
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 VALUE 'X'.
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ACS Cobol Xref v2.02.02
                                Dictionary File for COLORS
                                                              07/12/2019 16:57:00:17
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 VALUE 'X'.
   164
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 VALUE 'X'.
   165
   166
        05 LINE + 1.
   167
        10 COL 12 BACKGROUND-COLOR 4 FOREGROUND-COLOR 0 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 VALUE 'X'.
   168
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 VALUE 'X'.
   169
   170
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 VALUE 'X'.
   171
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 VALUE 'X'.
   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.
        10 COL 12 BACKGROUND-COLOR 5 FOREGROUND-COLOR 0 VALUE 'X'.
   176
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 VALUE 'X'.
   181
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 VALUE 'X'.
   182
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 6 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 VALUE 'X'.
   183
   184
        05 LINE + 1.
   185
        10 COL 12 BACKGROUND-COLOR 6 FOREGROUND-COLOR 0 VALUE 'X'.
   186
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 VALUE 'X'.
   187
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 VALUE 'X'.
   188
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 VALUE 'X'.
   189
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 VALUE 'X'.
   190
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 VALUE 'X'.
   191
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 VALUE 'X'.
   192
   193
        05 LINE + 1.
   194
        10 COL 12 BACKGROUND-COLOR 7 FOREGROUND-COLOR 0 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 1 VALUE 'X'.
   195
   196
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 VALUE 'X'.
   197
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 VALUE 'X'.
   198
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 VALUE 'X'.
   199
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 6 VALUE 'X'.
   200
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 VALUE 'X'.
   201
   202
   203
        05 LINE 05.
   204
        10 COL 22 BACKGROUND-COLOR O FOREGROUND-COLOR O HIGHLIGHT VALUE 'X'.
   205
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 HIGHLIGHT VALUE 'X'.
   206
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 HIGHLIGHT VALUE 'X'.
   207
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 HIGHLIGHT VALUE 'X'.
   208
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 HIGHLIGHT VALUE 'X'.
   209
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 HIGHLIGHT VALUE 'X'.
  210
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 HIGHLIGHT VALUE 'X'.
  211
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 HIGHLIGHT VALUE 'X'.
  212
        05 LINE + 1.
  213
        10 COL 22 BACKGROUND-COLOR 1 FOREGROUND-COLOR O HIGHLIGHT VALUE 'X'.
  214
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 1 HIGHLIGHT VALUE 'X'.
  215
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 HIGHLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 HIGHLIGHT VALUE 'X'.
  216
```

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ACS Cobol Xref v2.02.02
                                 Dictionary File for COLORS
                                                               07/12/2019 16:57:00:17
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 HIGHLIGHT VALUE 'X'.
   218
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 HIGHLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 HIGHLIGHT VALUE 'X'.
   219
   220
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 HIGHLIGHT VALUE 'X'.
   221
        05 LINE + 1.
        10 COL 22 BACKGROUND-COLOR 2 FOREGROUND-COLOR 0 HIGHLIGHT VALUE 'X'.
   222
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 HIGHLIGHT VALUE 'X'.
   223
   224
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 HIGHLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 HIGHLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 HIGHLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 5 HIGHLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 HIGHLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 HIGHLIGHT VALUE 'X'.
        10 COL 22 BACKGROUND-COLOR 3 FOREGROUND-COLOR O HIGHLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 HIGHLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 HIGHLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 HIGHLIGHT VALUE 'X'.
   235
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 HIGHLIGHT VALUE 'X'.
   236
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 HIGHLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 HIGHLIGHT VALUE 'X'.
   237
   238
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 HIGHLIGHT VALUE 'X'.
   239
        05 LINE + 1.
        10 COL 22 BACKGROUND-COLOR 4 FOREGROUND-COLOR 0 HIGHLIGHT VALUE 'X'.
   240
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 HIGHLIGHT VALUE 'X'.
   241
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 HIGHLIGHT VALUE 'X'.
   242
   243
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 HIGHLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 HIGHLIGHT VALUE 'X'.
   244
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 HIGHLIGHT VALUE 'X'.
   245
   246
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 HIGHLIGHT VALUE 'X'.
   247
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 HIGHLIGHT VALUE 'X'.
   248
        05 LINE + 1.
   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'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 HIGHLIGHT VALUE 'X'.
   255
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 6 HIGHLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 HIGHLIGHT VALUE 'X'.
   256
   257
        05 LINE + 1.
   258
        10 COL 22 BACKGROUND-COLOR 6 FOREGROUND-COLOR 0 HIGHLIGHT VALUE 'X'.
   259
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 HIGHLIGHT VALUE
   260
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 HIGHLIGHT VALUE
   261
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 HIGHLIGHT VALUE
   262
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 HIGHLIGHT VALUE
   263
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 HIGHLIGHT VALUE 'X'.
   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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ACS Cobol Xref v2.02.02
                                Dictionary File for COLORS 07/12/2019 16:57:00:18
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 HIGHLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 HIGHLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 6 HIGHLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 HIGHLIGHT VALUE 'X'.
   275
        *> #4
   276
        05 LINE 05.
        10 COL 32 BACKGROUND-COLOR O FOREGROUND-COLOR O LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   277
   278
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        05 LINE + 1.
        10 COL 32 BACKGROUND-COLOR 1 FOREGROUND-COLOR O LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 1 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   289
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   290
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   291
   292
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   293
   294
        05 LINE + 1.
   295
        10 COL 32 BACKGROUND-COLOR 2 FOREGROUND-COLOR 0 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'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   298
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   299
   300
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 5 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   301
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   302
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   303
        05 LINE + 1.
   304
        10 COL 32 BACKGROUND-COLOR 3 FOREGROUND-COLOR 0 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   305
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   306
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   311
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL 32 BACKGROUND-COLOR 4 FOREGROUND-COLOR 0 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   318
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   319
   320
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   321
        05 LINE + 1.
   322
        10 COL 32 BACKGROUND-COLOR 5 FOREGROUND-COLOR 0 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   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'.
   324
```

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

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

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

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ACS Cobol Xref v2.02.02
                                Dictionary File for COLORS
                                                            07/12/2019 16:57:00:19
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 1 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   489
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   490
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   491
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 6 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   492
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   493
   494
        *> #7
   495
        05 LINE 17.
        10 COL 02 BACKGROUND-COLOR O FOREGROUND-COLOR O LOWLIGHT BLINK VALUE 'X'.
   496
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 LOWLIGHT BLINK VALUE 'X'.
   505
        10 COL 02 BACKGROUND-COLOR 1 FOREGROUND-COLOR 0 LOWLIGHT BLINK VALUE 'X'.
   506
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 1 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 LOWLIGHT BLINK VALUE 'X'.
   507
   508
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 LOWLIGHT BLINK VALUE 'X'.
   509
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 LOWLIGHT BLINK VALUE 'X'.
   510
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 LOWLIGHT BLINK VALUE 'X'.
   511
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 LOWLIGHT BLINK VALUE 'X'.
   512
        05 LINE + 1.
   513
        10 COL 02 BACKGROUND-COLOR 2 FOREGROUND-COLOR 0 LOWLIGHT BLINK VALUE 'X'.
   514
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 LOWLIGHT BLINK VALUE 'X'.
   515
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 LOWLIGHT BLINK VALUE 'X'.
   516
   517
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 LOWLIGHT BLINK VALUE 'X'.
   518
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 LOWLIGHT BLINK VALUE 'X'.
   519
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 5 LOWLIGHT BLINK VALUE 'X'.
   520
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 LOWLIGHT BLINK VALUE 'X'.
   521
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 LOWLIGHT BLINK VALUE 'X'.
   522
        05 LINE + 1.
   523
        10 COL 02 BACKGROUND-COLOR 3 FOREGROUND-COLOR 0 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 LOWLIGHT BLINK VALUE 'X'.
   525
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 LOWLIGHT BLINK VALUE 'X'.
   526
   527
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 LOWLIGHT BLINK VALUE 'X'.
   529
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 LOWLIGHT BLINK VALUE 'X'.
   530
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 LOWLIGHT BLINK VALUE 'X'.
   531
        05 LINE + 1.
   532
        10 COL O2 BACKGROUND-COLOR 4 FOREGROUND-COLOR O LOWLIGHT BLINK VALUE 'X'.
   533
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 LOWLIGHT BLINK VALUE 'X'.
  534
  535
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 LOWLIGHT BLINK VALUE 'X'.
  536
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 LOWLIGHT BLINK VALUE 'X'.
  537
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 LOWLIGHT BLINK VALUE 'X'.
  538
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 LOWLIGHT BLINK VALUE 'X'.
  539
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 LOWLIGHT BLINK VALUE 'X'.
        05 LINE + 1.
   540
```

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

```
ACS Cobol Xref v2.02.02
                                Dictionary File for COLORS
                                                            07/12/2019 16:57:00:19
   595
        05 LINE + 1.
   596
        10 COL 12 BACKGROUND-COLOR 3 FOREGROUND-COLOR 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
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 BLINK VALUE 'X'.
   599
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 BLINK VALUE 'X'.
   600
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 BLINK VALUE 'X'.
   601
   602
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 BLINK VALUE 'X'.
        05 LINE + 1.
        10 COL 12 BACKGROUND-COLOR 4 FOREGROUND-COLOR 0 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 BLINK VALUE 'X'.
   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'.
   615
   616
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 BLINK VALUE 'X'.
   617
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 BLINK VALUE 'X'.
   618
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 BLINK VALUE 'X'.
   619
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 6 BLINK VALUE 'X'.
   620
   621
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 BLINK VALUE 'X'.
   622
        05 LINE + 1.
        10 COL 12 BACKGROUND-COLOR 6 FOREGROUND-COLOR 0 BLINK VALUE 'X'.
   623
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 BLINK VALUE 'X'.
   624
   625
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 BLINK VALUE 'X'.
   626
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 BLINK VALUE 'X'.
   627
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 BLINK VALUE 'X'.
   628
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 BLINK VALUE 'X'.
   629
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 BLINK VALUE 'X'.
   630
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 BLINK VALUE 'X'.
   631
        05 LINE + 1.
        10 COL 12 BACKGROUND-COLOR 7 FOREGROUND-COLOR 0 BLINK VALUE 'X'.
   632
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 1 BLINK VALUE 'X'.
   633
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 BLINK VALUE 'X'.
   635
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 BLINK VALUE 'X'.
   637
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 BLINK VALUE 'X'.
   638
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 6 BLINK VALUE 'X'.
   639
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 BLINK VALUE 'X'.
   640
        *> #9
   641
        05 LINE 17.
        10 COL 22 BACKGROUND-COLOR O FOREGROUND-COLOR O HIGHLIGHT BLINK VALUE 'X'.
   642
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 HIGHLIGHT BLINK VALUE 'X'.
   643
        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'.
   647
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 HIGHLIGHT BLINK VALUE 'X'.
   648
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 HIGHLIGHT BLINK VALUE 'X'.
```

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

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

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

```
ACS Cobol Xref v2.02.02
                                Dictionary File for COLORS
                                                              07/12/2019 16:57:00:21
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 5 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 BLINK REVERSE-VIDEO VALUE 'X'.
  814
        05 LINE + 1.
        10 COL 42 BACKGROUND-COLOR 3 FOREGROUND-COLOR 0 BLINK REVERSE-VIDEO VALUE 'X'.
  815
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 BLINK REVERSE-VIDEO VALUE 'X'.
  816
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 BLINK REVERSE-VIDEO VALUE 'X'.
  818
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 BLINK REVERSE-VIDEO VALUE 'X'.
        05 LINE + 1.
        10 COL 42 BACKGROUND-COLOR 4 FOREGROUND-COLOR O BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 BLINK REVERSE-VIDEO VALUE 'X'.
  829
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 BLINK REVERSE-VIDEO VALUE 'X'.
  830
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 BLINK REVERSE-VIDEO VALUE 'X'.
  831
  832
  833
        10 COL 42 BACKGROUND-COLOR 5 FOREGROUND-COLOR 0 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 BLINK REVERSE-VIDEO VALUE 'X'.
  834
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 BLINK REVERSE-VIDEO VALUE 'X'.
  835
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 BLINK REVERSE-VIDEO VALUE 'X'.
  836
  837
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 BLINK REVERSE-VIDEO VALUE 'X'.
   838
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 6 BLINK REVERSE-VIDEO VALUE 'X'.
  839
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 BLINK REVERSE-VIDEO VALUE 'X'.
  840
  841
        05 LINE + 1.
  842
        10 COL 42 BACKGROUND-COLOR 6 FOREGROUND-COLOR 0 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 BLINK REVERSE-VIDEO VALUE 'X'.
  843
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 BLINK REVERSE-VIDEO VALUE 'X'.
  844
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 BLINK REVERSE-VIDEO VALUE 'X'.
  846
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 BLINK REVERSE-VIDEO VALUE 'X'.
   849
  851
        10 COL 42 BACKGROUND-COLOR 7 FOREGROUND-COLOR 0 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 1 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 BLINK REVERSE-VIDEO VALUE 'X'.
  854
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 BLINK REVERSE-VIDEO VALUE 'X'.
  855
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 BLINK REVERSE-VIDEO VALUE 'X'.
  856
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 BLINK REVERSE-VIDEO VALUE 'X'.
  857
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 6 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 BLINK REVERSE-VIDEO VALUE 'X'.
  858
  859
        *> #12
  860
        05 LINE 17.
  861
        10 COL 52 BACKGROUND-COLOR O FOREGROUND-COLOR O HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  862
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  863
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  864
```

```
ACS Cobol Xref v2.02.02
                                 Dictionary File for COLORS
                                                               07/12/2019 16:57:00:21
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  868
  869
        05 LINE + 1.
        10 COL 52 BACKGROUND-COLOR 1 FOREGROUND-COLOR O HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  870
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 1 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL 52 BACKGROUND-COLOR 2 FOREGROUND-COLOR 0 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   883
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 5 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   884
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   885
   886
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   887
         05 LINE + 1.
        10 COL 52 BACKGROUND-COLOR 3 FOREGROUND-COLOR 0 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   888
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   889
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   890
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   891
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   892
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  893
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   894
  895
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   896
        05 LINE + 1.
        10 COL 52 BACKGROUND-COLOR 4 FOREGROUND-COLOR O HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  897
   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'.
   900
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   901
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   905
        05 LINE + 1.
   906
        10 COL 52 BACKGROUND-COLOR 5 FOREGROUND-COLOR 0 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   908
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  909
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  910
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  911
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  912
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 6 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  913
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  914
        05 LINE + 1.
  915
        10 COL 52 BACKGROUND-COLOR 6 FOREGROUND-COLOR O HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  916
  917
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  918
```

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

Procedure Defn Locations

None

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

Unreferenced Working Storage Symbols

None

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

Unreferenced Procedures

None

4. DAY-FROM-DATE

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

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

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

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

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

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

GNU COBOL 2.1 23NOV2013 Source Listing

2014/03/27

C:/Users/tda010/Documents/Programs/Samples/DAY-FROM-DATE.cbl Line Statement _____ >>SOURCE FORMAT IS FIXED IDENTIFICATION DIVISION. FUNCTION-ID. DAY-FROM-DATE. 4 *>********************* *> This GNU COBOL user-defined function converts a Gregorian or ** 5 6 7 8 *> Arguments: 9 ** *> Calendar-Date A PIC 9 data item or numeric literal which ** 10 will be treated as a calendar date as fol- ** 11 *> 12 *> ** 13 *> 7-digit value: Interpreted as a Julian date ** 14 *> in the form yyyyddd 15 *> 8-digit value: Interpreted as a Gregorian 16 *> 17 date in the form yyyymmdd ** 19 *> The result returned will be one of the following: 20 *> 0: The supplied date is invalid *> 1: The supplied date is a Sunday 23 *> 2: The supplied date is a Monday ** 24 ***>** . ** 25 ***>** . 26 ***>** . 27 *> 7: The supplied date is a Saturday *>******************* 28 ENVIRONMENT DIVISION. 29 CONFIGURATION SECTION. 30 REPOSITORY. 31 FUNCTION ALL INTRINSIC. 32 33 DATA DIVISION. 34 WORKING-STORAGE SECTION. ws-Inpu 05 Ws-II 05 Ws-ID 05 Ws-ID 01 Ws-Y-NUM 01 Ws-M-NIP 01 WS-Input-Date-DT.

05 WS-ID-YYYY-NIM 35 PIC 9(4). PIC 9(2). 05 WS-ID-YYYY-NUM 36 05 WS-ID-MM-NUM 37 05 WS-ID-DD-NUM PIC 9(2). 38 39 BINARY-LONG. 40 BINARY-LONG. 01 WS-Temp-NUM 41 BINARY-LONG. LINKAGE SECTION. 42 43 01 L-Input-Date-DT PIC 9 ANY LENGTH. 01 L-Output-Day-NUM USAGE BINARY-LONG 44 SIGNED. 45 PROCEDURE DIVISION USING L-Input-Date-DT 46 47 RETURNING L-Output-Day-NUM. 48 000-Main SECTION. CALL "C\$PARAMSIZE" USING 1

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Page: 1

GNU COBOL 2.1 23NOV2013 Source Listing

C:/Users/tda010/Documents/Programs/Samples/DAY-FROM-DATE.cbl Line Statement Page: 2 _____ EVALUATE RETURN-CODE WHEN 7 51 52 IF TEST-DAY-YYYYDDD(L-Input-Date-DT) > 0 53 MOVE O TO L-Output-Day-NUM 54 GOBACK 55 END-IF 56 MOVE DATE-OF-INTEGER(INTEGER-OF-DAY(L-Input-Date-DT)) 57 TO WS-Input-Date-DT 58 WHEN 8 59 IF TEST-DATE-YYYYMMDD(L-Input-Date-DT) > 0 60 MOVE 0 TO L-Output-Day-NUM 61 GOBACK 62 END-IF MOVE L-Input-Date-DT TO WS-Input-Date-DT 63 64 WHEN OTHER MOVE O TO L-Output-Day-NUM 65 66 GOBACK 67 END-EVALUATE 68 *> IF january OR february 69 *> y = year - 1 70 *> m = month + 10 71 *> ELSE 72 *> y = year 73 *> m = month - 2 74 *> END-IF 75 *> For Gregorian calendar: 76 result = $(day + y + y/4 - y/100 + y/400 + (31*m)/12) \mod 7$ 77 *> (All divisions are integer divisions, discarding any remainder) 78 IF WS-ID-MM-NUM = 1 OR 279 SUBTRACT 1 FROM WS-ID-YYYY-NUM GIVING WS-Y-NUM 80 ADD WS-ID-MM-NUM, 10 GIVING WS-M-NUM ELSE 81 82 MOVE WS-ID-YYYY-NUM TO WS-Y-NUM 83 SUBTRACT 2 FROM WS-ID-MM-NUM GIVING WS-M-NUM END-IF 84 85 COMPUTE L-Output-Day-NUM = 86 WS-ID-DD-NUM 87 + 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) + INTEGER((31*WS-M-NUM)/12 DIVIDE L-Output-Day-NUM BY 7 92 93 GIVING WS-Temp-NUM REMAINDER L-Output-Day-NUM ADD 1 TO L-Output-Day-NUM 96 GOBACK 97

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Page: 2

GNU COBOL 2.1 23NOV2013 Cross-Reference Listing

2014/03/27

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

.....

5. GCic

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

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

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

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

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

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

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

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



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

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

```
ACS Cobol Xref v2.02.04
                             Dictionary File for GCIC
                                                       06/03/2022 23:09:10:96 Page
   55 GCO712 >>DEFINE CONSTANT F4 AS 0 *> Execute If Compilation OK
   56 GC1213 >> DEFINE CONSTANT F5 AS 0 *> Listings
   57 GCO712 >> DEFINE CONSTANT F6 AS 1 *> "FUNCTION" Is Optional
   58 GCO712 >> DEFINE CONSTANT F7 AS 1 *> Enable All Warnings
   59 GCO712 >>DEFINE CONSTANT F8 AS 1 *> Source Is Free-Format
   60 GC0712 >> DEFINE CONSTANT F9 AS 1 *> No COMP/BINARY Truncation
   61 GCO712 >> DEFINE CONSTANT F12 AS 4 *> Default config file (1-7):
                                        1 = BS2000
   62
            *>
   63
                                        2 = COBOL85
            *>
   64
                                        3 = COBOL2002
            *>
   65
                                        4 = DEFAULT
            *>
   66
            *>
                                        5 = IBM
   67
            *>
                                        6 = MF (i.e. Microfocus)
   68
            *>
                                        7 = MVS
   69
            /
   70
            IDENTIFICATION DIVISION.
   71
            PROGRAM-ID. GCic.
   72
            73
                  >NOTE< >NOTE< >NOTE< >NOTE< >NOTE<
   74
   75
            *> If this program is compiled with '-fdebugging-line', you
   76
            *> will need to pipe SYSERR to a text file when executing GCic **
   77
            *> (by adding the text '2> filename' to the end of the GCic
   78
            *> command). You may also need to press the ENTER key when
   79
            *> GCic is finished.
            *>********************
   80
            *> This program provides a Textual User Interface (TUI) to the **
   81
   82
            *> process of compiling and (optionally) executing a GNU COBOL **
   83
            *> program.
   84
            *>
                                                                      **
   85
            *> This programs execution syntax is as follows:
                                                                      **
   86
            *>
                                                                      **
   87
            *> GCic cprogram-path-and-filename> [ <switch>... ]
                                                                      **
   88
            *>
                                                                      **
   89
            *> Once executed, a display screen will be presented showing
                                                                      **
            *> the compilation options that will be used. The user will
   90
                                                                      **
   91
            *> have the opportunity to change options, specify new ones
                                                                      **
   92
            *> and specify any program execution arguments to be used if
                                                                      **
   93
            *> you select the 'Execute' option. When you press the Enter
   94
            *> key the program will be compiled.
                                                                      **
   95
            *>
                                                                      **
   96
            *> The SCREEN SECTION contains an image of the screen.
   97
            *>
   98
            *> The '010-Parse-Args' section in the PROCEDURE DIVISION has
   99
            *> documentation on switches and their function.
            100
  101
            *>
  102
                           GARY L. CUTLER
                           Copyright (C) 2009-2018, Gary L. Cutler, GPL
  103
            *>
            *> Updated by Vincent B Coen, 2018-2020+.
  104
                                                                      **
  105
            *>
                                                                      **
  106
            *> DATE-WRITTEN: June 14, 2009
                                                                      **
  107
            *>
                                                                      **
  108
            *>************************************
```

| ACS Cobol | Xref v | 2.02.04 | Dictionary File for GCIC 06/03/2022 23: | 09:10:96 | Page | 3 |
|------------|----------|---------|--|----------|------|---|
| 109 | *> | DATE | CHANGE DESCRIPTION | ** | | |
| 110 | *> | | | ** | | |
| 111 | *> | GC0609 | Don't display compiler messages file if compilation | ** | | |
| 112 | *> | GLC | Is successful. Also don't display messages if the | ** | | |
| 113 | *> | | output file is busy (just put a message on the | ** | | |
| 114 | *> | | screen, leave the OC screen up & let the user fix | ** | | |
| 115 | *> | | the problem & resubmit. | ** | | |
| 116 | *> | GC0709 | When 'EXECUTE' is selected, a 'FILE BUSY' error will | ** | | |
| 117 | *> | CLC | still cause the (old) executable to be launched. | ** | | |
| 118 | *> | | Also, the 'EXTRA SWITCHES' field is being ignored. | ** | | |
| 119 | *> | | Changed the title bar to lowlighted reverse video & | ** | | |
| 120 | *> | | the message area to highlighted reverse-video. | ** | | |
| 121 | *> | GC0809 | Add a SPACE in front of command-line args when | ** | | |
| 122 | *> | GLC | executing users program. Add a SPACE after the | ** | | |
| 123 | *> | | -ftraceall switch when building cobc command. | ** | | |
| 124 | *> | GC0909 | Convert to work on Cygwin/Linux as well as MinGW | ** | | |
| 125 | *> | GC0310 | Virtualized the key codes for S-F1 thru S-F7 as they | ** | | |
| 126 | *> | GLC | differ depending upon whether PDCurses or NCurses is | ** | | |
| 127 | *> | | being used. | ** | | |
| 128 | *> | | Introduced the cross-reference and source listing | ** | | |
| 129 | *> | GLC | features. Also fixed a bug in EXTRA switch proces- | ** | | |
| 130 | *> | | sing where garbage will result if more than the | ** | | |
| 131 | *> | ~~ | EXTRA switch is specified. | ** | | |
| 132 | | | Corrected several problems reported by Vince Coen: | ** | | |
| 133 | *> | GLC | 1) Listing/Xref wouldn't work if '-I' additional | ** | | |
| 134 | *> | | cobc switch specified. | ** | | |
| 135 | *> | | 2) Programs coded with lowercase reserved words did | ** | | |
| 136 | *> | | not get parsed properly when generating listing | ** | | |
| 137 | *> | | and/or xref reports. | ** | | |
| 138 | *> | | 3) Reliance on a TEMP environment variable caused | ** | | |
| 139 140 | *> *> | | non-recoverable errors when generating listing | ** | | |
| 141 | *> | | and/or xref reports in a session that lacks a TEMP variable. | ** | | |
| 142 | *> | | As a result of this change, GCic no longer runs a | ** | | |
| 143 | *> | | second 'cobc' when generating listing and/or xref | ** | | |
| 144 | *> | | reports. A '-save-temps' (without '=dir') specified | | | |
| 145 | *> | | in the EXTRA options field will be ignored. A | ** | | |
| 146 | *> | | '-save-temps=dir' specified in the EXTRA options | ** | | |
| 147 | *> | | field will negate both the XREF and SOURCE opts, | ** | | |
| 148 | *> | | if specified. | ** | | |
| 149 | *> | GC0711 | Tailored for 29APR2011 version of GNU COBOL 2.0 | ** | | |
| 150 | | | 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 | ** | | |
| 154 | *> | | environments having only F1-F12 (like 'terminal' in | ** | | |
| 155 | *> | | OSX); Fully tested under OSX (required a few altera- | ** | | |
| 156 | *> | | tions); Expanded both extra-options and runtime- | ** | | |
| 157 | *> | | arguments areas to TWO lines (152 chars total) each; | ** | | |
| 158 | *> | | Added support for MF/IBM/BS2000 listing-control | ** | | |
| 159 | *> | | directives EJECT, SKIP1, SKIP2, SKIP3 (any of these in | ** | | |
| 160 | *> | | copybooks will be ignored) | ** | | |
| 161 | *> | GC0313 | Expand the source code record from 80 chars to 256 | ** | | |
| 162 | *> | GLC | to facilitate looking for "LINKAGE SECTION" in a | ** | | |

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

