

For Version 3.1 Dev-0 [Dec2019]

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This manual documents GnuCOBOL 3.1 Dev-0, Dec2019 build.

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1. FileStat-Msgs

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

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

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

Here's the FileStat-Msgs.cpy copybook:

```
EVALUATE STATUS
     WHEN OO MOVE 'SUCCESS
                                             , TO MSG
                                             , TO MSG
     WHEN 02 MOVE 'SUCCESS DUPLICATE
     WHEN 04 MOVE 'SUCCESS INCOMPLETE
                                             , TO MSG
     WHEN 05 MOVE 'SUCCESS OPTIONAL
                                             , TO MSG
     WHEN 07 MOVE 'SUCCESS NO UNIT
                                             , TO MSG
                                             ' TO MSG
     WHEN 10 MOVE 'END OF FILE
     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
     WHEN 34 MOVE 'BOUNDARY VIOLATION
                                             , TO MSG
                                             , TO MSG
     WHEN 35 MOVE 'FILE NOT FOUND
     WHEN 37 MOVE 'PERMISSION DENIED
                                             , TO MSG
     WHEN 38 MOVE 'CLOSED WITH LOCK
                                             , TO MSG
                                             , TO MSG
     WHEN 39 MOVE 'CONFLICT ATTRIBUTE
                                             ' TO MSG
     WHEN 41 MOVE 'ALREADY OPEN
                                             , TO MSG
     WHEN 42 MOVE 'NOT OPEN
                                             , TO MSG
     WHEN 43 MOVE 'READ NOT DONE
                                             , TO MSG
     WHEN 44 MOVE 'RECORD OVERFLOW
                                             , TO MSG
     WHEN 46 MOVE 'READ ERROR
     WHEN 47 MOVE 'INPUT DENIED
                                             , TO MSG
     WHEN 48 MOVE 'OUTPUT DENIED
                                             , TO MSG
     WHEN 49 MOVE 'I/O DENIED
                                             , TO MSG
                                             , TO MSG
     WHEN 51 MOVE 'RECORD LOCKED
                                             , TO MSG
     WHEN 52 MOVE 'END-OF-PAGE
                                             , TO MSG
     WHEN 57 MOVE 'I/O LINAGE
     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.

GNU COBOL 2.1 23NOV2013 Source Listing

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

Line	Statement	S/Samples/CUBDUMP.cbl Page: 1
1	>>SOURCE FORMAT IS FIXED	
2	IDENTIFICATION DIVISION.	
3	PROGRAM-ID. COBDUMP.	
4	*>*************************************	***
5	*> This is an OpenCOBOL subroutine that will generate a	**
6	*> 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	*> If specified, the <length> argument specifies how many</length>	**
13	*> bytes of <data-item> are to be dumped. If absent, all of</data-item>	**
14	<pre>*> <data-item> will be dumped (i.e. LENGTH(<data-item>) will</data-item></data-item></pre>	**
15	<pre>*> be assumed for <length>).</length></pre>	**
16	*>	**
17	*> >>> Note that the subroutine name MUST be specified in <<<	**
18	*> >>> UPPERCASE <<<	**
19	*>	**
20	*> The dump is generated to STDERR, so you may pipe it to a	**
21	*> file when you execute your program using "2> file".	**
22	*>	**
23	*> AUTHOR: GARY L. CUTLER	**
24	*>	**
25	*> NOTE: The author has a sentimental attachment to	**
26	*> this subroutine - it's been around since 1971	**
27	<pre>*> and it's been converted to and run on 10 dif-</pre>	**
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	*> GC0887 Converted to IBM VS COBOL II - COBOL '85	**
42	*> GC1294 Converted to Micro Focus COBOL V3.0 - COBOL '85 w/	**
43	*> extensions	**
44	*> GC0703 Converted to Unisys Universal Compiling System (UCS)	
45	*> COBOL (UCOB) - COBOL '85	**
46	*> GC1204 Converted to Unisys Object COBOL (OCOB) - COBOL 2002	
47	*> GC0609 Converted to OpenCOBOL 1.1 - COBOL '85 w/ some COBOL	
48	*> 2002 features	**
49	*> GC0410 Enhanced to make 2nd argument (buffer length)	**

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GNU COBOL 2.1 23NOV2013 Source Listing

2014/03/27

C:/Users/tda010/Documents/Programs/Samples/COBDUMP.cbl Line Statement Page: 2 _____ optional *> GCO211 Ported to IBM Enterprise COBOL ** 52 *> GC0612 Updated for OpenCOBOL 2.0 53 54 ENVIRONMENT DIVISION. CONFIGURATION SECTION. 55 56 REPOSITORY. 57 FUNCTION ALL INTRINSIC. DATA DIVISION. 58 59 WORKING-STORAGE SECTION. USAGE POINTER. 60 01 WS-Addr-PTR 61 01 WS-Addr-NUM REDEFINES WS-Addr-PTR USAGE BINARY-LONG. 62 63 01 WS-Addr-SUB USAGE BINARY-CHAR. 64 01 WS-Addr-Value-NUM USAGE BINARY-LONG. 67 68 01 WS-Buffer-Byte-CHR. 69 05 WS-Buffer-Byte-NUM USAGE BINARY-CHAR. 70 71 01 WS-Buffer-Length-NUM USAGE BINARY-LONG. 72 73 01 WS-Buffer-SUB PIC 9(4) COMP-5. 74 01 WS-Hex-Digit-TXT VALUE '0123456789ABCDEF'. 75 76 05 WS-Hex-Digit-CHR OCCURS 16 TIMES 77 PIC X(1). 78 79 01 WS-Nibble-SUB PIC 9(1) COMP-5. 80 01 WS-Nibble-Left-SUB PIC 9(1) COMP-5. 81 82 83 PIC 9(1) COMP-5. 01 WS-Nibble-Right-SUB 84 01 WS-Output-Detail-TXT. 85 05 WS-OD-Addr-TXT. 86 10 WS-OD-Addr-Hex-CHR OCCURS 8 TIMES PIC X. 87 10 WS-0 05 FILLER O5 WS-OD-Relative-Byte-NUM PIC Z(3)9.
O5 FILLER 88 89 O5 WS-OD-Hex-TXT 90 OCCURS 16 TIMES. 91 10 WS-OD-Hex-1-CHR 10 WS-OD-Hex-2-CHR 92 PIC X. PIC X. 93 PIC X. 10 FILLER 05 WS-OD-ASCII-Data-TXT. 95 10 WS-OD-ASCII-CHR OCCURS 16 TIMES 96 97 PIC X.

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		C:/¹	Users/tda010/Documents/Programs/Samples/COBDUMP.cbl
Line	Statement		Page: 3
99		WS-Output-SUB	PIC 9(2) COMP-5.
100		101 D C	
101		SOURCE FORMAT IS FREE	
102		WS-Output-Header-1-TXT.	
103			Hexadecimal ''> <
404		>' PIC X(80).	
104		UG Octoor Handley O TYT	
105		WS-Output-Header-2-TXT.	
106		· PIC X(80).	
107		SOURCE FORMAT IS FIXED	
		OUNCE FURMAL IS FIXED	
108		WACE SECTION	
109		KAGE SECTION. L-Buffer-TXT	PIC X ANY LENGTH.
110 111		L-Builer-IXI	PIC A ANI LENGIA.
111		I_Puffor_Iongth_NIM	USAGE BINARY-LONG.
113		L-Buffer-Length-NUM	OSAGE DINARI-LONG.
113		CEDURE DIVISION USING L-Buff	er-TYT
115			AL L-Buffer-Length-NUM.
116)-Main SECTION.	and it builter being on worr.
117		IF NUMBER-OF-CALL-PARAMETER	S = 1
118			T) TO WS-Buffer-Length-NUM
119		ELSE	1) 10 WD Bullot Hength Non
120			M TO WS-Buffer-Length-NUM
121		END-IF	in to we build hongon non
122		MOVE SPACES TO WS-Output-De	tail-TXT
123		SET WS-Addr-PTR TO ADDRESS	
124		PERFORM 100-Generate-Address	
125		MOVE O TO WS-Output-SUB	
126		DISPLAY WS-Output-Header-1-	TXT UPON SYSERR
127		DISPLAY WS-Output-Header-2-	
128		PERFORM VARYING WS-Buffer-S	
129		UNTIL WS-Buffer-S	UB > WS-Buffer-Length-NUM
130		ADD 1 TO WS-Output-SUB	Ğ
131		IF WS-Output-SUB = 1	
132		MOVE WS-Buffer-SUB '	TO WS-OD-Relative-Byte-NUM
133		END-IF	
134		MOVE L-Buffer-TXT (WS-B	uffer-SUB : 1)
135		TO WS-OD-ASCII-CHR (W	S-Output-SUB)
136		WS-Buffer-Byte-CHR	
137		DIVIDE WS-Buffer-Byte-N	UM BY 16
138		GIVING WS-Nibble-Le	ft-SUB
139		REMAINDER WS-Nibble	-Right-SUB
140		ADD 1 TO WS-Nibble-Left	-SUB
141		WS-Nibble-Righ	t-SUB
142		MOVE WS-Hex-Digit-CHR (
143		TO WS-OD-Hex-1-CHR (-
144		MOVE WS-Hex-Digit-CHR (
145		TO WS-OD-Hex-2-CHR (WS-Output-SUB)

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GNU COBOL 2.1 23NOV2013 Source Listing

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Line	Statement	C:/Users/tda010/Documents/Programs/Samples/COBDUMP.cbl Page: 4
146		IF WS-Output-SUB = 16
147	•	CALL "C\$PRINTABLE" USING WS-OD-ASCII-Data-TXT
148	3	DISPLAY WS-Output-Detail-TXT UPON SYSERR
149)	MOVE SPACES TO WS-Output-Detail-TXT
150)	MOVE O TO WS-Output-SUB
151	<u>-</u>	SET WS-Addr-PTR UP BY 16
152	2	PERFORM 100-Generate-Address
153	3	END-IF
154	Į.	END-PERFORM
155	5	IF WS-Output-SUB > 0
156	3	CALL "C\$PRINTABLE" USING WS-OD-ASCII-Data-TXT
157	•	DISPLAY WS-Output-Detail-TXT UPON SYSERR
158	3	END-IF
159)	EXIT PROGRAM
160)	•
161	. 10	O-Generate-Address SECTION.
162	2	MOVE 8 TO WS-Addr-SUB
163	3	MOVE WS-Addr-NUM TO WS-Addr-Value-NUM
164	Ŀ	MOVE ALL '0' TO WS-OD-Addr-TXT
165	5	PERFORM WITH TEST BEFORE UNTIL WS-Addr-Value-NUM = 0
166	5	DIVIDE WS-Addr-Value-NUM BY 16
167	•	GIVING WS-Addr-Value-NUM
168	3	REMAINDER WS-Nibble-SUB
169)	ADD 1 TO WS-Nibble-SUB
170)	MOVE WS-Hex-Digit-CHR (WS-Nibble-SUB)
171		TO WS-OD-Addr-Hex-CHR (WS-Addr-SUB)
172		SUBTRACT 1 FROM WS-Addr-SUB
173	3	END-PERFORM
17/		

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GNU COBOL 2.1 23NOV2013 Cross-Reference Listing

2014/03/27

PROGRAM-ID Identifier/Register/Function Defn Where Defined References Page: 5		C:/Use	rs/tda0	10/Documents/Pro	grams/Sampl	es/COE	BDUMP.cbl
COBDUMP	PROGRAM-ID						0
COBDUMP					========		
COBDUMP							
COBDUMP							
COBDUMP NUMBER-OF-CALL-PARAMETERS		9					
COBDUMP	COBDUMP	L-Buffer-TXT	110	LINKAGE		118	123
COBDUMP							
COBDUMP WS-Addr-PTR							
COBDUMP WS-Addr-SUB	COBDUMP	WS-Addr-NUM	61	WORKING-STORAGE			
COBDUMP	COBDUMP	WS-Addr-PTR					
COBDUMP	COBDUMP	WS-Addr-SUB	64	WORKING-STORAGE		171	172
COBDUMP WS-Buffer-Byte-CHR 68 WORKING-STORAGE 136 COBDUMP WS-Buffer-Byte-NUM 69 WORKING-STORAGE 137 COBDUMP WS-Buffer-Length-NUM 71 WORKING-STORAGE 118* 120* 129 COBDUMP WS-Buffer-SUB 73 WORKING-STORAGE 128* 129 132 COBDUMP WS-Buffer-SUB 76 WORKING-STORAGE 142 144 170 COBDUMP WS-Hex-Digit-CHR 76 WORKING-STORAGE 142 144 170 COBDUMP WS-Hex-Digit-TXT 75 WORKING-STORAGE 138* 140* 142 COBDUMP WS-Hex-Digit-TXT 75 WORKING-STORAGE 138* 140* 142 COBDUMP WS-Nibble-Left-SUB 81 WORKING-STORAGE 138* 140* 142 COBDUMP WS-Nibble-SUB 79 WORKING-STORAGE 168* 169* 170 COBDUMP WS-OD-Addr-Hex-CHR 87 WORKING-STORAGE 171* 174 174 174 174 174 174 175 174 174 174	COBDUMP	WS-Addr-Value-NUM	66	WORKING-STORAGE	163*	165	166
COBDUMP WS-Buffer-Byte-NUM 69 WORKING-STORAGE 137 COBDUMP WS-Buffer-Length-NUM 71 WORKING-STORAGE 118* 120* 129 COBDUMP WS-Buffer-SUB 73 WORKING-STORAGE 128* 129 132 COBDUMP WS-Hex-Digit-CHR 76 WORKING-STORAGE 142 144 170 COBDUMP WS-Hex-Digit-TXT 75 WORKING-STORAGE 138* 140* 142 COBDUMP WS-Nibble-Left-SUB 81 WORKING-STORAGE 138* 140* 142 COBDUMP WS-Nibble-SUB 83 WORKING-STORAGE 138* 141* 144 COBDUMP WS-Ob-Addr-Hex-CHR 87 WORKING-STORAGE 168* 169* 170 COBDUMP WS-OD-ASCII-CHR 87 WORKING-STORAGE 171* 156C COBDUMP WS-OD-Hex-1-CHR 96 WORKING-STORAGE 145* 146* COBDUMP WS-OD-Hex-2-CHR 92 WORKING-STORAGE 145* 145* COBDUMP WS-OD-Hex-TXT 91 WORKING-STORAGE 122* 148 149*					167*		
COBDUMP	COBDUMP	WS-Buffer-Byte-CHR	68	WORKING-STORAGE	136		
COBDUMP WS-Buffer-SUB 73 WORKING-STORAGE 128* 129 132 134 135 135 134 145 135 135 134 145 135 134 145 135 134 145 135 134 145 135 134 145 135 135 135 135 135 135 134 145 135 145 135 135 145 135 145 135 145 135 145 135 145 145 135 145 145 145 135 145	COBDUMP	WS-Buffer-Byte-NUM	69	WORKING-STORAGE	137		
134 134 134 136	COBDUMP	WS-Buffer-Length-NUM	71	WORKING-STORAGE	118*	120*	129
COBDUMP WS-Hex-Digit-CHR 76 WORKING-STORAGE 142 144 170 COBDUMP WS-Hex-Digit-TXT 75 WORKING-STORAGE 138* 140* 142 COBDUMP WS-Nibble-Left-SUB 81 WORKING-STORAGE 139* 141* 144 COBDUMP WS-Nibble-SUB 79 WORKING-STORAGE 168* 169* 170 COBDUMP WS-OD-Addr-Hex-CHR 87 WORKING-STORAGE 171* 164* 170 COBDUMP WS-OD-Addr-TXT 86 WORKING-STORAGE 164* 169* 170 COBDUMP WS-OD-ASCII-CHR 96 WORKING-STORAGE 146* 156C COBDUMP WS-OD-HEX-1-CHR 92 WORKING-STORAGE 143* 145* COBDUMP WS-OD-Hex-2-CHR 93 WORKING-STORAGE 145* 145* COBDUMP WS-OD-Relative-Byte-NUM 89 WORKING-STORAGE 122* 148 149* COBDUMP WS-Output-Detail-TXT 102 WORKING-STORAGE 126 126 COBDUMP WS-Output-Header-1-TXT 105 WORKING-STORAGE 126 130*	COBDUMP	WS-Buffer-SUB	73	WORKING-STORAGE	128*	129	132
COBDUMP WS-Hex-Digit-TXT 75 WORKING-STORAGE 140* 142 COBDUMP WS-Nibble-Left-SUB 81 WORKING-STORAGE 138* 140* 142 COBDUMP WS-Nibble-Right-SUB 83 WORKING-STORAGE 139* 141* 144 COBDUMP WS-Nibble-SUB 79 WORKING-STORAGE 168* 169* 170 COBDUMP WS-OD-Addr-Hex-CHR 87 WORKING-STORAGE 171* 170 COBDUMP WS-OD-Addr-TXT 86 WORKING-STORAGE 164* 170 COBDUMP WS-OD-ASCII-CHR 96 WORKING-STORAGE 135* 135* COBDUMP WS-OD-ASCII-Data-TXT 95 WORKING-STORAGE 147° 156C COBDUMP WS-OD-Hex-1-CHR 92 WORKING-STORAGE 143* 145* COBDUMP WS-OD-Hex-2-CHR 93 WORKING-STORAGE 145* 145* COBDUMP WS-OD-Relative-Byte-NUM 89 WORKING-STORAGE 122* 148 149* COBDUMP WS-Output-Detail-TXT 102 WORKING-STORAGE 126 157 COBDUMP WS-Outpu					134		
COBDUMP WS-Nibble-Left-SUB 81 WORKING-STORAGE 138* 140* 142 COBDUMP WS-Nibble-Right-SUB 83 WORKING-STORAGE 139* 141* 144 COBDUMP WS-Nibble-SUB 79 WORKING-STORAGE 168* 169* 170 COBDUMP WS-OD-Addr-Hex-CHR 87 WORKING-STORAGE 171* 160* 170 COBDUMP WS-OD-AGCII-CHR 86 WORKING-STORAGE 164* 164* 160* 170 COBDUMP WS-OD-ASCII-Data-TXT 95 WORKING-STORAGE 147C 156C 156C 147C 156C	COBDUMP	WS-Hex-Digit-CHR	76	WORKING-STORAGE	142	144	170
COBDUMP WS-Nibble-Right-SUB 83 WORKING-STORAGE 139* 141* 144 COBDUMP WS-Nibble-SUB 79 WORKING-STORAGE 168* 169* 170 COBDUMP WS-OD-Addr-Hex-CHR 87 WORKING-STORAGE 171* 164* COBDUMP WS-OD-Addr-TXT 86 WORKING-STORAGE 164* 164* COBDUMP WS-OD-ASCII-CHR 96 WORKING-STORAGE 135* 156C COBDUMP WS-OD-ASCII-Data-TXT 95 WORKING-STORAGE 147C 156C COBDUMP WS-OD-Hex-1-CHR 92 WORKING-STORAGE 143* 145* COBDUMP WS-OD-Hex-2-CHR 93 WORKING-STORAGE 145* 145* COBDUMP WS-OD-Relative-Byte-NUM 89 WORKING-STORAGE 132* 148 149* COBDUMP WS-Output-Detail-TXT 85 WORKING-STORAGE 122* 148 149* COBDUMP WS-Output-Header-1-TXT 102 WORKING-STORAGE 126 126 COBDUMP WS-Output-Header-2-TXT 105 WORKING-STORAGE 125* 130* 131 <t< td=""><td>COBDUMP</td><td>WS-Hex-Digit-TXT</td><td>75</td><td>WORKING-STORAGE</td><td></td><td></td><td></td></t<>	COBDUMP	WS-Hex-Digit-TXT	75	WORKING-STORAGE			
COBDUMP WS-Nibble-SUB 79 WORKING-STORAGE 168* 169* 170 COBDUMP WS-OD-Addr-Hex-CHR 87 WORKING-STORAGE 171* 170 COBDUMP WS-OD-Addr-TXT 86 WORKING-STORAGE 164* 164* COBDUMP WS-OD-ASCII-CHR 96 WORKING-STORAGE 135* 147C 156C COBDUMP WS-OD-ASCII-Data-TXT 95 WORKING-STORAGE 147C 156C	COBDUMP	WS-Nibble-Left-SUB	81	WORKING-STORAGE	138*	140*	142
COBDUMP WS-OD-Addr-Hex-CHR 87 WORKING-STORAGE 171* COBDUMP WS-OD-Addr-TXT 86 WORKING-STORAGE 164* COBDUMP WS-OD-ASCII-CHR 96 WORKING-STORAGE 135* COBDUMP WS-OD-ASCII-Data-TXT 95 WORKING-STORAGE 147C 156C COBDUMP WS-OD-Hex-1-CHR 92 WORKING-STORAGE 143* COBDUMP WS-OD-Hex-2-CHR 93 WORKING-STORAGE 145* COBDUMP WS-OD-Hex-TXT 91 WORKING-STORAGE 132* COBDUMP WS-Output-Detail-TXT 85 WORKING-STORAGE 122* 148 149* COBDUMP WS-Output-Header-1-TXT 102 WORKING-STORAGE 126 126 COBDUMP WS-Output-Header-2-TXT 105 WORKING-STORAGE 127 130* 131 COBDUMP WS-Output-SUB 99 WORKING-STORAGE 125* 130* 131 COBDUMP WS-Output-SUB 99 WORKING-STORAGE 125* 130* 131 COBDUMP WS-Output-SUB 99 WORKING-STORAGE 125* 130* 131	COBDUMP	WS-Nibble-Right-SUB	83	WORKING-STORAGE	139*	141*	144
COBDUMP WS-OD-Addr-TXT 86 WORKING-STORAGE 164* COBDUMP WS-OD-ASCII-CHR 96 WORKING-STORAGE 135* COBDUMP WS-OD-ASCII-Data-TXT 95 WORKING-STORAGE 147C 156C COBDUMP WS-OD-Hex-1-CHR 92 WORKING-STORAGE 143* COBDUMP WS-OD-Hex-2-CHR 93 WORKING-STORAGE 145* COBDUMP WS-OD-Hex-TXT 91 WORKING-STORAGE 132* COBDUMP WS-OUtput-Detail-TXT 85 WORKING-STORAGE 122* 148 149* COBDUMP WS-Output-Header-1-TXT 102 WORKING-STORAGE 126 126 COBDUMP WS-Output-Header-2-TXT 105 WORKING-STORAGE 127 130* 131 COBDUMP WS-Output-SUB 99 WORKING-STORAGE 125* 130* 131 COBDUMP WS-Output-SUB 99 WORKING-STORAGE 125* 130* 131 COBDUMP WS-Output-SUB 99 WORKING-STORAGE 125* 130* 131	COBDUMP	WS-Nibble-SUB	79	WORKING-STORAGE	168*	169*	170
COBDUMP WS-OD-ASCII-CHR 96 WORKING-STORAGE 135* COBDUMP WS-OD-ASCII-Data-TXT 95 WORKING-STORAGE 147C 156C COBDUMP WS-OD-Hex-1-CHR 92 WORKING-STORAGE 143* COBDUMP WS-OD-Hex-2-CHR 93 WORKING-STORAGE 145* COBDUMP WS-OD-Hex-TXT 91 WORKING-STORAGE 132* COBDUMP WS-OD-Relative-Byte-NUM 89 WORKING-STORAGE 122* 148 149* COBDUMP WS-Output-Detail-TXT 85 WORKING-STORAGE 122* 148 149* COBDUMP WS-Output-Header-1-TXT 102 WORKING-STORAGE 126 126 COBDUMP WS-Output-Header-2-TXT 105 WORKING-STORAGE 127 130* 131 COBDUMP WS-Output-SUB 99 WORKING-STORAGE 125* 130* 131 COBDUMP WS-Output-SUB 99 WORKING-STORAGE 125* 130* 131	COBDUMP	WS-OD-Addr-Hex-CHR	87	WORKING-STORAGE	171*		
COBDUMP WS-OD-ASCII-Data-TXT 95 WORKING-STORAGE 147C 156C COBDUMP WS-OD-Hex-1-CHR 92 WORKING-STORAGE 143* COBDUMP WS-OD-Hex-2-CHR 93 WORKING-STORAGE 145* COBDUMP WS-OD-Hex-TXT 91 WORKING-STORAGE 132* COBDUMP WS-OD-Relative-Byte-NUM 89 WORKING-STORAGE 122* 148 149* COBDUMP WS-Output-Detail-TXT 85 WORKING-STORAGE 122* 148 149* COBDUMP WS-Output-Header-1-TXT 102 WORKING-STORAGE 126 126 COBDUMP WS-Output-Header-2-TXT 105 WORKING-STORAGE 127 130* 131 COBDUMP WS-Output-SUB 99 WORKING-STORAGE 125* 130* 131 135 143 145	COBDUMP	WS-OD-Addr-TXT	86	WORKING-STORAGE	164*		
COBDUMP WS-OD-ASCII-Data-TXT 95 WORKING-STORAGE 147C 156C COBDUMP WS-OD-Hex-1-CHR 92 WORKING-STORAGE 143* COBDUMP WS-OD-Hex-2-CHR 93 WORKING-STORAGE 145* COBDUMP WS-OD-Hex-TXT 91 WORKING-STORAGE 132* COBDUMP WS-OD-Relative-Byte-NUM 89 WORKING-STORAGE 122* 148 149* COBDUMP WS-Output-Detail-TXT 85 WORKING-STORAGE 122* 148 149* COBDUMP WS-Output-Header-1-TXT 102 WORKING-STORAGE 126 126 COBDUMP WS-Output-Header-2-TXT 105 WORKING-STORAGE 127 130* 131 COBDUMP WS-Output-SUB 99 WORKING-STORAGE 125* 130* 131 135 143 145	COBDUMP	WS-OD-ASCII-CHR	96	WORKING-STORAGE	135*		
COBDUMP WS-OD-Hex-2-CHR 93 WORKING-STORAGE 145* COBDUMP WS-OD-Hex-TXT 91 WORKING-STORAGE 132* COBDUMP WS-OD-Relative-Byte-NUM 89 WORKING-STORAGE 132* COBDUMP WS-Output-Detail-TXT 85 WORKING-STORAGE 122* 148 149* COBDUMP WS-Output-Header-1-TXT 102 WORKING-STORAGE 126 126 COBDUMP WS-Output-Header-2-TXT 105 WORKING-STORAGE 127 130* 131 COBDUMP WS-Output-SUB 99 WORKING-STORAGE 125* 130* 131 135 143 145	COBDUMP	WS-OD-ASCII-Data-TXT	95	WORKING-STORAGE	147C	156C	
COBDUMP WS-OD-Hex-2-CHR 93 WORKING-STORAGE 145* COBDUMP WS-OD-Hex-TXT 91 WORKING-STORAGE 132* COBDUMP WS-OD-Relative-Byte-NUM 89 WORKING-STORAGE 132* COBDUMP WS-Output-Detail-TXT 85 WORKING-STORAGE 122* 148 149* COBDUMP WS-Output-Header-1-TXT 102 WORKING-STORAGE 126 126 COBDUMP WS-Output-Header-2-TXT 105 WORKING-STORAGE 127 130* 131 COBDUMP WS-Output-SUB 99 WORKING-STORAGE 125* 130* 131 135 143 145	COBDUMP	WS-OD-Hex-1-CHR	92	WORKING-STORAGE	143*		
COBDUMP WS-OD-Relative-Byte-NUM 89 WORKING-STORAGE 132* COBDUMP WS-Output-Detail-TXT 85 WORKING-STORAGE 122* 148 149* COBDUMP WS-Output-Header-1-TXT 102 WORKING-STORAGE 126 126 COBDUMP WS-Output-Header-2-TXT 105 WORKING-STORAGE 127 COBDUMP WS-Output-SUB 99 WORKING-STORAGE 125* 130* 131 135 143 145		WS-OD-Hex-2-CHR					
COBDUMP WS-Output-Detail-TXT	COBDUMP	WS-OD-Hex-TXT	91	WORKING-STORAGE			
COBDUMP WS-Output-Detail-TXT		WS-OD-Relative-Byte-NUM					
157 COBDUMP WS-Output-Header-1-TXT 102 WORKING-STORAGE 126 127 105 WORKING-STORAGE 127 128 130 131 143 145		•				148	149*
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		Jack					
COBDUMP WS-Output-Header-2-TXT 105 WORKING-STORAGE 127 COBDUMP WS-Output-SUB 99 WORKING-STORAGE 125* 130* 131 135 143 145	COBDUMP	WS-Output-Header-1-TXT	102	WORKING-STORAGE			
COBDUMP WS-Output-SUB 99 WORKING-STORAGE 125* 130* 131 135 143 145							
135 143 145		-				130*	131
		aopas 202		DIOIMUL			
					146	150*	155

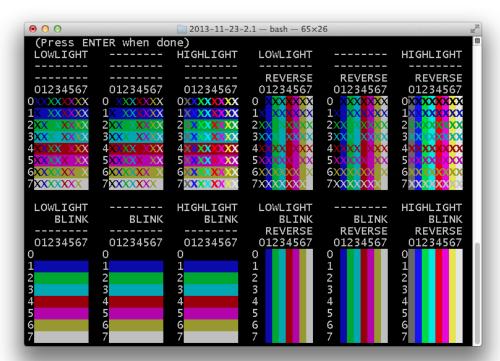
GCic for OSX Copyright (C) 2009-2014, Gary L. Cutler, GPL

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	File for C	OLORS 0	7/12/2019	16:57:00:16
1	>>SOURCE FREE					
2	IDENTIFICATION DIVISION.					
3	PROGRAM-ID. colors.					
4	DATA DIVISION.					
5	WORKING-STORAGE SECTION.					
6	SCREEN SECTION.					
7	01 S-COLORTST-SCR BACKGRO	UND-COLOR	O 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.	4	4	4	4	4
25	10 COL 1 VALUE '4	4	4	4	4	4 '.
26	05 LINE + 1.	5	_	_	_	5 '.
27 28	10 COL 1 VALUE '5 05 LINE + 1.	5	5	5	5	5 '.
28 29	10 COL 1 VALUE '6	6	6	6	6	6 '.
30	05 LINE + 1.	6	0	0	6	0
31	10 COL 1 VALUE '7	7	7	7	7	7 ,.
32	05 LINE + 1.	,	'	,	,	
33	10 COL 1 VALUE ' LOWLIGHT		HTGHT.TGHT	T.OWT.TGHT		HTGHI.TGHT'
34	05 LINE + 1.		111011111	DOWET GITT		
35	10 COL 1 VALUE ' BLINK	BLINK	BLINK	BLINK	BLINK	BLINK'.
36	05 LINE + 1.	222	222	222	222	
37	10 COL 1 VALUE '			REVERSE	REVERSE	REVERSE'.
38	05 LINE + 1.					
39	10 COL 1 VALUE ' 01234567	01234567	01234567	01234567	01234567	01234567'.
40	05 LINE + 1.					
41	10 COL 1 VALUE 'O	0	0	0	0	0 '.
42	05 LINE + 1.					
43	10 COL 1 VALUE '1	1	1	1	1	1 '.
44	05 LINE + 1.					
45	10 COL 1 VALUE '2	2	2	2	2	2 '.
46	05 LINE + 1.					
47	10 COL 1 VALUE '3 7	3 8	3 9	3 10	3 11	3 12 '.
48	05 LINE + 1.					
49	10 COL 1 VALUE '4	4	4	4	4	4 '.
50	05 LINE + 1.					
51	10 COL 1 VALUE '5	5	5	5	5	5 '.
52	05 LINE + 1.					
53	10 COL 1 VALUE '6	6	6	6	6	6 '.
54	05 LINE + 1.					