```
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                               Dictionary File for GCIC
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                                                                                           5
           License as published by the Free Software Foundation, either
           version 3 of the License, or (at your option) any later
  218 *>
  219 *>
           version.
  220 *>
  221 *>
           GnuCOBOL is distributed in the hope that it will be useful,
           but WITHOUT ANY WARRANTY; without even the implied warranty of
  222 *>
           MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
  223 *>
  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 *>
  232 78 cob-color-black
                               value 0.
  233 78 COB-COLOR-BLUE
                               VALUE 1.
  234 78 COB-COLOR-GREEN
                               VALUE 2.
  235 78 COB-COLOR-CYAN
                               VALUE 3.
  236
       78 COB-COLOR-RED
                               VALUE 4.
  237
        78 COB-COLOR-MAGENTA VALUE 5.
  238
        78 COB-COLOR-YELLOW
                               VALUE 6.
  239
       78 COB-COLOR-WHITE
                               VALUE 7.
  240 *>
  241 *> Values that may be returned in CRT STATUS (or COB-CRT-STATUS)
  242 *> Normal return - Value 0000
  243
       78 COB-SCR-OK
                               VALUE O.
  244 *> Function keys - Values 1xxx
  245 78 COB-SCR-F1
                         VALUE 1001.
  246
       78 COB-SCR-F2
                               VALUE 1002.
  247
        78 COB-SCR-F3
                              VALUE 1003.
        78 COB-SCR-F4
  248
                              VALUE 1004.
        78 COB-SCR-F5
                              VALUE 1005.
  249
       78 COB-SCR-F6
                              VALUE 1006.
  250
  251
        78 COB-SCR-F7
                              VALUE 1007.
  252
       78 COB-SCR-F8
                              VALUE 1008.
  253
        78 COB-SCR-F9
                              VALUE 1009.
  254
        78 COB-SCR-F10
                               VALUE 1010.
  255
        78 COB-SCR-F11
                               VALUE 1011.
  256
        78 COB-SCR-F12
                               VALUE 1012.
  257
        78 COB-SCR-F13
                               VALUE 1013.
  258
        78 COB-SCR-F14
                               VALUE 1014.
  259
        78 COB-SCR-F15
                               VALUE 1015.
  260
                               VALUE 1016.
        78 COB-SCR-F16
  261
                               VALUE 1017.
        78 COB-SCR-F17
  262
                               VALUE 1018.
        78 COB-SCR-F18
  263
        78 COB-SCR-F19
                               VALUE 1019.
  264
        78 COB-SCR-F20
                               VALUE 1020.
  265
        78 COB-SCR-F21
                               VALUE 1021.
  266
        78 COB-SCR-F22
                               VALUE 1022.
  267
        78 COB-SCR-F23
                               VALUE 1023.
                               VALUE 1024.
  268
        78 COB-SCR-F24
  269
        78 COB-SCR-F25
                              VALUE 1025.
  270
        78 COB-SCR-F26
                               VALUE 1026.
```

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

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

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

342 GC0712 05 WS-CS-Filenames-TXT.

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

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

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

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

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

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

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

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

351 GC0712 10 WS-CS-Filename-TXT OCCURS 7 TIMES

352 GC0712 PIC X(9).
                             10 WS-CS-Arg-H1-TXT
10 WS-CS-Arg-H2-TXT
    340 GC0712
                                                                                           PIC X(76).
    352 GC0712
                                                                                           PIC X(9).
    353 GC0712 >>IF F12 < 1
    354 GC0712 05 WS-CS-Config-NUM VALUE 4
                                                                                           PIC 9(1).
    355 GC0712 >>ELIF F12 > 7
    356 GC0712 05 WS-CS-Config-NUM VALUE 4
                                                                                           PIC 9(1).
    357 GC0712 >>ELSE
    358 GC0712 05 WS-CS-Config-NUM VALUE F12
                                                                                           PIC 9(1).
    359 GC0712 >>END-IF
   360 GC0712 05 WS-CS-Extra-TXT VALUE SPACES.
361 GC0712 10 WS-CS-Extra-H1-TXT
362 GC0712 10 WS-CS-Extra-H2-TXT
363 GC0712 05 WS-CS-Switch-Defaults-TXT.
364 GC0712 10 VALUE F1
365 GC0712 10 VALUE F4
366 GC0712 10 VALUE F8
367 GC0712 10 VALUE F3
368 GC0712 10 VALUE F5
369 GC0712 10 VALUE F5
370 GC0712 10 VALUE F6
370 GC0712 10 VALUE F9
371 GC0712 10 VALUE F9
371 GC0712 10 VALUE F7
373 GC0712 10 VALUE F7
373 GC0712 10 VALUE F7
374 GC0712 WS-CS-All-Switches-TXT REDEFINES
374 GC0712 WS-CS-Swit
    360 GC0712 05 WS-CS-Extra-TXT VALUE SPACES.
                                                                                           PIC X(76).
                                                                                           PIC X(76).
                                                                                           PIC 9(1). *> WS-CS-DEBUG-CHR
                                                                                           PIC 9(1). *> WS-CS-EXECUTE-CHR
                                                                                           PIC 9(1). *> WS-CS-FREE-CHR
                                                                                           PIC 9(1). *> WS-CS-LIBRARY-CHR
                                                                                           PIC 9(1). *> WS-CS-LISTING-CHR
                                                                                           PIC 9(1). *> WS-CS-NOFUNC-CHR
                                                                                           PIC 9(1). *> WS-CS-NOTRUNC-CHR
                                                                                           PIC 9(1). *> WS-CS-TRACEALL-CHR
                                                                                           PIC 9(1). *> WS-CS-WARNALL-CHR
    374 GC0712
                                                                    WS-CS-Switch-Defaults-TXT.

      375
      GC0712
      10 WS-CS-DEBUG-CHR

      376
      GC0712
      10 WS-CS-EXECUTE-CHR

      377
      GC0712
      10 WS-CS-FREE-CHR

      378
      GC0712
      10 WS-CS-LIBRARY-CHR

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

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

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

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

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

| ACS Cob | ol Xref v2.0 | 02.04 | Dictionary File | for GCIC 06/03/2022 23:09:10:97 Page 1 | 2 |
|------------|------------------|------------------|--------------------|--|---|
| 595 596 | 01 \$ | S-Blank-SCR LI | INE 1 COLUMN 1 BLA | NK SCREEN. | |
| 597 | 01 8 | S-Switches-SCF | R BACKGROUND-COLOR | COB-COLOR-BLACK | |
| 598 | | | FOREGROUND-COLOR | COB-COLOR-WHITE AUTO. | |
| 599 | *> | | | | |
| 600 | *> GE | ENERAL SCREEN | FRAMEWORK | | |
| 601 | *> | | | | |
| 602 | (| 3 BACKGROUND- | -COLOR COB-COLOR-E | LACK | |
| 603 | | FOREGROUND- | -COLOR COB-COLOR-G | REEN HIGHLIGHT. | |
| 604 | GC0712 | 05 LINE 02 | COL 01 | VALUE LD-UL-Corner. | |
| 605 | GC0712 | 05 | COL 02 PIC X(78) | FROM WS-Horizontal-Line-TXT. | |
| 606 | | 05 | COL 80 | VALUE LD-UR-Corner. | |
| 607 | | | | | |
| | GC0712 | 05 LINE 03 | | VALUE LD-Vert-Line. | |
| 609 | | 05 | COL 80 | VALUE LD-Vert-Line. | |
| 610 | GG0510 | 05 5 7 7 7 7 0 4 | GGT 0.4 | | |
| | GC0712 | 05 LINE 04 | | VALUE LD-Vert-Line. | |
| 612 613 | | 05 | COL 80 | VALUE LD-Vert-Line. | |
| | GC0712 | OF TIME OF | COL 01 | VALUE LD-LL-Corner. | |
| | GC0712 GC0712 | | | FROM WS-Horizontal-Line-TXT. | |
| 616 | G00712 | | | VALUE LD-LR-Corner. | |
| 617 | | 00 | 001 00 | VALUE ED EN COTHET. | |
| | GC0712 | 05 LINE 07 | COL 01 | VALUE LD-UL-Corner. | |
| | GC0712 | | | FROM WS-Horizontal-Line-TXT. | |
| | GC0712 | 05 | COL 67 | VALUE LD-Upper-T. | |
| 621 | GC0712 | 05 | | FROM WS-Horizontal-Line-TXT. | |
| 622 | | 05 | COL 80 | VALUE LD-UR-Corner. | |
| 623 | | | | | |
| | GC0712 | 05 LINE 08 | | VALUE LD-Vert-Line. | |
| | GC0712 | 05 | | VALUE LD-Vert-Line. | |
| 626 | | 05 | COL 80 | VALUE LD-Vert-Line. | |
| 627 | GC0712 | 05 LINE 09 | COT O1 | VALUE LD-Vert-Line. | |
| 629 | GC0712 GC0712 | 05 LINE 09 | | VALUE LD-Vert-Line. | |
| 630 | G00712 | | | VALUE LD-Vert-Line. | |
| 631 | | 00 | 001 00 | VALUE ED VOI V EINC. | |
| | GC0712 | 05 LINE 10 | COL 01 | 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 | | VALUE LD-Vert-Line. | |
| 637 | GC0712 | 05 | | VALUE LD-Vert-Line. | |
| 638 | | 05 | COT 80 | VALUE LD-Vert-Line. | |
| 639 | GG0510 | 05 5 7777 40 | GGT 0.4 | | |
| 640 | GC0712 | 05 LINE 12 | | VALUE LD-Vert-Line. | |
| 641 | GC0712 | 05 05 | COL 67 COL 80 | VALUE LD-Vert-Line. | |
| 642 643 | | 05 | OUT OA | VALUE LD-Vert-Line. | |
| 643 644 | GC0712 | 05 LINE 13 | CUI U1 | VALUE LD-LL-Corner. | |
| 645 | GC0712 GC0712 | 05 LINE 13 | | FROM WS-Horizontal-Line-TXT. | |
| 646 | GC0712 | 05 | COL 67 | VALUE LD-Lower-T. | |
| 647 | GC0712 | 05 | | FROM WS-Horizontal-Line-TXT. | |
| 648 | | 05 | COT 80 | VALUE LD-LR-Corner. | |
| | | | | | |

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

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ACS Cobol Xref v2.02.04
                                              Dictionary File for GCIC 06/03/2022 23:09:10:98 Page
                                                                                                                                  14
   703 GC0712
                           FOREGROUND-COLOR COB-COLOR-WHITE HIGHLIGHT.
   704 GC0712 05 LINE 06 COL 23 VALUE 'F1'.
705 GC0712 05 COL 26 VALUE 'F9'.
706 GC0712 05 COL 45 VALUE 'F12'
707 GC0712 05 COL 50 VALUE 'ENTER
708 GC0712 05 COL 70 VALUE 'ESC'
                                           COL 45 VALUE 'F12'.
                                          COL 50 VALUE 'ENTER'.
                                           COL 70 VALUE 'ESC'.
   709
          *>
   710
                 *> TOP SECTION BACKGROUND
   711
                  *>
   712
                        O3 BACKGROUND-COLOR COB-COLOR-BLACK
   713
                         FOREGROUND-COLOR COB-COLOR-WHITE HIGHLIGHT.
   714 GC0712
                          05 LINE 03 COL 62 VALUE 'Enter'.
   715 GC0712 05 LINE 04 COL 62 VALUE 'Esc'.
   716
                      O3 BACKGROUND-COLOR COB-COLOR-BLACK
   717
                          FOREGROUND-COLOR COB-COLOR-GREEN HIGHLIGHT.
   718
   719 GC0712
                          05 LINE 04 COL 03 VALUE 'Folder: '.
   720 GC0712 05 LINE 04 COL 03 VALUE 'Filename: '.
   721
   722 GC0712 05 LINE 03 COL 67 VALUE ': Compile '. 723 GC0712 05 LINE 04 COL 65 VALUE ': Quit
   724
   725
                   *> TOP SECTION PROGRAM INFO
   726
   727
                        O3 BACKGROUND-COLOR COB-COLOR-BLACK
                         FOREGROUND-COLOR COB-COLOR-WHITE HIGHLIGHT.
   728
   729 GC0712
                             05 LINE 03 COL 13 PIC X(66) FROM WS-Prog-File-Name-TXT.
   730 GC0712
                          05 LINE 04 COL 13 PIC X(66) FROM WS-Prog-Folder-TXT.
    731 *>
    732
                   *> MIDDLE LEFT SECTION F-KEYS
    733
                       O3 BACKGROUND-COLOR COB-COLOR-BLACK
    734
                       FOREGROUND-COLOR COB-COLOR-WHITE HIGHLIGHT.
    735
   736 GC0712 05 LINE 08 COL 03 VALUE 'F1'.
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'.
    741
   742 GC0712 05 LINE 08 COL 35 VALUE 'F6'.
743 GC0712 05 LINE 09 COL 35 VALUE 'F7'.
744 GC0712 05 LINE 10 COL 35 VALUE 'F8'.
745 GC0712 05 LINE 11 COL 35 VALUE 'F9'.
   746
   747
                   *> MIDDLE LEFT SECTION SWITCHES
    748
    749
                         O3 BACKGROUND-COLOR COB-COLOR-BLACK
   750
                             FOREGROUND-COLOR COB-COLOR-RED HIGHLIGHT.
   FOREGROUND-COLOR COB-COLOR-RED HIGHLIGHT.

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

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

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

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

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

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ACS Cobol Xref v2.02.04
                                           Dictionary File for GCIC
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   757 GC0712
                           05 LINE 08 COL 38 PIC X(1) FROM WS-CS-NOFUNC-CHR.
   758 GC0712
                           05 LINE 09 COL 38 PIC X(1) FROM WS-CS-WARNALL-CHR.
                      05 LINE 10 COL 38 PIC X(1) FROM WS-CS-NOTRUNC-CHR.
   759 GC0712
   760 GC0712
   761
                  *> MIDDLE LEFT SECTION BACKGROUND
   762
   763
   764
                       O3 BACKGROUND-COLOR COB-COLOR-BLACK
   765
                          FOREGROUND-COLOR COB-COLOR-GREEN HIGHLIGHT.
   766 GC0712
                           05 LINE 08 COL 07 VALUE 'Assume WITH DEBUGGING MODE'.
   766 GC0712 O5 LINE O8 CUL O7 VALUE 'Assume WITH DEBUGGING MUDE'.

767 GC0712 O5 LINE O9 COL O7 VALUE 'Procedure+Statement Trace '.

768 GC0712 O5 LINE 10 COL O7 VALUE 'Make a Library ('.

769 GC0712 O5 COL 23 VALUE WS-OS-Lib-Type-CONST.

770 GC0712 O5 LINE 11 COL O7 VALUE 'Execute If Compilation OK '.

771 GC1213 O5 LINE 12 COL O7 FROM WS-Listing-TXT.
   772
   772

773 GC0712

05 LINE 08 COL 39 VALUE '"FUNCTION" Is Optional '.

774 GC0712

05 LINE 09 COL 39 VALUE 'Enable All Warnings '.

775 GC0712

05 LINE 10 COL 39 VALUE 'Source Is Free-Format '.

776 GC0712

05 LINE 11 COL 39 VALUE 'No COMP/BINARY Truncation '.
   777
   778
                  *> MIDDLE RIGHT SECTION Text
   779
   780
                       O3 BACKGROUND-COLOR COB-COLOR-BLACK
                         FOREGROUND-COLOR COB-COLOR-GREEN HIGHLIGHT.
   781
   782 GC0712
                           05 LINE 08 COL 69 VALUE 'Current'.
   783 GC0712
                           05 LINE 09 COL 69 VALUE 'Config:'.
   784
                  *> MIDDLE RIGHT SECTION CONFIG FILE
   785
   786
   787
                       O3 BACKGROUND-COLOR COB-COLOR-BLACK
   788
                        FOREGROUND-COLOR COB-COLOR-WHITE HIGHLIGHT.
   789 GC0712
                           05 LINE 10 COL 69 PIC X(10)
   790 GC0712
                           FROM WS-CS-Filename-TXT (WS-CS-Config-NUM).
   791 *>
   792
                  *> FREE-FORM OPTIONS FIELDS
   793
   794
                       O3 BACKGROUND-COLOR COB-COLOR-BLACK
                        FOREGROUND-COLOR COB-COLOR-WHITE HIGHLIGHT.
   795
   796 GC0712
                          05 LINE 16 COL 03 PIC X(76) USING WS-CS-Extra-H1-TXT.
   796 GC0712 05 LINE 16 COL 03 PIC X(76) USING WS-CS-Extra-H1-TXT.
797 GC0712 05 LINE 17 COL 03 PIC X(76) USING WS-CS-Extra-H2-TXT.
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

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

```
ACS Cobol Xref v2.02.04
                                                                             Dictionary File for GCIC 06/03/2022 23:09:10:98 Page 16
                                  DECLARATIVES.
      812
                                000-File-Error SECTION.
      813
                                   USE AFTER STANDARD ERROR PROCEDURE ON F-Source-Code-FILE.
                                * COPY FileStat-Msgs
      814
                               * REPLACING STATUS BY WS-FSM-Status-CD
      815
      816
                                                     MSG BY WS-FSM-Msg-TXT.
                                817
                               *> ** Author: Gary L. Cutler
      818
                                *> ** CutlerGL@gmail.com
      819
                                                                                                                                                                                                 **
      820
                                 *> **
                                                                                                                                                                                                 **
      821
                                *> ** This copybook defines an EVALUATE statement capable of
                                *> ** translating two-digit FILE-STATUS codes to a message.
                               *> ** Use the REPLACING option to COPY to change the names of **
                               *> ** the MSG and STATUS identifiers to the names your program **
                               828 EVALUATE WS-FSM-Status-CD
829 WHEN 00 MOVE 'SUCCESS ' TO WS-FSM-Msg-TXT
830 WHEN 02 MOVE 'SUCCESS DUPLICATE ' TO WS-FSM-Msg-TXT
831 WHEN 04 MOVE 'SUCCESS INCOMPLETE ' TO WS-FSM-Msg-TXT
832 WHEN 05 MOVE 'SUCCESS OPTIONAL ' TO WS-FSM-Msg-TXT
833 WHEN 07 MOVE 'SUCCESS NO UNIT ' TO WS-FSM-Msg-TXT
834 WHEN 10 MOVE 'SUCCESS NO UNIT ' TO WS-FSM-Msg-TXT
835 WHEN 14 MOVE 'OUT OF KEY RANGE ' TO WS-FSM-Msg-TXT
836 WHEN 14 MOVE 'KEY INVALID ' TO WS-FSM-Msg-TXT
837 WHEN 22 MOVE 'KEY INVALID ' TO WS-FSM-Msg-TXT
838 WHEN 23 MOVE 'KEY INVALID ' TO WS-FSM-Msg-TXT
839 WHEN 30 MOVE 'KEY NOT EXISTS ' TO WS-FSM-Msg-TXT
840 WHEN 31 MOVE 'INCONSISTENT FILENAME ' TO WS-FSM-Msg-TXT
841 WHEN 34 MOVE 'FILE NOT FOUND ' TO WS-FSM-Msg-TXT
842 WHEN 35 MOVE 'FILE NOT FOUND ' TO WS-FSM-Msg-TXT
843 WHEN 37 MOVE 'PERMISSION DENIED ' TO WS-FSM-Msg-TXT
844 WHEN 38 MOVE 'CLOSED WITH LOCK ' TO WS-FSM-Msg-TXT
845 WHEN 39 MOVE 'CLOSED WITH LOCK ' TO WS-FSM-Msg-TXT
846 WHEN 39 MOVE 'ALREADY OPEN ' TO WS-FSM-Msg-TXT
847 WHEN 42 MOVE 'NOT OPEN ' TO WS-FSM-Msg-TXT
848 WHEN 43 MOVE 'READ NOT DONE ' TO WS-FSM-Msg-TXT
849 WHEN 44 MOVE 'READ ROTO DONE ' TO WS-FSM-Msg-TXT
849 WHEN 44 MOVE 'READ ROTO DONE ' TO WS-FSM-Msg-TXT
849 WHEN 44 MOVE 'READ ERROR ' TO WS-FSM-Msg-TXT
849 WHEN 44 MOVE 'READ ERROR ' TO WS-FSM-Msg-TXT
849 WHEN 44 MOVE 'READ ERROR ' TO WS-FSM-Msg-TXT
840 WHEN 47 MOVE 'INPUT DENIED ' TO WS-FSM-Msg-TXT
841 WHEN 48 MOVE 'OUTPUT DENIED ' TO WS-FSM-Msg-TXT
842 WHEN 49 MOVE 'IOD DENIED ' TO WS-FSM-Msg-TXT
843 WHEN 49 MOVE 'IOD DENIED ' TO WS-FSM-Msg-TXT
844 WHEN 49 MOVE 'IOD DENIED ' TO WS-FSM-Msg-TXT
845 WHEN 49 MOVE 'IOD DENIED ' TO WS-FSM-Msg-TXT
846 WHEN 49 MOVE 'IOD DENIED ' TO WS-FSM-Msg-TXT
847 WHEN 49 MOVE 'IOD DENIED ' TO WS-FSM-Msg-TXT
848 WHEN 51 MOVE 'RECORD LOCKED ' TO WS-FSM-Msg-TXT
850 WHEN 51 MOVE 'RECORD LOCKED ' TO WS-FSM-Msg-TXT
851 WHEN 51 MOVE 'FILE SHARING FAILURE ' TO WS-FSM-Msg-TXT
852 WHEN 51 MOVE 'FILE SHARING FAILURE ' TO WS-FSM-Msg-TXT
855 WHEN 51 MOVE 'FILE SHARING FAILURE ' TO WS-FSM-Msg-TXT
                                          EVALUATE WS-FSM-Status-CD
WHEN OO MOVE 'SUCCESS
                                             WHEN 61 MOVE 'FILE SHARING FAILURE ' TO WS-FSM-Msg-TXT
WHEN 91 MOVE 'FILE NOT AVAILABLE ' TO WS-FSM-Msg-TXT
       857
      858
      859
                                             END-EVALUATE.
       860 *>>W Msg29 Caution: One or more replacing sources not found
                    MOVE SPACES TO WS-Output-Msg-TXT
      861
      862
                                             IF WS-FSM-Status-CD = 35
                                                      DISPLAY
      863
       864
                                                                  'File not found: "'
```

```
ACS Cobol Xref v2.02.04
                          Dictionary File for GCIC
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                                                                           17
  865
                     TRIM(WS-File-Name-TXT,TRAILING)
  866
  867
              ELSE
  868
                  DISPLAY
                     'Error accessing file: "'
  869
  870
                     TRIM(WS-File-Name-TXT,TRAILING)
  871
  872
               END-IF
               GOBACK
  873
  874
  875
           END DECLARATIVES.
  876
  877
           000-Main SECTION.
  878
              PERFORM 100-Initialization
  879 GC0609
              SET WS-RS-Not-Complete-BOOL TO TRUE
  880 GC0609
              PERFORM UNTIL WS-RS-Complete-BOOL
  881 GC0609
                 PERFORM 200-Let-User-Set-Switches
  882 GC0609
                 PERFORM 210-Run-Compiler
  883 GC0410
                 IF (WS-RS-Compile-OK-BOOL OR WS-RS-Compile-OK-Warn-BOOL)
  884 GC0712
                 AND (WS-CS-LISTING-CHR > SPACE)
  885 GC0712
                     DISPLAY S-Blank-SCR
  886 GC0410
                     PERFORM 220-Make-Listing
  887 GC0410
                END-IF
  888 GC0709
                 IF (WS-CS-EXECUTE-CHR NOT = SPACES)
  889 GC0709
                 AND (WS-RS-Output-File-Avail-BOOL)
  890 GC0609
                    PERFORM 230-Run-Program
  891 GC0609
                  END-IF
  892 GC0712
                 PERFORM 250-Autoload-Listing
  893 GC0609
             END-PERFORM
  894
              PERFORM 900-Terminate
  895
           * -- Control will NOT return
  896
  297
  898
           899
           *> Perform all program-wide initialization operations
  900
           901
           100-Initialization SECTION.
  902
           *>***********************
  903
           *> Make sure full screen-handling is in effect
  904
           *>***********************
  905
               SET ENVIRONMENT 'COB_SCREEN_EXCEPTIONS' TO 'Y'
  906
               SET ENVIRONMENT 'COB_SCREEN_ESC'
  907
      VC0617
               SET ENVIRONMENT "COB_EXIT_WAIT"
  908
           *>**********************
  909
           *> Get GCic Compilation Date/Time
           910
  911
               MOVE WHEN-COMPILED (1:12) TO WS-OC-Compile-DT
  912
               INSPECT WS-OC-Compile-DT
  913
                  REPLACING ALL '/' BY ':'
  914
                  AFTER INITIAL SPACE
  915
           *>**********************
  916
           *> Convert WS-CS-All-Switches-TXT to Needed Alphanumeric Values**
  917
           *>**********************
  918
               INSPECT WS-CS-All-Switches-TXT
```

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ACS Cobol Xref v2.02.04
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                                                                                18
                   REPLACING ALL 'O' BY SPACE
  919
                           ALL '1' BY SELCHAR
  920
                           ALL '2' BY SELCHAR
  921 GC1213
       922
           *> Process filename (the only command-line argument)
  923
           924
  925 GC0712
                ACCEPT WS-Cmd-Args-TXT FROM COMMAND-LINE
  926 GC0712 MOVE 1 TO WS-Cmd-SUB
  927 GC0712 IF WS-Cmd-Args-TXT(WS-Cmd-SUB:1) = '"' OR "'"
  928 GC0712
                  MOVE WS-Cmd-Args-TXT(WS-Cmd-SUB:1)
  929 GC0712
930 GC0712
931 GC0712
                    TO WS-Cmd-End-Quote-CHR
                ADD 1 TO WS-Cmd-SUB
                 UNSTRING WS-Cmd-Args-TXT
  932 GC0712
933 GC0712
934 GC0712
                     DELIMITED BY WS-Cmd-End-Quote-CHR
                      INTO WS-File-Name-TXT
                      WITH POINTER WS-Cmd-SUB
  935 GC0712 ELSE
               UNSTRING WS-Cmd-Args-TXT
  936 GC0712
  937 GC0712
                      DELIMITED BY ALL SPACES
  938 GC0712
939 GC0712
                       INTO WS-File-Name-TXT
                       WITH POINTER WS-Cmd-SUB
  940 GC0712 END-IF
  941
              IF WS-File-Name-TXT = SPACES
  942 GC0712
                   DISPLAY 'No program filename was specified'
  943
                   PERFORM 900-Terminate
           * ----- Control will NOT return
  944
  945
                END-IF
  946
           *>************************
           *> Determine if 'Make A Library' feature should be forced 'ON' **
  947
           948
  949
                PERFORM 240-Find-LINKAGE-SECTION
  950
           *>************************
  951
           *> Split 'WS-File-Name-TXT' into 'WS-Prog-Folder-TXT' and
  952
           *> 'WS-Prog-File-Name-TXT'
  953
           954 GC0909
                IF WS-OS-Cygwin-BOOL AND WS-File-Name-TXT (2:1) = ':'
  955 GC0712
                   MOVE '\' TO WS-OS-Dir-CHR
  956 GC0909
               END-IF
  957 GC0712 MOVE LENGTH(WS-File-Name-TX
958 GC0712 PERFORM UNTIL WS-I-SUB = 0
959 GC0712 OR WS-FN-CHR (WS-I-SUB) = V
               MOVE LENGTH(WS-File-Name-TXT) TO WS-I-SUB
               OR WS-FN-CHR (WS-I-SUB) = WS-OS-Dir-CHR
  960
                   SUBTRACT 1 FROM WS-I-SUB
  961
               END-PERFORM
  962
                IF WS-I-SUB = 0
  963
                   MOVE SPACES
                                TO WS-Prog-Folder-TXT
  964
                   MOVE WS-File-Name-TXT TO WS-Prog-File-Name-TXT
  965
                ELSE
  966
                   MOVE '*' TO WS-FN-CHR (WS-I-SUB)
  967
                   UNSTRING WS-File-Name-TXT DELIMITED BY '*'
  968
                       INTO WS-Prog-Folder-TXT
  969
                           WS-Prog-File-Name-TXT
  970 GC0712
                   MOVE WS-OS-Dir-CHR TO WS-FN-CHR (WS-I-SUB)
  971
                FND-TF
  972
                IF WS-Prog-Folder-TXT = SPACES
```

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

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

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 1081 GC0712
                                 MOVE SELCHAR TO WS-CS-NOTRUNC-CHR
 1082 GC0712
                             ELSE
 1083 GC0712
                                 MOVE ' ' TO WS-CS-NOTRUNC-CHR
 1084 GC0712
                             END-IF
                         WHEN COB-SCR-ESC
 1085
 1086
                            PERFORM 900-Terminate
           * ----- Control will NOT return
 1087
                 WHEN COB-SCR-F12
ADD 1 TO WS-CS-Config-NUM
 1088 GC0712
 1089 GC0712
 1090 GC0712
                             IF WS-CS-Config-NUM > 7
 1091 GC0712
                                MOVE 1 TO WS-CS-Config-NUM
 1092 GC0712
                             END-IF
 1093
                          WHEN OTHER
 1094
                             MOVE 'An unsupported key was pressed'
 1095
                               TO WS-Output-Msg-TXT
 1096
                      END-EVALUATE
                   ELSE
 1097
 1098
                      SET WS-RS-No-Switch-Changes-BOOL TO TRUE
 1099
                   END-IF
 1100
                END-PERFORM
 1101
 1102
 1103
           1104
           *> Run the compiler using the switch settings we've prepared. **
 1105
          1106
           210-Run-Compiler SECTION.
 1107
               MOVE SPACES TO WS-Cmd-TXT
 1108
                             WS-Cobc-Cmd-TXT
 1109
                             WS-Output-Msg-TXT
 1110
              DISPLAY S-Switches-SCR
 1111
              MOVE 1 TO WS-I-SUB
 1112 GC0712 MOVE LOWER-CASE(WS-CS-Filename-TXT (WS-CS-Config-NUM))
1113 GC0712 TO WS-Config-Fn-TXT
 1115
       1116
 1117 GC0909 MOVE SPACES TO WS-Cobc-Cmd-TXT
 1118 GC0909 STRING 'cobc -v -std='
 1119 GC0909 TRIM(WS-Config-Fn-TXT,TRAILING)
1120 GC0909 ','
 1120 GC0909 ','
1121 GC0909 INTO WS-Cobc-Cmd-TXT
1122 GC0909 WITH POINTER WS-I-SUB
1123 IF WS-CS-LIBRARY-CHR NOT = ','
1124 STRING '-m',
 1124
                   STRING '-m '
 1125
                       DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
 1126
                       WITH POINTER WS-I-SUB
 1127
               ELSE
 1128
                   STRING '-x '
                       DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
 1129
 1130
                       WITH POINTER WS-I-SUB
 1131
               END-IF
               IF WS-CS-DEBUG-CHR NOT = ' '
 1132
 1133
                   STRING '-fdebugging-line '
 1134
                       DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
```

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                              WITH POINTER WS-I-SUB
  1135
                    END-IF
  1136
  1137
                     IF WS-CS-NOTRUNC-CHR NOT = ' '
                         STRING '-fnotrunc '
  1138
                              DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
  1139
                               WITH POINTER WS-I-SUB
  1140
                    END-IF
  1141
                    IF WS-CS-TRACEALL-CHR NOT = ' '
  1142
 1143 GC0809
                     STRING '-ftraceall '
 1144
                              DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
 1145
                               WITH POINTER WS-I-SUB
                   END-IF
 1146
 1147 GCO712 IF WS-CS-NOFUNC-CHR NOT = ','
                     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 GC0712 IF WS-CS-WARNALL-CHR NOT = ' '
                     STRING '-Wall '
  1153 GC0712
  1154 GC0712
                              DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
 1155 GC0712 WITH POINTER WS-I-ST
1156 GC0712 END-IF
1157 GC0712 IF WS-CS-FREE-CHR NOT = ' '
                               WITH POINTER WS-I-SUB
                     STRING '-free '
  1158 GC0712
  1159 GC0712
                              DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
  1160 GC0712
                              WITH POINTER WS-I-SUB
  1161 GC0712 ELSE
 1162 GC0712 STRING '-fixed '
 1163 GC0712
                         DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
 1164 GC0712
1165 GC0712 END-IF
                              WITH POINTER WS-I-SUB
 1166
 1167 GC0712 MOVE 0 TO WS-Tally-QTY
1168 GC0712 INSPECT WS-CS-Extra-TXT
1168 GC0712
1169 GC0712
1170 GC0712
1171 GC0712
1172 GC0712
1173 GC0712
1174 GC0712
1175 GC1010
1176 GC1010
1177 GC1010

TNSFLOT ...

TALLYING WS-Tally-QTY FUR
WS-CS-LISTING-CHR > SPACE
MOVE SPACE TO WS-CS-LISTI
IF WS-CS-LISTING-CHR > SPACE
STRING '-save-temps'
DELIMITED SIZE INTO V
WITH POINTER WS-I-SUI
                     TALLYING WS-Tally-QTY FOR ALL '-save-temps'
                     MOVE SPACE TO WS-CS-LISTING-CHR *> Can't generate listing if -save-temps used
                              DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
 1177 GC1010
1178 GC1010 END-IF
  1179
 1180 GC0709 IF WS-CS-Extra-TXT > SPACES
1181 GC0709 STRING ',
  1182 GC0709
                                  TRIM(WS-CS-Extra-TXT, TRAILING)
  1183 GC0709
  1184 GC0709
                                  DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
  1185 GC0709
                                  WITH POINTER WS-I-SUB
  1186 GC0709
                   END-IF
  1187 GC0909
                     STRING TRIM(WS-Prog-File-Name-TXT,TRAILING)
  1188 GC0909
                     DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
```

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

        1216
        GC0712
        TO F-Cobc-Output-REC

        1217
        GC0712
        WRITE F-Cobc-Output-REC

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

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

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

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

```
ACS Cobol Xref v2.02.04
                            Dictionary File for GCIC 06/03/2022 23:09:10:99 Page
                                                                                 26
 1351 GC0712
               IF WS-RS-Double-Quote-Used-BOOL
                STRING '"' DELIMITED SIZE
 1352 GC0712
               INTO WS-Cmd-TXT
 1353 GC0712
 1354 GC0712
                       WITH POINTER WS-I-SUB
 1354 GCO712
1355 GCO712 END-IF
1356 IF WS-CS-Args-TXT NOT = SPACES
TOTAL WS-CS-Args
 1357 GC0809
                   STRING ', 'TRIM(WS-CS-Args-TXT, TRAILING)
                       INTO WS-Cmd-TXT
 1358
 1359
                       WITH POINTER WS-I-SUB
 1360
               END-IF
 1361
          1362
          *> Run the program
 1363
           1364 GC0114
               CALL X'E4'
              CALL 'SYSTEM' USING TRIM(WS-Cmd-TXT.TRAILING)
 1365
 1366 GC0712 MOVE SPACES TO WS-Output-Msg-TXT
 1367 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
            1375
           240-Find-LINKAGE-SECTION SECTION.
 1376
               OPEN INPUT F-Source-Code-FILE
 1377 GC0712 MOVE ', TO WS-CS-LIBRARY-CHR
      SET WS-RS-More-To-1st-Prog-BOOL TO TRUE
 1378
 1379
              PERFORM UNTIL WS-RS-1st-Prog-Complete-BOOL
 1380
                   READ F-Source-Code-FILE AT END
 1381
                   CLOSE F-Source-Code-FILE
 1382
                      EXIT SECTION
                 END-READ
 1383
 1384 GC0712 CALL 'CHECKSRC'
1385 GC0712 USING BY CO
                  USING BY CONTENT F-Source-Code-REC
 1386 GC0712
                            BY REFERENCE WS-RS-Source-Record-Type-CHR
               IF WS-RS-Source-Rec-Ident-BOOL
 1387
 1388
                      SET WS-RS-1st-Prog-Complete-BOOL TO TRUE
 1389
                  END-IF
              END-PERFORM
 1390
 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'
 1399 GC0712
                       USING BY CONTENT F-Source-Code-REC
 1400 GC0712
                            BY REFERENCE WS-RS-Source-Record-Type-CHR
               END-PERFORM
 1401
              CLOSE F-Source-Code-FILE
 1402
 1403 IF WS-RS-Source-Rec-Linkage-BOOL
1404 GC0712 MOVE SELCHAR TO WS-CS-LIBRARY-CHR
```

```
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                                             Dictionary File for GCIC 06/03/2022 23:09:10:99 Page 27
  1405
                           END-IF
  1406
  1407
  1409 GC0712*> Attempt to open the listing file as a command. This will - **
  1410 GC1113*> if the user has associated filetype/extension 'gclst' with **
  1411 GCO712*> an application - invoke the appropriate application to
  1412 GC0712*> allow the user to view the listing.
  1414 GC0712 250-Autoload-Listing SECTION.
  1415 GC0712 EVALUATE TRUE
  1416 GC0712
                          WHEN WS-OS-Windows-BOOL OR WS-OS-Cygwin-BOOL

      1416
      GCO712
      WHEN WS-US-WINDOWS-BOOL OR WS-Cygwin-BOOL

      1417
      GC0712
      MOVE SPACES TO WS-Cmd-TXT

      1418
      GC0712
      STRING

      1419
      GC0712
      'cmd /c'

      1420
      GC0712
      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

      1425
      GC0712
      STRING

  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
  1432 GC0712*> ** Since we had to do our own '-save-temps' when we
  1433 GC0712*> ** compiled (in order to generate the cross-reference
  1434 GCO712*> ** listing) we now need to clean up after ourselves.
  1436 GC1112 DISPLAY S-Blank-SCR
  1437 GC0712
                        IF WS-OS-Windows-BOOL
  1438 GC0712 MOVE CONCATENATE('del ',TRIM(WS-Pgm-Nm-TXT,TRAILING))
1439 GC0712 TO WS-Cmd-TXT
  1439 GC0712
                                TO WS-Cmd-TXT
  1440 GC0712 ELSE
  1441 GCO712 MOVE CONCATENATE('rm ',TRIM(WS-Pgm-Nm-TXT,TRAILING))

      1441 GC0712
      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
      USING CONCATENATE(TRIM(WS-Cmd-TXT,TRAILING),'.c.h'

      1448 GC0712
      USING CONCATENATE(TRIM(WS-Cmd-TXT,TRAILING),'.c.h'

      1449 GC0712
      USING CONCATENATE(TRIM(WS-Cmd-TXT,TRAILING),'.c.h'

      1450 GC0712
      USING CONCATENATE(TRIM(WS-Cmd-TXT,TRAILING),'.i')

      1452 GC0712
      USING CONCATENATE(TRIM(WS-Cmd-TXT,TRAILING),'.i')

      1453 GC0712
      USING CONCATENATE(TRIM(WS-Cmd-TXT,TRAILING),'.o')

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

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

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| Data Section (WORKING-STORAGE) | Defn | Locations |
|--------------------------------|----------|--|
| COD COLOD DI ACV | 00000011 | 000507 000000 000000 000700 000747 000707 000704 |
| 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 | 000233W | 000603 000718 000765 000781 |
| COB-COLOR-MAGENTA | 000234W | 000000 000710 000700 000701 |
| COB-COLOR-RED | 000236W | 000686 000750 |
| COB-COLOR-WHITE | 000230W | 000598 000681 000687 000703 000713 000728 000735 000788 |
| COD COLOR WILLIA | 000200# | 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 | |
| COB-SCR-F3 | 000247W | 001044 |
| COB-SCR-F30 | 000274W | |
| COB-SCR-F31 | 000275W | |
| COB-SCR-F32 | 000276W | |
| COB-SCR-F33 | 000277W | |
| COB-SCR-F34 | 000278W | |
| COB-SCR-F35 | 000279W | |
| COB-SCR-F36 | 000280W | |
| COB-SCR-F37 | 000281W | |
| COB-SCR-F38 | 000282W | |
| COB-SCR-F39 | 000283W | 001050 |
| COB-SCR-F4 | 000248W | 001050 |
| COB-SCR-F40 | 000284W | |

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

Chapter 5 - GCic

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| Data Section (WORKING-STORAGE) | | | |
|---|-------------------------------|---|----------|
| P4 | 00000411 | | |
| F1 | 000364W | | |
| F12 | 000358W | | |
| F2 F3 | 000371W | | |
| | 000367W | | |
| F4 | 000365W | 000415 | |
| F5 | 000368W | 000415 | |
| F6 | 000369W | | |
| F7 | 000372W | | |
| F8 | 000366W | | |
| F9 | 000370W | 000005 000007 000000 000004 000006 | |
| WS-CMD-ARGS-TXT | | 000925 000927 000928 000931 000936 | |
| WS-CMD-END-QUOTE-CHR | 000389W | 000929 000932 | |
| WS-CMD-SUB | | 000926 000930 000934 000939 | - 004001 |
| WS-CMD-TXT | 000385W | 001107 001202 001207 001208 001209 001278 00128 | |
| | | 001298 001305 001309 001315 001320 001325 00133 | |
| | | 001347 001353 001358 001365 001417 001421 00142 | |
| | | 001428 001429 001439 001442 001445 001447 00144 | 9 001451 |
| LIG GODG GMD EVE | 00000011 | 001453 | 0 004444 |
| WS-COBC-CMD-TXT | 000393W | 001108 001117 001121 001125 001129 001134 00113 | |
| IG GONDTI ARTON GUTRGURG RVR | 00000011 | 001149 001154 001159 001163 001176 001184 00118 | 8 001203 |
| WS-COMPILATION-SWITCHES-TXT | 000338W | 004440 004440 | |
| WS-CONFIG-FN-TXT | 000395W | 001113 001119 | |
| WS-CS-ALL-SWITCHES-TXT | | 000918 | |
| WS-CS-ARG-H1-TXT | 000340W | 000798 | |
| VS-CS-ARG-H2-TXT | 000341W | 000799 | |
| WS-CS-ARGS-TXT | | 001356 001357 | |
| WS-CS-CONFIG-NUM | | 000356 000358 001089 001090 001091 001112 | |
| WS-CS-DEBUG-CHR | 000375W | 000751 001033 001034 001036 001132 | |
| WS-CS-EXECUTE-CHR | 000376W | 000754 000888 001051 001052 001054 | |
| WS-CS-EXTRA-H1-TXT | 000361W | 000796 | |
| WS-CS-EXTRA-H2-TXT | 000362W | 000797 | |
| WS-CS-EXTRA-TXT | 000360W | 001168 001180 001182 | |
| WS-CS-FILENAME-TXT | 000351W | 000790 001112 | |
| WS-CS-FILENAMES-TABLE-TXT | 000350W | 000050 | |
| WS-CS-FILENAMES-TXT | | 000350 | |
| WS-CS-FREE-CHR | | 000759 001074 001075 001077 001157 | |
| WS-CS-LIBRARY-CHR | 000378W | 000753 001045 001046 001048 001123 001283 00133 | 8 001377 |
| | | 001404 | |
| WS-CS-LISTING-CHR | | 000755 000884 001021 001024 001027 001170 00117 | 2 001174 |
| WS-CS-NOFUNC-CHR | 000380W | 000757 001062 001063 001065 001147 | |
| WS-CS-NOTRUNC-CHR | 000381W | 000760 001080 001081 001083 001137 | |
| WS-CS-SWITCH-DEFAULTS-TXT | 000363W | 000374 | |
| WS-CS-TRACEALL-CHR | 000382W | 000752 001039 001040 001042 001142 | |
| WS-CS-WARNALL-CHR | 000383W | 000758 001068 001069 001071 001152 | |
| WS-DELETE-FN-TXT | 000397W | | |
| | 000399W | 000865 000870 000933 000938 000941 000954 00095 | 7 000964 |
| WS-FILE-NAME-TXT | 000399W | | |
| | | 000967 000978 001251 | |
| WS-FILE-NAME-TXT WS-FILE-STATUS-MESSAGE-TXT WS-FN-CHR | 000399W 000403W 000400W | 000967 000978 001251 000959 000966 000970 | |

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| Data Section (WORKING-STORAGE) | | | ons | | | | | | |
|--------------------------------|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| WS-FSM-MSG-TXT | 000407W | 000829 | 000830 | 000831 | 000832 | 000833 | 000834 | 000835 | 000836 |
| WD 1511 1153 1111 | 00010111 | | | | 000840 | | | | |
| | | | | | 000848 | | | | |
| | | | | | 000856 | | | 000001 | ****** |
| WS-FSM-STATUS-CD | 000405W | | | | | | | | |
| WS-HORIZONTAL-LINE-TXT | 000409W | | | 000619 | 000621 | 000645 | 000647 | 000651 | 000661 |
| | | 000665 | | | | | | | |
| WS-I-SUB | 000411W | | | | 000960 | 000962 | 000966 | 000970 | 000985 |
| | | | | | 000990 | | | | |
| | | | | | 001140 | | | | |
| | | | | | 001189 | | | | |
| | | | | | 001321 | | | | |
| | | 001354 | | | | | | | |
| WS-J-SUB | 000413W | 001301 | 001302 | | | | | | |
| WS-LISTING-CD | 000415W | 001018 | | 001058 | 001059 | 001255 | | | |
| WS-LISTING-FILENAME-TXT | 000417W | | | | 001222 | | 001420 | 001427 | |
| WS-LISTING-TXT | 000419W | | | | 001026 | | | | |
| WS-OC-COMPILE-DT | 000421W | 000683 | | | | | | | |
| 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 | 000432 | 000438 | 000444 | 000450 | 001345 | 001346 | | |
| WS-OS-LIB-TYPE-CONST | 000427W | 000433 | 000439 | 000445 | 000451 | 000769 | | | |
| WS-OS-OSX-BOOL | 000457W | 001423 | | | | | | | |
| WS-OS-TYPE-CD | 000428W | 000434 | 000440 | 000446 | 000452 | 001005 | 001252 | | |
| WS-OS-TYPE-FILLER-TXT | 000459W | 000465 | | | | | | | |
| WS-OS-TYPE-TXT | 000466W | 001005 | | | | | | | |
| WS-OS-TYPES-TXT | 000465W | | | | | | | | |
| WS-OS-UNIX-BOOL | 000456W | 001323 | | | | | | | |
| WS-OS-WINDOWS-BOOL | 000454W | 001416 | 001437 | | | | | | |
| WS-OUTPUT-MSG-TXT | 000469W | 000688 | 000861 | 001008 | 001095 | 001109 | 001199 | 001214 | 001215 |
| | | 001223 | 001231 | 001243 | 001249 | 001258 | 001263 | 001275 | 001366 |
| | | 001367 | 001461 | | | | | | |
| WS-PATH-DELIMITER-CHR | 000471W | | | | | | | | |
| WS-PFN-CHR | 000478W | 000987 | 000994 | 000998 | | | | | |
| WS-PGM-NM-TXT | 000481W | 000991 | 000996 | 001193 | 001332 | 001438 | 001441 | | |
| WS-PROG-EXTENSION-TXT | 000473W | 000992 | 000997 | | | | | | |
| WS-PROG-FILE-NAME-TXT | 000477W | 000729 | 000964 | 000969 | 000985 | 000991 | 000995 | 001187 | |
| WS-PROG-FOLDER-TXT | 000475W | 000730 | 000963 | 000968 | 000972 | 000973 | 000976 | 001292 | 001293 |
| | | 001297 | 001302 | 001303 | 001308 | 001314 | | | |
| WS-RS-1ST-PROG-COMPLETE-BOOL | 000494W | 001379 | 001388 | | | | | | |
| WS-RS-COMPILE-FAILED-BOOL | 000487W | 001220 | 001232 | | | | | | |
| WS-RS-COMPILE-OK-BOOL | 000485W | 000883 | 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 | | | | | |

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|--|--------------------------|---------------|------------|-------------|------|----|
| Data Section (WORKING-STORAGE) | Defn | Locations | | | | |
| WS-RS-IDENT-DIV-CHR | 000493W | | | | | |
| WS-RS-MORE-TO-1ST-PROG-BOOL | 000495W | 001378 | | | | |
| WS-RS-NO-SWITCH-CHANGES-BOOL | 000497W | 001017 001098 | | | | |
| WS-RS-NO-SWITCH-CHGS-CHR | 000496W | 001017 001000 | | | | |
| WS-RS-NOT-COMPLETE-BOOL | 000490W | 000879 | | | | |
| WS-RS-OUTPUT-FILE-AVAIL-BOOL | 000501W | 000889 001201 | | | | |
| WS-RS-OUTPUT-FILE-BUSY-BOOL | 000500W | | | | | |
| WS-RS-OUTPUT-FILE-BUSY-CHR | 000499W | | | | | |
| WS-RS-QUOTE-CHR | 000491W | | | | | |
| WS-RS-SOURCE-REC-IDENT-BOOL | 000504W | 001387 001393 | | | | |
| WS-RS-SOURCE-REC-IGNORED-BOOL | 000505W | 001391 | | | | |
| WS-RS-SOURCE-REC-LINKAGE-BOOL | 000503W | 001392 001403 | | | | |
| WS-RS-SOURCE-RECORD-TYPE-CHR | 000502W | 001386 001400 | | | | |
| WS-RS-SWITCH-CHANGES-BOOL | 000498W | 001016 | | | | |
| WS-RS-SWITCH-ERROR-CHR | 000506W | | | | | |
| WS-RS-SWITCH-IS-BAD-BOOL | 000507W | | | | | |
| WS-RS-SWITCH-IS-GOOD-BOOL | 000508W | | | | | |
| WS-RUNTIME-SWITCHES-TXT | 000483W | | | | | |
| | | | | | | |

000510W 001167 001169 001171

WS-TALLY-QTY

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| Data Section (SCREEN) | Defn | Locations |
|---------------------------------------|--------------------|---|
| | + | |
| COB-COLOR-BLACK | 000597S | 000602 000692 000702 000712 000717 000727 000734 00074 |
| | | 000764 000780 000787 000794 |
| COB-COLOR-BLUE | 000680S | |
| COB-COLOR-CYAN | 000693S | |
| COB-COLOR-GREEN | 000603S | 000718 000765 000781 |
| COB-COLOR-RED | 000686S | 000750 |
| COB-COLOR-WHITE | 000598S | 000681 000687 000703 000713 000728 000735 000788 000799 |
| LD-HORIZ-LINE | 000573S | |
| LD-LL-CORNER | 000568S | 000577 000586 000614 000644 000660 000674 |
| LD-LOWER-T | 000572S | 000581 000590 000646 |
| LD-LR-CORNER | 000570S | 000579 000588 000616 000648 000662 000676 |
| 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 000628 |
| | | 000626 000628 000629 000630 000632 000633 000634 00063 |
| | | 000637 000638 000640 000641 000642 000654 000655 00065 |
| a prant aan | 0005050 | 000658 000668 000669 000671 000672 |
| S-BLANK-SCR | 000595S | 000885 001436 001465 |
| S-SWITCHES-SCR | 000597S | 001029 001110 001200 001229 001244 001265 001276 00146 |
| WS-CS-ARG-H1-TXT | 0007988 | |
| WS-CS-ARG-H2-TXT | 000799S | 004000 004004 004000 004400 |
| WS-CS-DEBUG-CHR | 000751S | 001033 001034 001036 001132 |
| WS-CS-EXECUTE-CHR WS-CS-EXTRA-H1-TXT | 0007548 | 000888 001051 001052 001054 |
| | 000796S | |
| WS-CS-EXTRA-H2-TXT WS-CS-FILENAME-TXT | 0007978 | 001112 |
| WS-CS-FREE-CHR | 000790S 000759S | |
| WS-CS-LIBRARY-CHR | 000759S | |
| WS-CS-LISTING-CHR | 000755S | 000884 001021 001024 001027 001170 001172 001174 |
| WS-CS-NOFUNC-CHR | 0007535 000757S | |
| WS-CS-NOTRUNC-CHR | 0007575 000760S | 001002 001003 001003 001147 |
| WS-CS-TRACEALL-CHR | 000760S | |
| WS-CS-WARNALL-CHR | 0007525 000758S | 001068 001069 001071 001152 |
| WS-HORIZONTAL-LINE-TXT | 000700B | 000615 000619 000621 000645 000647 000651 000661 00066 |
| WO HOWIZOWING BING INI | 000000 | 000675 001003 |
| WS-LISTING-TXT | 000771S | |
| WS-OC-COMPILE-DT | 000683S | 000911 000912 |
| WS-OS-LIB-TYPE-CONST | 000769S | 000011 000012 |
| WS-OUTPUT-MSG-TXT | 0006888 | 000861 001008 001095 001109 001199 001214 001215 00122 |
| | | 001231 001243 001249 001258 001263 001275 001366 00136 |
| | | 001461 |
| WS-PROG-FILE-NAME-TXT | 000729S | 000964 000969 000985 000991 000995 001187 |
| WS-PROG-FOLDER-TXT | 000730S | 000963 000968 000972 000973 000976 001292 001293 00129 |
| | | 001302 001303 001308 001314 |

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Variable Tested [S] Symbol (88-Conditions)

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

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Symbols of Module: GCIC (GCIC)

Variable Tested Symbol (88-Conditions) [S]

WS-OS-TYPE-CD
WS-OS-TYPE-CD
WS-OS-TYPE-CD
WS-OS-TYPE-CD
WS-OS-UNIX-BOOL
WS-OS-TYPE-CD
WS-OS-UNIX-BOOL
WS-OS-TYPE-CD
WS-OS-UNIX-BOOL
WS-OS-TYPE-CD
WS-OS-WINDOWS-BOOL
WS-RS-IDENT-DIV-CHR
WS-RS-COMPILE-OK-CHR
WS-RS-COMPILE-OK-CHR
WS-RS-COMPILE-OK-CHR
WS-RS-COMPILE-OK-CHR
WS-RS-COMPILE-OK-CHR
WS-RS-COMPILE-OK-CHR
WS-RS-COMPILE-OK-CHR
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-NO-SWITCH-CHGS-CHR
WS-RS-NO-SWITCH-CHANGES-BOOL
WS-RS-COMPLETE-CHR
WS-RS-OUTPUT-FILE-BUSY-CHR
WS-RS-OUTPUT-FILE-BUSY-CHR
WS-RS-OUTPUT-FILE-BUSY-CHR
WS-RS-SOURCE-RECORD-TYPE-CHR
WS-RS-SOURCE-RECORD-TYPE-CHR
WS-RS-SOURCE-REC-LINKAGE-BOOL
WS-RS-SOURCE-RECORD-TYPE-CHR
WS-RS-SWITCH-CHANGES-BOOL
WS-RS-SWITCH-CHGS-CHR
WS-RS-SWITCH-ERROR-CHR
WS-RS-SWITCH-IS-BAD-BOOL
WS-RS-SWITCH-ERROR-CHR
WS-RS-SWITCH-IS-BAD-BOOL

| ACS Cobol Xref v2.02.04 Symbols of Module: GCIC (GCIC) | Diction | nary File for GCIC | 06/03/2022 23 | 3:09:11:00 | Page 38 |
|--|----------|--------------------|-------------------|--------------|------------|
| Functions | Defn | Locations | | | |
| | T | | | | |
| CONCATENATE | 001004I | 001193 001215 0012 | 221 001438 001443 | 001445 001 | 447 001449 |
| | | 001451 001453 | | | |
| LOWER-CASE | 001112I | 001297 | | | |
| TRIM | 000865I | 000870 000976 0010 | 005 001119 001182 | 2 001187 001 | 193 001203 |
| | | 001209 001222 0013 | 302 001314 001332 | 2 001357 001 | 365 001420 |
| | | 001422 001427 0014 | 429 001438 001443 | l 001445 001 | 447 001449 |
| | | 001451 001453 | | | |

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

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|---|---------|----------|---------|--------|----------|--------|-----------|-------|-------|-----|
| Procedure | Defn | Locatio | | | | | | | | |
| | • | | | | | | | | | |
| CAUTION: | 000860P | | | | | | | | | |
| FOUND | 000860P | | | | | | | | | |
| G29 | 000860P | | | | | | | | | |
| LPP | 001253P | | | | | | | | | |
| LPPP | 001254P | | | | | | | | | |
| MORE | 000860P | | | | | | | | | |
| ONE | 000860P | | | | | | | | | |
| SELCHAR | 000920P | 000921 | 001024 | 001027 | 001034 | 001040 | 001046 | 00105 | 2 001 | 063 |
| | | 001069 | 001075 | 001081 | 001404 | | | | | |
| SYSERR | 001208P | | | | | | | | | |

ACS Cobol Xref v2.02.04 Dictionary File for GCIC 06/03/2022 23:09:11:00 Page 41 Symbols of Module: GCIC (GCIC) _____ Unreferenced Working Storage Symbols CBL_CHANGE_DIR 000975C CBL_DELETE_FILE 001195C COB-COLOR-MAGENTA 000237W COB-COLOR-YELLOW 000238W COB-SCR-BACK-TAB 000321W COB-SCR-BACKSPACE 000328W COB-SCR-DELETE 000327W COB-SCR-F10 000254W COB-SCR-F11 000255W COB-SCR-F13 000257W COB-SCR-F14 000258W COB-SCR-F15 000259W COB-SCR-F16 000260W COB-SCR-F17 000261W COB-SCR-F18 000262W COB-SCR-F19 000263W COB-SCR-F20 000264W COB-SCR-F21 000265W COB-SCR-F22 000266W COB-SCR-F23 000267W COB-SCR-F24 000268W COB-SCR-F25 000269W COB-SCR-F26 000270W COB-SCR-F27 000271W COB-SCR-F28 000272W COB-SCR-F29 000273W COB-SCR-F30 000274W COB-SCR-F31 000275W COB-SCR-F32 000276W COB-SCR-F33 000277W COB-SCR-F34 000278W COB-SCR-F35 000279W COB-SCR-F36 000280W COB-SCR-F37 000281W COB-SCR-F38 000282W COB-SCR-F39 000283W COB-SCR-F40 000284W COB-SCR-F41 000285W COB-SCR-F42 000286W COB-SCR-F43 000287W COB-SCR-F44 000288W COB-SCR-F45 000289W COB-SCR-F46 000290W COB-SCR-F47 000291W COB-SCR-F48 000292W COB-SCR-F49 000293W COB-SCR-F50 000294W COB-SCR-F51 000295W COB-SCR-F52 000296W COB-SCR-F53 000297W COB-SCR-F54 000298W

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Symbols of Module: GCIC (GCIC) _____ Unreferenced Working Storage Symbols COB-SCR-F55 000299W COB-SCR-F56 000300W COB-SCR-F57 000301W COB-SCR-F58 000302W COB-SCR-F59 000303W COB-SCR-F60 000304W COB-SCR-F61 000305W COB-SCR-F62 000306W COB-SCR-F63 000307W COB-SCR-F64 000308W COB-SCR-FATAL 000335W COB-SCR-INSERT 000326W COB-SCR-KEY-DOWN 000316W COB-SCR-KEY-END 000330W COB-SCR-KEY-HOME 000329W COB-SCR-KEY-LEFT 000322W COB-SCR-KEY-RIGHT 000323W COB-SCR-KEY-UP 000314W COB-SCR-KEY_DOWN 000317W COB-SCR-KEY_UP 000315W COB-SCR-MAX-FIELD 000336W COB-SCR-NO-FIELD 000332W COB-SCR-OK 000243W COB-SCR-PAGE-DOWN 000312W COB-SCR-PAGE-UP 000310W COB-SCR-PAGE_DOWN 000313W 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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----- doi: or notate. doi: (doi:)

Unreferenced Working Storage Symbols

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

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Symbols of Module: GCIC (GCIC)

Unreferenced Procedures

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

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

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

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| Data Section (WORKING-STORAGE) | | 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 | |

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| 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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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

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

Variable Tested Symbol (88-Conditions) [S]

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

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UPPER-CASE 001534I

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Procedure Defn Locations

None

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Symbols of Module: GCIC (CHECKSRC)

Unreferenced Working Storage Symbols

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

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Symbols of Module: GCIC (CHECKSRC)

Unreferenced Procedures

None

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                                                                                  Page
            IDENTIFICATION DIVISION.
 1575
 1576
            PROGRAM-ID. LISTING.
           1577
           *> This subprogram generates a cross-reference listing of an **
 1578
           *> GNU COBOL program.
 1579
           *>****************
 1580
 1581
           *>
 1582
                          GARY L. CUTLER
           *> AUTHOR:
                                                                  **
                          Copyright (C) 2010, Gary L. Cutler, GPL
 1583
           *>
                                                                  **
 1584
           *>
                                                                  **
 1585
           *> DATE-WRITTEN: April 1, 2010
                                                                  **
 1586
 1587
           1588
           *> DATE CHANGE DESCRIPTION
 1589
           1590
           *> GCO410 Initial coding
                                                                  **
 1591
           *> GC0711 Updates to accommodate the 12MAR2010 version of OC
                                                                 **
 1592
           *> GC0710 Handle duplicate data names (i.e. 'CORRESPONDING' or **
                   qualified items) better; ignore 'END PROGRAM' recs
 1593
 1594
                   so program name doesn't appear in listing.
 1595
           *> GC0313 Fix problem where the first procedure name defined
 1596
           *> in the PROCEDURE DIVISION lacks a "Defined" line
                                                                 **
 1597
           *>
                   number.
 1598
           *> GC1213 Updated for 23NOV2013 version of GNU COBOL 2.1; Stop **
 1599
           *> showing functions as if they were identifiers in the **
 1600
           *>
                  xref listing; Flag all CALL argument references with **
                  a "C" rather than "*" because they aren't necessari- **
 1601
           *>
          *>
 1602
                   ly altered; Fixed assorted formatting bugs; DOWN-
                   WARD COMPATIBLE WITH GNU COBOL 2.0 SYNTAX
 1603
          *>
                                                                 **
          *> GCO314 Fix problem where 1st char of 1st token on a line is **
 1604
 1605
          *> lost if >>SOURCE MODE IS FREE is in effect and the **
 1606
          *>
                    1st character is non-blank.
 1607
          *> VC1217 Updated compiler version & date to v3.0 & 24DEC2017. **
 1608
          *> VC0720 Updated compiler to 3.1 July2020 and the copyright. **
 1609
          *> VCO322 Updated compiler to 3.1.2 March2022 & the copyright. **
 1610
          *>*******************
 1611
           ENVIRONMENT DIVISION.
 1612
           CONFIGURATION SECTION.
 1613
            REPOSITORY.
 1614
               FUNCTION ALL INTRINSIC.
 1615
            INPUT-OUTPUT SECTION.
 1616
            FILE-CONTROL.
 1617
                SELECT F-Expanded-Src-File ASSIGN TO WS-Expanded-Src-Fn-TXT
 1618
                                        ORGANIZATION IS LINE SEQUENTIAL.
 1619 GC0712
               SELECT F-Listing-FILE
                                        ASSIGN TO L-Listing-Fn-TXT
 1620
                                        ORGANIZATION IS LINE SEQUENTIAL.
 1621
                SELECT F-Original-Src-FILE ASSIGN TO L-Src-Fn-TXT
 1622
                                        ORGANIZATION IS LINE SEQUENTIAL.
                SELECT F-Sort-Work-FILE
 1623
                                        ASSIGN TO DISK.
 1624
           DATA DIVISION.
 1625
            FILE SECTION.
            FD F-Expanded-Src-FILE.
 1626
            01 F-Expanded-Src-REC.
 1627
 1628
               05 F-ES-1-CHR
                                                PIC X.
```

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                                                                                              Page
                                                                                                     56
                  05 F-ES-2-256-TXT-256
                                                        PIC X(256).
  1629
  1630 GC0712 01 F-Expanded-Src2-REC.
  1631 GC0712
                  05 F-ES-1-7-TXT
                                                       PIC X(7).
                  05 F-ES-8-256-TXT
                                                       PIC X(249).
  1632 GC0712
 1633
  1634 GC0712 FD F-Listing-FILE.
  1635 GC1213 01 F-Listing-96-REC
                                                       PIC X(96).
  1636 GC1213 01 F-Listing-135-REC
                                                       PIC X(135).
              01 F-Listing-REC
                                                       PIC X(135).
 1637
 1638
 1639
              FD F-Original-Src-FILE.
 1640
              01 F-Original-Src-REC.
 1641 GCO410
                  05 F-OS-1-128-TXT.
 1642 GC0410
                  10 FILLER
                                                       PIC X(6).
                   10 F-OS-7-CHR
 1643 GC0410
                                                       PIC X(1).
                   10 F-0S-8-72-TXT
 1644 GC0712
                                                       PIC X(65).
                    10 FILLER
 1645 GC0712
                                                       PIC X(56).
 1646
                05 F-OS-129-256-TXT
                                                       PIC X(128).
  1647
  1648
            SD F-Sort-Work-FILE.
  1649
              01 F-Sort-Work-REC.
  1650
                  05 F-SW-Prog-ID-TXT
                                                       PIC X(15).
  1651
                  05 F-SW-Token-Uc-TXT
                                                       PIC X(32).
  1652
                  05 F-SW-Token-TXT
                                                       PIC X(32).
  1653
                 05 F-SW-Section-TXT
                                                       PIC X(15).
  1654
                 05 F-SW-Def-Line-NUM
                                                       PIC 9(6).
  1655
                  05 F-SW-Reference-TXT.
  1656
                     10 F-SW-Ref-Line-NUM
                                                       PIC 9(6).
  1657
                     10 F-SW-Ref-Flag-CHR
                                                       PIC X(1).
  1658
 1659
              WORKING-STORAGE SECTION.
  1660 GC1213 01 WS-Copyright-TXT
                                                       PIC X(86).
 1661
 1662
              01 WS-Curr-CHR
                                                        PIC X(1).
 1663
                  88 WS-Curr-Char-Is-Punct-BOOL
                                                        VALUE '=', '(', ')',
 1664
                                                              '*', '/', '&',
                                                             ';', ',', '<',
'>', ':'.
 1665
  1666
                                                        VALUE "'", '"'.
  1667
                  88 WS-Curr-Char-Is-Quote-BOOL
                                                        VALUE 'x', 'X'.
  1668
                  88 WS-Curr-Char-Is-X-BOOL
  1669
                  88 WS-Curr-Char-Is-Z-BOOL
                                                        VALUE 'z', 'Z'.
  1670
  1671
              01 WS-Curr-Division-TXT
                                                       PIC X(1).
                                                       VALUE 'i', 'I', '?'.
  1672 GC1010
                  88 WS-CD-In-IDENT-DIV-BOOL
                                                       VALUE 'e', 'E'.
  1673
       GC1010
                  88 WS-CD-In-ENV-DIV-BOOL
                  88 WS-CD-In-DATA-DIV-BOOL
                                                       VALUE 'd', 'D'.
  1674 GC1010
  1675 GC1010
                  88 WS-CD-In-PROC-DIV-BOOL
                                                       VALUE 'p', 'P'.
  1676
              01 WS-Curr-Line-NUM
  1677
                                                       PIC 9(6).
  1678
  1679
              01 WS-Curr-Prog-ID-TXT.
  1680
                  05 FILLER
                                                       PIC X(12).
  1681
                  05 WS-CPI-13-15-TXT
                                                       PIC X(3).
  1682 GC0712
                 05 WS-CPI-16-CHR
                                                       PIC X(1).
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|--------------|---------|-----|---------------------------------------|-------------------------|-------------|------|----|
| 1683 | | | | | | | |
| 1684 | | 01 | WS-Curr-Section-TXT. | | | | |
| 1685 | | | 05 WS-CS-1-CHR | PIC X(1). | | | |
| 1686 | | | 05 WS-CS-2-14-TXT. | | | | |
| 1687 | | | 10 FILLER | PIC X(10). | | | |
| 1688 | | | 10 WS-CS-11-14-TXT | PIC X(3). | | | |
| 1689 | | | 05 WS-CS-15-CHR | PIC X(1). | | | |
| 1690 | | | | | | | |
| 1691 | | 01 | WS-Curr-Verb-TXT | PIC X(12). | | | |
| 1692 | | | | | | | |
| 1693 | | 01 | WS-Delim-TXT | PIC X(2). | | | |
| 1694 | | | | | | | |
| 1695 | | 01 | WS-Dummy-TXT | PIC X(1). | | | |
| 1696 | | | | | | | |
| 1697 | | 01 | WS-Expanded-Src-Fn-TXT | PIC X(256). | | | |
| 1698 | | | | | | | |
| 1699 | | 01 | WS-Filename-TXT | PIC X(256). | | | |
| 1700 | | | | | | | |
| 1701 | GC1213 | 01 | WS-Flags-TXT. | | | | |
| 1702 | GC1213 | | 05 WS-Suppress-FF-CHR | PIC X(1). | | | |
| 1703 | | | | | | | |
| 1704 | GC1213 | 01 | WS-Formatted-DT | PIC 9999/99/99. | | | |
| 1705 | | | | | | | |
| 1706 | | 01 | WS-Group-Indicators-TXT. | | | | |
| 1707 | | | 05 WS-GI-Prog-ID-TXT | PIC X(15). | | | |
| 1708 | | | 05 WS-GI-Token-TXT | PIC X(32). | | | |
| 1709 | | | | | | | |
| 1710 | | 01 | WS-Held-Reference-TXT | PIC X(100). | | | |
| 1711 | | 0.4 | LIG. T. GUD | HOAGE DINADY LONG | | | |
| 1712 | | 01 | WS-I-SUB | USAGE BINARY-LONG. | | | |
| 1713 | | 0.1 | ila i alib | HOAGE DINADY LONG | | | |
| 1714 | | 01 | WS-J-SUB | USAGE BINARY-LONG. | | | |
| 1715 1716 | | 01 | UC-I inag-I oft-NUM | HEACE DINADV-IONC | | | |
| 1716 1717 | | 01 | WS-Lines-Left-NUM | USAGE BINARY-LONG. | | | |
| 1717 | | Λ1 | WG-I inog-Por-Page-NIM | USAGE BINARY-LONG. | | | |
| 1719 | | 01 | WS-Lines-Per-Page-NUM | OSAGE BINARI-LONG. | | | |
| 1719 | | 01 | WS-Lines-Per-Page-Env-TXT | PIC X(256). | | | |
| 1721 | | 01 | wb Lines lei lage Liiv ixi | 110 X(200). | | | |
| | GC1010 | 01 | WS-Main-Module-Name-TXT | PIC X(256). | | | |
| 1723 | 401010 | 01 | WE HALL HOUSE NAME THE | 110 11(200). | | | |
| 1724 | | 01 | WS-Next-CHR | PIC X(1). | | | |
| 1725 | | - | 88 WS-Next-Char-Is-Quote-BOOL | VALUE '"', "'". | | | |
| 1726 | | | | , , | | | |
| 1727 | | 01 | WS-OS-Type-FILLER-TXT. | | | | |
| 1728 | | | 05 VALUE 'Windows' | PIC X(14). | | | |
| 1729 | | | 05 VALUE 'Windows/Cygwin' | PIC X(14). | | | |
| 1730 | | | O5 VALUE 'UNIX/Linux' | PIC X(14). | | | |
| 1731 | | | O5 VALUE 'OSX' | PIC X(14). | | | |
| 1732 | | | O5 VALUE 'Windows/MinGW' | PIC X(14). | | | |
| 1733 | | 01 | WS-OS-Types-TXT REDEFINES WS-OS-Type- | -FILLER-TXT. | | | |
| 1734 | | | 05 WS-OS-Type-TXT | PIC X(14) | | | |
| 1735 | | | | 5 5 TIMES . | | | |
| 1736 | | | | | | | |
| | | | | | | | |