```
ACS Cobol Xref v2.02.02
                                Dictionary File for COLORS
                                                               07/12/2019 16:57:00:16
        10 COL 1 VALUE '7
                                  7
                                                                                    ٠.
   56
        *> #1
   57
        05 LINE 05.
   58
        10 COL 2 BACKGROUND-COLOR O FOREGROUND-COLOR O LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 LOWLIGHT VALUE 'X'.
        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'.
   88
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 LOWLIGHT VALUE 'X'.
   91
        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
   105
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 LOWLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 LOWLIGHT VALUE 'X'.
   106
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 LOWLIGHT VALUE 'X'.
   107
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 LOWLIGHT VALUE 'X'.
   108
```

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

```
ACS Cobol Xref v2.02.02
                                 Dictionary File for COLORS
                                                               07/12/2019 16:57:00:17
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 VALUE 'X'.
   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.
        10 COL 12 BACKGROUND-COLOR 4 FOREGROUND-COLOR 0 VALUE 'X'.
   167
   168
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 VALUE 'X'.
        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'.
   172
        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 O 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'.
   183
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 VALUE 'X'.
   184
        05 LINE + 1.
   185
        10 COL 12 BACKGROUND-COLOR 6 FOREGROUND-COLOR 0 VALUE 'X'.
   186
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 VALUE 'X'.
   187
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 VALUE 'X'.
   188
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 VALUE 'X'.
   189
   190
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 VALUE 'X'.
   191
   192
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 VALUE 'X'.
   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'.
   200
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 6 VALUE 'X'.
   201
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 VALUE 'X'.
   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
   208
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 HIGHLIGHT VALUE
   209
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 HIGHLIGHT VALUE 'X'.
  210
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 HIGHLIGHT VALUE 'X'.
  211
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 HIGHLIGHT VALUE 'X'.
  212
        05 LINE + 1.
  213
        10 COL 22 BACKGROUND-COLOR 1 FOREGROUND-COLOR 0 HIGHLIGHT VALUE 'X'.
  214
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 1 HIGHLIGHT VALUE 'X'.
  215
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 HIGHLIGHT VALUE 'X'.
  216
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 HIGHLIGHT VALUE 'X'.
```

```
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.
  222
        10 COL 22 BACKGROUND-COLOR 2 FOREGROUND-COLOR O HIGHLIGHT VALUE 'X'.
        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'.
   234
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 HIGHLIGHT VALUE 'X'.
   235
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 HIGHLIGHT VALUE 'X'.
   236
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 HIGHLIGHT VALUE 'X'.
   237
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 HIGHLIGHT VALUE 'X'.
   238
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 HIGHLIGHT VALUE 'X'.
   239
        05 LINE + 1.
        10 COL 22 BACKGROUND-COLOR 4 FOREGROUND-COLOR 0 HIGHLIGHT VALUE 'X'.
   240
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 HIGHLIGHT VALUE 'X'.
   241
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 HIGHLIGHT VALUE 'X'.
   242
   243
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 HIGHLIGHT VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 HIGHLIGHT VALUE 'X'.
   244
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 HIGHLIGHT VALUE 'X'.
   245
   246
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 HIGHLIGHT VALUE 'X'.
   247
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 HIGHLIGHT VALUE 'X'.
   248
        05 LINE + 1.
   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
```

```
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'.
  274
  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'.
   290
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   291
   292
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   293
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   294
        05 LINE + 1.
   295
        10 COL 32 BACKGROUND-COLOR 2 FOREGROUND-COLOR 0 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   296
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   297
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   298
   299
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   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'.
   307
        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'.
   310
   311
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   312
   313
        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'.
  316
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
  317
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
  318
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
  319
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
  320
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
  321
        05 LINE + 1.
  322
        10 COL 32 BACKGROUND-COLOR 5 FOREGROUND-COLOR 0 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
  323
  324
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
```

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ACS Cobol Xref v2.02.02
                                 Dictionary File for COLORS
                                                               07/12/2019 16:57:00:18
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   328
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 6 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   329
   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'.
   344
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   345
   346
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 6 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   347
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 LOWLIGHT REVERSE-VIDEO VALUE 'X'.
   348
        *> #5
   349
        05 LINE 05.
   350
        10 COL 42 BACKGROUND-COLOR O FOREGROUND-COLOR O REVERSE-VIDEO VALUE 'X'.
   351
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 REVERSE-VIDEO VALUE 'X'.
   352
   353
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 REVERSE-VIDEO VALUE 'X'.
   354
   355
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 REVERSE-VIDEO VALUE 'X'.
   356
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 REVERSE-VIDEO VALUE 'X'.
   357
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 REVERSE-VIDEO VALUE 'X'.
   358
        05 I.TNE + 1.
   359
        10 COL 42 BACKGROUND-COLOR 1 FOREGROUND-COLOR 0 REVERSE-VIDEO VALUE 'X'.
   360
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 1 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 REVERSE-VIDEO VALUE 'X'.
   361
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 REVERSE-VIDEO VALUE 'X'.
   362
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 REVERSE-VIDEO VALUE 'X'.
        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'.
   369
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 REVERSE-VIDEO VALUE 'X'.
   370
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 REVERSE-VIDEO VALUE 'X'.
   371
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 REVERSE-VIDEO VALUE 'X'.
   372
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 REVERSE-VIDEO VALUE 'X'.
   373
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 5 REVERSE-VIDEO VALUE 'X'.
   374
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 REVERSE-VIDEO VALUE 'X'.
   375
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 REVERSE-VIDEO VALUE 'X'.
   376
        05 LINE + 1.
   377
        10 COL 42 BACKGROUND-COLOR 3 FOREGROUND-COLOR 0 REVERSE-VIDEO VALUE 'X'.
   378
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 REVERSE-VIDEO VALUE 'X'.
```

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ACS Cobol Xref v2.02.02
                                Dictionary File for COLORS
                                                               07/12/2019 16:57:00:18
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 REVERSE-VIDEO VALUE 'X'.
  382
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 REVERSE-VIDEO VALUE 'X'.
  383
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 REVERSE-VIDEO VALUE 'X'.
  384
  385
        05 LINE + 1.
  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'.
        05 LINE + 1.
        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
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 REVERSE-VIDEO VALUE 'X'.
   405
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 REVERSE-VIDEO VALUE 'X'.
   406
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 REVERSE-VIDEO VALUE 'X'.
   407
   408
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 REVERSE-VIDEO VALUE 'X'.
   409
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 REVERSE-VIDEO VALUE 'X'.
   410
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 REVERSE-VIDEO VALUE 'X'.
  411
  412
        05 I.TNF. + 1.
   413
        10 COL 42 BACKGROUND-COLOR 7 FOREGROUND-COLOR 0 REVERSE-VIDEO VALUE 'X'.
   414
        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'.
   416
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 REVERSE-VIDEO VALUE 'X'.
   417
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 REVERSE-VIDEO VALUE 'X'.
   419
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 6 REVERSE-VIDEO VALUE 'X'.
   420
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 REVERSE-VIDEO VALUE 'X'.
   421
        *> #6
   422
        05 LINE 05.
   423
        10 COL 52 BACKGROUND-COLOR O FOREGROUND-COLOR O HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
  424
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
  425
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
  426
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
  427
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
  428
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
  429
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
  430
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
  431
        05 LINE + 1.
   432
        10 COL 52 BACKGROUND-COLOR 1 FOREGROUND-COLOR 0 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
```

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

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ACS Cobol Xref v2.02.02
                                Dictionary File for COLORS
                                                               07/12/2019 16:57:00:19
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 1 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   488
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
   489
   490
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 HIGHLIGHT REVERSE-VIDEO VALUE 'X'.
        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
  514
        10 COL 02 BACKGROUND-COLOR 2 FOREGROUND-COLOR 0 LOWLIGHT BLINK VALUE 'X'.
        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'.
  534
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 LOWLIGHT BLINK VALUE 'X'.
  535
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 LOWLIGHT BLINK VALUE 'X'.
  536
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 LOWLIGHT BLINK VALUE 'X'.
  537
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 LOWLIGHT BLINK VALUE 'X'.
  538
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 LOWLIGHT BLINK VALUE 'X'.
  539
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 LOWLIGHT BLINK VALUE 'X'.
  540
        05 LINE + 1.
```

```
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'.
  544
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 LOWLIGHT BLINK VALUE 'X'.
  545
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 LOWLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 LOWLIGHT BLINK VALUE 'X'.
  546
        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
  566
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 LOWLIGHT BLINK VALUE 'X'.
  567
        *> #8
        05 LINE 17.
   568
        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.
   578
        10 COL 12 BACKGROUND-COLOR 1 FOREGROUND-COLOR O BLINK VALUE 'X'.
        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
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 BLINK VALUE 'X'.
   581
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 BLINK VALUE 'X'.
  583
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 BLINK VALUE 'X'.
  584
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 BLINK VALUE 'X'.
  585
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 BLINK VALUE 'X'.
  586
  587
        10 COL 12 BACKGROUND-COLOR 2 FOREGROUND-COLOR O BLINK VALUE 'X'.
  588
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 BLINK VALUE 'X'.
  589
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 BLINK VALUE 'X'.
  590
  591
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 BLINK VALUE 'X'.
  592
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 5 BLINK VALUE 'X'.
  593
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 BLINK VALUE 'X'.
  594
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 BLINK VALUE 'X'.
```

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ACS Cobol Xref v2.02.02
                                Dictionary File for COLORS
                                                               07/12/2019 16:57:00:19
  595
        05 LINE + 1.
  596
        10 COL 12 BACKGROUND-COLOR 3 FOREGROUND-COLOR O BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 BLINK VALUE 'X'.
  598
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 BLINK VALUE 'X'.
  599
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 BLINK VALUE 'X'.
  600
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 BLINK VALUE 'X'.
  601
  602
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 BLINK VALUE 'X'.
        05 LINE + 1.
        10 COL 12 BACKGROUND-COLOR 4 FOREGROUND-COLOR 0 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 BLINK VALUE 'X'.
   613
        05 LINE + 1.
   614
        10 COL 12 BACKGROUND-COLOR 5 FOREGROUND-COLOR O BLINK VALUE 'X'.
   615
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 BLINK VALUE 'X'.
   616
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 BLINK VALUE 'X'.
  617
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 BLINK VALUE 'X'.
        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
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 BLINK VALUE 'X'.
  621
   622
        05 LINE + 1.
        10 COL 12 BACKGROUND-COLOR 6 FOREGROUND-COLOR O BLINK VALUE 'X'.
  623
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 BLINK VALUE 'X'.
  624
  625
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 BLINK VALUE 'X'.
  626
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 BLINK VALUE 'X'.
  627
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 BLINK VALUE 'X'.
  628
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 BLINK VALUE 'X'.
  629
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 BLINK VALUE 'X'.
  630
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 BLINK VALUE 'X'.
   631
        05 LINE + 1.
   632
        10 COL 12 BACKGROUND-COLOR 7 FOREGROUND-COLOR 0 BLINK VALUE 'X'.
        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'.
   634
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 BLINK VALUE 'X'.
   635
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 BLINK VALUE 'X'.
   637
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 BLINK VALUE 'X'.
   638
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 6 BLINK VALUE 'X'.
  639
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 BLINK VALUE 'X'.
  640
  641
        05 LINE 17.
        10 COL 22 BACKGROUND-COLOR O FOREGROUND-COLOR O HIGHLIGHT BLINK VALUE 'X'.
  642
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 HIGHLIGHT BLINK VALUE 'X'.
  643
        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'.
```

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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 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'.
   653
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 HIGHLIGHT BLINK VALUE 'X'.
   654
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 HIGHLIGHT BLINK VALUE 'X'.
   655
   656
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 HIGHLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 HIGHLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 HIGHLIGHT BLINK VALUE 'X'.
        05 LINE + 1.
        10 COL 22 BACKGROUND-COLOR 2 FOREGROUND-COLOR O HIGHLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 HIGHLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 HIGHLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 HIGHLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 HIGHLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 5 HIGHLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 6 HIGHLIGHT BLINK VALUE 'X'.
   667
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 7 HIGHLIGHT BLINK VALUE 'X'.
   668
   669
        10 COL 22 BACKGROUND-COLOR 3 FOREGROUND-COLOR 0 HIGHLIGHT BLINK VALUE 'X'.
   670
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 1 HIGHLIGHT BLINK VALUE 'X'.
   671
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 2 HIGHLIGHT BLINK VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 3 HIGHLIGHT BLINK VALUE 'X'.
   672
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 4 HIGHLIGHT BLINK VALUE 'X'.
   673
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 5 HIGHLIGHT BLINK VALUE 'X'.
   674
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 HIGHLIGHT BLINK VALUE 'X'.
   675
   676
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 HIGHLIGHT BLINK VALUE 'X'.
   677
        05 LINE + 1.
        10 COL 22 BACKGROUND-COLOR 4 FOREGROUND-COLOR O HIGHLIGHT BLINK VALUE 'X'.
   678
   679
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 1 HIGHLIGHT BLINK VALUE 'X'.
   680
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 2 HIGHLIGHT BLINK VALUE 'X'.
   681
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 3 HIGHLIGHT BLINK VALUE 'X'.
   682
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 4 HIGHLIGHT BLINK VALUE 'X'.
   683
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 HIGHLIGHT BLINK VALUE 'X'.
   684
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 HIGHLIGHT BLINK VALUE 'X'.
   685
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 HIGHLIGHT BLINK VALUE 'X'.
   686
        05 LINE + 1.
        10 COL 22 BACKGROUND-COLOR 5 FOREGROUND-COLOR 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
   697
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 HIGHLIGHT BLINK VALUE 'X'.
   698
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 HIGHLIGHT BLINK VALUE 'X'.
   699
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 HIGHLIGHT BLINK VALUE 'X'.
   700
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 HIGHLIGHT BLINK VALUE 'X'.
   701
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 HIGHLIGHT BLINK VALUE 'X'.
   702
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 HIGHLIGHT BLINK VALUE 'X'.
```