| 1737 GC0712 01 WS-Page-NUM USAGE BINARY-LONG. 1738 1739 GC0712 01 WS-Page-No-TXT. 1740 GC0712 05 WS-PN-Literal-TXT PIC X(6). 1741 GC0712 05 WS-PN-Page-NUM PIC Z(3)9. 1742 1743 GC1213 01 WS-Program-Path-TXT PIC X(135). | |
|---|--|
| 1739 GC0712 01 WS-Page-No-TXT. 1740 GC0712 05 WS-PN-Literal-TXT PIC X(6). 1741 GC0712 05 WS-PN-Page-NUM PIC Z(3)9. 1742 | |
| 1740 GC0712 05 WS-PN-Literal-TXT PIC X(6). 1741 GC0712 05 WS-PN-Page-NUM PIC Z(3)9. 1742 | |
| 1741 GC0712 05 WS-PN-Page-NUM PIC Z(3)9. 1742 | |
| 1742 | |
| | |
| 1, 10 401210 01 110 11001 1111 | |
| 1744 | |
| 1745 01 WS-Reserved-Words-TXT. | |
| 1746 05 VALUE ' ' PIC X(33). | |
| 1747 GC1213 05 VALUE 'FABS ' PIC X(33). | |
| 1748 O5 VALUE 'VACCEPT 'PIC X(33). | |
| 1749 05 VALUE ' ACCESS ' PIC X(33). | |
| 1750 GC1213 05 VALUE 'FACOS ' PIC X(33). | |
| 1751 05 VALUE 'ACTIVE-CLASS 'PIC X(33). UNIMPLEMENTED | |
| 1752 05 VALUE 'VADD ' PIC X(33). | |
| 1753 | |
| 1754 O5 VALUE 'ADVANCING 'PIC X(33). | |
| 1755 O5 VALUE 'KAFTER ' PIC X(33). | |
| 1756 O5 VALUE 'ALIGNED 'PIC X(33). UNIMPLEMENTED | |
| | |
| 1757 O5 VALUE 'ALL 'PIC X(33). 1758 O5 VALUE 'VALLOCATE 'PIC X(33). | |
| 1759 O5 VALUE 'ALPHABET 'PIC X(33). | |
| 1760 O5 VALUE 'ALPHABETIC 'PIC X(33). | |
| 1761 05 VALUE 'ALPHABETIC-LOWER 'PIC X(33). | |
| 1762 05 VALUE 'ALPHABETIC-UPPER 'PIC X(33). | |
| 1763 05 VALUE 'ALPHANUMERIC 'PIC X(33). | |
| 1764 05 VALUE 'ALPHANUMERIC-EDITED 'PIC X(33). | |
| 1765 05 VALUE ' ALSO ' PIC X(33). | |
| 1766 O5 VALUE 'VALTER ' PIC X(33). | |
| 1767 O5 VALUE 'ALTERNATE 'PIC X(33). | |
| 1768 05 VALUE 'AND 'PIC X(33). | |
| 1769 GC1213 05 VALUE 'FANNUITY ' PIC X(33). | |
| 1770 05 VALUE 'ANY 'PIC X(33). | |
| 1771 O5 VALUE 'ANYCASE 'PIC X(33). UNIMPLEMENTED | |
| 1772 05 VALUE 'ARE 'PIC X(33). | |
| 1773 | |
| 1774 O5 VALUE 'AREAS 'PIC X(33). | |
| 1775 O5 VALUE 'ARGUMENT-NUMBER 'PIC X(33). 1776 O5 VALUE 'ARGUMENT-VALUE 'PIC X(33). | |
| | |
| 1777 O5 VALUE 'ARITHMETIC 'PIC X(33). UNIMPLEMENTED 'PIC X(33). | |
| 1779 O5 VALUE 'ASCENDING 'PIC X(33). | |
| 1779 OS VALUE ASCENDING FIC X(SS). 1780 OS VALUE ASCII PIC X(SS). | |
| 1781 GC1213 05 VALUE 'FASIN ' PIC X(33). | |
| 1782 05 VALUE 'ASSIGN 'PIC X(33). | |
| 1783 05 VALUE ' AT ' PIC X(33). | |
| 1784 GC1213 05 VALUE 'FATAN ' PIC X(33). | |
| 1785 GC0711 05 VALUE 'ATTRIBUTE 'PIC X(33). | |
| 1786 O5 VALUE , AUTHOR , DESOLETE | |
| 1787 05 VALUE , AUTO , PIC X(33). | |
| 1788 O5 VALUE 'AUTO-SKIP 'PIC X(33). | |
| 1789 O5 VALUE 'AUTOMATIC 'PIC X(33). | |
| 1790 05 VALUE 'AUTOTERMINATE 'PIC X(33). | |

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|--------------|------------|----------------------|--|----------|-----------|------------------|---|------|----|
| 1791 | | 05 VALUE | ' AWAY-FROM-ZERO | | | X(33). | | | |
| 1792 | | 05 VALUE | ' B-AND | | , bic | X(33). | UNIMPLEMENTED | | |
| 1793 | | 05 VALUE | ' B-NOT | | , bic | X(33). | UNIMPLEMENTED UNIMPLEMENTED UNIMPLEMENTED | | |
| 1794 | | 05 VALUE | ' B-OR | | , bic | X(33). | UNIMPLEMENTED | | |
| 1795 | | 05 VALUE | ' B-XOR ' BACKGROUND-COLOR | | , bic | X(33). | UNIMPLEMENTED | | |
| 1796 | | 05 VALUE | ' BACKGROUND-COLOR | | , bic | X(33). | | | |
| 1797 | | O5 VALUE | BACKGROUND-COLOUR BASED | | , bic | X(33). | | | |
| 1798 | | OC VALUE | DROLD | | , bic | X(33). | | | |
| 1799 | | 05 VALUE | ' BEEP | | | X(33). | | | |
| 1800 | | 05 VALUE | ' BEFORE | | | X(33). | | | |
| 1801 | | 05 VALUE | ' BELL | | | X(33). | | | |
| 1802 | | 05 VALUE | ' BEFORE ' BELL ' BINARY | | , bic | X(33). | | | |
| 1803 | | 05 VALUE | BINARY BINARY-C-LONG BINARY-CHAR BINARY-DOUBLE BINARY-INT BINARY-LONG | | , PIC | X(33). | | | |
| 1804 | | 05 VALUE | BINARY-CHAR | | , PIC | X(33). | | | |
| 1805 | | O5 VALUE | , BINARY-DUUBLE | | , PIC | X(33). | | | |
| 1806 | | OF VALUE | , BINARY-INI | | , PIC | X(33). | | | |
| 1807 1808 | | OF VALUE | PINARY-LUNG | | , PIC | X(33). X(33). | | | |
| 1809 | | OS VALUE | PINARI-LUNG-LUNG | | , DIC | X(33). | | | |
| 1810 | | OS VALUE | ' BINARY-LONG-LONG ' BINARY-SHORT ' BIT | | , DIC | X(33). | UNIMPLEMENTED | | |
| 1811 | | 05 VALUE | , BI VNK | | | X(33). | ONTIN LENENTED | | |
| 1812 | | 05 VALUE | | | | X(33). | | | |
| 1813 | | 05 VALUE | , BI'UCK | | | X(33). | | | |
| 1814 | | | , BOOLEAN | | | | UNIMPLEMENTED | | |
| | GC1213 | 05 VALUE | 'FBOOLEAN-OF-INTEGER | | , bic | | UNIMPLEMENTED | | |
| 1816 | | 05 VALUE | , BOLLOW | | , bic | X(33). | | | |
| 1817 | | 05 VALUE | 'YBY | | , bic | X(33). | | | |
| 1818 | GC1213 | O5 VALUE | 'FBYTE-LENGTH | | , bic | X(33). | | | |
| 1819 | | 05 VALUE | | | , bic | X(33). | | | |
| 1820 | | 05 VALUE | 'MCO2 | | | X(33). | | | |
| 1821 | | 05 VALUE | | | | X(33). | | | |
| 1822 | | 05 VALUE | | | | X(33). | | | |
| 1823 | | 05 VALUE | | | | X(33). | | | |
| 1824 | | 05 VALUE | | | | X(33). | | | |
| 1825 | | 05 VALUE | | | | X(33). | | | |
| 1826 | | 05 VALUE | | | | X(33). | | | |
| 1827 | | 05 VALUE | | | | X(33). | | | |
| 1828 1829 | | 05 VALUE 05 VALUE | | | | X(33). 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 | | O5 VALUE | ' CENTER | | , bic | X(33). | UNIMPLEMENTED | | |
| 1837 | | O5 VALUE | | | , bic | X(33). | | | |
| 1838 | | 05 VALUE | , CH | | , bic | X(33). | | | |
| 1839 | | 05 VALUE | ' CHAIN | | , bic | X(33). | UNIMPLEMENTED | | |
| 1840 | | 05 VALUE | ' CHAINING | | | X(33). | | | |
| 1841 | GC1213 | 05 VALUE | | | | X(33). | | | |
| | GC1213 | | 'FCHAR-NATIONAL | | | X(33). | UNIMPLEMENTED | | |
| 1843 | | | ' CHARACTER | | | X(33). | | | |
| 1844 | | 05 VALUE | ' CHARACTERS | | , bic | X(33). | | | |

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| 1845 | | 05 VALUE | , CLASS | | , | PIC | X(33). | | | |
| 1846 | | 05 VALUE | , CLASS-ID | | , | PIC | X(33). | UNIMPLEMENTED | | |
| 1847 | GC0711 | | , CLASSIFICATIO | | | | X(33). | | | |
| 1848 | | 05 VALUE | | | | | X(33). | | | |
| 1849 | GC1213 | | 'FCOB-CRT-STATU | S | | | X(33). | | | |
| 1850 | 401210 | 05 VALUE | , CODE | ~ | | | X(33). | | | |
| 1851 | | | , CODE-SET | | | | X(33). | | | |
| 1852 | | 05 VALUE | , CUI | | | | X(33). | | | |
| 1853 | | OS VALUE | ' COL ' COLLATING ' COLS ' COLUMN ' COLUMNS | | | | X(33). | | | |
| 1854 | | OS VALUE | , CUIS | | | | X(33). | | | |
| 1855 | | OS VALUE | , CULTIMN | | | | X(33). | | | |
| 1856 | | OS VALUE | , COLUMNS | | | | X(33). | | | |
| | GC1213 | | | | | | X(33). | | | |
| 1858 | GC1213 | 05 VALUE | 'FCOMBINED-DATE | TIME | | | X(33). | | | |
| | | | | | | | | | | |
| 1859 | | | , COMMAND-LINE | | | | X(33). | | | |
| 1860 | | 05 VALUE | | | | | X(33). | | | |
| 1861 | | 05 VALUE | | | | | X(33). | 0D001 FFF | | |
| 1862 | | 05 VALUE | , COMMUNICATION | | , | | X(33). | OBSOLETE | | |
| 1863 | | 05 VALUE | | | | | X(33). | | | |
| 1864 | | 05 VALUE | | | | | X(33). | | | |
| 1865 | | 05 VALUE | | | | | X(33). | | | |
| 1866 | | 05 VALUE | | | | | X(33). | | | |
| 1867 | | 05 VALUE | | | | | X(33). | | | |
| 1868 | | 05 VALUE | | | , | PIC | X(33). | | | |
| 1869 | | 05 VALUE | , COMP-6 | | , | PIC | X(33). | | | |
| 1870 | | 05 VALUE | | | , | PIC | X(33). | | | |
| 1871 | | 05 VALUE | ' COMPUTATIONAL | | , | PIC | X(33). | | | |
| 1872 | | OS VALUE | ' COMPUTATIONAL. | -1 | , | PIC | X(33). | | | |
| 1873 | | 05 VALUE | , COMPUTATIONAL | -2 | , | PIC | X(33). | | | |
| 1874 | | 05 VALUE | ' COMPUTATIONAL | -3 | , | PIC | X(33). | | | |
| 1875 | | 05 VALUE | ' COMPUTATIONAL | -4 | , | PIC | X(33). | | | |
| 1876 | | 05 VALUE | , COMPUTATIONAL | -5 | , | PIC | X(33). | | | |
| 1877 | | 05 VALUE | , COMPUTATIONAL | -X | , | PIC | X(33). | | | |
| 1878 | | | 'VCOMPUTE | | , | PIC | X(33). | | | |
| 1879 | GC1213 | 05 VALUE | 'FCONCATENATE | | , | PIC | X(33). | | | |
| 1880 | GC0712 | 05 VALUE | , CONDITION | | , | PIC | X(33). | | | |
| 1881 | | 05 VALUE | 'KCONFIGURATION | | , | PIC | X(33). | | | |
| 1882 | | | 'MCONSOLE | | | | X(33). | | | |
| 1883 | | 05 VALUE | ' CONSTANT | | , | PIC | X(33). | | | |
| 1884 | | 05 VALUE | , CONTAINS | | | | X(33). | | | |
| 1885 | GC0712 | | 'ACONTENT | | , | PIC | X(33). | | | |
| 1886 | | | 'VCONTINUE | | | | X(33). | | | |
| 1887 | | | , CONTROL | | | | X(33). | | | |
| 1888 | | | , CONTROLS | | | | X(33). | | | |
| 1889 | GC0711 | | , CONVERSION | | | | X(33). | | | |
| 1890 | 400.11 | | 'KCONVERTING | | | | X(33). | | | |
| 1891 | * | O5 VALUE | | | | | X(33). | | | |
| 1892 | • | 05 VALUE | | | | | X(33). | | | |
| 1893 | | | , CORRESPONDING | | | | X(33). | | | |
| 1894 | GC1213 | 05 VALUE | | | | | X(33). | | | |
| 1895 | 301210 | 05 VALUE | | | | | X(33). | | | |
| 1896 | | 05 VALUE | | | | | X(33). | | | |
| 1897 | | | , CRT-UNDER | | | | X(33). | | | |
| 1898 | | 05 VALUE | | | | | X(33). | | | |
| 1030 | | OO VALUE | FIGOR | | · | LIC | Λ(33). | | | |

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| 1899 | | 05 VALUE | , CURRENCY | | , bic | X(33). | | | |
| 1900 | GC1213 | 05 VALUE | 'FCURRENCY-SYMBOL | | , bic | X(33). | | | |
| 1901 | GC1213 | 05 VALUE | 'FCURRENT-DATE | | , bic | X(33). | | | |
| 1902 | | 05 VALUE | , CURSOR | | , bic | X(33). | | | |
| 1903 | | 05 VALUE | , CYCLE | | , bic | X(33). | | | |
| 1904 | | 05 VALUE | 'KDATA | | , bic | X(33). | | | |
| 1905 | | 05 VALUE | 'FCURRENCY-SYMBOL' 'FCURRENT-DATE ' CURSOR ' CYCLE 'KDATA ' DATA-POINTER ' DATE ' DATE ' DATE-COMPILED ' DATE-MODIFIED 'FDATE-OF-INTEGER 'FDATE-TO-YYYYMMDD ' DATE-WRITTEN | | , bic | X(33). | UNIMPLEMENTED | | |
| 1906 | | 05 VALUE | ' DATE | | , bic | X(33). | | | |
| 1907 | | 05 VALUE | , DATE-COMPILED | | , bic | X(33). | OBSOLETE | | |
| 1908 | | 05 VALUE | ' DATE-MODIFIED | | , bic | X(33). | OBSOLETE | | |
| 1909 | GC1213 GC1213 | 05 VALUE | 'FDATE-OF-INTEGER | | , bic | X(33). | | | |
| | GC1213 | 05 VALUE | 'FDATE-TO-YYYYMMDD | | , PIC | X(33). | | | |
| 1911 | | | | | | n(00). | OBSOLETE | | |
| 1912 | 44040 | 05 VALUE | , DAA | | , PIC | X(33). | | | |
| 1913 | GC1213 | O5 VALUE | 'FDAY-UF-INTEGER | | , PIC | X(33). | | | |
| 1914 | GC1213 | OF VALUE | , DAY , DAY-OF-INTEGER , DAY-OF-WEEK , IDAY-TO-YYYYDDD | | , PIC | X(33). X(33). | | | |
| 1915 | GC1213 | OF VALUE | , IDMI-IO-IIIIDDD | | , PIC | X(33). | | | |
| | GC0712 | OF VALUE | ' DE 'IDEBUG-CONTENTS 'IDEBUG-ITEM 'IDEBUG-LINE | | , PIC | X(33). | | | |
| | | O5 VALUE | 'IDEBUG CONTENTS | | , DIC | X(33). | | | |
| 1919 | | OS VALUE | 'IDEBUG ITEM | | , PIC | X(33). | | | |
| | GC0712 | O5 VALUE | 'IDEBUG-LINE 'IDEBUG-NAME 'IDEBUG-SUB-1 'IDEBUG-SUB-2 | | , PIC | X(33). | | | |
| | GC0712 | O5 VALUE | 'IDEBUG-SUB-1 | | , PIC | X(33). | | | |
| | GC0712 | O5 VALUE | 'IDEBUG-SUB-2 | | , bic | X(33). | | | |
| | GC0712 | O5 VALUE | 'IDEBUG-SUB-3 | | , bic | X(33). | | | |
| 1924 | | 05 VALUE | , DEBUGGING | | , bic | X(33). | | | |
| 1925 | | 05 VALUE | 'IDEBUG-SUB-2 'IDEBUG-SUB-3 'DEBUGGING 'DECIMAL-POINT 'DECLARATIVES 'DEFAULT 'VDELETE 'DELIMITED 'KDELIMITER 'DEPENDING 'DESCENDING 'DESTINATION 'DETAIL 'DISC 'DISK 'VDISPLAY 'FDISPLAY-OF 'VDIVIDE | | , bic | X(33). | | | |
| 1926 | | 05 VALUE | , DECLARATIVES | | , bic | X(33). | | | |
| 1927 | | 05 VALUE | , DEFAULT | | , bic | X(33). | | | |
| 1928 | | 05 VALUE | 'VDELETE | | , bic | X(33). | | | |
| 1929 | | 05 VALUE | , DELIMITED | | , bic | X(33). | | | |
| 1930 | | 05 VALUE | 'KDELIMITER | | , bic | X(33). | | | |
| 1931 | | 05 VALUE | , DEPENDING | | , bic | X(33). | | | |
| 1932 | | 05 VALUE | , DESCENDING | | , bic | X(33). | | | |
| 1933 | | 05 VALUE | ' DESTINATION | | , bic | X(33). | UNIMPLEMENTED | | |
| 1934 | | 05 VALUE | ' DETAIL | | , bic | X(33). | | | |
| 1935 | GC0711 | 05 VALUE | , DISC | | , bic | X(33). | | | |
| 1936 | | O5 VALUE | , DISK | | , PIC | X(33). | | | |
| 1937 | GC1213 | OF VALUE | VDISPLAY | | , PIC | X(33). | HINTMDI EMENTED | | |
| | GC1213 | OF VALUE | 'FDISPLAY-UF | | , PIC | X(33). X(33). | UNIMPLEMENTED | | |
| 1939 1940 | | | 'KDIVIDE | | | X(33). | | | |
| 1941 | | 05 VALUE | | | | X(33). | | | |
| 1942 | | | , DUPLICATES | | | X(33). | | | |
| 1943 | | | , DANUMIC | | | X(33). | | | |
| 1944 | GC1213 | 05 VALUE | | | | X(33). | | | |
| 1945 | 401210 | 05 VALUE | | | | X(33). | | | |
| 1946 | GC0712 | 05 VALUE | | | | X(33). | | | |
| 1947 | | 05 VALUE | | | | X(33). | OBSOLETE | | |
| 1948 | | O5 VALUE | | | | X(33). | | | |
| 1949 | | O5 VALUE | ' EMI | | | X(33). | OBSOLETE | | |
| 1950 | | 05 VALUE | ' EMPTY-CHECK | | | X(33). | | | |
| 1951 | | 05 VALUE | 'VENABLE | | , bic | X(33). | OBSOLETE | | |
| 1952 | GC0710 | 05 VALUE | 'KEND | | , bic | X(33). | | | |

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| 1953 | | | ' END-ACCEPT | | | | X(33). | | | |
| 1954 | | 05 VALUE | | | | | X(33). | | | |
| 1955 | | | ' END-CALL | | | | X(33). | | | |
| 1956 | | | ' END-CHAIN | | | | X(33). | UNIMPLEMENTED | | |
| 1957 | | | ' END-COMPUTE | | | | X(33). | | | |
| 1958 | | O5 VALUE | ' END-DELETE | | | | X(33). | | | |
| 1959 | | O5 VALUE | ' END-DISPLAY | | | | X(33). | | | |
| 1960 | | | ' END-DIVIDE | | | | X(33). | | | |
| 1961 | | | ' END-EVALUATE | | | | X(33). | | | |
| 1962 1963 | | OF VALUE | ' END-MULTIPLY | | | | X(33). X(33). | | | |
| 1963 | | | ' END-OF-PAGE | | | | X(33). | | | |
| 1965 | | | ' END-PERFORM | | | | X(33). | | | |
| 1966 | | | ' END-READ | | | | X(33). | | | |
| 1967 | | | ' END-RECEIVE | | | | X(33). | OBSOLETE | | |
| 1968 | | | ' END-RETURN | | | | X(33). | 02202212 | | |
| 1969 | | | ' END-REWRITE | | | | X(33). | | | |
| 1970 | | O5 VALUE | ' END-SEARCH | | | | X(33). | | | |
| 1971 | | | ' END-START | | | | X(33). | | | |
| 1972 | | O5 VALUE | ' END-STRING | | | , bic | X(33). | | | |
| 1973 | | O5 VALUE | ' END-SUBTRACT | | | , bic | X(33). | | | |
| 1974 | | O5 VALUE | ' END-UNSTRING | | | , bic | X(33). | | | |
| 1975 | | | ' END-WRITE | | | | X(33). | | | |
| 1976 | | O5 VALUE | | | | | X(33). | | | |
| 1977 | | | ' ENTRY-CONVENT | ION | | | X(33). | UNIMPLEMENTED | | |
| 1978 | | | KENVIRONMENT | | | | X(33). | | | |
| 1979 | | | ' ENVIRONMENT-NA | | | | X(33). | | | |
| 1980 | | | ' ENVIRONMENT-V | ALUE | | | X(33). | INTANDI DADAMOD | | |
| 1981 | | O5 VALUE 7 | | | | | X(33). X(33). | UNIMPLEMENTED | | |
| 1982 1983 | | 05 VALUE | | | | | X(33). | | | |
| 1984 | | O5 VALUE | | | | | X(33). | | | |
| 1985 | | O5 VALUE | | | | | X(33). | | | |
| 1986 | | O5 VALUE | • | | | | X(33). | | | |
| 1987 | | 05 VALUE | | | | | X(33). | | | |
| 1988 | | O5 VALUE | | | | | X(33). | | | |
| 1989 | | O5 VALUE | | | | | X(33). | | | |
| 1990 | | O5 VALUE | , ESI | | | , bic | X(33). | OBSOLETE | | |
| 1991 | | O5 VALUE | 'VEVALUATE | | | , bic | X(33). | | | |
| 1992 | | O5 VALUE | ' EXCEPTION | | | , bic | X(33). | | | |
| | | O5 VALUE | 'FEXCEPTION-FIL | Ε | | | X(33). | | | |
| | | | 'FEXCEPTION-FIL | | | | X(33). | UNIMPLEMENTED | | |
| | | | FEXCEPTION-LOC | | | | X(33). | | | |
| 1996 | | | FEXCEPTION-LOC | | | | X(33). | UNIMPLEMENTED | | |
| 1997 | | | ' EXCEPTION-OBJ | | | | X(33). | UNIMPLEMENTED | | |
| 1998 | | | 'FEXCEPTION-STA' | | | | X(33). | | | |
| | | | 'FEXCEPTION-STA' | 105 | | | X(33). | | | |
| 2000 2001 | | O5 VALUE 7 | YEXCLUSIVE | | | | X(33). X(33). | | | |
| | | O5 VALUE | | | | | X(33). | | | |
| 2002 | | O5 VALUE | | | | | X(33). | | | |
| 2004 | | O5 VALUE | | | | | X(33). | UNIMPLEMENTED | | |
| 2005 | | 05 VALUE | | | | | X(33). | | | |
| 2006 | | | ' EXTERNAL | | | | X(33). | | | |
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| 2007 | GC1213 | 05 VALUE | 'FFACTORIAL | | | , bi | C X(33). | | | |
| 2008 | | 05 VALUE | ' FACTORY | | | , bi | C X(33). | UNIMPLEMENTED | | |
| 2009 | | 05 VALUE | ' FALSE | | | , bi | C X(33). | | | |
| 2010 | | 05 VALUE | 'KFD | | | , bi | C X(33). | | | |
| 2011 | | 05 VALUE | 'KFILE | | | , bi | C X(33). | | | |
| 2012 | | 05 VALUE | ' FILE-CONTROL | | | , bi | C X(33). | | | |
| 2013 | | O5 VALUE | ' FILE-ID | | | , bi | C X(33). | | | |
| 2014 | GC1113 | 05 VALUE | ' FILLER | | | , bi | C X(33). | | | |
| 2015 | | O5 VALUE | ' FINAL | | | , bi | C X(33). | | | |
| 2016 | | 05 VALUE | ' FIRST | | | , bi | C X(33). | | | |
| 2017 | GC0712 | 05 VALUE | ' FLOAT-BINARY- | 128 | | , bi | C X(33). | UNIMPLEMENTED UNIMPLEMENTED | | |
| 2018 | GC0712 | 05 VALUE | ' FLOAT-BINARY-3 | 32 | | , bi | C X(33). | | | |
| | GC0712 | | | | | | | UNIMPLEMENTED | | |
| 2020 | | 05 VALUE | ' FLOAT-DECIMAL- ' FLOAT-EXTENDED | -16 | | ' PI | C X(33). | | | |
| 2021 | | 05 VALUE | ' FLOAT-DECIMAL- | -34 | | , bi | C X(33). | | | |
| 2022 | 220 <u>210</u> | 05 VALUE | ' FLUAT-EXTENDED | | | , PI | C X(33). | UNIMPLEMENTED | | |
| | GC0712 | 05 VALUE | ' FLOAT-INFINITY ' FLOAT-LONG | (| | , bi | C X(33). | UNIMPLEMENTED | | |
| 2024 | 000710 | OF VALUE | ' FLUAT-LUNG | IMDED | | , PI | C X(33). | UNIMPLEMENTED | | |
| 2025 | GC0712 | OF VALUE | ' FLOAT-NOT-A-NU ' FLOAT-SHORT ' FOOTING ' FOR ' FOREGROUND-COI | MBEK | | , PI | C X(33). C X(33). C X(33). C X(33). | ONIMPLEMENTED | | |
| 2026 | | OS VALUE | > FOOTING | | | , DI | C X(33). | | | |
| 2027 | | OS VALUE | , EUB | | | , DT | C X(33). | | | |
| 2029 | | OS VALUE | , EUBEGBUIMD-CUI | ΠR | | , DI | C X(33). C X(33). | | | |
| 2029 | | OS VALUE | , EUREGROUND COI | ULLB | | , DI | C X(33). | | | |
| | GC0711 | O5 VALUE | , EUBEVER | 10010 | | , PT | C X(33). | | | |
| 0000 | | O5 VALUE | FOREGROUND-COI FOREVER FORMAT | | | , PT | C X(33). | UNTMPLEMENTED | | |
| 2033 | GC1213 | O5 VALUE | ' FORMAT 'FFORMATTED-CURI | RENT-DATE | | , PI | C X(33). | UNIMPLEMENTED | | |
| 2034 | GC1213 | 05 VALUE | 'FFORMATTED-DATE | [| | , PI | C X(33). | UNIMPLEMENTED | | |
| 2035 | GC1213 | | TECODMATED DATE | ידוארדיםיי | | , DT | α γ (၁၁) | UNIMPLEMENTED | | |
| | GC1213 | 05 VALUE | 'FFORMATTED-TIME | 2 | | , bi | C X(33). | UNIMPLEMENTED | | |
| 2037 | | 05 VALUE | 'FFORMATIED-DAIN' 'FFORMATTED-TIMI 'MFORMFEED 'FFRACTION-PART 'VFREE 'FROM 'FULL 'FUNCTION 'KFUNCTION-ID | | | , bi | C X(33). | | | |
| 2038 | GC1213 | 05 VALUE | 'FFRACTION-PART | | | , bi | C X(33). | | | |
| 2039 | | O5 VALUE | 'VFREE | | | , bi | C X(33). | | | |
| 2040 | | O5 VALUE | ' FROM | | | , bi | C X(33). | | | |
| 2041 | | O5 VALUE | ' FULL | | | , bi | C X(33). | | | |
| 2042 | | 05 VALUE | ' FUNCTION | | | , bi | C X(33). | | | |
| | GC0712 | 05 VALUE | 'KFUNCTION-ID | | | , bi | C X(33). | | | |
| 2044 | | 05 VALUE | ' FUNCTION-POINT | TER | | , bi | C A(33). | UNIMPLEMENTED | | |
| 2045 | | 05 VALUE | ' FUNCTION-POINT' 'VGENERATE ' GET | | | ' PI | C X(33). | | | |
| 2046 | | | | | | | | UNIMPLEMENTED | | |
| 2047 | | 05 VALUE | | | | | C X(33). | | | |
| 2048 | | 05 VALUE | | | | | C X(33). | | | |
| 2049 | | 05 VALUE | | | | | C X(33). | | | |
| 2050 2051 | | 05 VALUE | GREATER | | | | C X(33). C X(33). | | | |
| 2051 | | 05 VALUE | | | | | C X(33). | | | |
| 2052 | | | ' GROUP-USAGE | | | | C X(33). | UNIMPLEMENTED | | |
| 2053 | | | ' HEADING | | | | C X(33). | | | |
| 2055 | | | , HIGH-ANTING | | | | C X(33). | | | |
| 2056 | | | , HIGH-VALUES | | | | C X(33). | | | |
| 2057 | GC1213 | | 'FHIGHEST-ALGEBI | RAIC | | | C X(33). | | | |
| 2058 | | | , HIGHLIGHT | | | | C X(33). | | | |
| 2059 | | O5 VALUE | | | | | C X(33). | | | |
| 2060 | | | ' I-O-CONTROL | | | , bi | C X(33). | | | |
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| 2061 | | 05 VALUE | 'KID | , bic | X(33). | | | |
| 2062 | | 05 VALUE | 'KIDENTIFICATION | , PIC | X(33). | | | |
| 2063 | | 05 VALUE | 'VIF | , PIC | 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 | ' INDEX | | X(33). | | | |
| 2069 | | 05 VALUE | 'KINDEXED | | X(33). | | | |
| 2070 | | 05 VALUE | ' IN ' INDEX 'KINDEXED ' INDICATE ' INDIRECT | | X(33). | | | |
| 2071 | | 05 VALUE | ' INDIRECT | | | UNIMPLEMENTED | | |
| 2072 | | 05 VALUE | ' INHERITS | | X(33). | UNIMPLEMENTED | | |
| 2073 | | 05 VALUE | ' INITIAL | | X(33). | | | |
| 2074 | | O5 VALUE | 'INITIAL 'VINITIALISE 'INITIALISED | | X(33). | | | |
| 2075 2076 | | OF VALUE | 'VINITIALIZE' | | X(33). X(33). | | | |
| 2076 | | OS VALUE | ' INITIALIZED | , DIC | X(33). | | | |
| 2077 | | OS VALUE | 'VINITIALIZED' | , DIC | X(33). | | | |
| 2079 | | 05 VALUE | | | X(33). | | | |
| 2080 | | | 'KINPUT-OUTPUT | | X(33). | | | |
| 2081 | | | 'VINSPECT | , bic | X(33). | | | |
| 2082 | | | ' INSTALLATION 'FINTEGER | | X(33). | OBSOLETE | | |
| 2083 | GC1213 | 05 VALUE | 'FINTEGER | , bic | X(33). | | | |
| 2084 | GC1213 | | 'FINTEGER-OF-BOOLEAN | | X(33). | UNIMPLEMENTED | | |
| | GC1213 | 05 VALUE | 'FINTEGER-OF-DATE | , bic | X(33). | | | |
| | GC1213 | 05 VALUE | 'FINTEGER-OF-DAY | , bic | X(33). | | | |
| | GC1213 | 05 VALUE | 'FINTEGER-OF-FORMATTED-DATE | , PIC | X(33). | UNIMPLEMENTED | | |
| | GC1213 | | 'FINTEGER-PART | | X(33). | | | |
| 2089 | | | ' INTERFACE | | X(33). | UNIMPLEMENTED | | |
| 2090 2091 | | | ' INTERFACE-ID ' INTERMEDIATE | , PIC | X(33). X(33). | UNIMPLEMENTED UNIMPLEMENTED | | |
| 2091 | | 05 VALUE | | | X(33). | ONTHEFERENTED | | |
| 2093 | | 05 VALUE | , INTRINSIC | | X(33). | | | |
| 2094 | | 05 VALUE | ' INVALID | | X(33). | | | |
| 2095 | | 05 VALUE | ' INTRINSIC ' INVALID ' INVOKE ' IS ' JUST ' JUSTIFIED | | X(33). | UNIMPLEMENTED | | |
| 2096 | | 05 VALUE | , IS | | X(33). | | | |
| 2097 | | 05 VALUE | , IS , JUST , JUSTIFIED , KEPT | , bic | X(33). | | | |
| 2098 | | 05 VALUE | , JUSTIFIED | | X(33). | | | |
| 2099 | | | | | X(33). | | | |
| 2100 | | 05 VALUE | | | X(33). | | | |
| 2101 | | | , KEYBOARD | | X(33). | | | |
| 2102 | | 05 VALUE | | | X(33). | | | |
| 2103 2104 | | O5 VALUE | , TC_TT | | X(33). X(33). | UNIMPLEMENTED | | |
| 2104 | | | , TC_COTTALE | | X(33). | UNIMPLEMENTED | | |
| 2106 | | | , TC_CTADE | | X(33). | UNIMPLEMENTED | | |
| 2107 | | | ' LC_MESSAGES | | X(33). | UNIMPLEMENTED | | |
| 2108 | | | ' LC_MONETARY | | X(33). | UNIMPLEMENTED | | |
| 2109 | | | ' LC_NUMERIC | | X(33). | UNIMPLEMENTED | | |
| 2110 | | 05 VALUE | ' LC_TIME | , bic | X(33). | UNIMPLEMENTED | | |
| 2111 | | 05 VALUE | ' LEADING | , bic | X(33). | | | |
| 2112 | | 05 VALUE | | | X(33). | | | |
| 2113 | | | ' LEFT-JUSTIFY | | X(33). | UNIMPLEMENTED | | |
| 2114 | | 05 VALUE | ' LEFTLINE | , bic | X(33). | | | |

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| 2115 | GC1213 | 05 VALUE | 'FLENGTH 'FLENGTH-AN ' LENGTH-CHECK ' LESS ' LIMIT ' LIMITS ' LINAGE 'ILINAGE-COUNTER ' LINE 'ILINE-COUNTER ' LINES 'KLINKAGE 'KLOCAL-STORAGE ' LOCALE 'FLOCALE-COMPARE 'FLOCALE-TIME 'FLOCALE-TIME 'FLOCALE-TIME | , bic | X(33). | |
| 2116 | GC1213 | 05 VALUE | 'FLENGTH-AN | , bic | X(33). | |
| 2117 | | 05 VALUE | ' LENGTH-CHECK | , bic | X(33). | |
| 2118 | | 05 VALUE | , LESS | , bic | X(33). | |
| 2119 | | 05 VALUE | , LIMIT | , bic | X(33). | |
| 2120 | | 05 VALUE | , LIMITS | , bic | X(33). | |
| 2121 | | 05 VALUE | , LINAGE | , bic | X(33). | |
| 2122 | | 05 VALUE | 'ILINAGE-COUNTER | , bic | X(33). | |
| 2123 | | 05 VALUE | ' LINE | , bic | X(33). | |
| 2124 | GC1213 | 05 VALUE | 'ILINE-COUNTER | , bic | X(33). | |
| 2125 | | 05 VALUE | ' LINES | , bic | X(33). | |
| 2126 | | 05 VALUE | 'KLINKAGE | , bic | X(33). | |
| 2127 | | 05 VALUE | 'KLOCAL-STORAGE | , bic | X(33). | |
| 2128 | | 05 VALUE | , LOCALE | , bic | X(33). | |
| 2129 | GC1213 | 05 VALUE | 'FLOCALE-COMPARE | , bic | X(33). | |
| 2130 | GC1213 | 05 VALUE | 'FLOCALE-DATE | , bic | X(33). | |
| 2131 | GC1213 | 05 VALUE | 'FLOCALE-TIME | , bic | X(33). | |
| 2132 | GC1213 | 05 VALUE | 'FLOCALE-TIME 'FLOCALE-TIME-FROM-SECONDS ' LOCK | , bic | X(33). | |
| 2133 | | 05 VALUE | , rock | , bic | X(33). | |
| 2134 | GC1213 | 05 VALUE | 'FLOG | , bic | X(33). | |
| 2135 | GC1213 | 05 VALUE | 'FLOG10 | , bic | X(33). | |
| 2136 | | 05 VALUE | ' LOW-VALUE | , bic | X(33). | |
| 2137 | | 05 VALUE | ' LOW-VALUES | , bic | X(33). | |
| 2138 | | 05 VALUE | , LOWER | , bic | X(33). | |
| 2139 | GC1213 | 05 VALUE | 'FLOWER-CASE | , bic | X(33). | |
| 2140 | GC1213 | 05 VALUE | 'FLOWEST-ALGEBRAIC | , bic | X(33). | |
| 2141 | | 05 VALUE | 'FLOCALE-TIME-FROM-SECONDS ' LOCK 'FLOG 'FLOG10 ' LOW-VALUE ' LOW-VALUES ' LOWER 'FLOWER-CASE 'FLOWEST-ALGEBRAIC ' LOWLIGHT ' MANUAL 'FMAX 'FMEAN 'FMEDIAN ' MEMORY 'VMERGE ' MESSAGE ' METHOD ' METHOD-ID 'FMIDRANGE 'FMIN ' MINUS 'FMOD ' MODE | , bic | X(33). | |
| 2142 | | 05 VALUE | ' MANUAL | , bic | X(33). | |
| 2143 | GC1213 | O5 VALUE | 'FMAX | , bic | X(33). | |
| 2144 | GC1213 GC1213 GC1213 | O5 VALUE | 'FMEAN | , bic | X(33). | |
| 2145 | GC1213 | 05 VALUE | 'FMEDIAN | , bic | X(33). | |
| 2146 | | 05 VALUE | ' MEMORY | , bic | X(33). | |
| 2147 | | O5 VALUE | 'VMERGE | , bic | X(33). | |
| 2148 | | 05 VALUE | ' MESSAGE | , bic | X(33). X(33). | OBSOLETE |
| 2149 | | O5 VALUE | ' METHOD | , bic | X(33). | UNIMPLEMENTED |
| 2150 | | O5 VALUE | ' METHOD-ID | , bic | X(33). | UNIMPLEMENTED |
| 2151 | GC1213 GC1213 | O5 VALUE | 'FMIDRANGE | , bic | X(33). | |
| 2152 | GC1213 | O5 VALUE | 'FMIN | , bic | X(33). | |
| | | O5 VALUE | ' MINUS | , bic | X(33). | |
| 2154 | GC1213 | O5 VALUE | 'FMOD | , bic | X(33). | |
| 2155 | | 05 VALUE | ' MODE | , bic | X(33). | |
| 2156 | GC1213 | 05 VALUE | 'FMODULE-CALLER-ID | , bic | X(33). | |
| 2157 | GC1213 | O5 VALUE | 'FMODULE-DATE | , bic | X(33). | |
| 2158 | GC1213 | O5 VALUE | 'FMODULE-FORMATTED-DATE | , bic | X(33). | |
| 2159 | GC1213 | O5 VALUE | 'FMODULE-ID | , bic | X(33). | |
| 2160 | GC1213 | O5 VALUE | 'FMODULE-PATH | , bic | X(33). | |
| 2161 | GC1213 | O5 VALUE | 'FMODULE-SOURCE | | X(33). | |
| 2162 | GC1213 | 05 VALUE | 'FMODULE-TIME | | X(33). | |
| 2163 | GC1213 | | 'FMONETARY-DECIMAL-POINT | | X(33). | |
| 2164 | GC1213 | 05 VALUE | 'FMONETARY-THOUSANDS-SEPARATOR | | X(33). | |
| 2165 | | 05 VALUE | | | X(33). | |
| 2166 | | | ' MULTIPLE | | X(33). | |
| 2167 | | 05 VALUE | 'VMULTIPLY | | X(33). | |
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| 2170 | | 05 VALUE | ' NATIONAL-EDITED | , P | IC X(33). | | |
| 2171 | GC1213 | 05 VALUE | 'FNATIONAL-OF | , P | IC X(33). | UNIMPLEMENTED | |
| 2172 | | 05 VALUE | ' NATIVE | | IC X(33). | | |
| 2173 | | 05 VALUE | ' NEAREST-AWAY-FROM-ZERO | , P | IC X(33). | | |
| 2174 | | | ' NEAREST-EVEN | , P | IC X(33). | | |
| 2175 | | 05 VALUE | ' NEAREST-TOWARD-ZERO | , P | IC X(33). | | |
| 2176 | | 05 VALUE | ' NEGATIVE | , b | IC X(33). | | |
| 2177 | | | ' NESTED | | IC X(33). | UNIMPLEMENTED | |
| 2178 | | 05 VALUE | | | IC X(33). | | |
| 2179 | | 05 VALUE | | | IC X(33). | | |
| 2180 | | | , NO-ECHO | | IC X(33). | | |
| 2181 | | 05 VALUE | | | IC X(33). | UNIMPLEMENTED | |
| 2182 | | | ' NORMAL | | IC X(33). | | |
| 2183 | | 05 VALUE | | | IC X(33). | | |
| 2184 | | 05 VALUE | | | IC X(33). | | |
| 2185 | | 05 VALUE | | | IC X(33). | | |
| 2186 2187 | | | ' NUMBER | | IC X(33). IC X(33). | | |
| 2188 | | | 'INUMBER-OF-CALL-PARAMETI 'NUMBERS | | IC X(33). | | |
| 2189 | | | ' NUMERIC | | IC X(33). | | |
| 2199 | GC1213 | | 'FNUMERIC-DECIMAL-POINT | | IC X(33). | | |
| 2190 | 001213 | | ' NUMERIC-EDITED | | IC X(33). | | |
| | GC1213 | | 'FNUMERIC-THOUSANDS-SEPAR | | IC X(33). | | |
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| 2197 | | | OBJECT-COMPUTER | | IC X(33). | | |
| 2198 | | 05 VALUE | OBJECT-REFERENCE | , P | IC X(33). | UNIMPLEMENTED | |
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| 2200 | | 05 VALUE | ' OF | , P | IC X(33). | | |
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| 2203 | | 05 VALUE | | , P | IC X(33). | | |
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| 2218 | | | OVERLINE | | IC X(33). | | |
| 2219 | | | ' OVERRIDE | | IC X(33). | | |
| 2220 | | | ' PACKED-DECIMAL | | IC X(33). | | |
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| 2225 | | O5 VALUE | 'VPERFORM | | | | X(33). | | | |
| 2226 | | O5 VALUE | | | | | X(33). | | | |
| 2227 | | 05 VALUE | | | | | X(33). | | | |
| 2228 | GC1213 | | | | | | X(33). | | | |
| 2229 | | 05 VALUE | 'KPIC | | | | X(33). | | | |
| 2230 | | | 'KPICTURE | | | | X(33). | | | |
| 2231 | | 05 VALUE | | | | | X(33). | | | |
| 2232 2233 | | OF VALUE | 'KPOINTER ' POSITION | | | | X(33). X(33). | | | |
| 2234 | | OS VALUE | , POSITIVE | | | | X(33). | | | |
| 2235 | | | , PREFIXED | | | | X(33). | UNIMPLEMENTED | | |
| 2236 | | | , PRESENT | | | | X(33). | | | |
| | GC1213 | O5 VALUE | 'FPRESENT-VALUE | | | | X(33). | | | |
| 2238 | | | , PREVIOUS | | | | X(33). | | | |
| 2239 | | | 'MPRINTER | | | | X(33). | | | |
| 2240 | | O5 VALUE | ' PRINTING | | | , bic | X(33). | | | |
| 2241 | | | 'KPROCEDURE | | | | X(33). | | | |
| 2242 | | | ' PROCEDURE-POI | NTER | | | X(33). | | | |
| 2243 | | | , PROCEDURES | | | | X(33). | | | |
| 2244 | | | , broceed | | | | X(33). | | | |
| 2245 | | 05 VALUE | ' PROGRAM | | | | X(33). | | | |
| 2246 | | | 'KPROGRAM-ID | | | | X(33). | | | |
| 2247 | | | , PROGRAM-POINT | ER | | | X(33). | | | |
| 2248 | | | , PROHIBITED | | | | X(33). | | | |
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| 2252 | | 05 VALUE | PROTOTYPE | | | | X(33). | OBSOLETE | | |
| 2253 | | 05 VALUE | | | | | X(33). | OBSOLETE | | |
| 2254 | | 05 VALUE | • | | | | X(33). | | | |
| 2255 | | 05 VALUE | | | | | X(33). | | | |
| 2256 | | 05 VALUE | | | | , bic | X(33). | UNIMPLEMENTED | | |
| 2257 | | O5 VALUE | ' RAISING | | | , bic | X(33). | UNIMPLEMENTED | | |
| 2258 | GC1213 | 05 VALUE | 'FRANDOM | | | | X(33). | | | |
| 2259 | | | | | | | X(33). | | | |
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| 2261 | | 05 VALUE | | | | | X(33). | | | |
| 2262 | | 05 VALUE | | | | | X(33). | 0D 001 FFF | | |
| 2263 | | | 'VRECEIVE | | | | X(33). | OBSOLETE | | |
| 2264 | | 05 VALUE | | | | | X(33). | | | |
| 2265 2266 | | | ' RECORDING ' RECORDS | | | | X(33). X(33). | | | |
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| 2268 | | | 'KREDEFINES | | | | X(33). | | | |
| 2269 | | 05 VALUE | | | | | X(33). | | | |
| 2270 | GC0712 | | 'AREFERENCE | | | | X(33). | | | |
| 2271 | | | , REFERENCES | | | | X(33). | | | |
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| 2273 | | 05 VALUE | ' RELATIVE | | | , bic | X(33). | | | |
| 2274 | | 05 VALUE | 'VRELEASE | | | , bic | X(33). | | | |
| 2275 | GC1213 | O5 VALUE | | | | | X(33). | | | |
| 2276 | | 05 VALUE | ' REMAINDER | | | , bic | X(33). | | | |

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| 2278 | 0! | 5 VALUE | , REMOVAL | | | , bic | X(33). | | | |
| 2279 | 0! | 5 VALUE | 'KRENAMES | | | , bic | X(33). | | | |
| 2280 | 0! | 5 VALUE | , REPLACE | | | , bic | X(33). | | | |
| 2281 | 0! | 5 VALUE | 'KREPLACING | | | , bic | X(33). | | | |
| 2282 | 0! | 5 VALUE | 'KREPORT | | | , bic | X(33). | | | |
| 2283 | 0! | 5 VALUE | ' REPORTING | | | , bic | X(33). | | | |
| 2284 | 0! | 5 VALUE | ' REPORTS | | | | X(33). | | | |
| 2285 | 0! | 5 VALUE | ' REPOSITORY | | | | X(33). | | | |
| 2286 | | | ' REQUIRED | | | , bic | X(33). | | | |
| 2287 | | | ' RESERVE | | | | X(33). | | | |
| 2288 | | | 'VRESET | | | | X(33). | | | |
| 2289 | | | ' RESUME | | | | X(33). | UNIMPLEMENTED | | |
| 2290 | | | ' RETRY | | | | X(33). | UNIMPLEMENTED | | |
| 2291 | | | 'VRETURN | | | | X(33). | | | |
| 2292 | | | 'IRETURN-CODE | | | | X(33). | | | |
| 2293 | | | 'KRETURNING | | | | X(33). | | | |
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| 2295 | | | , REVERSE-VIDEO | | | | X(33). | | | |
| 2296 | | | ' REVERSED | | | | X(33). | | | |
| 2297 | | | ' REWIND | | | | X(33). | | | |
| 2298 | | | 'VREWRITE | | | | X(33). | | | |
| 2299 | | 5 VALUE | | | | | X(33). | | | |
| 2300 2301 | | 5 VALUE | ' RIGHT | | | | X(33). X(33). | | | |
| 2301 | | | ' RIGHT-JUSTIFY | | | | X(33). | UNIMPLEMENTED | | |
| 2302 | | | 'VROLLBACK | | | | X(33). | ONTHEFERENTED | | |
| 2303 | | | , ROUNDED | | | | X(33). | | | |
| 2305 | | | , ROUNDING | | | | X(33). | UNIMPLEMENTED | | |
| 2306 | | 5 VALUE | | | | | X(33). | | | |
| 2307 | | 5 VALUE | | | | | X(33). | | | |
| 2308 | | | 'KSCREEN | | | | X(33). | | | |
| 2309 | | | , SCROLL | | | | X(33). | | | |
| 2310 | 0! | 5 VALUE | 'KSD | | | | X(33). | | | |
| 2311 | 0! | 5 VALUE | 'VSEARCH | | | | X(33). | | | |
| 2312 | 0! | 5 VALUE | , SECONDS | | | , bic | X(33). | UNIMPLEMENTED | | |
| 2313 | GC1213 0 | 5 VALUE | 'FSECONDS-FROM- | FORMAT: | TED-TIME | , bic | X(33). | | | |
| 2314 | GC1213 0 | 5 VALUE | 'FSECONDS-PAST- | MIDNIG | HT | , bic | X(33). | | | |
| 2315 | 0! | 5 VALUE | 'KSECTION | | | , bic | X(33). | | | |
| 2316 | 0! | 5 VALUE | ' SECURE | | | , bic | X(33). | | | |
| 2317 | 0! | 5 VALUE | ' SECURITY | | | , bic | X(33). | OBSOLETE | | |
| 2318 | 0! | 5 VALUE | , SEGMENT | | | , bic | X(33). | OBSOLETE | | |
| 2319 | 0! | 5 VALUE | ' SEGMENT-LIMIT | | | , bic | X(33). | | | |
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| 2321 | | 5 VALUE | | | | | X(33). | UNIMPLEMENTED | | |
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| 2325 | | | , SEQUENCE | | | | X(33). | | | |
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| 2327 | | 5 VALUE | | | | | X(33). | | | |
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| 2332 | | 05 VALUE | ' SIGNED-LONG | | , bic | X(33). | | | |
| 2333 | | 05 VALUE | , SIGNED-SHORT | | , bic | X(33). | | | |
| 2334 | GC1213 | 05 VALUE | 'FSIN | | , bic | X(33). | | | |
| 2335 | | 05 VALUE | ' SIGNED-SHORT 'FSIN ' SIZE 'VSORT ' SORT-MERGE | | , 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 | | 05 VALUE | 'ISORT-RETURN 'SOURCE 'SOURCE-COMPUTER 'SOURCES 'SPACE 'SPACE 'SPACE-FILL 'SPACES | | , bic | X(33). | UNIMPLEMENTED | | |
| 2342 | | 05 VALUE | ' SPACE | | , bic | X(33). | | | |
| 2343 | | 05 VALUE | , SPACE-FILL | | , PIC | | UNIMPLEMENTED | | |
| 2344 | | 05 VALUE | SPACES | | , PIC | X(33). | | | |
| 2345 | 004040 | 05 VALUE | SPECIAL-NAMES | | , bic | X(33). | | | |
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| 2347 2348 | | OF VALUE | ' SIANDARD | | , PIC | X(33). | | | |
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| 2350 | | OS VALUE | ' STANDARD-BINARY | | , DIC | X(33). | UNIMPLEMENTED | | |
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| 2352 | 401210 | | 'FSTANDARD-COMPARI 'STANDARD-DECIMAL | <u></u> Т. | , bic | X(33). | UNIMPLEMENTED | | |
| 2353 | GC1213 | O5 VALUE | 'FSTANDARD-DEVIAT | TON | , bic | X(33). | | | |
| 2354 | 401210 | 05 VALUE | 'VSTART | | , bic | X(33). | | | |
| 2355 | | 05 VALUE | ' STATEMENT | | | | UNIMPLEMENTED | | |
| 2356 | | 05 VALUE | , STATIC | | | X(33). | | | |
| 2357 | | 05 VALUE | ' STATEMENT ' STATIC ' STATUS ' STDCALL 'MSTDERR 'MSTDIN 'MSTDOUT ' STEP | | , bic | X(33). | | | |
| 2358 | | 05 VALUE | , STDCALL | | , bic | X(33). | | | |
| 2359 | | 05 VALUE | 'MSTDERR | | | X(33). | | | |
| 2360 | | 05 VALUE | 'MSTDIN | | | X(33). | | | |
| 2361 | | 05 VALUE | 'MSTDOUT | | | X(33). | | | |
| 2362 | | OO VALOL | ОТЫ | | | X(33). | | | |
| 2363 | | 05 VALUE | 'VSTOP | | , bic | X(33). | | | |
| | GC1213 | 05 VALUE | 'FSTORED-CHAR-LENG | GTH | , bic | X(33). | | | |
| 2365 | | OS VALUE | VSTRING | | , PIC | X(33). | | | |
| 2366 | | O5 VALUE | ' STRUNG | | , bic | X(33). | UNIMPLEMENTED | | |
| 2367 2368 | | OS VALUE | , SOR-MOFOF-1 | | , bic | X(33). X(33). | OBSOLETE OBSOLETE | | |
| 2369 | | OS VALUE | 20B-MOEOE-5 | | , DIC | X(33). | OBSOLETE | | |
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| | GC1213 | O5 VALUE | 'FSUBSTITUTE-CASE | | , bic | X(33). | | | |
| 2372 | 401210 | | 'VSUBTRACT | | | X(33). | | | |
| 2373 | GC1213 | 05 VALUE | | | | X(33). | | | |
| 2374 | | 05 VALUE | | | | X(33). | UNIMPLEMENTED | | |
| 2375 | | 05 VALUE | 'VSUPPRESS | | , bic | X(33). | | | |
| 2376 | | 05 VALUE | 'MSWO | | , bic | X(33). | | | |
| 2377 | | 05 VALUE | 'MSW1 | | , bic | X(33). | | | |
| 2378 | | 05 VALUE | | | , bic | 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). | | | |
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| 2386 | | 05 VALUE | | | | , bic | X(33). | | | |
| 2387 | | 05 VALUE | 'MSW5 | | | | X(33). | | | |
| 2388 | | 05 VALUE | | | | | X(33). | | | |
| 2389 | | 05 VALUE | | | | | X(33). | | | |
| 2390 | | 05 VALUE | | | | | X(33). | | | |
| 2391 | | 05 VALUE | | | | | X(33). | | | |
| 2392 | | | 'MSWITCH-O | | | | X(33). | | | |
| 2393 | | | 'MSWITCH-1 | | | | X(33). | | | |
| 2394 | | | 'MSWITCH-10 | | | | X(33). | | | |
| 2395 | | | 'MSWITCH-11 | | | | X(33). | | | |
| 2396 | | | 'MSWITCH-12 | | | | X(33). | | | |
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| 2399 | | | 'MSWITCH-15 | | | | X(33). | | | |
| 2400 | | | 'MSWITCH-2 | | | | X(33). | | | |
| 2400 | | | 'MSWITCH-3 | | | | X(33). | | | |
| 2401 | | | 'MSWITCH-4 | | | | X(33). | | | |
| | | | 'MSWITCH-5 | | | | | | | |
| 2403 | | | | | | | X(33). | | | |
| 2404 | | | 'MSWITCH-6 | | | | X(33). | | | |
| 2405 | | | 'MSWITCH-7 | | | | X(33). | | | |
| 2406 | | | 'MSWITCH-8 | | | | X(33). | | | |
| 2407 | | | 'MSWITCH-9 | | | | X(33). | INTANI DADAMON | | |
| 2408 | | | , SYMBOL | | | | X(33). | UNIMPLEMENTED | | |
| 2409 | | | ' SYMBOLIC | | | | X(33). | | | |
| 2410 | | 05 VALUE | | | | | X(33). | | | |
| 2411 | | | ' SYNCHRONISED | | | | X(33). | | | |
| 2412 | | | ' SYNCHRONIZED | | | | X(33). | | | |
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| 2414 | | 05 VALUE | | | | | X(33). | | | |
| 2415 | | | 'MSYSIPT | | | | X(33). | | | |
| 2416 | | | 'MSYSLIST | | | | X(33). | | | |
| 2417 | | | 'MSYSLST | | | | X(33). | | | |
| 2418 | | | 'MSYSOUT | | | | X(33). | | | |
| 2419 | | | ' SYSTEM-DEFAULT | | | | X(33). | | | |
| 2420 | | 05 VALUE | | | | | X(33). | UNIMPLEMENTED | | |
| 2421 | | | 'KTALLYING | | | | X(33). | | | |
| 2422 | | 05 VALUE | | | | , bic | X(33). | | | |
| 2423 | | 05 VALUE | ' TAPE | | | , bic | X(33). | | | |
| 2424 | | | ' TERMINAL | | | | X(33). | OBSOLETE | | |
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| 2426 | | 05 VALUE | ' TEST | | | | X(33). | | | |
| 2427 | GC1213 | 05 VALUE | 'FTEST-DATE-YYYY | MMDD | | | X(33). | | | |
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| 2433 | | 05 VALUE | | | | | X(33). | OBSOLETE | | |
| 2434 | | 05 VALUE | ' THAN | | | , bic | X(33). | | | |
| 2435 | | 05 VALUE | ' THEN | | | , bic | X(33). | | | |
| 2436 | | 05 VALUE | ' THROUGH | | | , bic | X(33). | | | |
| 2437 | | 05 VALUE | | | | , bic | X(33). | | | |
| 2438 | | 05 VALUE | ' TIME | | | , bic | X(33). | | | |
| | | | | | | | | | | |