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

```
ACS Cobol Xref v2.02.02
                                Dictionary File for COLORS
                                                               07/12/2019 16:57:00:20
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  758
  759
        05 LINE + 1.
  760
        10 COL 32 BACKGROUND-COLOR 5 FOREGROUND-COLOR 0 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  761
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  762
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  763
  764
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 6 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL 32 BACKGROUND-COLOR 6 FOREGROUND-COLOR O LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   775
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   776
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  777
        05 LINE + 1.
  778
        10 COL 32 BACKGROUND-COLOR 7 FOREGROUND-COLOR 0 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  779
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 1 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 2 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  780
  781
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 3 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 4 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  782
  783
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 5 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 6 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  784
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 LOWLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   785
   786
        *> #11
   787
        05 LINE 17.
   788
        10 COL 42 BACKGROUND-COLOR O FOREGROUND-COLOR O BLINK REVERSE-VIDEO VALUE 'X'.
   789
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 BLINK REVERSE-VIDEO VALUE 'X'.
   790
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 BLINK REVERSE-VIDEO VALUE 'X'.
   791
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 BLINK REVERSE-VIDEO VALUE 'X'.
   792
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 BLINK REVERSE-VIDEO VALUE 'X'.
   793
        10 COL + 1 BACKGROUND-COLOR 0 FOREGROUND-COLOR 5 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 BLINK REVERSE-VIDEO VALUE 'X'.
   795
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 BLINK REVERSE-VIDEO VALUE 'X'.
        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'.
  829
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 BLINK REVERSE-VIDEO VALUE 'X'.
  830
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 BLINK REVERSE-VIDEO VALUE 'X'.
   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
  836
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 BLINK REVERSE-VIDEO VALUE 'X'.
  837
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 BLINK REVERSE-VIDEO VALUE 'X'.
   838
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 6 BLINK REVERSE-VIDEO VALUE 'X'.
  839
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 BLINK REVERSE-VIDEO VALUE 'X'.
  840
  841
        05 LINE + 1.
  842
        10 COL 42 BACKGROUND-COLOR 6 FOREGROUND-COLOR O BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 BLINK REVERSE-VIDEO VALUE 'X'.
  843
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 BLINK REVERSE-VIDEO VALUE 'X'.
  844
  845
        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'.
   849
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 BLINK REVERSE-VIDEO VALUE 'X'.
   850
        05 LINE + 1.
  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'.
  853
        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'.
  858
        10 COL + 1 BACKGROUND-COLOR 7 FOREGROUND-COLOR 7 BLINK REVERSE-VIDEO VALUE 'X'.
  859
        *> #12
  860
        05 LINE 17.
  861
        10 COL 52 BACKGROUND-COLOR O FOREGROUND-COLOR O HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  862
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 1 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  863
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 2 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 3 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  864
```

```
ACS Cobol Xref v2.02.02
                                 Dictionary File for COLORS
                                                               07/12/2019 16:57:00:21
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 4 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 5 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 6 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  868
        10 COL + 1 BACKGROUND-COLOR O FOREGROUND-COLOR 7 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  869
        05 LINE + 1.
  870
        10 COL 52 BACKGROUND-COLOR 1 FOREGROUND-COLOR 0 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 1 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  871
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 2 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 3 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 4 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 5 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 6 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 1 FOREGROUND-COLOR 7 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL 52 BACKGROUND-COLOR 2 FOREGROUND-COLOR 0 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 1 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 2 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 3 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   883
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 4 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   884
        10 COL + 1 BACKGROUND-COLOR 2 FOREGROUND-COLOR 5 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        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
   894
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 6 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   895
        10 COL + 1 BACKGROUND-COLOR 3 FOREGROUND-COLOR 7 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   896
        05 LINE + 1.
        10 COL 52 BACKGROUND-COLOR 4 FOREGROUND-COLOR 0 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  297
   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'.
   902
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 5 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 6 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 4 FOREGROUND-COLOR 7 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   905
        05 LINE + 1.
   906
        10 COL 52 BACKGROUND-COLOR 5 FOREGROUND-COLOR 0 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 1 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
   908
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 2 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  909
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 3 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  910
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 4 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  911
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 5 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  912
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 6 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  913
        10 COL + 1 BACKGROUND-COLOR 5 FOREGROUND-COLOR 7 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  914
        05 LINE + 1.
  915
        10 COL 52 BACKGROUND-COLOR 6 FOREGROUND-COLOR O HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 1 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  916
  917
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 2 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  918
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 3 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
```

```
ACS Cobol Xref v2.02.02
                                Dictionary File for COLORS
                                                              07/12/2019 16:57:00:21
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 4 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  920
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 5 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 6 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
        10 COL + 1 BACKGROUND-COLOR 6 FOREGROUND-COLOR 7 HIGHLIGHT BLINK REVERSE-VIDEO VALUE 'X'.
  922
  923
        05 LINE + 1.
        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

Chapter 3 - Colors

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

Symbols of Module. Colons (Colons)

Unreferenced Procedures

None

4. DAY-FROM-DATE

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

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

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

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

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

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

GNU COBOL 2.1 23NOV2013 Source Listing

2014/03/27

C:/Users/tda010/Documents/Programs/Samples/DAY-FROM-DATE.cbl
Line Statement Page: 1

```
_____
          >>SOURCE FORMAT IS FIXED
         IDENTIFICATION DIVISION.
         FUNCTION-ID. DAY-FROM-DATE.
        *>*********************
   4
         *> This GNU COBOL user-defined function converts a Gregorian or **
   5
   6
         *> Julian date into a numeric day of the week. **
   7
         8
         *> Arguments:
   9
                                                             **
   10
         *> Calendar-Date    A PIC 9 data item or numeric literal which **
   11
         *>
                          will be treated as a calendar date as fol- **
   12
         *>
                                                             **
  13
         *>
                          7-digit value: Interpreted as a Julian date **
  14
         *>
                                      in the form yyyyddd
  15
         *>
                          8-digit value: Interpreted as a Gregorian
   16
   17
                                      date in the form yyyymmdd
                                                             **
   19
         *> The result returned will be one of the following:
   20
         *>
         *> 0: The supplied date is invalid
   22
         *> 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
   29
         ENVIRONMENT DIVISION.
         CONFIGURATION SECTION.
   30
         REPOSITORY.
   31
   32
             FUNCTION ALL INTRINSIC.
        DATA DIVISION.
   33
   34
         WORKING-STORAGE SECTION.
      01 WS-Input-Date-DT.
   35
     05 WS-IL
05 WS-ID
05 WS-ID
01 WS-Y-NUM
01 WS-M-NTT
                                     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
   46
       PROCEDURE DIVISION USING L-Input-Date-DT
   47
                       RETURNING L-Output-Day-NUM.
   48
          000-Main SECTION.
            CALL "C$PARAMSIZE" USING 1
```

GCic for OSX Copyright (C) 2009-2014, Gary L. Cutler, GPL

Page: 1

GNU COBOL 2.1 23NOV2013 Source Listing

2014/03/27

C:/Users/tda010/Documents/Programs/Samples/DAY-FROM-DATE.cbl Line Statement Page: 2 _____ EVALUATE RETURN-CODE 50 WHEN 7 51 52 IF TEST-DAY-YYYYDDD(L-Input-Date-DT) > 0 53 MOVE O TO L-Output-Day-NUM GOBACK 54 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 - 274 *> END-IF 75 *> For Gregorian calendar: 76 result = $(day + y + y/4 - y/100 + y/400 + (31*m)/12) \mod 7$ 77 *> (All divisions are integer divisions, discarding any remainder) 78 IF WS-ID-MM-NUM = 1 OR 279 SUBTRACT 1 FROM WS-ID-YYYY-NUM GIVING WS-Y-NUM 80 ADD WS-ID-MM-NUM, 10 GIVING WS-M-NUM ELSE 81 82 MOVE WS-ID-YYYY-NUM TO WS-Y-NUM 83 SUBTRACT 2 FROM WS-ID-MM-NUM GIVING WS-M-NUM 84 END-IF 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)

```
_____
```

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DIVIDE L-Output-Day-NUM BY 7

ADD 1 TO L-Output-Day-NUM

GOBACK

GIVING WS-Temp-NUM

REMAINDER L-Output-Day-NUM

Page: 2

92 93

96

97

GNU COBOL 2.1 23NOV2013 Cross-Reference Listing

2014/03/27

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

Page: 3

 $9~\mathrm{May}~2020$

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

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- 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, produced using this program, begins on the next page.

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GNUCOBOL 3.0 24DEC2017 Source Listing

Line	Statement	, 1010, 11100, 001010, 00101 10010, 0010,	Page: 1
1	>>SOURCE F	ORMAT IS FIXED	
2	*> CONFIGU	RATION SETTINGS: Set these switches before compiling:	
3			
4	*> LINEDRA	W Set to:	
5	*> 0	To use spaces (no lines)	
6	*> 1	To use the line-drawing characterset (PC codepage 437)	
7		To use conventional ASCII characters (+, -,)	
8			
9	*>	OSX USERS - To use the linedrawing characterset,	
10	*>	set your 'terminal' font to 'Lucida Console'	
11	*>	·	
12	*> OS	Set to one of the following:	
13	*>	'CYGWIN' For a Windows/Cygwin version	
14	*>	'MINGW' For a Windows/MinGW version	
15	*>	'OSX' For a Macintosh OSX version	
16	*>	'UNIX' For a Unix/Linux version	
17	*>	'WINDOWS' For a Native Windows version	
18	*>		
19	*> SELCHAR	Set to the desired single character to be used as the red	
20	*>	'feature selected' character on the screen.	
21	*>	SUGGESTIONS: '>', '*', '=', '+'	
22	*>		
23	*> LPP	Set to maximum printable lines per page when the listing	
24	*>	should be generated for LANDSCAPE orientation (can be over-	
25	*>	ridden at execution time using the GCXREF_LINES environment	
26	*>	variable.	
27	*>		
28	*> LPPP	Set to maximum printable lines per page when the listing	
29	*>	should be generated for PORTRAIT orientation (can be over-	
30	*>	ridden at execution time using the GCXREF_LINES_PORT	
31		environment variable.	
32			
33		*****************	
34		ge the settings in the copy book const-set-1.cpy to reflect	
35	•	system set up. This notes are also present there.	
36		s is to reduce the need to amend these every time a update	
37		GCic occurs.	
38		******************	
39			
40	1 3	st-set-1.cpy".	
41			
42			
43	*> END CON	FIGURATION SETTINGS	

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GNUCOBOL 3.0 24DEC2017 Source Listing

2017/12/24 /home/vince/cobolsrc/Cobol-Tools/ocic/GCic.cbl

ine ====	Statement 	Page:
45	IDENTIFICATION DIVISION.	
46	PROGRAM-ID. GCic.	
47	*>*************************************	** *
48	*> >NOTE< >NOTE< >NOTE< >NOTE< >NOTE< >NOTE<	**
49	*>	**
50	*> If this program is compiled with '-fdebugging-line', you	**
51	*> will need to pipe SYSERR to a text file when executing GCic	**
52	*> (by adding the text '2> filename' to the end of the GCic	**
53	*> command). You may also need to press the ENTER key when	**
54	<pre>*> GCic is finished.</pre>	**
55	*>**************	***
56	*> This program provides a Textual User Interface (TUI) to the	**
57	*> process of compiling and (optionally) executing a GNU COBOL	**
58	*> program.	**
59	*>	**
60	*> This programs execution syntax is as follows:	**
61	*>	**
62	<pre>*> GCic <pre>program-path-and-filename> [<switch>]</switch></pre></pre>	**
63	*>	**
64	*> Once executed, a display screen will be presented showing	**
65	*> the compilation options that will be used. The user will	**
66	*> have the opportunity to change options, specify new ones	**
67	*> and specify any program execution arguments to be used if	**
68	*> you select the 'Execute' option. When you press the Enter	**
69	*> key the program will be compiled.	**
70	*>	**
71	*> The SCREEN SECTION contains an image of the screen.	**
72	*>	**
73	*> The '010-Parse-Args' section in the PROCEDURE DIVISION has	**
74	<pre>*> documentation on switches and their function.</pre>	**
75	*>**************	***
76	*>	**
77	*> AUTHOR: GARY L. CUTLER	**
78	*> Copyright (C) 2009-2017, Gary L. Cutler, GPL	**
79	*>	**
80	*> DATE-WRITTEN: June 14, 2009	**
81	*>	**
82	*>*************************************	***
83	*> DATE CHANGE DESCRIPTION	**
84	*> =====	**
85	*> GC0609 Don't display compiler messages file if compilation	**
86	*> GLC Is successful. Also don't display messages if the	**
87	*> output file is busy (just put a message on the	**
88	*> screen, leave the OC screen up & let the user fix	**
89	*> the problem & resubmit.	**
90	*> GC0709 When 'EXECUTE' is selected, a 'FILE BUSY' error will	**
91	*> CLC still cause the (old) executable to be launched.	**
92	*> Also, the 'EXTRA SWITCHES' field is being ignored.	**
93	*> Changed the title bar to lowlighted reverse video &	**
94	*> the message area to highlighted reverse-video.	**
95	*> GC0809 Add a SPACE in front of command-line args when	**
	*> GLC executing users program. Add a SPACE after the	**

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GNUCOBOL 3.0 24DEC2017 Source Listing

			/home/vince/cobolsrc/Cobol	L-Tools/ocic/GCic.cbl
Line	Statement			Page: 3
97	*>		-ftraceall switch when building cobc command.	**
98	*>	GC0909	Convert to work on Cygwin/Linux as well as MinGW	**
99			Virtualized the key codes for S-F1 thru S-F7 as they	**
100	*>	GLC	differ depending upon whether PDCurses or NCurses is	
101	*>		being used.	**
102	*>	GC0410	Introduced the cross-reference and source listing	**
103	*>	GLC	features. Also fixed a bug in EXTRA switch proces-	**
104	*>		sing where garbage will result if more than the	**
105	*>		EXTRA switch is specified.	**
106	*>	GC1010	Corrected several problems reported by Vince Coen:	**
107	*>	GLC	1) Listing/Xref wouldn't work if '-I' additional	**
108	*>		cobc switch specified.	**
109	*>		2) Programs coded with lowercase reserved words did	**
110	*>		not get parsed properly when generating listing	**
111	*>		and/or xref reports.	**
112	*>		3) Reliance on a TEMP environment variable caused	**
113	*>		non-recoverable errors when generating listing	**
114	*>		and/or xref reports in a session that lacks a	**
115	*>		TEMP variable.	**
116	*>		As a result of this change, GCic no longer runs a	**
117	*>		second 'cobc' when generating listing and/or xref	**
118	*>		reports. A '-save-temps' (without '=dir') specified	**
119	*>		in the EXTRA options field will be ignored. A	**
120	*>		'-save-temps=dir' specified in the EXTRA options	**
121	*>		field will negate both the XREF and SOURCE opts,	**
122	*>		if specified.	**
123	*>	GC0711	Tailored for 29APR2011 version of GNU COBOL 2.0	**
124	*>	GC0712	Replaced all switches with configuration settings;	**
125	*>	GLC	Tailored for 11FEB2012 version of GNU COBOL 2.0;	**
126	*>		Reformatted screen layout to fit a 24x80 screen	**
127	*>		rather than a 25x81 screen and to accommodate shell	**
128	*>		environments having only F1-F12 (like 'terminal' in	**
129	*>		OSX); Fully tested under OSX (required a few altera-	**
130	*>		tions); Expanded both extra-options and runtime-	**
131	*>		arguments areas to TWO lines (152 chars total) each;	**
132	*>		Added support for MF/IBM/BS2000 listing-control	**
133	*>		directives EJECT, SKIP1, SKIP2, SKIP3 (any of these in	**
134	*>		copybooks will be ignored)	**
135			Expand the source code record from 80 chars to 256	**
136	*>	GLC	to facilitate looking for "LINKAGE SECTION" in a	**
137	*>		free-format file.	**
138			Edited to support the change of "OpenCOBOL" to "GNU	**
139		GLC	COBOL"	**
140			Updated for 23NOV2013 version of GNU COBOL 2.1	**
141			Introduce a "Press ENTER to Close" action after run-	
142	*>	GLC	ning the compiled program in the compiler window (F4)	
143			Remove the Blinking in meny screen as uncomfortable	**
144		VBC	Update version printed to 2.2 30JUN2017.	**
145	*>		Move the system constant settings to a copy file	**
146	*>		const-set-1.cpy in case GCic is updated.	**
147			Added SET ENVIRONMENT "COB_EXIT_WAIT" TO "O" to	**
148	*>	1100717	100-Initialization section.	**
149	*>	VCU/1/	Replaced compile param instrinsic=all with	**

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GNUCOBOL 3.0 24DEC2017 Source Listing

2017/12/24 /home/vince/cobolsrc/Cobol-Tools/ocic/GCic.cbl

Line	Statement	Page: 4
150	VDC	**
	*> VBC intrinstics=ALL. Changed mod detail inits for Gary	• •
151	*> from GCL to GLC.	**
152	*> Update version printed to 2.2 20JUL2017.	**
153	*> Should really get this from the compiler if avail?	**
154	*> VC1217 Update compiler version to v3.0 24DEC2017.	**
155	<pre>*> and copyright to 2018 (in 3 places).</pre>	**
156	*>*****************	****
157	*>	
158	ENVIRONMENT DIVISION.	
159	CONFIGURATION SECTION.	
160	REPOSITORY.	
161	FUNCTION ALL INTRINSIC.	
162	INPUT-OUTPUT SECTION.	
163	FILE-CONTROL.	
164	GC1010 SELECT F-Cobc-Output-FILE ASSIGN TO WS-Listing-Filenam	e-TXT
165	ORGANIZATION IS LINE SEQUENT	IAL.
166		
167	SELECT F-Source-Code-FILE ASSIGN TO WS-File-Name-TXT	
168	ORGANIZATION IS LINE SEQUENT	IAL
169	FILE STATUS IS WS-FSM-Status	

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GNUCOBOL 3.0 24DEC2017 Source Listing
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```
Line Statement
_____
           DATA DIVISION.
  172
           FILE SECTION.
         FD F-Cobc-Output-FILE.
O1 F-Cobc-Output-REC
  173
                                                  PIC X(256).
  174
  175
  176
           FD F-Source-Code-FILE.
  177 GC0313 01 F-Source-Code-REC
                                                  PIC X(256).
  178
  179
            WORKING-STORAGE SECTION.
           >>source free
  180
  181
            COPY screenio.
       78 COB-COLOR-BLACK VALUE O.
       78 COB-COLOR-BLUE VALUE 1.
       78 COB-COLOR-GREEN VALUE 2.
       78 COB-COLOR-CYAN VALUE 3.
       78 COB-COLOR-RED VALUE 4.
       78 COB-COLOR-MAGENTA VALUE 5.
       78 COB-COLOR-YELLOW VALUE 6.
       78 COB-COLOR-WHITE VALUE 7.
       78 COB-SCR-OK VALUE O.
       78 COB-SCR-F1 VALUE 1001.
       78 COB-SCR-F2 VALUE 1002.
       78 COB-SCR-F3 VALUE 1003.
       78 COB-SCR-F4 VALUE 1004.
       78 COB-SCR-F5 VALUE 1005.
       78 COB-SCR-F6 VALUE 1006.
       78 COB-SCR-F7 VALUE 1007.
       78 COB-SCR-F8 VALUE 1008.
       78 COB-SCR-F9 VALUE 1009.
       78 COB-SCR-F10 VALUE 1010.
       78 COB-SCR-F11 VALUE 1011.
       78 COB-SCR-F12 VALUE 1012.
       78 COB-SCR-F13 VALUE 1013.
       78 COB-SCR-F14 VALUE 1014.
       78 COB-SCR-F15 VALUE 1015.
       78 COB-SCR-F16 VALUE 1016.
       78 COB-SCR-F17 VALUE 1017.
       78 COB-SCR-F18 VALUE 1018.
       78 COB-SCR-F19 VALUE 1019.
       78 COB-SCR-F20 VALUE 1020.
       78 COB-SCR-F21 VALUE 1021.
       78 COB-SCR-F22 VALUE 1022.
       78 COB-SCR-F23 VALUE 1023.
       78 COB-SCR-F24 VALUE 1024.
       78 COB-SCR-F25 VALUE 1025.
       78 COB-SCR-F26 VALUE 1026.
       78 COB-SCR-F27 VALUE 1027.
       78 COB-SCR-F28 VALUE 1028.
       78 COB-SCR-F29 VALUE 1029.
       78 COB-SCR-F30 VALUE 1030.
       78 COB-SCR-F31 VALUE 1031.
       78 COB-SCR-F32 VALUE 1032.
```

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78 COB-SCR-F33 VALUE 1033. 78 COB-SCR-F34 VALUE 1035. 78 COB-SCR-F35 VALUE 1035. 78 COB-SCR-F36 VALUE 1035. 78 COB-SCR-F36 VALUE 1036. 78 COB-SCR-F37 VALUE 1037. 78 COB-SCR-F38 VALUE 1039. 78 COB-SCR-F38 VALUE 1039. 78 COB-SCR-F39 VALUE 1039. 78 COB-SCR-F40 VALUE 1040. 78 COB-SCR-F41 VALUE 1041. 78 COB-SCR-F44 VALUE 1042. 78 COB-SCR-F44 VALUE 1042. 78 COB-SCR-F45 VALUE 1042. 78 COB-SCR-F45 VALUE 1044. 78 COB-SCR-F45 VALUE 1046. 78 COB-SCR-F46 VALUE 1046. 78 COB-SCR-F47 VALUE 1046. 78 COB-SCR-F47 VALUE 1046. 78 COB-SCR-F47 VALUE 1048. 78 COB-SCR-F47 VALUE 1048. 78 COB-SCR-F47 VALUE 1048. 78 COB-SCR-F47 VALUE 1059. 78 COB-SCR-F48 VALUE 1050. 78 COB-SCR-F58 VALUE 1050. 78 COB-SCR-F58 VALUE 1055. 78 COB-SCR-F58 VALUE 1055. 78 COB-SCR-F58 VALUE 1055. 78 COB-SCR-F58 VALUE 1055. 78 COB-SCR-F58 VALUE 1056. 78 COB-SCR-F58 VALUE 1056. 78 COB-SCR-F58 VALUE 1056. 78 COB-SCR-F58 VALUE 1056. 78 COB-SCR-F58 VALUE 1057. 78 COB-SCR-F58 VALUE 1058. 79 COB-SCR-F58 VALUE 1059. 78 COB-SCR-F58 VALUE 1051. 78 COB-SCR-F64 VALUE 1051. 78 COB-SCR-F64 VALUE 1051. 78 COB-SCR-F64 VALUE 1059. 78 COB-SCR-F68 VALUE 1059. 78 COB-SCR-F68 VALUE 1059. 78 COB-SCR-F68 VALUE 1059. 78 COB-SCR-F69 VALUE 2001. 78 COB-SCR-F69 VALUE 2001. 78 COB-SCR-F69 VALUE 2001. 78 COB-SCR-F69 VALUE 2003. 78 COB-SCR-F69 VALUE 2003. 78 COB-SCR-F69 VALUE 2003. 78 COB-SCR-F69 VALUE 2006. 78 COB-SCR-F50 VALUE 2006. 78 COB-SCR-F50 VALUE 2006. 78 COB-SCR-F50 VALUE 2006. 78 COB-SCR-F50 VALUE 2006. 78 COB-SCR-F61 VALUE 2007. 78 COB-SCR-F61 VALUE 2006. 78 COB-SCR-F61 VALUE 2007. 78 COB-SCR-F61 VALUE 2006. 78 COB-SCR-F106 VALUE 2006. 78 COB-SCR-F106 VALUE 2006. 78 COB-SCR-F106 VALUE 2007. 78 COB-SCR-F106 VALUE 2006. 78 COB-SCR-F106 VALUE 2007. 78 COB-SCR-F106	Line	Statement	ge: 6
78 COB-SCR-F34 VALUE 1035. 78 COB-SCR-F35 VALUE 1035. 78 COB-SCR-F35 VALUE 1037. 78 COB-SCR-F35 VALUE 1037. 78 COB-SCR-F38 VALUE 1038. 78 COB-SCR-F38 VALUE 1038. 78 COB-SCR-F37 VALUE 1040. 78 COB-SCR-F44 VALUE 1041. 78 COB-SCR-F44 VALUE 1041. 78 COB-SCR-F44 VALUE 1042. 78 COB-SCR-F45 VALUE 1042. 78 COB-SCR-F45 VALUE 1042. 78 COB-SCR-F45 VALUE 1044. 78 COB-SCR-F45 VALUE 1046. 78 COB-SCR-F46 VALUE 1046. 78 COB-SCR-F47 VALUE 1047. 78 COB-SCR-F47 VALUE 1047. 78 COB-SCR-F48 VALUE 1048. 78 COB-SCR-F48 VALUE 1049. 78 COB-SCR-F48 VALUE 1059. 78 COB-SCR-F50 VALUE 1051. 78 COB-SCR-F50 VALUE 1051. 78 COB-SCR-F50 VALUE 1051. 78 COB-SCR-F50 VALUE 1053. 78 COB-SCR-F50 VALUE 1053. 78 COB-SCR-F50 VALUE 1053. 78 COB-SCR-F50 VALUE 1055. 78 COB-SCR-F50 VALUE 1056. 78 COB-SCR-F50 VALUE 1056. 78 COB-SCR-F50 VALUE 1056. 78 COB-SCR-F50 VALUE 1058. 78 COB-SCR-F50 VALUE 1059. 78 COB-SCR-F50 VALUE 1059. 78 COB-SCR-F50 VALUE 1050. 78 COB-SCR-F60 VALUE 1061. 78 COB-SCR-F60 VALUE 1062. 79 COB-SCR-F60 VALUE 1062. 70 COB-SCR-F60 VALUE 1063. 70 COB-SCR-F60 VALUE 1063. 70 COB-SCR-F60 VALUE 1063. 70 COB-SCR-F60 VALUE 2001. 70 COB-SCR-F60 VALUE 2003. 70 COB-SCR-F60 VALUE 2004. 70 COB-SCR-F60 VALUE 2005. 71 COB-SCR-F60 VALUE 2006. 72 COB-SCR-F60 VALUE 2006. 73 COB-SCR-F60 VALUE 2006. 74 COB-SCR-F60 VALUE 2006. 75 COB-SCR-F60 VALUE 2006. 76 COB-SCR-F80 VALUE 2006. 77 COB-SCR-F80 VALUE 2006. 78 COB-SCR-F80 VALUE 2008. 78 COB-SCR-F80 VALUE 2006. 78 COB-SCR-F80 VALUE	=====		=====
78 CDB-SCR-F35 VALUE 1035. 78 CDB-SCR-F37 VALUE 1036. 78 CDB-SCR-F37 VALUE 1037. 78 CDB-SCR-F38 VALUE 1039. 78 CDB-SCR-F39 VALUE 1039. 78 CDB-SCR-F40 VALUE 1040. 78 CDB-SCR-F41 VALUE 1041. 78 CDB-SCR-F42 VALUE 1042. 78 CDB-SCR-F42 VALUE 1042. 78 CDB-SCR-F42 VALUE 1043. 78 CDB-SCR-F43 VALUE 1043. 78 CDB-SCR-F44 VALUE 1045. 79 CDB-SCR-F44 VALUE 1046. 79 CDB-SCR-F44 VALUE 1046. 79 CDB-SCR-F49 VALUE 1047. 70 CDB-SCR-F49 VALUE 1047. 70 CDB-SCR-F49 VALUE 1050. 70 CDB-SCR-F49 VALUE 1050. 70 CDB-SCR-F51 VALUE 1050. 70 CDB-SCR-F52 VALUE 1052. 70 CDB-SCR-F55 VALUE 1052. 70 CDB-SCR-F55 VALUE 1055. 70 CDB-SCR-F56 VALUE 1055. 70 CDB-SCR-F58 VALUE 1059. 70 CDB-SCR-F58 VALUE 1059. 70 CDB-SCR-F58 VALUE 1059. 70 CDB-SCR-F58 VALUE 1061. 70 CDB-SCR-F68 VALUE 1062. 71 CDB-SCR-F68 VALUE 1063. 72 CDB-SCR-F68 VALUE 1063. 73 CDB-SCR-F68 VALUE 1063. 74 CDB-SCR-F69 VALUE 1064. 75 CDB-SCR-F69 VALUE 1063. 76 CDB-SCR-F69 VALUE 1064. 77 CDB-SCR-F69 VALUE 1064. 78 CDB-SCR-F69 VALUE 1064. 78 CDB-SCR-F69 VALUE 1064. 79 CDB-SCR-F69 VALUE 1064. 70 CDB-SCR-F69 VALUE 1064. 70 CDB-SCR-F69 VALUE 1064. 71 CDB-SCR-F69 VALUE 1064. 72 CDB-SCR-F69 VALUE 1064. 73 CDB-SCR-F69 VALUE 1064. 74 CDB-SCR-F69 VALUE 1064. 75 CDB-SCR-F69 VALUE 1064. 76 CDB-SCR-F69 VALUE 1064. 77 CDB-SCR-F69 VALUE 2004. 78 CDB-SCR-F69 VALUE 2005. 78 CDB-SCR-F69 VALUE 2006. 79 CDB-SCR-F69 VALUE 2006. 70 CDB-SCR-F69 VALUE 2006. 70 CDB-SCR-F69 VALUE 2006. 71 CDB-SCR-F69 VALUE 2006. 72 CDB-SCR-F69 VALUE 2006. 73 CDB-SCR-F69 VALUE 2006. 74 CDB-SCR-F69 VALUE 2006. 75 CDB-SCR-F69 VALUE 2006. 76 CDB-SCR-F69 VALUE 2006. 77 CDB-SCR-F69 VALUE 2006. 78 CDB-SCR-F69 VALUE		78 COB-SCR-F33 VALUE 1033.	
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78 CDB-SCR-F38 VALUE 1039. 78 CDB-SCR-F40 VALUE 1040. 78 CDB-SCR-F40 VALUE 1041. 78 CDB-SCR-F41 VALUE 1041. 78 CDB-SCR-F42 VALUE 1042. 78 CDB-SCR-F43 VALUE 1042. 78 CDB-SCR-F43 VALUE 1044. 78 CDB-SCR-F44 VALUE 1044. 78 CDB-SCR-F46 VALUE 1046. 78 CDB-SCR-F46 VALUE 1046. 78 CDB-SCR-F47 VALUE 1047. 78 CDB-SCR-F47 VALUE 1047. 78 CDB-SCR-F48 VALUE 1049. 78 CDB-SCR-F48 VALUE 1050. 78 CDB-SCR-F50 VALUE 1051. 78 CDB-SCR-F50 VALUE 1051. 78 CDB-SCR-F50 VALUE 1052. 78 CDB-SCR-F50 VALUE 1053. 78 CDB-SCR-F57 VALUE 1053. 78 CDB-SCR-F58 VALUE 1054. 79 CDB-SCR-F58 VALUE 1056. 70 CDB-SCR-F58 VALUE 1056. 70 CDB-SCR-F58 VALUE 1056. 71 CDB-SCR-F58 VALUE 1058. 72 CDB-SCR-F58 VALUE 1058. 73 CDB-SCR-F58 VALUE 1058. 74 CDB-SCR-F58 VALUE 1058. 75 CDB-SCR-F58 VALUE 1058. 76 CDB-SCR-F58 VALUE 1058. 77 CDB-SCR-F58 VALUE 1059. 78 CDB-SCR-F58 VALUE 1059. 78 CDB-SCR-F58 VALUE 1061. 79 CDB-SCR-F69 VALUE 1062. 70 CDB-SCR-F69 VALUE 1062. 70 CDB-SCR-F69 VALUE 1063. 71 CDB-SCR-F69 VALUE 1063. 72 CDB-SCR-F69 VALUE 1063. 73 CDB-SCR-F69 VALUE 1063. 74 CDB-SCR-F69 VALUE 1064. 75 CDB-SCR-F69 VALUE 1064. 76 CDB-SCR-F69 VALUE 1066. 77 CDB-SCR-F69 VALUE 1066. 78 CDB-SCR-F69 VALUE 2001. 78 CDB-SCR-F69 VALUE 2004. 78 CDB-SCR-F69 VALUE 2005. 78 CDB-SCR-F69 VALUE 2006. 78 CDB-SCR-F69 VALUE 2006. 78 CDB-SCR-F69 VALUE 2006. 78 CDB-SCR-F69 VALUE 2007. 78 CDB-SCR-F69 VALUE 2006. 78 CDB-SCR-F69 VALUE 2007. 78 CDB-SCR-F69 VALUE 2007. 78 CDB-SCR-F69 VALUE 2009. 78 CDB-SCR-F69 VALUE 2001. 78 CDB-SCR-F69 VALUE 2001. 78 CDB-SCR-F69 VALUE 2009. 78 CDB-SCR-F69 VALUE 2001. 78 CDB-SCR-F69 VALUE 2001. 78 CDB-SCR-F69 VALUE 2001. 78 CDB-SCR-F69 VALUE 2001. 78 CDB-SCR-F69 VALUE 2005. 78 CDB-SCR-F69 VALUE 2006.		78 COB-SCR-F36 VALUE 1036.	
78 CDB-SCR-F39 VALUE 1039. 78 CDB-SCR-F41 VALUE 1040. 78 CDB-SCR-F41 VALUE 1041. 78 CDB-SCR-F42 VALUE 1042. 78 CDB-SCR-F42 VALUE 1043. 78 CDB-SCR-F42 VALUE 1044. 78 CDB-SCR-F45 VALUE 1046. 78 CDB-SCR-F46 VALUE 1046. 78 CDB-SCR-F46 VALUE 1046. 78 CDB-SCR-F47 VALUE 1047. 78 CDB-SCR-F47 VALUE 1047. 78 CDB-SCR-F47 VALUE 1049. 78 CDB-SCR-F49 VALUE 1049. 78 CDB-SCR-F50 VALUE 1050. 78 CDB-SCR-F50 VALUE 1050. 78 CDB-SCR-F51 VALUE 1051. 78 CDB-SCR-F52 VALUE 1051. 78 CDB-SCR-F53 VALUE 1053. 78 CDB-SCR-F53 VALUE 1055. 78 CDB-SCR-F58 VALUE 1055. 78 CDB-SCR-F58 VALUE 1055. 78 CDB-SCR-F58 VALUE 1056. 78 CDB-SCR-F59 VALUE 1057. 78 CDB-SCR-F50 VALUE 1057. 78 CDB-SCR-F50 VALUE 1058. 78 CDB-SCR-F50 VALUE 1058. 78 CDB-SCR-F50 VALUE 1056. 78 CDB-SCR-F50 VALUE 1056. 78 CDB-SCR-F50 VALUE 1056. 78 CDB-SCR-F50 VALUE 1056. 78 CDB-SCR-F50 VALUE 1057. 78 CDB-SCR-F50 VALUE 1059. 78 CDB-SCR-F50 VALUE 1050. 78 CDB-SCR-F50 VALUE 1052. 78 CDB-SCR-F50 VALUE 1054. 78 CDB-SCR-F50 VALUE 1056. 78 CDB-SCR-F50 VALUE 1056. 78 CDB-SCR-F60 VALUE 1061. 78 CDB-SCR-F60 VALUE 1062. 78 CDB-SCR-F60 VALUE 1064. 78 CDB-SCR-F60 VALUE 1064. 78 CDB-SCR-F60 VALUE 1064. 78 CDB-SCR-F60 VALUE 1064. 78 CDB-SCR-F60-DWN VALUE 2001. 78 CDB-SCR-F60-DWN VALUE 2002. 78 CDB-SCR-F60-DWN VALUE 2003. 78 CDB-SCR-KEY-ID VALUE 2003. 78 CDB-SCR-REY-ID VALUE 2004. 78 CDB-SCR-REY-ID VALUE 2006. 78 CDB-SCR-REY-ID VALUE 2006. 78 CDB-SCR-REY-ID VALUE 2006. 78 CDB-SCR-REY-ID VALUE 2009. 78 CDB-SCR-BACK-TAB VALUE 2009. 78 CDB-SCR-BACK-TAB VALUE 2009. 78 CDB-SCR-BACK-TAB VALUE 2001. 78 CDB-SCR-BACK-TAB VALUE 2001. 78 CDB-SCR-REY-RIGHT VALUE 2001. 78 CDB-SCR-REY-RIGHT VALUE 2011.		78 COB-SCR-F37 VALUE 1037.	