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|--------------|-----------|----------|--|----------|------|-----------|------------------|--------------------------------|------|----|
| 2439 | GC0711 | 05 VALUE | , TIME-OUT | | | , bic | X(33). | | | |
| 2440 | GC0711 | 05 VALUE | ' TIMEOUT ' TIMES 'KTO ' TOP ' TOWARD-GREATE | | | , bic | X(33). | | | |
| 2441 | | 05 VALUE | ' TIMES | | | , bic | X(33). | | | |
| 2442 | | 05 VALUE | 'KTO | | | , bic | X(33). | | | |
| 2443 | | 05 VALUE | ' TOP | | | , bic | X(33). | | | |
| 2444 | | 05 VALUE | ' TOWARD-GREATE | R | | | X(33). | | | |
| 2445 | | 05 VALUE | ' TOWARD-LESSER | | | , bic | X(33). | | | |
| 2446 | | O5 VALUE | ' TRAILING | | | , bic | X(33). | | | |
| 2447 | | | ' TRAILING-SIGN | | | , bic | X(33). | UNIMPLEMENTED | | |
| 2448 | ~~.~. | | 'VTRANSFORM | | | | X(33). | | | |
| 2449 | GC1213 | 05 VALUE | | | | | X(33). | | | |
| 2450 | | 05 VALUE | , TRUE | | | , PIC | X(33). | | | |
| 2451 | | O5 VALUE | ' TRUNCATION | | | , PIC | X(33). | | | |
| 2452 | | OF VALUE | ' TYPE ' TYPEDEF ' UCS-4 ' UNDERLINE | | | | X(33). | HINTMDI EMENTED | | |
| 2453 2454 | | OF VALUE | · ITPEDEF | | | | X(33). X(33). | UNIMPLEMENTED | | |
| 2454 | | OF VALUE | , 11NDEDLINE | | | | X(33). | UNIMPLEMENTED | | |
| 2455 2456 | | OS VALUE |) HINTT | | | | X(33). | | | |
| 2450 | | OS VALUE | , IINTALBOVI | | | | X(33). | UNIMPLEMENTED | | |
| 2458 | | OS VALUE | ' UNIT ' UNIVERSAL 'VUNLOCK | | | | X(33). | ONTIN ELILINIED | | |
| 2459 | | | | | | | X(33). | | | |
| 2460 | | | | | | | X(33). | | | |
| 2461 | | O5 VALUE | ' UNSIGNED-INT ' UNSIGNED-LONG ' UNSIGNED-SHOR' 'VUNSTRING | | | , bic | X(33). | | | |
| 2462 | | 05 VALUE | , UNSIGNED-SHOR | Γ | | , bic | X(33). | | | |
| 2463 | | 05 VALUE | 'VUNSTRING | | | , bic | X(33). | | | |
| 2464 | | 05 VALUE | ' UNTIL | | | , bic | X(33). | | | |
| 2465 | | 05 VALUE | 'KUP | | | , bic | X(33). | | | |
| 2466 | | 05 VALUE | 'KUP ' UPDATE ' UPON ' UPPER 'FUPPER-CASE | | | , bic | X(33). | | | |
| 2467 | | 05 VALUE | ' UPON | | | , bic | X(33). | | | |
| 2468 | | 05 VALUE | ' UPPER | | | , bic | X(33). | | | |
| | GC1213 | 05 VALUE | 'FUPPER-CASE | | | | X(33). | | | |
| 2470 | | US VALUE | USAGE | | | | X(33). | | | |
| 2471 | | 05 VALUE | | | | | X(33). | | | |
| | GC0711 | 05 VALUE | ' USER | | | | X(33). | | | |
| 2473 | | 05 VALUE | ' USER-DEFAULT 'KUSING | | | | X(33). | | | |
| 2474 | | 05 VALUE | 'KUSING | | | | X(33). | INTANT DADAMED | | |
| 2475 | | OF VALUE | , TLLE 0 | | | | X(33). | UNIMPLEMENTED | | |
| 2476 2477 | | OS VALUE | VII-O | | | | X(33). X(33). | UNIMPLEMENTED UNIMPLEMENTED | | |
| 2477 | | OS VALUE | ' USER-DEFAULT 'KUSING ' UTF-16 ' UTF-8 ' VAL-STATUS ' VALID ' VALIDATE ' VALIDATE-STATU | | | | X(33). | UNIMPLEMENTED | | |
| 2479 | | O5 VALUE | , ATTDATE | | | | X(33). | UNIMPLEMENTED | | |
| 2480 | | OS VALUE | , NALIDATE-STATI | rig. | | | X(33). | UNIMPLEMENTED | | |
| | GC0712 | 05 VALUE | 'AVALUE. | | | | X(33). | | | |
| 2482 | 400.12 | 05 VALUE | | | | | X(33). | | | |
| 2483 | GC1213 | | 'FVARIANCE | | | | X(33). | | | |
| 2484 | | | 'KVARYING | | | | X(33). | | | |
| 2485 | | 05 VALUE | , VDISABLE | | | | X(33). | UNIMPLEMENTED | | |
| 2486 | | 05 VALUE | | | | | X(33). | | | |
| 2487 | | 05 VALUE | 'VWHEN | | | , bic | X(33). | | | |
| 2488 | GC1213 | 05 VALUE | 'FWHEN-COMPILED | | | , bic | X(33). | | | |
| 2489 | | 05 VALUE | ' WITH | | | , bic | X(33). | | | |
| 2490 | | 05 VALUE | ' WORDS | | | | X(33). | | | |
| 2491 | | | 'KWORKING-STORAG | GE | | | X(33). | | | |
| 2492 | | 05 VALUE | 'VWRITE | | | , bic | 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 ' ZEROES | ' PIC X(33). | UNIMPLEMENTED | | |
| 2502 2503 2504 2505 | GC1113 | O1 | 10 WS-RW-Type-CD | 754 TIMES ASCENDING KEY WS-RW-Word-TXT INDEXED WS-RW-IDX. PIC X(1). | | | |
| 2506 2507 2508 | | 01 | 10 WS-RW-Word-TXT WS-Runtime-Switches. | PIC X(32). | | | |
| 2509 2510 2511 2512 2513 2514 | GC0710 | | 05 WS-RS-Duplicate-CHR 05 WS-RS-In-Which-Pgm-CHR 88 WS-RS-In-Main-Module-BOOL 88 WS-RS-In-Copybook-BOOL 05 WS-RS-Last-Token-Ended-Sent-CHR 05 WS-RS-Processing-PICTURE-CHR | PIC X(1). PIC X(1). VALUE 'M'. VALUE 'C'. PIC X(1). PIC X(1). | | | |
| 2515 2516 2517 2518 2519 | GC0710 | | 05 WS-RS-Verb-Has-Been-Found-CHR | PIC X(1). PIC X(1). PIC X(15). | | | |
| 2520 2521 | GC1213 GC0712 GC0712 | | WS-Src-Dashes-TXT. 05 VALUE '======' 05 VALUE ALL '=' | PIC X(7). PIC X(128). | | | |
| 2524 2525 2526 2527 2528 | | 01 | | PIC ZZZZZ9. PIC X(1). PIC X(256). | | | |
| 2529 2530 | GC1213 | | | PIC X(256). | | | |
| 2531 2532 2533 | GC1213 | | WS-Src-Line-NUM WS-Src-Lines-NUM | PIC 9(6). USAGE BINARY-LONG. | | | |
| 2534 2535 2536 | | 01 | WS-Src-SUB | USAGE BINARY-LONG. | | | |
| 2537 2538 | | 01 | WS-Tally-QTY | USAGE BINARY-LONG. | | | |
| 2539 2540 2541 | | 01 | - | PIC X(10). | | | |
| 2541 2542 2543 | GC0711 | | • | PIC X(32). PIC X(32). | | | |
| 2544 2545 2546 | | | • | 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
                                                       PIC 9(8).
 2551
              01 WS-Today-DT
 2552
              01 WS-Token-Curr-TXT
                                                       PIC X(32).
 2553
 2554
              01 WS-Token-Curr-Uc-TXT
                                                       PIC X(32).
 2555
 2556
 2557
              01 WS-Token-Prev-TXT
                                                       PIC X(32).
 2558
 2559
              01 WS-Token-Search-TXT
                                                       PIC X(32).
 2560
 2561
              01 WS-Token-Type-CD
                                                       PIC X(1).
 2562 GC0712
                 88 WS-TT-Token-Is-Argtype-BOOL
                                                       VALUE 'A'.
                 88 WS-TT-Token-Is-EOF-BOOL
 2563
                                                       VALUE HIGH-VALUES.
 2564 GC1213 88 WS-TT-Token-Is-Function-BOOL
                                                      VALUE 'F'.
                88 WS-TT-Token-Is-Identifier-BOOL
                                                      VALUE 'I'.
 2565
 2566 GC0712 88 WS-TT-Token-Is-Keyword-B00L
               88 WS-TT-Token-Is-Keyword-BOOL
88 WS-TT-Token-Is-Lit-Alpha-BOOL
                                                       VALUE 'K', 'V', 'A'.
 2567
                                                       VALUE 'L'.
                88 WS-TT-Token-Is-Lit-Number-B00L
 2568
                                                       VALUE 'N'.
 2569
                  88 WS-TT-Token-Is-Verb-BOOL
                                                       VALUE 'V'.
 2570 GC1213
                  88 WS-TT-Token-Is-Reserved-Wd-BOOL
                                                       VALUE ' ', 'F'.
 2571
 2572
             01 WS-Usernames-QTY
                                                       USAGE BINARY-LONG.
 2573
 2574
             01 WS-Version-TXT
                                                       PIC X(23).
 2575
            01 WS-Xref-Detail-Line-TXT.
 2576
                05 WS-XDL-Prog-ID-TXT
                                                       PIC X(15).
 2577
 2578
                 05 FILLER
                                                       PIC X(1).
                                                      PIC X(32).
                 05 WS-XDL-Token-TXT
 2579
                 05 FILLER
 2580
                                                      PIC X(1).
                 05 WS-XDL-Def-Line-NUM
                                                      PIC ZZZZZ9.
 2581
 2582
                 05 FILLER
                                                      PIC X(1).
                 05 WS-XDL-Section-TXT
 2583
                                                      PIC X(15).
                 05 FILLER
 2584
                                                      PIC X(1).
 2585
                 05 WS-XDL-Reference-TXT
                                                      OCCURS 8 TIMES.
 2586
                    10 WS-XDL-Ref-Line-NUM
                                                      PIC ZZZZZ9.
 2587
                    10 WS-XDL-Ref-Flag-CHR
                                                      PIC X(1).
 2588
                     10 FILLER
                                                       PIC X(1).
 2589
 2590 GC1213 01 WS-Xref-Lines-Per-Rec-NUM
                                                       PIC 9(1).
 2591
              LINKAGE SECTION.
 2592
 2593 GC0712 01 L-Listing-Fn-TXT
                                                       PIC X(256).
 2594
              01 L-Src-Fn-TXT
 2595
                                                       PIC X(256).
 2596
 2597 GC0712 01 L-OS-Type-CD
                                                       PIC 9(1).
 2598
 2599 GC1213 01 L-LPP-NUM
                                                       USAGE BINARY-LONG.
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                                                                                         Page
 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
                                     L-OS-Type-CD
 2607 GC0712
 2608 GC1213
                                     L-LPP-NUM
 2609 GC1213
                                     L-LPP-Port-NUM
 2610 GC1213
                                     L-Listing-CD.
 2611
             000-Main SECTION.
 2612
               PERFORM 100-Initialization
 2613 GC0712
                OPEN OUTPUT F-Listing-FILE
 2614 GC0712 PERFORM 500-Produce-Source-Listing
 2615 GC0712 SORT F-Sort-Work-FILE
 2616 GC0712
                  ASCENDING KEY
                                     F-SW-Prog-ID-TXT
 2617 GC0712
                                     F-SW-Token-Uc-TXT
 2618 GC0712
                                     F-SW-Ref-Line-NUM
 2619 GC0712
                     INPUT PROCEDURE 300-Tokenize-Source
 2620 GC0712
                     OUTPUT PROCEDURE 400-Produce-Xref-Listing
 2621 GC0712
                CLOSE F-Listing-FILE
 2622
                 GOBACK
 2623
 2624
 2625
            *>**********************
 2626
            *> Perform all program-wide initialization operations
 2627
            *>*********************
 2628
             100-Initialization SECTION.
 2629 GC1213 MOVE 0 TO WS-Page-NUM
                MOVE 'N' TO WS-Suppress-FF-CHR
 2630 GC1213
 2631 GC1213 MOVE SPACES TO WS-Copyright-TXT
 2632 GC1213 STRING 'GCic for '
                                                   DELIMITED SIZE
                       WS-OS-Type-TXT(L-OS-Type-CD) DELIMITED SPACE
 2633 GC1213
 2634 VC0820
                        ' Copyright (C) 2009-'
                                                  DELIMITED SIZE
 2635 VC0322
                        COMP-YEAR
                                                   DELIMITED SIZE
 2636 VC0322
                        ', Gary L. Cutler, GPL'
                                                  DELIMITED SIZE
                        INTO WS-Copyright-TXT
 2637 GC1213
 2638 VC0811*> See const-set-1.cpy for constants used
 2639 VC0811*>
                 MOVE 'GNUCOBOL 3.1.2 O6MAR2022' TO WS-Version-TXT
 2640
 2641 VC0811
                         Comp-Vers to
                                        WS-Version-TXT.
                 move
 2642
                 MOVE TRIM(L-Src-Fn-TXT, Leading) TO L-Src-Fn-TXT
 2643 GC1010
                 PERFORM VARYING WS-I-SUB FROM LENGTH(L-Src-Fn-TXT) BY -1
 2644
            *> Locate last directory delimiter character so that the filename can be extracted
                           UNTIL L-Src-Fn-TXT(WS-I-SUB:1) = '/' OR '\'
 2645 GC1010
 2646 GC1010
                                OR WS-I-SUB = 0
 2647
       VC0322
                           continue
 2648 GC1010
                 END-PERFORM
 2649 GC1010
                 IF WS-I-SUB = 0
 2650 GC1010
                     MOVE UPPER-CASE(L-Src-Fn-TXT) TO WS-Main-Module-Name-TXT
 2651
           *> No directory delimiter, whole thing is filename
 2652 GC1010
                ELSE.
 2653 GC1010
                    ADD 1 TO WS-I-SUB
 2654 GC1010
                    MOVE UPPER-CASE(L-Src-Fn-TXT(WS-I-SUB:))
```

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

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 2709
                  OPEN INPUT F-Expanded-Src-FILE
                  MOVE SPACES TO F-Expanded-Src-REC
 2710
 2711
                  MOVE 256 TO WS-Src-SUB
 2712
                  MOVE 0 TO WS-Usernames-QTY
 2713
                            WS-Curr-Line-NUM
                  MOVE '?' TO WS-Curr-Division-TXT
 2714
 2715 GC0710
                  MOVE 'N' TO WS-RS-Verb-Has-Been-Found-CHR
                  PERFORM FOREVER
 2716
                      PERFORM 310-Get-Token
 2717
 2718
                      IF WS-TT-Token-Is-EOF-BOOL
 2719
                          EXIT PERFORM
 2720
                      END-IF
 2721
                      MOVE UPPER-CASE(WS-Token-Curr-TXT)
 2722
                        TO WS-Token-Curr-Uc-TXT
 2723 GC1010
                     IF WS-TT-Token-Is-Keyword-BOOL
 2724 GC1010
                      OR WS-TT-Token-Is-Reserved-Wd-BOOL
                          MOVE WS-Token-Curr-Uc-TXT TO WS-Token-Curr-TXT
 2725 GC1010
 2726 GC1010
                      END-IF
 2727
                      IF WS-TT-Token-Is-Verb-BOOL
 2728
                          MOVE WS-Token-Curr-Uc-TXT TO WS-Curr-Verb-TXT
 2729
                                                        WS-Token-Prev-TXT
 2730
                          IF WS-Held-Reference-TXT NOT = SPACES
 2731
                              MOVE WS-Held-Reference-TXT TO F-Sort-Work-REC
 2732
                              MOVE SPACES
                                                  TO WS-Held-Reference-TXT
 2733
                              RELEASE F-Sort-Work-REC
 2734
                          END-IF
 2735
                      END-IF
 2736
                      EVALUATE TRUE
                      WHEN WS-CD-In-IDENT-DIV-BOOL
 2737
                          PERFORM 320-IDENTIFICATION-DIVISION
 2738
 2739
                      WHEN WS-CD-In-ENV-DIV-BOOL
 2740
                          PERFORM 330-ENVIRONMENT-DIVISION
 2741
                      WHEN WS-CD-In-DATA-DIV-BOOL
 2742
                          PERFORM 340-DATA-DIVISION
 2743
                      WHEN WS-CD-In-PROC-DIV-BOOL
 2744
                          PERFORM 350-PROCEDURE-DIVISION
                      END-EVALUATE
 2745
 2746
                      IF WS-TT-Token-Is-Keyword-BOOL
 2747
                          MOVE WS-Token-Curr-Uc-TXT TO WS-Token-Prev-TXT
 2748
                      END-IF
 2749
                      IF WS-RS-Token-Ended-Sentence-CHR = 'Y'
 2750
                       AND WS-Curr-Division-TXT NOT = 'I'
 2751
                          MOVE SPACES TO WS-Token-Prev-TXT
 2752
                                         WS-Curr-Verb-TXT
                      END-IF
 2753
 2754
 2755
                  END-PERFORM
 2756
                  CLOSE F-Expanded-Src-FILE
 2757
 2758
 2759
              310-Get-Token SECTION.
 2760
             *>-- Position to 1st non-blank character
 2761
                  MOVE WS-RS-Token-Ended-Sentence-CHR
                    TO WS-RS-Last-Token-Ended-Sent-CHR
 2762
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 2763
                  MOVE 'N' TO WS-RS-Token-Ended-Sentence-CHR
 2764
                  PERFORM UNTIL F-Expanded-Src-REC(WS-Src-SUB : 1) NOT = SPACE
 2765
                      IF WS-Src-SUB > 255
 2766
                          READ F-Expanded-Src-FILE AT END
 2767
                              IF WS-Held-Reference-TXT NOT = SPACES
                                  MOVE WS-Held-Reference-TXT TO F-Sort-Work-REC
 2768
                                  MOVE SPACES TO WS-Held-Reference-TXT
 2769
 2770
                                  RELEASE F-Sort-Work-REC
 2771
                              END-IF
 2772
                              SET WS-TT-Token-Is-EOF-BOOL TO TRUE
 2773
                              MOVE O TO WS-Curr-Line-NUM
                              EXIT SECTION
 2774
 2775
                          END-READ
                          IF F-ES-1-7-TXT NOT = '#DEFLIT'
 2776 GC0712
 2777 GC0712
                              IF F-ES-1-CHR = '#'
 2778 GC0712
                                  PERFORM 311-Control-Record
 2779 GC0712
 2780 GC0712
                                  PERFORM 312-Expanded-Src-Record
 2781 GC0712
                              END-IF
 2782 GC0712
                          END-IF
 2783
                      ELSE
 2784
                          ADD 1 TO WS-Src-SUB
 2785
                      END-IF
 2786
                  END-PERFORM
 2787
            *>-- Extract token string
 2788
                  MOVE F-Expanded-Src-REC(WS-Src-SUB : 1)
 2789
                    TO WS-Curr-CHR
 2790
                  MOVE F-Expanded-Src-REC(WS-Src-SUB + 1: 1)
                    TO WS-Next-CHR
 2791
                  IF WS-Curr-CHR = '.'
 2792
 2793
                      ADD 1 TO WS-Src-SUB
 2794
                      MOVE WS-Curr-CHR TO WS-Token-Curr-TXT
                      MOVE SPACE TO WS-Token-Type-CD
 2795
                      MOVE 'Y' TO WS-RS-Token-Ended-Sentence-CHR
 2796
 2797
                      EXIT SECTION
 2798
                  END-IF
 2799
                  IF WS-Curr-Char-Is-Punct-BOOL
 2800
                  AND WS-Curr-CHR = '='
 2801
                  AND WS-Curr-Division-TXT = 'P'
 2802
                      ADD 1 TO WS-Src-SUB
 2803
                      MOVE 'EQUALS' TO WS-Token-Curr-TXT
 2804
                      MOVE 'K'
                                    TO WS-Token-Type-CD
 2805
                      EXIT SECTION
 2806
                  IF WS-Curr-Char-Is-Punct-BOOL *> So subscripts don't get flagged w/ '*'
 2807
 2808
                  AND WS-Curr-CHR = '('
 2809
                  AND WS-Curr-Division-TXT = 'P'
 2810
                      MOVE SPACES TO WS-Token-Prev-TXT
 2811
                  END-IF
 2812
                  IF WS-Curr-Char-Is-Punct-BOOL
 2813
                      ADD 1 TO WS-Src-SUB
 2814
                      MOVE WS-Curr-CHR TO WS-Token-Curr-TXT
 2815
                      MOVE SPACE TO WS-Token-Type-CD
 2816
                      EXIT SECTION
```

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

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

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

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

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

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  3087 GC0710
                   END-IF
                    IF WS-TT-Token-Is-Identifier-BOOL
  3088
  3089
                        EVALUATE WS-Token-Prev-TXT
 3090
                         WHEN 'FD'
 3091
                            PERFORM 360-Release-Def
                             MOVE SPACES TO WS-Token-Prev-TXT
 3092
                        WHEN 'RD'
 3093 GC1213
 3094 GC1213
                           PERFORM 360-Release-Def
 3095 GC1213
                            MOVE SPACES TO WS-Token-Prev-TXT
 3096
                         WHEN 'SD'
 3097
                            PERFORM 360-Release-Def
 3098
                            MOVE SPACES TO WS-Token-Prev-TXT
 3099
                         WHEN 'LEVEL #'
 3100
                            PERFORM 360-Release-Def
 3101
                            MOVE SPACES TO WS-Token-Prev-TXT
                         WHEN 'INDEXED'
 3102
 3103
                            PERFORM 360-Release-Def
 3104
                             MOVE SPACES TO WS-Token-Prev-TXT
 3105
                         WHEN 'USING'
 3106
                            PERFORM 362-Release-Upd
 3107
                             MOVE SPACES TO WS-Token-Prev-TXT
 3108
                         WHEN 'INTO'
 3109
                            PERFORM 362-Release-Upd
 3110
                             MOVE SPACES TO WS-Token-Prev-TXT
 3111
                        WHEN OTHER
                        IF WS-Token-Curr-TXT NOT = 'SUM'
 3112 GC1213
 3113 GC1213
                                 PERFORM 361-Release-Ref
 3114 GC1213
                           END-IF
                        END-EVALUATE
 3115
 3116
                        EXIT SECTION
 3117
                   END-IF
 3118
 3119
 3120
            350-PROCEDURE-DIVISION SECTION.
              IF WS-Curr-Section-TXT NOT = 'PROCEDURE'
 3121
 3122
                        MOVE 'PROCEDURE' TO WS-Curr-Section-TXT
 3123 END-IF
3124 GC0710 IF WS-Token-Curr-Uc-TXT = 'PROGRAM'
3125 GC0710 AND WS-Token-Prev-TXT = 'END'
 3126 GC0710 MOVE '?' TO WS-Curr-Division-TXT
3127 GC0710 EXIT SECTION
3128 GC0710 END-IF
            IF WS-TT-Token-Is-Keyword-B00L
 3129
                   AND WS-Token-Curr-TXT = 'DIVISION'
 3130
 3131
                        MOVE WS-Token-Prev-TXT TO WS-Curr-Division-TXT
                        EXIT SECTION
 3132
 3133 END-IF