78 CDB-SCR-F41 VALUE 1040. 78 CDB-SCR-F42 VALUE 1041. 78 CDB-SCR-F42 VALUE 1042. 78 CDB-SCR-F43 VALUE 1042. 78 CDB-SCR-F44 VALUE 1044. 78 CDB-SCR-F44 VALUE 1044. 78 CDB-SCR-F46 VALUE 1046. 78 CDB-SCR-F47 VALUE 1046. 78 CDB-SCR-F47 VALUE 1047. 78 CDB-SCR-F47 VALUE 1049. 78 CDB-SCR-F48 VALUE 1049. 78 CDB-SCR-F59 VALUE 1050. 78 CDB-SCR-F51 VALUE 1051. 78 CDB-SCR-F52 VALUE 1051. 78 CDB-SCR-F52 VALUE 1052. 78 CDB-SCR-F53 VALUE 1054. 78 CDB-SCR-F54 VALUE 1055. 78 CDB-SCR-F55 VALUE 1055. 78 CDB-SCR-F58 VALUE 1056. 78 CDB-SCR-F58 VALUE 1059. 78 CDB-SCR-F68 VALUE 1059. 78 CDB-SCR-F68 VALUE 1059. 78 CDB-SCR-F68 VALUE 1061. 78 CDB-SCR-F68 VALUE 1061. 78 CDB-SCR-F68 VALUE 1062. 78 CDB-SCR-F64 VALUE 1064. 78 CDB-SCR-F68 VALUE 2003. 78 CDB-SCR-F68 VALUE 2003. 78 CDB-SCR-F68 VALUE 2003. 78 CDB-SCR-F68 VALUE 2004. 78 CDB-SCR-F68 VALUE 2006. 78 CDB-SCR-F68 VALUE 2006. 78 CDB-SCR-F68 VALUE 2006. 78 CDB-SCR-F68 VALUE 2007. 78 CDB-SCR-F68 VALUE 2008. 78 CDB-SCR-F68 VALUE 2009. 78 CDB-SCR-F68 VALUE 2011. 78 CDB-SCR-F68 VALUE 2011. 78 CDB-SCR-F68 VALUE 2011. 78 CDB-SCR-F68 VALUE 2011. 78 CDB-SCR-F68 VALUE 2015.		78 COB-SCR-F38 VALUE 1038.	
78 CDB-SCR-F42 VALUE 1041. 78 CDB-SCR-F42 VALUE 1042. 78 CDB-SCR-F43 VALUE 1043. 78 CDB-SCR-F44 VALUE 1044. 78 CDB-SCR-F45 VALUE 1045. 78 CDB-SCR-F46 VALUE 1046. 78 CDB-SCR-F47 VALUE 1047. 78 CDB-SCR-F48 VALUE 1047. 78 CDB-SCR-F48 VALUE 1049. 78 CDB-SCR-F49 VALUE 1049. 78 CDB-SCR-F49 VALUE 1050. 78 CDB-SCR-F50 VALUE 1050. 78 CDB-SCR-F52 VALUE 1051. 78 CDB-SCR-F57 VALUE 1051. 78 CDB-SCR-F57 VALUE 1053. 78 CDB-SCR-F57 VALUE 1055. 78 CDB-SCR-F58 VALUE 1056. 78 CDB-SCR-F58 VALUE 1057. 78 CDB-SCR-F58 VALUE 1059. 78 CDB-SCR-F58 VALUE 1059. 78 CDB-SCR-F58 VALUE 1059. 78 CDB-SCR-F58 VALUE 1050. 78 CDB-SCR-F68 VALUE 1050. 78 CDB-SCR-F68 VALUE 1050. 78 CDB-SCR-F68 VALUE 1052. 78 CDB-SCR-F68 VALUE 1054. 78 CDB-SCR-F68 VALUE 1054. 78 CDB-SCR-F68 VALUE 1054. 78 CDB-SCR-F68 VALUE 1056. 78 CDB-SCR-F68 VALUE 2001. 78 CDB-SCR-F68 VALUE 2003. 78 CDB-SCR-F87 UP VALUE 2003. 78 CDB-SCR-KEY_DOWN VALUE 2004. 78 CDB-SCR-KEY_DOWN VALUE 2004. 78 CDB-SCR-KEY_DOWN VALUE 2006. 78 CDB-SCR-REY_DOWN VALUE 2006. 78 CDB-SCR-REY_DOWN VALUE 2006. 78 CDB-SCR-BACK-TAB VALUE 2006. 78 CDB-SCR-BACK-TAB VALUE 2006. 78 CDB-SCR-BACK-TAB VALUE 2011. 78 CDB-SCR-BACK-TAB VALUE 2011. 78 CDB-SCR-BACK-TAB VALUE 2011. 78 CDB-SCR-REY-RIGHT VALUE 2015.		78 COB-SCR-F39 VALUE 1039.	
78 CDB-SCR-F42 VALUE 1042. 78 CDB-SCR-F43 VALUE 1043. 78 CDB-SCR-F44 VALUE 1044. 78 CDB-SCR-F45 VALUE 1046. 78 CDB-SCR-F46 VALUE 1046. 78 CDB-SCR-F47 VALUE 1047. 78 CDB-SCR-F47 VALUE 1047. 78 CDB-SCR-F47 VALUE 1049. 78 CDB-SCR-F50 VALUE 1050. 78 CDB-SCR-F50 VALUE 1051. 78 CDB-SCR-F51 VALUE 1051. 78 CDB-SCR-F52 VALUE 1052. 78 CDB-SCR-F54 VALUE 1053. 78 CDB-SCR-F54 VALUE 1054. 78 CDB-SCR-F55 VALUE 1055. 78 CDB-SCR-F56 VALUE 1056. 78 CDB-SCR-F57 VALUE 1057. 78 CDB-SCR-F67 VALUE 1056. 78 CDB-SCR-F67 VALUE 1057. 78 CDB-SCR-F67 VALUE 1057. 78 CDB-SCR-F67 VALUE 1059. 78 CDB-SCR-F69 VALUE 1069. 78 CDB-SCR-F69 VALUE 1069. 78 CDB-SCR-F69 VALUE 1060. 78 CDB-SCR-F69 VALUE 1061. 78 CDB-SCR-F64 VALUE 1063. 78 CDB-SCR-F64 VALUE 1063. 78 CDB-SCR-F64 VALUE 1064. 78 CDB-SCR-F64 VALUE 2001. 78 CDB-SCR-F64 VALUE 2001. 78 CDB-SCR-F64 VALUE 2003. 78 CDB-SCR-F64 VALUE 2003. 78 CDB-SCR-F64 VALUE 2004. 78 CDB-SCR-FACE-UP VALUE 2003. 78 CDB-SCR-KF7-UP VALUE 2003. 78 CDB-SCR-KF7-UP VALUE 2004. 78 CDB-SCR-KF7-UP VALUE 2006. 78 CDB-SCR-KF7-DOWN VALUE 2004. 78 CDB-SCR-KF7-DOWN VALUE 2006. 78 CDB-SCR-KF7-LET VALUE 2006. 78 CDB-SCR-KF7-LET VALUE 2009. 78 CDB-SCR-KF7-LET VALUE 2001. 78 CDB-SCR-KF7-LET VALUE 2001. 78 CDB-SCR-KF7-LET VALUE 2001. 78 CDB-SCR-KF7-LET VALUE 2011. 78 CDB-SCR-KF7-LET VALUE 2015. 78 CDB-SCR-KF7-HINT VALUE 2015. 78 CDB-SCR-KF7-HINT VALUE 2015. 78 CDB-SCR-KF7-HINT VALUE 2015. 78 CDB-SCR-KF7-HINT VALUE 2015. 78 CDB-SCR-KF7-HIND VALUE 2015.		78 COB-SCR-F40 VALUE 1040.	
78 CDB-SCR-F43 VALUE 1043. 78 CDB-SCR-F44 VALUE 1044. 78 CDB-SCR-F45 VALUE 1045. 78 CDB-SCR-F46 VALUE 1046. 78 CDB-SCR-F47 VALUE 1047. 78 CDB-SCR-F48 VALUE 1048. 78 CDB-SCR-F59 VALUE 1049. 78 CDB-SCR-F59 VALUE 1050. 78 CDB-SCR-F59 VALUE 1051. 78 CDB-SCR-F51 VALUE 1051. 78 CDB-SCR-F52 VALUE 1053. 78 CDB-SCR-F53 VALUE 1053. 78 CDB-SCR-F54 VALUE 1053. 78 CDB-SCR-F58 VALUE 1055. 78 CDB-SCR-F59 VALUE 1056. 78 CDB-SCR-F59 VALUE 1056. 78 CDB-SCR-F50 VALUE 1056. 78 CDB-SCR-F50 VALUE 1057. 78 CDB-SCR-F59 VALUE 1058. 78 CDB-SCR-F59 VALUE 1058. 78 CDB-SCR-F59 VALUE 1059. 78 CDB-SCR-F59 VALUE 1060. 78 CDB-SCR-F59 VALUE 1061. 78 CDB-SCR-F59 VALUE 1061. 78 CDB-SCR-F59 VALUE 1062. 78 CDB-SCR-F61 VALUE 1064. 78 CDB-SCR-F62 VALUE 1063. 78 CDB-SCR-F64 VALUE 1064. 78 CDB-SCR-PAGE-UP VALUE 2001. 78 CDB-SCR-PAGE-UP VALUE 2001. 78 CDB-SCR-PAGE-DOWN VALUE 2002. 78 CDB-SCR-PAGE-DOWN VALUE 2002. 78 CDB-SCR-KEY-UP VALUE 2003. 78 CDB-SCR-KEY-UP VALUE 2004. 78 CDB-SCR-KEY-UP VALUE 2004. 78 CDB-SCR-KEY-DOWN VALUE 2004. 78 CDB-SCR-KEY-DOWN VALUE 2004. 78 CDB-SCR-KEY-DOWN VALUE 2006. 78 CDB-SCR-FKY-LEFT VALUE 2006. 78 CDB-SCR-FKY-LEFT VALUE 2006. 78 CDB-SCR-FKY-LEFT VALUE 2001. 78 CDB-SCR-FKY-LEFT VALUE 2001. 78 CDB-SCR-KEY-LEFT VALUE 2006. 78 CDB-SCR-KEY-LEFT VALUE 2001. 78 CDB-SCR-KEY-LEFT VALUE 2011. 78 CDB-SCR-KEY-LEFT VALUE 2011. 78 CDB-SCR-KEY-HOM VALUE 2011. 78 CDB-SCR-KEY-HOM VALUE 2011. 78 CDB-SCR-KEY-HOM VALUE 2015.		78 COB-SCR-F41 VALUE 1041.	
78 CDB-SCR-F44 VALUE 1045. 78 CDB-SCR-F46 VALUE 1046. 78 CDB-SCR-F47 VALUE 1047. 78 CDB-SCR-F48 VALUE 1048. 78 CDB-SCR-F49 VALUE 1049. 78 CDB-SCR-F49 VALUE 1049. 78 CDB-SCR-F49 VALUE 1050. 78 CDB-SCR-F50 VALUE 1051. 78 CDB-SCR-F50 VALUE 1051. 78 CDB-SCR-F52 VALUE 1052. 78 CDB-SCR-F52 VALUE 1053. 78 CDB-SCR-F55 VALUE 1054. 78 CDB-SCR-F55 VALUE 1055. 78 CDB-SCR-F56 VALUE 1055. 78 CDB-SCR-F57 VALUE 1057. 78 CDB-SCR-F58 VALUE 1057. 78 CDB-SCR-F59 VALUE 1057. 78 CDB-SCR-F59 VALUE 1057. 78 CDB-SCR-F59 VALUE 1059. 78 CDB-SCR-F60 VALUE 1060. 78 CDB-SCR-F60 VALUE 1061. 78 CDB-SCR-F61 VALUE 1061. 78 CDB-SCR-F61 VALUE 1062. 78 CDB-SCR-F63 VALUE 1063. 78 CDB-SCR-F64 VALUE 1064. 78 CDB-SCR-F69 VALUE 1064. 78 CDB-SCR-F69 VALUE 1064. 78 CDB-SCR-PAGE-UP VALUE 2001. 78 CDB-SCR-PAGE-DP VALUE 2001. 78 CDB-SCR-PAGE-DW VALUE 2002. 78 CDB-SCR-KEY-UP VALUE 2003. 78 CDB-SCR-KEY-UP VALUE 2003. 78 CDB-SCR-KEY-UP VALUE 2003. 78 CDB-SCR-KEY-DOWN VALUE 2004. 78 CDB-SCR-KEY-DOWN VALUE 2004. 78 CDB-SCR-KEY-DOWN VALUE 2007. 78 CDB-SCR-KEY-DOWN VALUE 2007. 78 CDB-SCR-KEY-LDWN VALUE 2009. 78 CDB-SCR-REY-LDWN VALUE 2009. 78 CDB-SCR-REY-LDWN VALUE 2009. 78 CDB-SCR-REY-LEFT VALUE 2009. 78 CDB-SCR-REY-LEFT VALUE 2011. 78 CDB-SCR-REY-RIGHT VALUE 2011. 78 CDB-SCR-REY-RIGHT VALUE 2011. 78 CDB-SCR-REY-RIGHT VALUE 2011. 78 CDB-SCR-REX-FRIENT VALUE 2011. 78 CDB-SCR-REX-FRIEND VALUE 2015. 78 CDB-SCR-REX-FRIEND VALUE 2015. 78 CDB-SCR-REX-FRIEND VALUE 2015.		78 COB-SCR-F42 VALUE 1042.	
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Line	Stateme	ent ======		, 110m		·			Page: 7
	78 CN	B-SCR-F	ATAL VALUE 9000.						
			AX-FIELD VALUE 9001.						
182	70 001		ce fixed						
	CC0712		-Compilation-Switches	-ТУТ					
	GC0712		-						
	GC0712		WS-CS-Args-TXT VALUE 10 WS-CS-Arg-H1-TXT	SPACES.	DTC	X(76).			
			_			X(76).			
	GC0712		10 WS-CS-Arg-H2-TXT		PIC	A(76).			
	GC0712		WS-CS-Filenames-TXT. 10 VALUE 'BS2000'		DIC	v (0)			
	GC0712					X(9).			
	GC0712		10 VALUE 'COBOL85' 10 VALUE 'COBOL2002'			X(9).			
	GC0712		10 VALUE 'DEFAULT'			X(9).			
	GC0712					X(9).			
	GC0712		10 VALUE 'IBM'			X(9).			
	GC0712		10 VALUE 'MF'			X(9).			
	GC0712		10 VALUE 'MVS'	mvm papaatu		X(9).		mvm	
	GC0712		WS-CS-Filenames-Table						
	GC0712		10 WS-CS-Filename-TX	Ľ		URS 7 I	TMF	is:	
	GC0712				PIC	X(9).			
		>>IF F:				- ()			
	GC0712		•	VALUE 4	PIC	9(1).			
			F12 > 7			- 4.3			
	GC0712		WS-CS-Config-NUM	VALUE 4	PIC	9(1).			
	GC0712								
	GC0712		<u> </u>	VALUE F12	PIC	9(1).			
204	GC0712	>>END-	IF						
205	GC0712	05	WS-CS-Extra-TXT VALUE	E SPACES.					
	GC0712		10 WS-CS-Extra-H1-TX	Γ	PIC	X(76).			
207	GC0712 GC0712		10 WS-CS-Extra-H2-TX	Γ	PIC	X(76).			
208	GC0712	05	WS-CS-Switch-Defaults	s-TXT.					
209	GC0712		10 VALUE F1		PIC	9(1).	*>	WS-CS-DEBUG-CHR	
210	GC0712		10 VALUE F4					WS-CS-EXECUTE-CHR	
211	GC0712		10 VALUE F8		PIC	9(1).	*>	WS-CS-FREE-CHR	
212	GC0712		10 VALUE F3		PIC	9(1).	*>	WS-CS-LIBRARY-CHR	
213	GC0712		10 VALUE F5		PIC	9(1).	*>	WS-CS-LISTING-CHR	
214	GC0712		10 VALUE F6		PIC	9(1).	*>	WS-CS-NOFUNC-CHR	
215	GC0712		10 VALUE F9		PIC	9(1).	*>	WS-CS-NOTRUNC-CHR	
216	GC0712		10 VALUE F2		PIC	9(1).	*>	WS-CS-TRACEALL-CHR	
217	GC0712		10 VALUE F7		PIC	9(1).	*>	WS-CS-WARNALL-CHR	
218	GC0712	05	WS-CS-All-Switches-TX	KT REDEFINES					
219	GC0712			WS-CS-Swit	ch-De:	faults-	TX7	Γ.	
220	GC0712		10 WS-CS-DEBUG-CHR		PIC	X(1).			
221	GC0712		10 WS-CS-EXECUTE-CHR		PIC	X(1).			
222	GC0712		10 WS-CS-FREE-CHR		PIC	X(1).			
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224	GC0712		10 WS-CS-LISTING-CHR		PIC	X(1).			
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	GC0712		10 WS-CS-TRACEALL-CHE	3		X(1).			
	GC0712		10 WS-CS-WARNALL-CHR			X(1).			
229						\ / •			
	GC0909	01 WS	-Cmd-TXT		PTC	X(512)			
231	20000	""			0	(012)	•		
	GC0712	01 WQ.	-Cmd-Args-TXT		ртc	X(256)			
202	300112	OT MD	oma uren ivi		110	1 (200)	•		

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234 235		01	WS-Cmd-End-Quote-CHR			PIC X(1).
236 237		01	WS-Cmd-SUB			USAGE BINARY-LONG.
238 239		01	WS-Cobc-Cmd-TXT			PIC X(256).
240 241		01	WS-Config-Fn-TXT			PIC X(12).
242	GC1113	01	WS-Delete-Fn-TXT			PIC X(256).
243		01	UC Cila Nama TVT			
244		UI	WS-File-Name-TXT.			OCCUDE OF TIMES
245			05 WS-FN-CHR			OCCURS 256 TIMES PIC X(1).
246						PIC X(1).
247		01	UC-File-Ctatus-Mosses	_ TVT		
248 249		UI	WS-File-Status-Messag 05 VALUE 'Status Code			DTC V(12)
250			05 WS-FSM-Status-CD	•		PIC X(13). PIC 9(2).
250				,		PIC X(11).
251			05 VALUE ', Meaning: 05 WS-FSM-Msg-TXT			PIC X(11).
252			US WS-PSH-MSF-IXI			FIG X(25).
		Λ1	WS-Horizontal-Line-TX	т		PIC X(80).
	GC0909	OI	wb norizontar tine ix	1		110 X(00).
256		01	WS-I-SUB			USAGE BINARY-LONG.
257 258		01	WS-J-SUB			USAGE BINARY-LONG.
259						
		01	WS-Listing-CD VALUE F	5		PIC 9(1).
261						
262 263		01	WS-Listing-Filename-T	XT		PIC X(256).
264 265		01	WS-Listing-TXT VALUE	SPACES		PIC X(27).
266 267		01	WS-OC-Compile-DT			PIC XXXX/XX/XXBXX/XX.
268	GC0712	>>I]	F OS = 'CYGWIN'			
269	GC0712	01	WS-OS-Dir-CHR	VALUE '/'	,	PIC X(1).
270	GC0712	78	WS-OS-Exe-Ext-CONST	VALUE '.e	exe'.	
271	GC0712	78	WS-OS-Lib-Ext-CONST	VALUE '.d	111'.	
272	GC0712	78	WS-OS-Lib-Type-CONST	VALUE 'DI	LL)'.	
273	GC0712	01	WS-OS-Type-CD	VALUE 2		PIC 9(1).
274	GC0712	>>E	LIF OS = 'MINGW'			
275	GC0712	01	WS-OS-Dir-CHR	VALUE '\'	,	PIC X(1).
276	GC0712	78	WS-OS-Exe-Ext-CONST	VALUE '.e	exe'.	
277	GC0712	78	WS-OS-Lib-Ext-CONST	VALUE '.d	111'.	
278	GC0712	78	WS-OS-Lib-Type-CONST	VALUE 'DI	LL)'.	
279	GC0712	01	WS-OS-Type-CD	VALUE 5		PIC 9(1).
280	GC0712	>>E	LIF OS = 'OSX'			
281	GC0712	01	WS-OS-Dir-CHR	VALUE '/'	,	PIC X(1).
282	GC0712	78	WS-OS-Exe-Ext-CONST	VALUE ' '	· .	
283	GC0712	78	WS-OS-Lib-Ext-CONST	VALUE '.c	dylib'.	
284	GC0712	78	WS-OS-Lib-Type-CONST	VALUE 'DY	/LIB)'.	
285	GC0712	01	WS-OS-Type-CD	VALUE 4		PIC 9(1).