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

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

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

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

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 3195
                     MOVE SPACES TO WS-Token-Prev-TXT
 3196
                WHEN OTHER
                   PERFORM 361-Release-Ref
 3197
 3198
                END-EVALUATE
 3199
 3200
            351-ADD SECTION.
 3201
 3202
             EVALUATE WS-Token-Prev-TXT
 3203
                WHEN 'GIVING'
 3204
                    PERFORM 362-Release-Upd
                WHEN 'TO'
 3205
                    PERFORM 362-Release-Upd
 3206
 3207
               WHEN OTHER
                    PERFORM 361-Release-Ref
 3208
                END-EVALUATE
 3209
 3210
 3211
           351-ALLOCATE SECTION.
 3212
 3213
                EVALUATE WS-Token-Prev-TXT
 3214
                WHEN 'ALLOCATE'
 3215
                    PERFORM 362-Release-Upd
 3216
                     MOVE SPACES TO WS-Token-Prev-TXT
             WHEN 'RETURNING'
 3217
 3218
3219
                   PERFORM 362-Release-Upd
                WHEN OTHER
 3220
                  PERFORM 361-Release-Ref
 3221
                END-EVALUATE
 3222
 3223
 3224 351-CALL SECTION.
            EVALUATE WS-Token-Prev-TXT
 3225
 3225 EVALUATE WS-Token
3226 WHEN 'RETURNING'
3227 PERFORM 362-I
3228 WHEN 'GIVING'
3229 PERFORM 362-I
3230 WHEN OTHER
                  PERFORM 362-Release-Upd
                 PERFORM 362-Release-Upd
 3231 GC1213 PERFORM 36
3232 END-EVALUATE
                 PERFORM 365-Release-Arg
 3233
 3234
 3235 351-COMPUTE SECTION.
            EVALUATE WS-Token-Prev-TXT
 3236
 3237
                 WHEN 'COMPUTE'
 3238
                     PERFORM 362-Release-Upd
 3239
                 WHEN OTHER
 3240
                     PERFORM 361-Release-Ref
 3241
                 END-EVALUATE
 3242
 3243
       351-DIVIDE SECTION.
 3244
 3245
                EVALUATE WS-Token-Prev-TXT
 3246
                 WHEN 'INTO'
 3247
                     PERFORM 363-Set-Upd
 3248
                     MOVE F-Sort-Work-REC TO WS-Held-Reference-TXT
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 3249
                 WHEN 'GIVING'
 3250
                     IF WS-Held-Reference-TXT NOT = SPACES
 3251
                         MOVE WS-Held-Reference-TXT To F-Sort-Work-REC
 3252
                         MOVE SPACES
                                            To WS-Held-Reference-TXT
 3253
                                             F-SW-Ref-Flag-CHR
 3254
                         RELEASE F-Sort-Work-REC
                     END-IF
 3255
 3256
                     PERFORM 362-Release-Upd
               WHEN 'REMAINDER'
 3257
 3258
                    PERFORM 362-Release-Upd
 3259
                 WHEN OTHER
 3260
                    PERFORM 361-Release-Ref
 3261
                 END-EVALUATE
 3262
 3263
            351-FREE SECTION.
 3264
 3265
              PERFORM 362-Release-Upd
 3266
 3267
 3268 GC1213 351-GENERATE SECTION.
 3269 GC1213 PERFORM 362-Release-Upd
 3270 GC1213
 3271
            351-INITIALIZE SECTION.
 3272
             EVALUATE WS-Token-Prev-TXT
 3273
 3274
                WHEN 'INITIALIZE'
 3275
                  PERFORM 362-Release-Upd
 3276
                WHEN 'REPLACING'
                    PERFORM 361-Release-Ref
 3277
 3278
                 END-EVALUATE
 3279
 3280
 3281 GC1213 351-INITIATE SECTION.
 3282 GC1213 PERFORM 362-Release-Upd
 3283 GC1213
 3284
 3285
             351-INSPECT SECTION.
             EVALUATE WS-Token-Prev-TXT
 3286
                 WHEN 'INSPECT'
 3287
 3288
                     PERFORM 364-Set-Ref
 3289
                     MOVE SPACES TO WS-Held-Reference-TXT
 3290
                     MOVE SPACES TO WS-Token-Prev-TXT
 3291
                 WHEN 'TALLYING'
 3292
                     PERFORM 362-Release-Upd
 3293
                     MOVE SPACES TO WS-Token-Prev-TXT
 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
 3298
                         MOVE '*'
                                            TO F-SW-Ref-Flag-CHR
 3299
                         RELEASE F-Sort-Work-REC
 3300
                     FND-TF
 3301
                     MOVE SPACES TO WS-Token-Prev-TXT
                 WHEN 'CONVERTING'
 3302
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 3303
                     IF WS-Held-Reference-TXT NOT = SPACES
 3304
                         MOVE WS-Held-Reference-TXT TO F-Sort-Work-REC
                         MOVE SPACES TO WS-Held-Reference-TXT
 3305
                         MOVE '*'
                                            TO F-SW-Ref-Flag-CHR
 3306
                         RELEASE F-Sort-Work-REC
 3307
                     END-IF
 3308
                     MOVE SPACES TO WS-Token-Prev-TXT
 3309
 3310
                 WHEN OTHER
                    PERFORM 361-Release-Ref
 3311
 3312
                 END-EVALUATE
 3313
 3314
 3315
            351-MOVE SECTION.
 3316
                EVALUATE WS-Token-Prev-TXT
                 WHEN 'TO'
 3317
                     PERFORM 362-Release-Upd
 3318
 3319
                 WHEN OTHER
 3320
                    PERFORM 361-Release-Ref
 3321
                 END-EVALUATE
 3322
 3323
 3324
             351-MULTIPLY SECTION.
 3325
                 EVALUATE WS-Token-Prev-TXT
 3326
                 WHEN 'BY'
 3327
                     PERFORM 363-Set-Upd
 3328
                     MOVE F-Sort-Work-REC TO WS-Held-Reference-TXT
                 WHEN 'GIVING'
 3329
 3330
                     MOVE WS-Held-Reference-TXT TO F-Sort-Work-REC
                     MOVE SPACES TO WS-Held-Reference-TXT
 3331
 3332
                                           F-SW-Ref-Flag-CHR
 3333
                     RELEASE F-Sort-Work-REC
                     PERFORM 362-Release-Upd
 3334
 3335
                WHEN OTHER
 3336
                     PERFORM 361-Release-Ref
 3337
                 END-EVALUATE
 3338
 3339
 3340
           351-PERFORM SECTION.
 3341
                 EVALUATE WS-Token-Prev-TXT
 3342
                 WHEN 'VARYING'
 3343
                     PERFORM 362-Release-Upd
 3344
                     MOVE SPACES TO WS-Token-Prev-TXT
 3345
                 WHEN 'AFTER'
 3346
                     PERFORM 362-Release-Upd
                     MOVE SPACES TO WS-Token-Prev-TXT
 3347
 3348
                 WHEN OTHER
 3349
                     PERFORM 361-Release-Ref
 3350
                 END-EVALUATE
 3351
 3352
 3353
             351-SET SECTION.
 3354
                 EVALUATE WS-Token-Prev-TXT
 3355
                 WHEN 'SET'
 3356
                     PERFORM 362-Release-Upd
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  3357
                  WHEN OTHER
  3358
                     PERFORM 361-Release-Ref
 3359
                  END-EVALUATE
 3360
 3361
            351-STRING SECTION.
 3362
                 EVALUATE WS-Token-Prev-TXT
 3363
 3364
                  WHEN 'INTO'
 3365
                     PERFORM 362-Release-Upd
 3366
                  WHEN 'POINTER'
 3367
                     PERFORM 362-Release-Upd
 3368
                  WHEN OTHER
 3369
                    PERFORM 361-Release-Ref
 3370
                 END-EVALUATE
 3371
 3372
            351-SUBTRACT SECTION.
 3373
              EVALUATE WS-Token-Prev-TXT
 3374
 3375
                 WHEN 'GIVING'
 3376
                     PERFORM 362-Release-Upd
               PERFORM
WHEN 'FROM'
 3377
 3378
                    PERFORM 362-Release-Upd
             PERFURI
WHEN OTHER
 3379
 3380
                  PERFORM 361-Release-Ref
 3381
                END-EVALUATE
 3382
 3383
 3384 GC1213 351-TERMINATE SECTION.
 3385 GC1213 PERFORM 362-Release-Upd
 3386 GC1213
 3387
 3388
            351-TRANSFORM SECTION.
             EVALUATE WS-Token-Prev-TXT
 3389
 3390
                 WHEN 'TRANSFORM'
 3391
                    PERFORM 362-Release-Upd
 3392
                     MOVE SPACES TO WS-Token-Prev-TXT
 3392
3393
                 WHEN OTHER
 3394
                     PERFORM 361-Release-Ref
  3395
                  END-EVALUATE
  3396
  3397
  3398
        351-UNSTRING SECTION.
  3399
                  EVALUATE WS-Token-Prev-TXT
  3400
                  WHEN 'INTO'
  3401
                     PERFORM 362-Release-Upd
  3402
                  WHEN 'DELIMITER'
  3403
       PERFORM 362:
WHEN 'COUNT'
PERFORM 362:
WHEN 'POINTER'
PERFORM 362:
WHEN 'TALLYING'
PERFORM 362:
                     PERFORM 362-Release-Upd
 3404
 3405
                     PERFORM 362-Release-Upd
 3406
 3407
                   PERFORM 362-Release-Upd
 3408
 3409
                  PERFORM 362-Release-Upd
       WHEN OTHER
 3410
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                     PERFORM 361-Release-Ref
 3411
 3412
                 END-EVALUATE
 3413
 3414
             360-Release-Def SECTION.
 3415
                 MOVE SPACES
                                             TO F-Sort-Work-REC
 3416
 3417
                 MOVE WS-Curr-Prog-ID-TXT
                                             TO F-SW-Prog-ID-TXT
                 MOVE WS-Token-Curr-Uc-TXT TO F-SW-Token-Uc-TXT
 3418
                                            TO F-SW-Token-TXT
                 MOVE WS-Token-Curr-TXT
 3419
 3420
                MOVE WS-Curr-Section-TXT
                                            TO F-SW-Section-TXT
 3421
                MOVE WS-Curr-Line-NUM TO F-SW-Def-Line-NUM
                                            TO F-SW-Ref-Line-NUM
 3422
                MOVE O
 3423
                 RELEASE F-Sort-Work-REC
 3424
 3425
             361-Release-Ref SECTION.
 3426
                 PERFORM 364-Set-Ref
 3427
 3428
                 RELEASE F-Sort-Work-REC
 3429
 3430
 3431
             362-Release-Upd SECTION.
 3432
                 PERFORM 363-Set-Upd
 3433
                  RELEASE F-Sort-Work-REC
 3434
 3435
 3436
             363-Set-Upd SECTION.
 3437
                 MOVE SPACES
                                             TO F-Sort-Work-REC
 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
 3439
                 MOVE WS-Token-Curr-TXT
                                            TO F-SW-Token-TXT
 3440
                MOVE WS-Curr-Section-TXT
                                            TO F-SW-Section-TXT
 3441
                 MOVE WS-Curr-Line-NUM
 3442
                                            TO F-SW-Ref-Line-NUM
                 MOVE '*'
                                            TO F-SW-Ref-Flag-CHR
 3443
 3444
 3445
            364-Set-Ref SECTION.
 3446
 3447
                 MOVE SPACES
                                             TO F-Sort-Work-REC
 3448
                 MOVE WS-Curr-Prog-ID-TXT
                                            TO F-SW-Prog-ID-TXT
 3449
                 MOVE WS-Token-Curr-Uc-TXT
                                            TO F-SW-Token-Uc-TXT
 3450
                 MOVE WS-Token-Curr-TXT
                                            TO F-SW-Token-TXT
 3451
                 MOVE WS-Curr-Section-TXT
                                            TO F-SW-Section-TXT
 3452
                 MOVE WS-Curr-Line-NUM
                                            TO F-SW-Ref-Line-NUM
 3453
 3454
 3455 GC1213 365-Release-Arg SECTION.
 3456 GC1213
                 PERFORM 366-Set-Arg
 3457 GC1213
                 RELEASE F-Sort-Work-REC
 3458 GC1213
 3459
 3460 GC1213 366-Set-Arg SECTION.
 3461 GC1213
                 MOVE SPACES
                                             TO F-Sort-Work-REC
 3462 GC1213
                 MOVE WS-Curr-Prog-ID-TXT
                                             TO F-SW-Prog-ID-TXT
                 MOVE WS-Token-Curr-Uc-TXT TO F-SW-Token-Uc-TXT
 3463 GC1213
              MOVE WS-Token-Curr-TXT
 3464 GC1213
                                             TO F-SW-Token-TXT
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 3465 GC1213
                  MOVE WS-Curr-Section-TXT
                                              TO F-SW-Section-TXT
                  MOVE WS-Curr-Line-NUM
                                              TO F-SW-Ref-Line-NUM
 3466 GC1213
                  MOVE 'C'
 3467 GC1213
                                              TO F-SW-Ref-Flag-CHR
 3468 GC1213
 3469
 3470
              400-Produce-Xref-Listing SECTION.
 3471
                  MOVE SPACES
                                   TO WS-Xref-Detail-Line-TXT
 3472
                                      WS-Group-Indicators-TXT
 3473
 3474
                  MOVE O
                                    TO WS-I-SUB
 3475
                                      WS-Lines-Left-NUM
                 MOVE 'N'
 3476 GC0710
                                   TO WS-RS-Duplicate-CHR
 3477
                  PERFORM FOREVER
 3478
                    RETURN F-Sort-Work-FILE AT END
 3479 GC1213
                        IF WS-Xref-Detail-Line-TXT NOT = SPACES
 3480 GC1213
                              PERFORM 410-Generate-Report-Line
 3481 GC1213
                        END-IF
 3482 GC1213
                        MOVE SPACES TO WS-Xref-Detail-Line-TXT
                        PERFORM 410-Generate-Report-Line
 3483 GC1213
 3484 GC1213
                              UNTIL WS-Lines-Left-NUM = 0
 3485 GC1213
                        MOVE 'Y' TO WS-Suppress-FF-CHR
 3486 GC1213
                          PERFORM 420-Generate-Xref-Footer
 3487
                          EXIT PERFORM
 3488
                      END-RETURN
 3489
                      IF F-SW-Prog-ID-TXT NOT = WS-GI-Prog-ID-TXT
 3490
                      OR F-SW-Token-Uc-TXT NOT = WS-GI-Token-TXT
 3491 GC0710
                          MOVE 'N' TO WS-RS-Duplicate-CHR
 3492
                          IF WS-Xref-Detail-Line-TXT NOT = SPACES
 3493
                              PERFORM 410-Generate-Report-Line
 3494
                          END-IF
 3495
                          IF F-SW-Prog-ID-TXT NOT = WS-GI-Prog-ID-TXT
 3496 GC1213
                              MOVE SPACES TO WS-Xref-Detail-Line-TXT
 3497 GC1213
                              PERFORM 410-Generate-Report-Line
 3498 GC1213
                                  UNTIL WS-Lines-Left-NUM = 0
                          END-TF
 3499
 3500
                          MOVE F-SW-Prog-ID-TXT TO WS-GI-Prog-ID-TXT
 3501
                          MOVE F-SW-Token-Uc-TXT TO WS-GI-Token-TXT
 3502
                      END-IF
 3503 GC0710
                      IF F-SW-Token-Uc-TXT = WS-GI-Token-TXT
 3504 GC0710
                      AND F-SW-Def-Line-NUM NOT = SPACES
 3505 GC0710
                      AND WS-Xref-Detail-Line-TXT NOT = SPACES
                         MOVE 'Y' TO WS-RS-Duplicate-CHR
 3506 GC0710
 3507 GC0710
                          PERFORM 410-Generate-Report-Line
 3508 GC0710
                         MOVE O TO WS-I-SUB
 3509 GC0710
                          MOVE F-SW-Prog-ID-TXT TO WS-XDL-Prog-ID-TXT
 3510 GC0710
                                  (Duplicate Definition), TO WS-XDL-Token-TXT
 3511 GC0710
                          MOVE F-SW-Section-TXT TO WS-XDL-Section-TXT
 3512 GC0710
                          MOVE F-SW-Def-Line-NUM TO WS-XDL-Def-Line-NUM
 3513 GC0710
                          EXIT PERFORM CYCLE
 3514 GC0710
                     END-IF
 3515 GC0710
                     IF F-SW-Token-Uc-TXT = WS-GI-Token-TXT
 3516 GC0710
                     AND F-SW-Def-Line-NUM = SPACES
 3517 GC0710
                      AND WS-RS-Duplicate-CHR = 'Y'
 3518 GC0710
                          MOVE 'N' TO WS-RS-Duplicate-CHR
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 3519 GC0710
                         PERFORM 410-Generate-Report-Line
 3520 GC0710
                         MOVE O TO WS-I-SUB
 3521 GC0710
                         MOVE F-SW-Prog-ID-TXT TO WS-XDL-Prog-ID-TXT
 3522 GC0710
                         MOVE ' (Duplicate References)' TO WS-XDL-Token-TXT
 3523 GC0710
                     END-IF
                     IF WS-Xref-Detail-Line-TXT = SPACES
 3524
                         MOVE F-SW-Prog-ID-TXT TO WS-XDL-Prog-ID-TXT
 3525
 3526
                         MOVE F-SW-Token-TXT TO WS-XDL-Token-TXT
 3527
                         MOVE F-SW-Section-TXT TO WS-XDL-Section-TXT
 3528
                         IF F-SW-Def-Line-NUM NOT = SPACES
 3529
                             MOVE F-SW-Def-Line-NUM TO WS-XDL-Def-Line-NUM
 3530
                         END-IF
 3531
                     END-IF
                     IF F-SW-Reference-TXT > '000000'
 3532
 3533
                         ADD 1 TO WS-I-SUB
 3534
                         IF WS-I-SUB > WS-Xref-Lines-Per-Rec-NUM
 3535
                             PERFORM 410-Generate-Report-Line
 3536
                             MOVE 1 TO WS-I-SUB
 3537
                         END-IF
 3538
                         MOVE F-SW-Ref-Line-NUM
 3539
                           TO WS-XDL-Ref-Line-NUM (WS-I-SUB)
 3540
                         MOVE F-SW-Ref-Flag-CHR
 3541
                           TO WS-XDL-Ref-Flag-CHR (WS-I-SUB)
 3542
                      END-IF
 3543
                 END-PERFORM
 3544
                  IF WS-Xref-Detail-Line-TXT NOT = SPACES
 3545
                      PERFORM 410-Generate-Report-Line
 3546
                  END-IF
 3547
 3548
 3549
              410-Generate-Report-Line SECTION.
                IF WS-Lines-Left-NUM < 1
 3550
                PERFORM 420-Generate-Xref-Footer
 3551 GC1213
                 ADD 1
MOVE 'Page:'
 3552 GC1213
                                   TO WS-Page-NUM
 3553 GC1213
                                     TO WS-PN-Literal-TXT
 3554 GC1213
                   MOVE WS-Page-NUM TO WS-PN-Page-NUM
 3555 GC1213
                     CALL 'C$JUSTIFY' USING WS-PN-Page-NUM, 'Left'
 3556 GC1213
                     CALL 'C$JUSTIFY' USING WS-Page-No-TXT, 'Right'
 3557 GC1213
                     IF L-Listing-CD = 1 *> LANDSCAPE
 3558 GC1213
                     MOVE WS-Version-TXT
 3559 GC1213
                           TO F-Listing-135-REC
 3560 GC1213
                         MOVE 'Cross-Reference Listing'
 3561 GC1213
                         TO F-Listing-135-REC(25:23)
 3562 GC1213
                        MOVE WS-Formatted-DT
 3563 GC1213
                          TO F-Listing-135-REC(126:10)
 3564 GC1213
                         WRITE F-Listing-135-REC BEFORE 1 *> Page Header Line #1
 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
                        MOVE WS-Page-No-TXT
 3571 GC1213
 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
                         MOVE ALL '=' TO F-Listing-135-REC
 3574 GC1213
 3575 GC1213
                         MOVE SPACE TO F-Listing-135-REC(16:1)
 3576 GC1213
                                      F-Listing-135-REC(49:1)
 3577 GC1213
                                      F-Listing-135-REC(56:1)
 3578 GC1213
                                      F-Listing-135-REC(72:1)
 3579 GC1213
                         WRITE F-Listing-135-REC BEFORE 1 *> Page Header Line #4
 3580 GC1213
                     ELSE
                                        *> PORTRAIT
 3581 GC1213
                       MOVE WS-Version-TXT
 3582 GC1213
                          TO F-Listing-96-REC
 3583 GC1213
                       MOVE 'Cross-Reference Listing'
 3584 GC1213
                          TO F-Listing-96-REC(25:23)
 3585 GC1213
                       MOVE WS-Formatted-DT
 3586 GC1213
                          TO F-Listing-96-REC(87:10)
                       WRITE F-Listing-96-REC BEFORE 1 *> Page Header Line #1
 3587 GC1213
 3588 GC1213
                       MOVE WS-Program-Path-TXT(40:96)
 3589 GC1213
                          TO F-Listing-96-REC
                      WRITE F-Listing-96-REC BEFORE 1 *> Page Header Line #2
MOVE 'PROGRAM-ID Identifier/Register/Function' &
 3590 GC1213
 3591 GC1213
 3592 GC1213
                                   Defn Where Defined References'
 3593 GC1213
                          TO F-Listing-96-REC
 3594 GC1213
                       MOVE WS-Page-No-TXT
 3595 GC1213
                          TO F-Listing-96-REC(87:10)
 3596 GC1213
                        WRITE F-Listing-96-REC BEFORE 1 *> Page Header Line #3
 3597 GC1213
                       MOVE ALL '=' TO F-Listing-96-REC
 3598 GC1213
                       MOVE SPACE TO F-Listing-96-REC(16:1)
 3599 GC1213
                                      F-Listing-96-REC(49:1)
 3600 GC1213
                                      F-Listing-96-REC(56:1)
 3601 GC1213
                                      F-Listing-96-REC(72:1)
 3602 GC1213
                         WRITE F-Listing-96-REC BEFORE 1 *> Page Header Line #4
 3603 GC1213
                     END-IF
 3604 GC1213
                     COMPUTE WS-Lines-Left-NUM = WS-Lines-Per-Page-NUM - 4
                END-IF
 3605
 3606 GC1213 IF L-Listing-CD = 1 *> LANDSCAPE
                WRITE F-Listing-135-REC FROM WS-Xref-Detail-Line-TXT
 3607 GC1213
 3608 GC1213
                         BEFORE 1
 3609 GC1213
                ELSE
                                     *> PORTRAIT
 3610 GC1213 WRITE F-Listing-96-REC FROM WS-Xref-Detail-Line-TXT
 3611 GC1213
 3612 GC1213 END-IF
 3613
                 MOVE SPACES TO WS-Xref-Detail-Line-TXT
 3614
                 MOVE O TO WS-I-SUB
 3615
                 SUBTRACT 1 FROM WS-Lines-Left-NUM
 3616
 3617 GC1213 420-Generate-Xref-Footer SECTION.
 3618 GC1213 IF L-Listing-CD = 1 *> LANDSCAPE
 3619 GC1213
                     WRITE F-Listing-135-REC FROM SPACES BEFORE 1 *> Footer Line #1
 3620 GC1213
                     MOVE ALL '='
 3621 GC1213
                      TO F-Listing-135-REC
 3622 GC1213
                     WRITE F-Listing-135-REC BEFORE 1 *> Footer Line #2
 3623 GC1213
                     MOVE WS-Copyright-TXT
 3624 GC1213
                      TO F-Listing-135-REC
                     MOVE WS-Page-No-TXT
 3625 GC1213
 3626 GC1213
                     TO F-Listing-135-REC(126:10)
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 3627 GC1213
                      IF WS-Suppress-FF-CHR = 'Y'
                          WRITE F-Listing-135-REC BEFORE 1 *> Footer Line #3
 3628 GC1213
 3629 GC1213
                      ELSE
 3630 GC1213
                          WRITE F-Listing-135-REC BEFORE PAGE *> Footer Line #3
 3631 GC1213
                          WRITE F-Listing-135-REC FROM SPACES BEFORE 1 *> Spaces After FF Character
 3632 GC1213
                      END-IF
 3633 GC1213
                  ELSE
                                      *> PORTRAIT
 3634 GC1213
                      WRITE F-Listing-96-REC FROM SPACES BEFORE 1 *> Footer Line #1
 3635 GC1213
                      MOVE ALL '='
 3636 GC1213
                        TO F-Listing-96-REC
 3637 GC1213
                      WRITE F-Listing-96-REC BEFORE 1 *> Footer Line #2
 3638 GC1213
                      MOVE WS-Copyright-TXT
 3639 GC1213
                        TO F-Listing-96-REC
 3640 GC1213
                      MOVE WS-Page-No-TXT
 3641 GC1213
                        TO F-Listing-96-REC(87:10)
 3642 GC1213
                      IF WS-Suppress-FF-CHR = 'Y'
                          WRITE F-Listing-96-REC BEFORE 1 *> Footer Line #3
 3643 GC1213
 3644 GC1213
 3645 GC1213
                          WRITE F-Listing-96-REC BEFORE PAGE *> Footer Line #3
 3646 GC1213
                          WRITE F-Listing-96-REC FROM SPACES BEFORE 1 *> Spaces After FF Character
 3647 GC1213
 3648 GC1213
                  END-IF
 3649 GC1213
 3650
 3651
              500-Produce-Source-Listing SECTION.
 3652
                  OPEN INPUT F-Original-Src-FILE
 3653
                             F-Expanded-Src-FILE
 3654
                  MOVE 0 TO WS-Src-Line-NUM
                  PERFORM FOREVER
 3655
 3656
                      READ F-Expanded-Src-FILE AT END
                          MOVE SPACES TO WS-Src-Detail-Line-TXT
 3657 GC1213
 3658 GC1213
                          PERFORM 530-Generate-Source-Line
 3659 GC1213
                              UNTIL WS-Lines-Left-NUM = 0
                          EXIT PERFORM
 3660
                      END-READ
 3661
 3662 GC0712
                      IF F-ES-1-7-TXT NOT = '#DEFLIT'
                      IF F-ES-1-CHR = '#'
 3663 GC0712
 3664 GC0712
                              PERFORM 510-Control-Record
 3665 GC0712
                          ELSE
 3666 GC0712
                              PERFORM 520-Expanded-Src-Record
 3667
       GC0712
                          END-IF
 3668 GC0712
                      END-IF
 3669
                  END-PERFORM
 3670
                  CLOSE F-Original-Src-FILE
 3671
                        F-Expanded-Src-FILE
 3672
 3673
 3674
              510-Control-Record SECTION.
 3675
                  UNSTRING F-ES-2-256-TXT-256
                      DELIMITED BY '"'
 3676
 3677
                      INTO WS-Temp-10-Chars-TXT
 3678
                           WS-Temp-256-Chars-TXT
 3679
                           WS-Dummy-TXT
                  IF UPPER-CASE(TRIM(WS-Temp-256-Chars-TXT,Trailing)) =
 3680 GC1010
```

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

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

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

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```
ACS Cobol Xref v2.02.04
                                 Dictionary File for GCIC (LISTING) 06/03/2022 23:09:11:06
 3843 GC1213
                           WRITE F-Listing-96-REC BEFORE 1 *> Page Header Line #2
 3844 GC1213
                           MOVE 'Line Statement'
 3845 GC1213
                            TO F-Listing-96-REC
 3846 GC1213
                           MOVE WS-Page-No-TXT
 3847 GC1213
                            TO F-Listing-96-REC(87:10)
 3848 GC1213
                           WRITE F-Listing-96-REC BEFORE 1 *> Page Header Line #3
 3849 GC1213
                           MOVE WS-Src-Dashes-TXT
 3850 GC1213
                             TO F-Listing-96-REC
                           WRITE F-Listing-96-REC BEFORE 1 *> Page Header Line #4
 3851 GC1213
 3852 GC1213
 3853 GC1213
                       COMPUTE WS-Lines-Left-NUM = WS-Lines-Per-Page-NUM - 4
 3854 GC1213 END-IF
 3855 GC1213 IF L-Listing-CD = 1 *> LANDSCAPE
                   EVALUATE WS-Src-Lines-NUM
 3856 GC1213
                     WHEN 1
 3857 GC1213
 3858 GC1213
                           MOVE WS-Src-Detail-Line-TXT TO F-Listing-135-REC
 3859 GC1213
                           WRITE F-Listing-96-REC BEFORE 1
 3860 GC1213
                           SUBTRACT 1 FROM WS-Lines-Left-NUM
 3861 GC1213
                     WHEN 2
                      MOVE WS-SDL-Statement-TXT TO WS-Src-Hold-TXT
 3862 GC1213
 3863 GC1213
                         MOVE WS-Src-Detail-Line-TXT TO F-Listing-135-REC
 3864 GC1213
                         WRITE F-Listing-135-REC BEFORE 1 *> Prints chars 1-128 of stmnt
 3865 GC1213
                         MOVE SPACES TO WS-Src-Detail-Line-TXT
 3866 GC1213
                         MOVE WS-Src-Hold-TXT(129:128) TO WS-SDL-Statement-TXT
 3867 GC1213
                           MOVE WS-Src-Detail-Line-TXT TO F-Listing-135-REC
 3868 GC1213
                           WRITE F-Listing-135-REC BEFORE 1 *> Prints chars 129-256 of stmnt
 3869 GC1213
                           SUBTRACT 2 FROM WS-Lines-Left-NUM
 3870 GC1213
                     END-EVALUATE
                 ELSE
 3871 GC1213
                                        *> PORTRAIT
 3872 GC1213 EVALUATE WS-Src-Lines-NUM
 3873 GC1213
                 WRITE F-List.

BEFORE 1

SUBTRACT 1 FROM WS-Lines-Left-Num

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

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

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

BEFORE 1

GPACES TO WS-Src-Detail-Line-TXT

TXT(90:89) TO WS-SDL-Statem
                       WHEN 1 *> Print only chars 1-89 of stmnt
 3874 GC1213
                          WRITE F-Listing-96-REC FROM WS-Src-Detail-Line-TXT
 3875 GC1213
 3876 GC1213
 3877 GC1213
                     WHEN 2 *> Print only chars 1-89 and 90-178 of text
 3878 GC1213
 3879 GC1213
                          WRITE F-Listing-96-REC FROM WS-Src-Detail-Line-TXT
 3880 GC1213
                        MOVE SPACES TO WS-Src-Detail-Line-TXT
MOVE WS-Src-Hold-TXT(90:89) TO WS-SDL-Statement-TXT
 3881 GC1213
 3882 GC1213
                         WRITE F-Listing-96-REC FROM WS-Src-Detail-Line-TXT
 3883 GC1213
 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
                     MOVE WS-SDL-Statement-TXT TO WS-Src-Hold-TXT
 3887 GC1213
 3888 GC1213
                          WRITE F-Listing-96-REC FROM WS-Src-Detail-Line-TXT
 3889 GC1213
                               BEFORE 1
                        MOVE SPACES TO WS-Src-Detail-Line-TXT
MOVE WS-Src-Hold-TXT(90:89) TO WS-SDL-Statement-TXT
 3890 GC1213
 3891 GC1213
                         WRITE F-Listing-96-REC FROM WS-Src-Detail-Line-TXT
 3892 GC1213
 3893 GC1213
                               BEFORE 1
                        MOVE SPACES TO WS-Src-Detail-Line-TXT
 3894 GC1213
 3895 GC1213
                           MOVE WS-Src-Hold-TXT(179:78) TO WS-SDL-Statement-TXT
 3896 GC1213
                           WRITE F-Listing-96-REC FROM WS-Src-Detail-Line-TXT
```