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Line	Stateme				//Vince/codoisrc/codoi-loois/ocic/GCic.cd Page:	9
			LIF OS = 'UNIX'			_
287	GC0712	01	WS-OS-Dir-CHR	VALUE '/'	PIC X(1).	
288	GC0712	78	WS-OS-Exe-Ext-CONST			
			WS-OS-Lib-Ext-CONST	VALUE '.so'.		
290	GC0712	78	WS-OS-Lib-Type-CONST	VALUE 'SO)'.		
			WS-OS-Type-CD	VALUE 3	PIC 9(1).	
			LIF OS = 'WINDOWS'			
			WS-OS-Dir-CHR	VALUE '\'	PIC X(1).	
			WS-OS-Exe-Ext-CONST			
			WS-OS-Lib-Ext-CONST	VALUE '.dll'.		
			WS-OS-Lib-Type-CONST			
			WS-OS-Type-CD	VALUE 1	PIC 9(1).	
	GC0712			111202 1	1 20 0 (2).	
	GC0909		88 WS-OS-Windows-BOOL	VALUE 1 5		
	GC0909		88 WS-OS-Cygwin-BOOL			
			88 WS-OS-UNIX-BOOL	VALUE 3, 4.		
	GC0712		88 WS-OS-OSX-BOOL	VALUE 4.		
303	000/12		OC WD OD ODX DOOL	VALUE T.		
304		01	WS-OS-Type-FILLER-TXT			
305		01	05 VALUE 'Windows'	•	PIC X(14).	
306			05 VALUE 'Windows/Cyg	uin,	PIC X(14).	
307			05 VALUE 'UNIX/Linux'		PIC X(14).	
308			O5 VALUE 'OSX'	C11)	PIC X(14).	
309		0.1	05 VALUE 'Windows/Min		PIC X(14).	
310		01	WS-OS-Types-TXT REDEF	INES WS-US-Type-		
311			05 WS-OS-Type-TXT		OCCURS 5 TIMES	
312					PIC X(14).	
313		Λ1	LIC - Output - Mag-TVT		DIC V(OA)	
314		01	WS-Output-Msg-TXT		PIC X(80).	
315		Λ1	UC-Doth-Dolimitom-CUD		PIC X(1).	
316		01	WS-Path-Delimiter-CHR		PIC X(1).	
317		Λ1	UC-Dwog-Eutongion-TVT		DIC V(DEC)	
318		01	WS-Prog-Extension-TXT		PIC X(256).	
319		01	UC Data Faldan TVT		DIG V(OFG)	
320		01	WS-Prog-Folder-TXT		PIC X(256).	
321	000710	01	UC Data Edda Nama TVT			
			WS-Prog-File-Name-TXT	•	DOGUDO OFC TIMEO	
	GC0712		05 WS-PFN-CHR		OCCURS 256 TIMES	
	GC0712				PIC X(1).	
325	000740	0.4	UG D N MYM		DTG W(04)	
	GC0712	01	WS-Pgm-Nm-TXT		PIC X(31).	
327						
328		01	WS-Runtime-Switches-T			
329			05 WS-RS-Compile-OK-C		PIC X(1).	
330			88 WS-RS-Compile-O		VALUE 'Y'.	
	GC0909		88 WS-RS-Compile-O		VALUE 'W'.	
332			88 WS-RS-Compile-F		VALUE 'N'.	
	GC0609		05 WS-RS-Complete-CHR		PIC X(1).	
	GC0609		88 WS-RS-Complete-		VALUE 'Y'.	
	GC0609		88 WS-RS-Not-Compl	ete-BOOL	VALUE 'N'.	
	GC0712		05 WS-RS-Quote-CHR		PIC X(1).	
	GC0712		88 WS-RS-Double-Qu		VALUE 'Y' FALSE 'N'.	
338	GC0809		05 WS-RS-IDENT-DIV-CH	R	PIC X(1).	