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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
```

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| 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 | 003582 003584 003586 003587 003589 003590 003593 003595 |
| | | 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 |
| | | 003883 003888 003892 003896 |
| F-LISTING-FILE | 001619F | 001634 002613 002621 |
| F-LISTING-REC | 001637F | |
| F-ORIGINAL-SRC-FILE | 001621F | 001639 003652 003670 003694 |
| F-ORIGINAL-SRC-REC | 001640F | 003698 |
| F-0S-1-128-TXT | 001641F | |
| F-0S-129-256-TXT | 001646F | |
| F-OS-7-CHR | 001643F | 003703 |
| F-OS-8-72-TXT | 001644F | |
| F-SORT-WORK-FILE | 001623F | 001648 002615 003478 |
| F-SORT-WORK-REC | 001649F | 002731 002733 002768 002770 003248 003251 003254 003296 |
| | | 003299 003304 003307 003328 003330 003333 003416 003423 |
| E CU DEE I THE NUM | 0016545 | 003428 003433 003437 003447 003457 003461 |
| F-SW-DEF-LINE-NUM F-SW-PROG-ID-TXT | | 003421 003504 003512 003516 003528 003529 002616 003417 003438 003448 003462 003489 003495 003500 |
| r-Sw-Prug-ID-IXI | 001650F | 003509 003521 003525 |
| E_CU_DEE_ELAC_CUD | 0016575 | 003253 003298 003306 003332 003443 003467 003540 |
| F-SW-REF-FLAG-CHR F-SW-REF-LINE-NUM | 001657F 001656F | 002618 003422 003442 003452 003466 003538 |
| F-SW-REFERENCE-TXT | 001656F | 003532 |
| | | 003420 003441 003451 003465 003511 003527 |
| F-SW-SECTION-TXT F-SW-TOKEN-TXT | | 003420 003441 003451 003465 003511 003527 |
| F-SW-TOKEN-UC-TXT | 001652F 001651F | |
| I. PM_IOUTH_OC_IVI | 0010014 | 003515 |
| L-LISTING-FN-TXT | 001619F | 002593 002605 |
| L-SRC-FN-TXT | | 002595 002606 002642 002643 002645 002650 002654 002666 |
| I DIVO IN INI | 0010211 | 002667 002669 002671 002676 |
| WS-EXPANDED-SRC-FN-TXT | 001617F | 001697 002684 002685 |
| In more Sive In Ini | 3010111 | 002001 002000 |

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| Data Section (WORKING-STORAGE) | | |
|--------------------------------|----------|---|
| | - | |
| WS-CD-IN-DATA-DIV-BOOL | 001674W | 002741 |
| WS-CD-IN-ENV-DIV-BOOL | 001673W | 002739 |
| WS-CD-IN-IDENT-DIV-BOOL | | 002737 |
| WS-CD-IN-PROC-DIV-BOOL | 001675W | 002743 |
| WS-COPYRIGHT-TXT | 001660W | 002631 002637 003623 003638 003781 003801 |
| 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 |
| WS-CURR-CHAR-IS-QUOTE-BOOL | 001667W | 002818 |
| 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 |
| | | 003693 |
| WS-CURR-PROG-ID-TXT | 001679W | 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 | 002861 002863 002881 002883 002886 |
| WS-DUMMY-TXT | 001695W | 002679 002924 002953 002986 002991 002992 003679 |
| WS-EXPANDED-SRC-FN-TXT | 001697W | 002684 002685 |
| WS-FILENAME-TXT | 001699W | 002678 002681 002952 002955 |
| WS-FLAGS-TXT | 001701W | |
| WS-FORMATTED-DT | 001704W | 002702 003562 003585 003819 003838 |
| WS-GI-PROG-ID-TXT | 001707W | 003489 003495 003500 |
| WS-GI-TOKEN-TXT | 001708W | 003490 003501 003503 003515 |
| WS-GROUP-INDICATORS-TXT | 001706W | 003473 |
| WS-HELD-REFERENCE-TXT | 001710W | 002705 002730 002731 002732 002767 002768 002769 003248 |
| | | 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 | | 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 | | 002692 002695 002697 002700 003604 003853 |
| WS-MAIN-MODULE-NAME-TXT | | 002650 002655 002931 003681 |
| WS-NEXT-CHAR-IS-QUOTE-BOOL | | 002831 002844 |
| WS-NEXT-CHR | | 002791 002834 002847 |
| WS-OS-TYPE-FILLER-TXT | 001727W | |
| | | |

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| NS-RS-TYPES-TXT | Data Section (WORKING-STORAGE) | Defn + | Locatio | ons | | | | | | |
|--|---------------------------------|-----------|---------|--------|--------|--------|--------|--------|--------|--------|
| WS-BASE-NOTITY | NG_NG_TVDF_TYT | 001734W | 002633 | | | | | | | |
| NS-PAGE-NOTTT | | | 002033 | | | | | | | |
| Name | | | 003556 | 003571 | 003594 | 003625 | 003640 | 003783 | 003803 | 003813 |
| MS-PNE_ITERAL_TXT | WE THEE NO THE | 00110011 | | | 000001 | 000020 | 000010 | 000100 | 000000 | 000010 |
| MS-Ph-LITTERALI-TXT | WS-PAGE-NUM | 001737W | | | 003554 | 003772 | 003809 | 003811 | | |
| WS-Phoreace-num | | | | | | | | | | |
| WS-RESERVED-WORD-TABLE-TXT 002501W WS-RESERVED-WORD-TXT 002501W 002500 WS-RESERVED-WORDS-TXT 001745W 002500 WS-RS-DUPLICATE-CIRR 002509W 003476 003491 003506 003517 003518 WS-RS-IN-COPYBOOK-BOOL 002511W 002938 003697 003692 USESSERVED-WORDS-TINT 002513W 002938 003697 003692 USESSERVED-WORDS-TIN-CHR 002513W 002938 002971 003682 003692 USESSERVED-WORDS-TIN-CHR 002513W 002604 002605 002749 002761 002763 002796 002825 002838 002851 002864 002884 USESSERVED-SENT-CHR 002513W 002684 002715 002900 003002 USESSERVED-SENT-CHR 002513W 002789 002796 002825 002838 002851 002864 USESSERVED-SENT-CHR 002513W 002684 USESSERVED-SENT-CHR 002505W 002884 USESSERVED-SENT-CHR 002505W 002898 USESSERVED-SECTION-TXT 002505W 002606 002897 USESSERVED-SECTION-TXT 002505W 002898 USESSERVED-SECTION-TXT 002505W 003892 003891 003895 USESSERVED-SECTION-TXT 002507W 003697 USESSERVED-SECTION | | | | | 003811 | 003812 | | | | |
| NS-RESERVED-WORD-TXT 001745 002504 002505 003476 003491 003606 003517 03518 002505 002508 003678 003678 003678 003687 003682 003692 003692 003692 003692 003693 003692 003693 003692 003693 003 | WS-PROGRAM-PATH-TXT | 001743W | 002667 | 002668 | 003565 | 003588 | 003822 | 003841 | | |
| WS-RESERVED-WORDS-TXT 001745W 00250V 003471 00350V 003517 003518 003518 003518 003518 003518 003518 003518 002518 002638 003687 003682 003 | WS-RESERVED-WORD-TABLE-TXT | 002500W | | | | | | | | |
| WS-RS-DUPLICATE-CHR 00250W 0034676 003491 003508 003517 003518 US 1 < | WS-RESERVED-WORD-TXT | 002501W | 002896 | | | | | | | |
| WS-RS-IN-COPYBOOK-BOOL 002512W 002938 003687 003692 003694 003692 003692 003692 003692 003692 | WS-RESERVED-WORDS-TXT | 001745W | 002500 | | | | | | | |
| WS-RS-IN-MAIN-MODULE-BOOL 002511W 002933 002971 003682 003692 | WS-RS-DUPLICATE-CHR | 002509W | 003476 | 003491 | 003506 | 003517 | 003518 | | | |
| WS-RS-IN-WHICH-PGM-CHR 002510W 002762 002908 002908 002808 | WS-RS-IN-COPYBOOK-BOOL | 002512W | 002938 | 003687 | | | | | | |
| WS-RS-LAST-TOKEN-ENDED-SENT-CHR 002514W 0026767 002817 003080 002769 002825 002825 002769 002769 002825 002826 002769 002769 002826 002838 002836 003836 003836 003836 003836 003836 003836 003836 003836 003836 003836 0038 | WS-RS-IN-MAIN-MODULE-BOOL | 002511W | 002933 | 002971 | 003682 | 003692 | | | | |
| WS-RS-PROCESSING-PICTURE-CHR 002514W 0028749 002761 03080 02285 00280 | WS-RS-IN-WHICH-PGM-CHR | 002510W | | | | | | | | |
| WS-RS-TOKEN-ENDED-SENTENCE-CHR 002515W 002749 002763 002763 002769 002828 002884 002864 WS-RS-VERB-HAS-BEEN-FOUND-CHR 002508W 002715 002900 003022 | WS-RS-LAST-TOKEN-ENDED-SENT-CHR | 002513W | 002762 | 002908 | | | | | | |
| WS-RS-VERB-HAS-BEEN-FOUND-CHR 002516W 002715 002900 003022 | WS-RS-PROCESSING-PICTURE-CHR | 002514W | 002857 | 002871 | 003080 | | | | | |
| WS-RS-VERB-HAS-BEEN-FOUND-CHR 002516W 002900 003002< | WS-RS-TOKEN-ENDED-SENTENCE-CHR | 002515W | 002749 | 002761 | 002763 | 002796 | 002825 | 002838 | 002851 | 002864 |
| WS-RUNTIME-SWITCHES 002504W 002897 002898 VS-RW-TYPE-CD 002505W 002898 VS-RW-TYPE-CD 002505W 002898 VS-RW-WORD-TXT 002503W 002506 002897 002939 002940 VS-RW-WORD-TXT 002505W 002505W 002939 002940 VS-SAVED-SECTION-TXT 002518W 002934 002935 002939 002940 VS-SAVED-SECTION-TXT 002527W 003697 003697 003760 003764 003766 003862 003862 003868 003881 003895 003764 003766 003766 003862 003866 003878 003881 003885 003895 003878 003878 003881 003885 003878 003878 003878 003878 003878 003878 003878 003878 003878 003878 003878 003878 003878 003878 003878 003871 003721 003728 003878 003881 003881 003881 003881 003881 003881 003881 003881 003881 003881 | | | 002884 | | | | | | | |
| WS-RW-IDX 002504W 002897 002898 | WS-RS-VERB-HAS-BEEN-FOUND-CHR | 002516W | 002715 | 002900 | 003022 | | | | | |
| WS-RW-TYPE-CD 002505W 002898 002897 002505W 002897 002939 002940 002940 002939 002940 002940 002939 002940 002940 002939 002940 002940 002939 002940 002940 002939 002940 002940 002939 002940 002940 002939 002940 002940 002939 002940 002940 002939 002940 002940 002939 002940 002846 003861 003891 003891 003862 003862 003862 003862 003866 003891 003895 003862 003865 003865 003865 003867 003874 003881 003882 003891 003896 003896 003896 003896 <t< td=""><td>WS-RUNTIME-SWITCHES</td><td>002508W</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | WS-RUNTIME-SWITCHES | 002508W | | | | | | | | |
| WS-RW-WORD-TXT 002503W 002506 002897 002939 002940 <t< td=""><td>WS-RW-IDX</td><td>002504W</td><td>002897</td><td>002898</td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | WS-RW-IDX | 002504W | 002897 | 002898 | | | | | | |
| WS-SAVED-SECTION-TXT 002518W 002934 002935 002939 002940 Section of the part of the p | WS-RW-TYPE-CD | 002505W | 002898 | | | | | | | |
| WS-SDL-LINE-NUM | WS-RW-WORD-TXT | 002503W | 002506 | 002897 | | | | | | |
| WS-SDL-STATEMENT-TXT | WS-SAVED-SECTION-TXT | 002518W | 002934 | 002935 | 002939 | 002940 | | | | |
| WS-SRC-DASHES-TXT | WS-SDL-LINE-NUM | 002525W | 003697 | | | | | | | |
| WS-SRC-DASHES-TXT 002524W 003657 003696 003704 003708 003713 003717 003721 003728 003874 003744 003748 003883 003885 003865 003867 003874 003879 003881 003883 003888 003890 003892 003894 003896 003901 0039 | WS-SDL-STATEMENT-TXT | 002527W | 003698 | 003730 | 003760 | 003764 | 003766 | 003862 | 003866 | 003878 |
| WS-SRC-DETAIL-LINE-TXT | | | 003882 | 003887 | 003891 | 003895 | | | | |
| 003740 003744 003748 003858 003865 003867 003874 003879 003881 003883 003888 003890 003892 003894 003896 003901 | WS-SRC-DASHES-TXT | 002520W | 003830 | 003849 | | | | | | |
| WS-SRC-HOLD-TXT | WS-SRC-DETAIL-LINE-TXT | 002524W | 003657 | 003696 | 003704 | 003708 | 003713 | 003717 | 003721 | 003728 |
| WS-SRC-HOLD-TXT 002529W 003862 003866 003878 003882 003887 003891 003895 | | | 003740 | 003744 | 003748 | 003858 | 003863 | 003865 | 003867 | 003874 |
| WS-SRC-HOLD-TXT 002529W 003862 003866 003878 003882 003887 003891 003895 WS-SRC-LINE-NUM 002531W 003654 003683 003695 003697 WS-SRC-LINES-NUM 002533W 003758 003761 003765 003767 003771 003774 003788 003856 003872 WS-SRC-SUB 002535W 002711 002764 002765 002784 002788 002790 002793 002802 002839 002845 002849 002850 002852 002862 002865 002882 002887 002989 002845 002969 WS-SUPPRESS-FF-CHR 001702W 002630 003485 003627 003642 WS-TALLY-QTY 002537W 003001 003003 003004 003008 003009 WS-TEMP-10-CHARS-TXT 002539W 002922 002925 002966 002927 002929 003677 WS-TEMP-256-CHARS-TXT 002549W 002686 002923 002908 002997 002995 003005 003012 WS-TEMP-32-CHARS-2-TXT 002543W 002984 002989 002998 002999 003007 003010 003012 WS-TEMP-32-CHARS-3-TXT 002545W 002985 002990 002998 002999 003007 003010 003012 | | | 003879 | 003881 | 003883 | 003888 | 003890 | 003892 | 003894 | 003896 |
| WS-SRC-LINE-NUM 002533W 003654 003683 003695 003767 003771 003774 003788 003856 003872 WS-SRC-SUB 002535W 002711 002764 002765 002765 002784 002826 002826 002827 002839 002845 002840 002850 002850 002860 002887 002962 002967 002969 WS-SUPPRESS-FF-CHR 001702W 002537W 002537W 002537W 002537W 002537W 002539W 002922 002925 002926 002927 002929 002942 002945 002950 002960 002960 003677 WS-TEMP-32-CHARS-1-TXT 002543W 002940 002940 002940 002990 002990 003007 003001 003001 003001 003002 003002 003005 003012 WS-TEMP-32-CHARS-3-TXT 002545W 002955 002990 002990 002990 003007 003001 003001 | | | 003901 | | | | | | | |
| WS-SRC-LINES-NUM 002533W 003758 003761 003765 003767 003771 003774 003788 003785 003872 WS-SRC-SUB 002535W 002711 002764 002765 002813 002819 002823 002824 002826 002820 002830 002850 002865 002887 002887 002962 002967 002969 WS-SUPPRESS-FF-CHR 001702W 002537W 002537W 002537W 003001 003003 003004 003008 003009 WS-TEMP-10-CHARS-TXT 002539W 002539W 002922 002925 002926 002927 002929 002942 002945 002945 002950 003012 003012 WS-TEMP-32-CHARS-2-TXT 002543W 002945 002985 002998 002998 002999 003007 003010 003012 | WS-SRC-HOLD-TXT | | | | | | 003887 | 003891 | 003895 | |
| WS-SRC-SUB 002535W 002711 002764 002765 002784 002788 002790 002802 002813 002819 002823 002824 002826 002826 002832 002836 002837 002839 002845 002867 002962 002967 002969 WS-SUPPRESS-FF-CHR 001702W 002537W 002537W 002537W 003001 003003 003004 003008 003009 WS-TEMP-10-CHARS-TXT 002539W 002539W 002922 002925 002926 002927 002929 002942 002945 002950 003677 WS-TEMP-32-CHARS-1-TXT 002541W 002940 002940 002980 002980 002998 002990 003007 003001 003001 003002 003002 003005 003012 WS-TEMP-32-CHARS-3-TXT 002545W 002955 002990 002998 002999 003007 003010 003012 | | 002531W | | | | | | | | |
| WS-SUPPRESS-FF-CHR | WS-SRC-LINES-NUM | 002533W | | 003761 | 003765 | 003767 | 003771 | 003774 | 003788 | 003856 |
| WS-SUPPRESS-FF-CHR 001702W 002630 002845 002967 002969 002967 002969 002967 002969 002967 002969 002967 002969 002967 002969 002967 002969 002967 002969 002967 002969 002967 002969 | WS-SRC-SUB | 002535W | 002711 | 002764 | 002765 | 002784 | 002788 | 002790 | 002793 | 002802 |
| WS-SUPPRESS-FF-CHR 001702W 002630 003485 003627 003642 | | | 002813 | 002819 | 002823 | 002824 | 002826 | 002832 | 002836 | 002837 |
| WS-SUPPRESS-FF-CHR 001702W 002630 003485 003627 003642 WS-TALLY-QTY 002537W 003001 003003 003004 003008 003009 WS-TEMP-10-CHARS-TXT 002539W 002922 002925 002926 002927 002929 003677 WS-TEMP-256-CHARS-TXT 002549W 002686 002923 002930 002942 002945 002950 003678 003680 WS-TEMP-32-CHARS-1-TXT 002541W 002977 002978 002980 002987 WS-TEMP-32-CHARS-2-TXT 002543W 002984 002989 002995 002996 003002 003005 003012 WS-TEMP-32-CHARS-3-TXT 002545W 002985 002990 002998 002999 003007 003010 003012 | | | 002839 | 002845 | 002849 | 002850 | 002852 | 002862 | 002865 | 002882 |
| WS-TALLY-QTY 002537W 003001 003003 003004 003008 003009 WS-TEMP-10-CHARS-TXT 002539W 002922 002925 002926 002927 002929 003677 WS-TEMP-256-CHARS-TXT 002549W 002686 002923 002930 002942 002945 002950 003678 003680 WS-TEMP-32-CHARS-1-TXT 002541W 002977 002978 002980 002987 WS-TEMP-32-CHARS-2-TXT 002543W 002984 002989 002995 002996 003002 003005 003012 WS-TEMP-32-CHARS-3-TXT 002545W 002985 002990 002998 002999 003007 003010 003012 | | | 002887 | 002962 | 002967 | 002969 | | | | |
| WS-TEMP-10-CHARS-TXT 002539W 002922 002925 002926 002927 002929 003677 WS-TEMP-256-CHARS-TXT 002549W 002686 002923 002930 002942 002945 002950 003678 003680 WS-TEMP-32-CHARS-1-TXT 002541W 002977 002978 002980 002987 WS-TEMP-32-CHARS-2-TXT 002543W 002984 002989 002995 002996 003002 003005 003012 WS-TEMP-32-CHARS-3-TXT 002545W 002985 002990 002998 002999 003007 003010 003012 | WS-SUPPRESS-FF-CHR | 001702W | 002630 | 003485 | 003627 | 003642 | | | | |
| WS-TEMP-256-CHARS-TXT 002549W 002686 002923 002930 002942 002945 002950 003678 003680 002541W 002541W 002977 002978 002980 002987 002987 002987 002543W 002543W 002984 002989 002995 002996 003002 003005 003012 002545W 002545W 002545W 002545W 002985 002990 002998 002999 003007 003010 003012 | WS-TALLY-QTY | 002537W | 003001 | 003003 | 003004 | 003008 | 003009 | | | |
| WS-TEMP-32-CHARS-1-TXT 002541W 002977 002978 002980 002987 002987 002541W 002541W 002984 002989 002995 002996 003002 003005 003012 002545W 002545W 002545W 002985 002990 002998 002999 003007 003010 003012 | WS-TEMP-10-CHARS-TXT | | | | | | | | | |
| WS-TEMP-32-CHARS-2-TXT 002543W 002984 002989 002995 002996 003002 003005 003012 WS-TEMP-32-CHARS-3-TXT 002545W 002985 002990 002998 002999 003007 003010 003012 | | 002549W | | | | | 002945 | 002950 | 003678 | 003680 |
| WS-TEMP-32-CHARS-3-TXT 002545W 002985 002990 002998 002999 003007 003010 003012 | | 002541W | | | | | | | | |
| | | | | | | | | | | |
| WS-TEMP-65-CHARS-TXT 002547W 003700 003701 003707 003712 003716 003720 003732 003733 | | | | | | | | | | |
| | WS-TEMP-65-CHARS-TXT | 002547W | 003700 | 003701 | 003707 | 003712 | 003716 | 003720 | 003732 | 003733 |

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| Data Section (WORKING-STORAGE) | Defn | Locations |
|---------------------------------|---------|---|
| | + | |
| | | 003736 003739 003743 003747 |
| WS-TODAY-DT | 002551W | 002701 002702 |
| WS-TOKEN-CURR-TXT | 002553W | 002721 002725 002794 002803 002814 002822 002835 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 | |
| WS-TT-TOKEN-IS-ARGTYPE-BOOL | 002562W | |
| WS-TT-TOKEN-IS-EOF-BOOL | 002563W | |
| WS-TT-TOKEN-IS-FUNCTION-BOOL | 002564W | 003059 |
| WS-TT-TOKEN-IS-IDENTIFIER-BOOL | 002565W | |
| WS-TT-TOKEN-IS-KEYWORD-BOOL | 002566W | 002723 002746 003023 003042 003047 003068 003073 003079 |
| | | 003129 |
| WS-TT-TOKEN-IS-LIT-ALPHA-BOOL | | 002828 002854 |
| WS-TT-TOKEN-IS-LIT-NUMBER-BOOL | | ** |
| WS-TT-TOKEN-IS-RESERVED-WD-BOOL | | |
| WS-TT-TOKEN-IS-VERB-BOOL | 002569W | |
| WS-USERNAMES-QTY | 002572W | |
| WS-VERSION-TXT | 002574W | |
| WS-XDL-DEF-LINE-NUM | 002581W | |
| WS-XDL-PROG-ID-TXT | 002577W | |
| WS-XDL-REF-FLAG-CHR | 002587W | |
| WS-XDL-REF-LINE-NUM | 002586W | 003539 |
| WS-XDL-REFERENCE-TXT | 002585W | |
| WS-XDL-SECTION-TXT | 002583W | |
| WS-XDL-TOKEN-TXT | 002579W | |
| WS-XREF-DETAIL-LINE-TXT | 002576W | 003472 003479 003482 003492 003496 003505 003524 003544 |
| | | 003607 003610 003613 |
| WS-XREF-LINES-PER-REC-NUM | 002590W | 002658 002662 003534 |

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Data Section (LINKAGE) Defn Locations

| | + | |
|------------------|---------|---|
| | | |
| L-LISTING-CD | 002603K | X 002610 002657 002694 003557 003606 003618 003759 003773 |
| | | 003814 003855 |
| L-LISTING-FN-TXT | 002593K | K 002605 |
| L-LPP-NUM | 002599K | K 002608 002695 |
| L-LPP-PORT-NUM | 002601K | K 002609 002697 |
| L-OS-TYPE-CD | 002597K | K 002607 002633 |
| L-SRC-FN-TXT | 002595K | X 002606 002642 002643 002645 002650 002654 002666 002667 |
| | | 002669 002671 002676 |
| | | 002009 002011 002010 |
| | | |

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Symbols of Module: GCIC (LISTING)

| Variable Tested | [0] | (88-Conditions | , |
|---------------------|-----|--------------------|-------|
| | | | |

| WS-CURR-CHR | WS-CURR-CHAR-IS-PUNCT-BOOL |
|------------------------|---------------------------------|
| WS-CURR-CHR | WS-CURR-CHAR-IS-QUOTE-BOOL |
| WS-CURR-CHR | WS-CURR-CHAR-IS-X-BOOL |
| WS-CURR-CHR | WS-CURR-CHAR-IS-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-NEXT-CHR | WS-NEXT-CHAR-IS-QUOTE-BOOL |
| WS-RS-IN-WHICH-PGM-CHR | WS-RS-IN-MAIN-MODULE-BOOL |
| WS-RS-IN-WHICH-PGM-CHR | WS-RS-IN-COPYBOOK-BOOL |
| WS-TOKEN-TYPE-CD | WS-TT-TOKEN-IS-ARGTYPE-BOOL |
| WS-TOKEN-TYPE-CD | WS-TT-TOKEN-IS-EOF-BOOL |
| WS-TOKEN-TYPE-CD | WS-TT-TOKEN-IS-FUNCTION-BOOL |
| WS-TOKEN-TYPE-CD | WS-TT-TOKEN-IS-IDENTIFIER-BOOL |
| WS-TOKEN-TYPE-CD | WS-TT-TOKEN-IS-KEYWORD-BOOL |
| WS-TOKEN-TYPE-CD | WS-TT-TOKEN-IS-LIT-ALPHA-BOOL |
| WS-TOKEN-TYPE-CD | WS-TT-TOKEN-IS-LIT-NUMBER-BOOL |
| WS-TOKEN-TYPE-CD | WS-TT-TOKEN-IS-VERB-BOOL |
| WS-TOKEN-TYPE-CD | WS-TT-TOKEN-IS-RESERVED-WD-BOOL |

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

Chapter 5 - GCic 26 June 2022

002641P

002635P

COMP-VERS

COMP-YEAR

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

26 June 2022 Chapter 5 - GCic

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

Symbols of Module: GCIC (LISTING)

Unreferenced Working Storage Symbols

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

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

Symbols of Module: GCIC (LISTING)

Unreferenced Procedures

COMP-VERS 002641P COMP-YEAR 002635P

Chapter 5 - GCic 26 June 2022

6. STREAMIO

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

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

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

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

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

First, here is the STREAMIOcb.cpy copybook:

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

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

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

        88
        SCB-MODE-Output-BOOL
        VALUE '0', 'o'.

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

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

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

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

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

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

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

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

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

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

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

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

        95
        SCB-Return-CD
        USAGE BINARY-LONG.

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

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

GNU COBOL 2.1 23NOV2013 Source Listing

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

| Line | Statement | Page: 1 |
|------|---|---------|
| 1 | >>SOURCE FORMAT IS FIXED | |
| 2 | IDENTIFICATION DIVISION. | |
| 3 | PROGRAM-ID. STREAMIO. | |
| 4 | *>**************** | *** |
| 5 | *> Author: Gary L. Cutler | ** |
| 6 | *> | ** |
| 7 | *> This routine centralizes all bytestream file I/O functions | ** |
| 8 | *> into one routine. The manner in which this routine is | ** |
| 9 | <pre>*> CALLed is as follows:</pre> | ** |
| 10 | *> | ** |
| 11 | *> CALL "STREAMIO" USING control-block [, arg2] | ** |
| 12 | | ** |
| 13 | *> where 'control-block' is defined by the "STREAMIOcb.cpy" | ** |
| 14 | | ** |
| 15 | | ** |
| 16 | • | ** |
| 17 | *> The STREAMIO routine has an advantage over the various | ** |
| 18 | <u> </u> | ** |
| 19 | *> | ** |
| 20 | | ** |
| 21 | | ** |
| 22 | • | ** |
| 23 | | ** |
| 24 | | ** |
| 25 | • | ** |
| 26 | | ** |
| 27 | · 11 · | ** |
| 28 | · | ** |
| 29 | 1 | ** |
| 30 | | ** |
| 31 | | ** |
| 32 | | ** |
| 33 | 1 1 | ** |
| 34 | S S | ** |
| 35 | | ** |
| 36 | | ** |
| 37 | | ** |
| 38 | | ** |
| 39 | , | ** |
| 40 | | ** |
| 41 | *> files if you wish, simplifying the process of creating | ** |
| 42 | | ** |
| 43 | | ** |
| 44 | | ** |
| 45 | , i i | ** |
| 46 | | ** |
| 47 | | ** |
| 48 | | |
| 49 | | ** |
| -13 | •• | |

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GNU COBOL 2.1 23NOV2013 Source Listing

| | | C:/Users/ | tda010/Documents/Programs/ | Samples/STREAMIO.cbl |
|----------------------|----------|---|-------------------------------------|----------------------|
| Line | Statemen | | | Page: 2 |
| | | | | |
| 50 | | The control block format is as fold | | |
| 51 | | be defined under an O1-level data: | · · | |
| 52 | | should be INITIALIZEd before any i | tems within it are used. | ** |
| 53 | | of day ii ii wiii | DIG V(A) GOND V | ** |
| 54 | | 05 SCB-Handle-NUM | PIC X(4) COMP-X. | ** |
| 55 | | 05 SCB-Mode-CD | PIC X(1). | ** |
| 56 | | 1 | VALUE 'I', 'i'. | ** |
| 57 | | 1 | VALUE 'O', 'o'. VALUE 'B', 'b'. | ** |
| 58 50 | | | | ** |
| 59 | | 05 SCB-Function-CD | PIC X(2). | ** |
| 60 | | *** *** **** ***** | VALUE 'C', 'c'. | |
| 61 62 | | | VALUE 'D ', 'd '. VALUE 'O ', 'o '. | ** |
| | | | - | ** |
| 63 | | | VALUE 'R ', 'r '. | ** |
| 64 | | 88 SCB-Func-READ-Delim-BOOL | VALUE 'RD', 'rd', | ** |
| 65 | | 88 SCB-Func-WRITE-BOOL | 'rD', 'Rd'. | ** |
| 66 67 | | | VALUE 'W ', 'w '. VALUE 'WD', 'wd', | ** |
| 68 | | 00 SCB-runc-write-Delim-BOOL | 'wD', 'Wd'. | ** |
| 69 | | 05 SCB-Delimiter-Mode-CD | PIC X(1). | ** |
| 70 | | | VALUE 'U', 'u'. | ** |
| 70 | | | VALUE 'W', 'w'. | ** |
| 72 | | 88 SCB-Delim-Windows-BOOL 05 SCB-Offset-NUM | PIC X(8) COMP-X. | |
| 73 | | 05 SCB-Error-Routine-PTR | USAGE PROGRAM-POINTER. | ** |
| 73 74 | | 05 SCB-Error-Routine-Pik 05 SCB-Error-Routine-NUM REDEFINES | | ** |
| 7 4 75 | | OS SCB-EITOT-ROUTINE-NOW REDEFINES | USAGE BINARY-LONG. | ** |
| 75 76 | | OF GCB-Datumn-CD | USAGE BINARY-LONG. | |
| 77 | | 05 SCB-Return-CD 05 SCB-Filename-TXT | PIC X(256). | ** |
| 78 | | | FIC X(250). | ** |
| 79 | | Such a structure is defined for you | ur use using the convbook | ** |
| 80 | | "STREAMIOcb.cpy" (you may also def: | 9 10 | ** |
| 81 | | conforms to the above layout). | ine your own, provided it | ** |
| 82 | | | | -** |
| 83 | | SCB-Handle-NUM | | ** |
| 84 | | | | |
| 85 | | | | ** |
| 86 | | Serves as a file handle to the file | e once it has been opened | |
| 87 | | (via the "SCB-Func-OPEN-BOOL" func | - | ** |
| 88 | | (.14 010 002 1410 0121 2002 1410 | 01011, 1 | ** |
| 89 | | | | -** |
| 90 | | SCB-Mode-CD | | ** |
| 91 | *> | | | -** |
| 92 | *> | | | ** |
| 93 | | Prior to calling "STREAMIO" for the | e first time for a file | ** |
| 94 | | the appropriate subordinate level-8 | | ** |
| 95 | | select an I/O mode. You may also | | ** |
| 96 | | string values listed on the level- | 1 0 | |
| 97 | | 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | ** |
| 98 | | | | |
| | • | | | |

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GNU COBOL 2.1 23NOV2013 Source Listing

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

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

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GNU COBOL 2.1 23NOV2013 Source Listing

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

| Line | Statement | C:/Users/tdao10/Documents/Programs/S | 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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GNU COBOL 2.1 23NOV2013 Source Listing

| NU CU | BUL 2.1 23 | 3NUV2013 Source Listing | 2014/03, |
|-------|------------|---|----------|
| ino | Statomont | C:/Users/tda010/Documents/Programs/ | _ |
| ine | Statement | , | Page : |
| 197 | *> | ferences: | ** |
| 198 | | Telences. | ** |
| 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 | | of min including the one of time bequence. | ** |
| 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 | *> | • | ** |
| 212 | | these instances, an SCB-Return-CD value of 02 will | ** |
| 213 | | be returned and the SCB-Offset-NUM value will be | ** |
| 214 | | incremented past the next end-of-line sequence in | ** |
| 215 | | the file (this will involve at least one additional | ** |
| 216 | *> | call to CBL_READ_FILE to locate that eol sequence, | ** |
| 217 | | but any additional such reads will be done internal- | ** |
| 218 | | ly to STREAMIO and will be entirely transparent to | ** |
| 219 | *> | the caller of STREAMIO. | ** |
| 220 | *> | | ** |
| 221 | *> | DO NOT USE the Streamio-READ-Delim function if the | ** |
| 222 | *> | possibility exists that linefeed (X"OA") or carriage- | ** |
| 223 | *> | return (X"OD") characters could exist as actual data | ** |
| 224 | *> | characters in the file. | ** |
| 225 | *> | | ** |
| 226 | *> | SCB-Func-WRITE-Delim-BOOL | ** |
| 227 | *> | | ** |
| 228 | *> | SCB-Func-WRITE-Delim-BOOL acts like the Streamio- | ** |
| 229 | *> | FUNC-WRITE function, with the following difference: | ** |
| 230 | *> | | ** |
| 231 | *> | After the specified data is written to the file, an | ** |
| 232 | *> | end-of-line sequence will also be written to the file. | ** |
| 233 | *> | The file-offset value (SCB-Value) will be incremented | ** |
| 234 | *> | by the byte-count size of the data PLUS the size of the | ** |
| 235 | *> | end-of-line sequence. One of two possible end-of-line | ** |
| 236 | *> | sequences must be specified using the value of SCB- | ** |
| 237 | *> | Delimter-Mode. | ** |
| 238 | | | ** |
| 239 | • | | -** |
| 240 | | SCB-Delimiter-Mode-CD | ** |
| 241 | | | -** |
| 242 | | | ** |
| 243 | | This data item is needed only when issuing the Streamio- | ** |
| 244 | | FUNC-WRITE-Delim function. In those circumstances, this | ** |
| 245 | *> | item defines what end-of-line delimiter sequence is to be | ** |

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GNU COBOL 2.1 23NOV2013 Source Listing

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

| Line | Statement | ; | _ | Page: 6 |
|------|-----------|--|-------------|---------|
| 246 | *> | written: | ** | |
| 247 | *> | | ** | |
| 248 | *> | If SCB-Delim-Unix-BOOL is true, a linefeed character will | ** | |
| 249 | *> | be written. | ** | |
| 250 | *> | | ** | |
| 251 | *> | If SCB-Delim-Windows-BOOL is true, a carriage-return and | ** | |
| 252 | | linefeed sequence will be written. | ** | |
| 253 | | • | ** | |
| 254 | *>- | | -** | |
| 255 | *> | SCB-Offset-NUM | ** | |
| 256 | *>- | | -** | |
| 257 | *> | | ** | |
| 258 | *> | This data item specifies the next relative byte number with- | ** | |
| 259 | *> | in the file where the next read or write will start. | ** | |
| 260 | *> | | ** | |
| 261 | *> | SCB-Offset-NUM is automatically set to 0 (the first byte) | ** | |
| 262 | | when the file is opened, and is automatically incremented as | ** | |
| 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 | ** | |
| 273 | *> | STREAMIO failures, Create the routine and define an entry- | ** | |
| 274 | *> | name for it via the ENTRY statement. Then use the following | ** | |
| 275 | *> | to set that routine up as the error handler: | ** | |
| 276 | *> | | ** | |
| 277 | *> | SET SCB-Error-Routine-PTR TO ENTRY "entry-name" | ** | |
| 278 | *> | | ** | |
| 279 | *> | To "turn off" the error-routine: | ** | |
| 280 | *> | | ** | |
| 281 | *> | SET SCB-Error-Routine-PTR TO NULL | ** | |
| 282 | *> | | ** | |
| 283 | *> | If a fatal error occurs (any error not marked with a ">" in | ** | |
| 284 | *> | the SCB-Return-CD discussion), the error routine you spe- | ** | |
| 285 | | cified (if any) will be set up as an exit routine via the | ** | |
| 286 | *> | ${\tt CBL_EXIT_PROC\ subroutine;\ the\ STREAMIO\ routine\ will\ then\ is-}$ | ** | |
| 287 | *> | sue a STOP RUN to intentionally trigger your error routine. | ** | |
| 288 | *> | You will not be able to recover your program once your error $% \left(1\right) =\left(1\right) \left(1\right) $ | ** | |
| 289 | *> | routine triggers. If you wish to be able to recover from | ** | |
| 290 | *> | fatal STREAMIO errors, you should NOT use the SCB-Error- | ** | |
| 291 | *> | 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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GNU COBOL 2.1 23NOV2013 Source Listing

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

| Line | Statement | C:/Users/tdao10/Documents/Programs/S | Page: 7 |
|------------|-----------|---|---------|
| ===== | | . , | |
| 295 | | copybook. | ** |
| 296 | | | ** |
| 297 | | | |
| 298 | | SCB-Return-CD | ** |
| 299 | | | |
| 300 | | The fellowing on the social COD Detune OD colors The | ** |
| 301 | | The following are the possible SCB-Return-CD values. The | ** |
| 302 | | ones marked with a ">" will NOT trigger an error-routine, if | |
| 303 | | one is currently registered via SCB-Error-Routine-PTR. | ** |
| 304 | | 10 I/O amon rmiting to file | ** |
| 305 | | , | ** |
| 306 | | | ** |
| 307 | | | ** |
| 308 | | > 02 READ-Delim was truncated | ** |
| 309 | | > 01 No more data is available from the current | ** |
| 310 | | SCB-Offset-NUM | ** |
| 311 312 | | > 00 OK - the operation was successful -1 Invalid SCB-Function-CD | ** |
| | | | ** |
| 313 | | | ** |
| 314 | | | ** |
| 315 316 | | -4 invalid delimiter mode specified (Not 0/W) | ** |
| 317 | | | |
| 318 | | SCB-Filename-TXT | |
| 319 | | POD_LITEHUMME_1V1 | ** |
| 320 | - | | ** |
| 321 | | This is the name of the file you wish to access. | ** |
| 321 | | This is the name of the file you wish to access. | ** |
| 323 | | If you are planning on reading the file, the file MUST exist | |
| 324 | | at the time the SCB-Func-OPEN-BOOL is executed. | ** |
| 325 | | at the time the bob rane train both is encounted. | ** |
| 326 | | If you are planning on writing to the file, the file need | ** |
| 327 | | exist when the SCB-Func-OPEN-BOOL is issued. | ** |
| 328 | | 01120 111011 0110 002 1 0110 01 210 2002 12 120 0001 | ** |
| 329 | | In general, the contents of SCB-Filename-TXT should re- | ** |
| 330 | | flect the complete path to the file as well as the name of | ** |
| 331 | | the file itself, unless the file is contained in whatever | ** |
| 332 | | directory is current at the time the SCB-Func-OPEN-BOOL is | ** |
| 333 | | executed. | ** |
| 334 | | | ** |
| 335 | | The following special values may be used for | ** |
| 336 | | SCB-Filename-TXT: | ** |
| 337 | | | ** |
| 338 | | SPACES If the filename is SPACES, a filename will be created | ** |
| 339 | *> | automatically for you in whatever directory is de- | ** |
| 340 | *> | fined by the TEMP environment variable. If there IS | ** |
| 341 | *> | no TEMP variable defined, the "/tmp" folder will be | ** |
| 342 | *> | assumed. The filename will be STREAMIO-nnnnnnnn.dat | ** |
| 343 | *> | where "nnnnnnnn" is a random number. | ** |
| | | | |

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GNU COBOL 2.1 23NOV2013 Source Listing

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

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

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

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

it treated as this special name. **
   354
   355
   356
   357
   358
   359
                                                                            **
   360
           *>***********************
   361
            ENVIRONMENT DIVISION.
   362
           CONFIGURATION SECTION.
   363
           REPOSITORY.
   364
                 FUNCTION ALL INTRINSIC.
          DATA DIVISION.
WORKING-STORAGE SECTION.
   365
   366
                                            PIC X(1) COMP-X.
PIC X(4) COMP-X.
PIC X(256).
PIC X(2).
PIC X(256).
PIC X(1).
USAGE BINARY-LONG
   367
            01 WS-Access-Mode-CD
           01 WS-Arg-Length-NUM
   368
   369
           01 WS-Buffer-TXT
           01 WS-Delim-Buffer-TXT
   370
   371
           01 WS-Env-Temp-TXT
   372
           01 WS-Slash-CHR
                                                     USAGE BINARY-LONG.
   373
           01 WS-Tally-NUM
                                                     PIC 9(8).
   374
           01 WS-8-Digit-NUM
   375
           01 WS-256-Byte-TXT
                                                     PIC X(256).
           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
Line Statement Page: 9
----- 88 L-SCB-Func-WRITE-Delim-BOOL VALUE 'WD' 'wd'

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

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GNU COBOL 2.1 23NOV2013 Source Listing

C:/Users/tda010/Documents/Programs/Samples/STREAMIO.cbl Line Statement _____ 418 END-EVALUATE CALL "CBL_WRITE_FILE" USING L-SCB-Handle-NUM 419 420 L-SCB-Offset-NUM 421 WS-Arg-Length-NUM 422 423 WS-Delim-Buffer-TXT 424 PERFORM 040-Check-WRITE-SCB-Return-CD ADD WS-Arg-Length-NUM TO L-SCB-Offset-NUM 425 426 WHEN OTHER 427 MOVE -1 TO L-SCB-Return-CD 428 PERFORM 099-ERROR-Return 429 END-EVALUATE 430 GOBACK 431 020-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 436 437 438 030-Validate-Handle-NonZero SECTION. 439 IF L-SCB-Handle-NUM = ZERO 440 MOVE 10 TO L-SCB-Return-CD 441 PERFORM 099-ERROR-Return 442 END-IF 443 444 040-Check-WRITE-SCB-Return-CD SECTION. IF RETURN-CODE < 0 445 446 MOVE -3 TO L-SCB-Return-CD PERFORM 099-ERROR-Return 447 448 END-IF 449 IF RETURN-CODE = 30MOVE 12 TO L-SCB-Return-CD 450 PERFORM 099-ERROR-Return 451 452 END-TF 453 MOVE 00 TO L-SCB-Return-CD 454 455 050-Check-READ-SCB-Return-CD SECTION. 456 IF RETURN-CODE < 0 457 MOVE -3 TO L-SCB-Return-CD 458 PERFORM 099-ERROR-Return 459 END-IF 460 IF RETURN-CODE = 10 461 MOVE 01 TO L-SCB-Return-CD 462 GOBACK 463 END-IF 464 MOVE 00 TO L-SCB-Return-CD 465 466 060-Identify-TEMP SECTION.

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

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

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

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2014/03/27

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

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GNU COBOL 2.1 23NOV2013 Source Listing

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

GNU COBOL 2.1 23NOV2013 Cross-Reference Listing

| PROGRAM-ID | Identifier/Register/Function | Defn | O/Documents/Property Where Defined | Reference | s | Page: 15 |
|------------|-------------------------------|------|------------------------------------|-----------|------|----------|
| STREAMIO | 000-Main | | PROCEDURE | | | |
| STREAMIO | 020-Validate-Handle-Zero | 432 | PROCEDURE | 392 | | |
| STREAMIO | 030-Validate-Handle-NonZero | 438 | PROCEDURE | 387 | 395 | 398 |
| | | | | 401 | 406 | 411 |
| STREAMIO | 040-Check-WRITE-SCB-Return-CD | 444 | PROCEDURE | 424 | 570 | |
| STREAMIO | 050-Check-READ-SCB-Return-CD | 455 | PROCEDURE | 582 | 594 | |
| STREAMIO | 060-Identify-TEMP | 466 | PROCEDURE | 493 | 508 | |
| STREAMIO | 099-ERROR-Return | 478 | PROCEDURE | 417 | 428 | 435 |
| | | | | 441 | 447 | 451 |
| | | | | 458 | 489 | 535 |
| | | | | 544 | 548 | 557 |
| | | | | 614 | | |
| STREAMIO | 100-OPEN | 485 | PROCEDURE | 393 | | |
| STREAMIO | 200-CLOSE | 553 | PROCEDURE | 388 | | |
| STREAMIO | 300-WRITE | 562 | PROCEDURE | 402 | 407 | 412 |
| STREAMIO | 400-READ | 573 | PROCEDURE | 396 | | |
| STREAMIO | 500-READ-Delim | 585 | PROCEDURE | 399 | | |
| STREAMIO | L-Arg2-TXT | 380 | LINKAGE | 382 | 569C | 576* |
| | | | | 581C | 588* | 593C |
| | | | | 599 | 600* | 640 |
| | | | | 652* | 655* | |
| STREAMIO | L-SCB-DELIM-Unix-BOOL | 379 | [STREAMIOcb |] 405 | | |
| STREAMIO | L-SCB-DELIM-Windows-BOOL | 379 | [STREAMIOcb |] 410 | | |
| STREAMIO | L-SCB-Delimiter-Mode-CD | 379 | [STREAMIOcb |] | | |
| STREAMIO | L-SCB-Error-Routine-NUM | 379 | [STREAMIOcb |] 479 | | |
| STREAMIO | L-SCB-Error-Routine-PTR | 379 | [STREAMIOcb | 379 | 480C | |
| STREAMIO | L-SCB-Filename-TXT | 379 | [STREAMIOcb |] 390C | 487 | 492 |
| | | | | 494* | 506* | 507 |
| | | | | 509 | 512 | 514* |
| | | | | 524* | 537C | |
| STREAMIO | L-SCB-Func-CLOSE-BOOL | 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 | 379 | [STREAMIOcb |] | | |
| STREAMIO | L-SCB-MODE-Input-BOOL | 379 | [STREAMIOcb |] 486 | 527 | |
| STREAMIO | L-SCB-MODE-Output-BOOL | 379 | [STREAMIOcb | 529 | | |
| STREAMIO | L-SCB-Offset-NUM | 379 | [STREAMIOcb |] 420C | 425* | 551* |
| | | | | 566C | 571* | 578C |
| | | | | 583* | 590C | 602* |
| | | | | | | |

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GNU COBOL 2.1 23NOV2013 Cross-Reference Listing 2014/03/27

| PROGRAM-ID | Identifier/Register/Function | Defn | | Reference | s | EAMIO.cbl Page: 16 |
|------------|---|---------|-----------------|-----------|----------------|-----------------------|
| | == ==================================== | = ===== | ========= | 608C | ====== 623* | 629* |
| | | | | 638* | | |
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| | | | | 450* | 453* | 457* |
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| | | | | 579C | 583 | 587* |
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