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Line	Stateme	nt			Page: 10
	======				
339	GC0809		88 WS-RS-1st-Prog-Complete-BOOL	VALUE 'Y'.	
340	GC0809		88 WS-RS-More-To-1st-Prog-BOOL	VALUE 'N'.	
341		0	5 WS-RS-No-Switch-Chgs-CHR	PIC X(1).	
342			88 WS-RS-No-Switch-Changes-BOOL	VALUE 'Y'.	
343			88 WS-RS-Switch-Changes-BOOL	VALUE 'N'.	
344	GC0709	0	5 WS-RS-Output-File-Busy-CHR	PIC X(1).	
345	GC0709		88 WS-RS-Output-File-Busy-BOOL	VALUE 'Y'.	
346	GC0709		88 WS-RS-Output-File-Avail-BOOL	VALUE 'N'.	
347	GC0809	0	5 WS-RS-Source-Record-Type-CHR	PIC X(1).	
348	GC0809		88 WS-RS-Source-Rec-Linkage-BOOL	VALUE 'L'.	
349	GC0809		88 WS-RS-Source-Rec-Ident-BOOL	VALUE 'I'.	
350	GC0712		88 WS-RS-Source-Rec-Ignored-BOOL	VALUE ''.	
351		0	5 WS-RS-Switch-Error-CHR	PIC X(1).	
352			88 WS-RS-Switch-Is-Bad-BOOL	VALUE 'Y'.	
353			88 WS-RS-Switch-Is-Good-BOOL	VALUE 'N'.	
354					
355		01 W	S-Tally-QTY	USAGE BINARY-LONG.	

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Line Statement

```
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```

2017/12/24 /home/vince/cobolsrc/Cobol-Tools/ocic/GCic.cbl Page: 11

Line	tatement Page: 11
=====	
0.57	CARDON CHARTON
357	SCREEN SECTION.
358	*>
359	*> Here is the layout of the GCic screen.
360	*>
361	*> The sample screen below shows how the screen would look if the LINEDRAW
362	*> configuration setting is set to a value of 2
363	*>
364	*> The following sample screen layout shows how the screen looks with line-drawing
365	*> characters disabled.
366	*>
367	*> 1 2 3 4 5 6 7 8
368	*>12345678901234567890123456789012345678901234567890123456789012345678901 *>====================================
369	
370	01 *> GCic (2017/12/24 08:52) - GNU COBOL V3.0 24DEC2017 Interactive Compilation 02 *>+
371 372	
372 373	03 *> Folder: E:\GNU COBOL\Samples 04 *> Filename: GCic.cbl
373 374	05 *>+
374	06 *> Set/Clr Switches Via F1-F9; Set Config Via F12; ENTER Key Compiles; ESC Quits
376	07 *>+
377	08 *> F1 Assume WITH DEBUGGING MODE F6 "FUNCTION" Is Optional Current
378	09 *> F2 Procedure+Statement Trace F7 Enable All Warnings Config:
379	10 *> F3 Make A Library (DLL) F8 Source Is Free-Format XXXXXXXXX
380	11 *> F4 Execute If Compilation OK F9 No COMP/BINARY Truncation
381	12 *> F5 >Produce Listing (Landscape)
382	13 *>+
383	14 *> Extra "cobc" Switches, If Any ("-save-temps=xxx" Prevents Listings):
384	15 *>+
385	16 *>
386	17 *>
387	18 *>++
388	19 *> Program Execution Arguments, If Any:
389	20 *>++
390	21 *>
391	
392	22 *> 23 *>+
393	24 *> GCic Copyright (C) 2009-2018, Gary L. Cutler, GPL
394	*>=====================================
395	*>12345678901234567890123456789012345678901234567890123456789012345678901
396	*> 1 2 3 4 5 6 7 8
397	*>
398	*> If this program is run on Windows, it must run with codepage 437 activated to
399	*> display the line-drawing characters. With a native Windows build or a
400	*> Windows/MinGW build, one could use the command 'chcp 437' to set that codepage
401	*> for display within a Windows console window (that should be the default though).
402	*> With a Windows/Cygwin build, set the environment variable CYGWIN to a value of
403	*> 'codepage:oem' (this cannot be done from within the program though - you will
404	*> have to use the 'Computer/Advanced System Settings/Environment Variables' (Vista
405	*> or Windows 7) function to define the variable. XP Users: use 'My Computer/
406	<pre>*> Properties/Advanced/Environment Variables'.</pre>
407	*>
408	*> OSX users may use line drawing characters in this and any GNU COBOL program

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Line	Statement	===========							Page: 12
409		imply by setting t							
410	*>								
411	>>I	F LINEDRAW IS EQUA	AL TO O						
412	78	LD-UL-Corner	VA	LUE '	, .				
413	78	LD-LL-Corner	VA	LUE '	, .				
414	78	LD-UR-Corner	VA	LUE ,	, .				
415	78	LD-LR-Corner	VA	LUE ,	, .				
416	78	LD-Upper-T	VA	LUE ,	, .				
417	78	LD-Lower-T	VA	LUE '	, .				
418	78	LD-Horiz-Line	VA	LUE '	, .				
419	78	LD-Vert-Line	VA	LUE '	, .				
420	>>E	LIF LINEDRAW IS EQ	UAL TO 1						
421	78	LD-UL-Corner	VA	LUE X	'DA'.				
422	78	LD-LL-Corner	VA	LUE X	'CO'.				
423	78	LD-UR-Corner	VA	LUE X	BF'.				
424	78	LD-LR-Corner	VA	LUE X	D9'.				
425	78	LD-Upper-T	VA	LUE X	C2'.				
426	78	LD-Lower-T	VA	LUE X	'C1'.				
427	78	LD-Horiz-Line	VA	LUE X	'C4'.				
428	78	LD-Vert-Line	VA	LUE X	B3'.				
429	>>E	LSE							
430	78	LD-UL-Corner	VA	LUE '+	٠,.				
431	78	LD-LL-Corner	VA	LUE '+	·'.				
432	78	LD-UR-Corner	VA	LUE '+	·'.				
433	78	LD-LR-Corner	VA	LUE '+	·'.				
434	78	LD-Upper-T	VA	LUE '+	·'.				
435	78	LD-Lower-T	VA	LUE '+	٠,.				
436	78	LD-Horiz-Line	VA	LUE '-	-'.				
437	78	LD-Vert-Line	VA	LUE '	' .				
438	>>E	ND-IF							
439									
440	01	S-Blank-SCR LINE 1	COLUMN 1 BLA	NK SCF	REEN.				
441									
442	01	S-Switches-SCR BAC	CKGROUND-COLOR	COB-C	COLOR-BLACK				
443		FOF	REGROUND-COLOR	COB-C	COLOR-WHITE	${\tt AUTO}$.			
444	*>								
445	*> G	ENERAL SCREEN FRAM	1EWORK						
446	*>								
447		O3 BACKGROUND-COLO							
448		FOREGROUND-COLO	OR COB-COLOR-G	REEN F	HIGHLIGHT.				
449	GC0712	05 LINE 02 COL	01	VALUE	LD-UL-Corne	er.			
	GC0712		02 PIC X(78)				ne-TX7	Γ.	
451		05 COL	80	VALUE	LD-UR-Corne	er.			
452									
	GC0712	05 LINE 03 COL			LD-Vert-Lin				
454		05 COL	80	VALUE	LD-Vert-Lir	ne.			
455									
	GC0712	05 LINE 04 COL			LD-Vert-Lir				
457		05 COL	80	VALUE	LD-Vert-Lir	ne.			
458									
	GC0712	05 LINE 05 COL			LD-LL-Corne			_	
	GC0712		02 PIC X(78)				ne-TX1	Γ.	
461		05 COL	80	VALUE	LD-LR-Corne	er.			

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									/hor	me/vince/cobolsrc/Cobol-Tools/ocic/GCic.cbl
Line	Statement									Page: 13
=====		===		===	====	-==				
462										
	GC0712	05	LINE	07						LD-UL-Corner.
	GC0712	05					PIC	X(65)		WS-Horizontal-Line-TXT.
	GC0712	05			COL					LD-Upper-T.
	GC0712	05					PIC	X(12)		WS-Horizontal-Line-TXT.
467		05			COL	80			VALUE	LD-UR-Corner.
468										
	GC0712		LINE	80						LD-Vert-Line.
	GC0712	05			COL					LD-Vert-Line.
471		05			COL	80			VALUE	LD-Vert-Line.
472										
	GC0712		LINE	09						LD-Vert-Line.
474	GC0712	05			COL	67			VALUE	LD-Vert-Line.
475		05			COL	80			VALUE	LD-Vert-Line.
476										
477	GC0712	05	LINE	10	COL	01				LD-Vert-Line.
478	GC0712	05			COL				VALUE	LD-Vert-Line.
479		05			COL	80			VALUE	LD-Vert-Line.
480										
481	GC0712	05	LINE	11	COL	01				LD-Vert-Line.
482	GC0712	05			COL	67			VALUE	LD-Vert-Line.
483		05			COL	80			VALUE	LD-Vert-Line.
484										
485	GC0712	05	LINE	12	COL	01			VALUE	LD-Vert-Line.
486	GC0712	05			COL	67			VALUE	LD-Vert-Line.
487		05			COL	80			VALUE	LD-Vert-Line.
488										
489	GC0712	05	LINE	13	COL	01			VALUE	LD-LL-Corner.
490	GC0712	05			COL	02	PIC	X(65)	FROM	WS-Horizontal-Line-TXT.
491	GC0712	05			COL	67			VALUE	LD-Lower-T.
492	GC0712	05			COL	68	PIC	X(12)	FROM	WS-Horizontal-Line-TXT.
493		05			COL	80			VALUE	LD-LR-Corner.
494										
495	GC0712	05	LINE	15						LD-UL-Corner.
496	GC0712	05			COL	02	PIC	X(78)	FROM	WS-Horizontal-Line-TXT.
497		05			COL	80			VALUE	LD-UR-Corner.
498										
499	GC0712	05	LINE	16	COL	01			VALUE	LD-Vert-Line.
500		05			COL	80			VALUE	LD-Vert-Line.
501										
502	GC0712	05	LINE	17	COL	01			VALUE	LD-Vert-Line.
503		05			COL	80			VALUE	LD-Vert-Line.
504										
505	GC0712	05	LINE	18	COL	01			VALUE	LD-LL-Corner.
506	GC0712	05			COL	02	PIC	X(78)	FROM	WS-Horizontal-Line-TXT.
507		05			COL	80			VALUE	LD-LR-Corner.
508										
509	GC0712	05	LINE	20	COL	01			VALUE	LD-UL-Corner.
510	GC0712	05			COL	02	PIC	X(78)	FROM	WS-Horizontal-Line-TXT.
511		05			COL					LD-UR-Corner.
512										
	GC0712	05	LINE	21	COL	01			VALUE	LD-Vert-Line.
514		05			COL	80			VALUE	LD-Vert-Line.

```
_______
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@end smallformat
@page
@smallformat
@verbatim
GNUCOBOL 3.0 24DEC2017 Source Listing
                                                                                  2017/12/24
                                               /home/vince/cobolsrc/Cobol-Tools/ocic/GCic.cbl
Line Statement
_____
  515
                                          VALUE LD-Vert-Line.
VALUE LD-Vert-Line.
  517
                 05 COL 80
  518
                05 LINE 23 COL 01
  519 GC0712
  519 GC0712
                                            VALUE LD-LL-Corner.
                 O5 COL O2 PIC X(78) FROM WS-Horizontal-Line-TXT.
                           COL 80 VALUE LD-LR-Corner.
                 05
  522
           *> TOP AND BOTTOM LINES
  523
   525 GCO712 O3 BACKGROUND-COLOR COB-COLOR-BLUE
               FOREGROUND-COLOR COB-COLOR-WHITE HIGHLIGHT. O5 LINE 01 COL 01 VALUE ' GCic ('.
  526
  527 GC0410
  528 GC0410
                 O5 COL 08 PIC X(16) FROM WS-OC-Compile-DT.
  529 GC1213
                 05
                             COL 24 VALUE ') GNUCOBOL 3.0 24DEC2017 ' &
  530 GC0410
                                         'Interactive Compilation
  531 VCO617 O3 BACKGROUND-COLOR COB-COLOR-RED
  532 GC0712 FOREGROUND-COLOR COB-COLOR-WHITE HIGHLIGHT.
  533 GC0712
                 05 LINE 24 COL 01 PIC X(80) FROM WS-Output-Msg-TXT.
   534 *>
   535
           *> LABELS
   536
  537 O3 BACKGROUND-COLOR COB-COLOR-BLACK
538 FOREGROUND-COLOR COR-COLOR-CYAN
  FOREGROUND-COLOR COB-COLOR-CYAN HIGHLIGHT.
539 GC0712 05 LINE 06 COL 02 VALUE 'Set/Clr Switches Via F1-F9; ' &
  540 GC0712
                                          'Set Config Via F12; Enter Key ' &
  541 GC0712 Compiles, Esc ward.
542 GC0712 O5 LINE 14 COL O2 VALUE 'Extra "cobc" Switches, If Any ' & '("-save-temps=xxx" Prevents ' &
   544 GC0712
                                          'Listings):'.
  545 GC0712 05 LINE 19 COL 02 VALUE 'Program Execution Arguments, ' &
   546 GC0712
                                          'If Any:'.
   547 GCO712 O3 BACKGROUND-COLOR COB-COLOR-BLACK
  548 GC0712 FOREGROUND-COLOR COB-COLOR-WHITE HIGHLIGHT.
  549 GC0712
550 GC0712
05
COL 45 VALUE 'F12.
551 GC0712
05
COL 50 VALUE 'ENTER'.
COL 70 VALUE 'ESC'.
   549 GC0712
                 O5 LINE O6 COL 23 VALUE 'F1'.
  556
  557
               O3 BACKGROUND-COLOR COB-COLOR-BLACK
  558 FOREGROUND-COLOR COB-COLOR-WHITE HIGHLIGHT.
559 GC0712 05 LINE 03 COL 62 VALUE 'Enter'.
560 GC0712 05 LINE 04 COL 62 VALUE 'Esc'.
```

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```
561
 03 BACKGROUND-COLOR COB-COLOR-BLACK
562
566
```

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```
Line Statement
_____
                                                      05 LINE 04 COL 65 VALUE ': Quit '.
        568 GC0712
       569 *>
       570
                                   *> TOP SECTION PROGRAM INFO
       571
                                  *>
                                              O3 BACKGROUND-COLOR COB-COLOR-BLACK
       572
                                                 FOREGROUND-COLOR COB-COLOR-WHITE HIGHLIGHT.
       573
       574 GC0712
                                                       05 LINE 03 COL 13 PIC X(66) FROM WS-Prog-File-Name-TXT.
       575 GC0712
                                                    05 LINE 04 COL 13 PIC X(66) FROM WS-Prog-Folder-TXT.
       576 *>
                                  *> MIDDLE LEFT SECTION F-KEYS
       577
       578
                                 *>
       579
                                              O3 BACKGROUND-COLOR COB-COLOR-BLACK
                                                FOREGROUND-COLOR COB-COLOR-WHITE HIGHLIGHT.
       580
       581 GC0712
                                                   05 LINE 08 COL 03 VALUE 'F1'.
       581 GCO712 O5 LINE 08 COL 03 VALUE 'F1'.
582 GCO712 O5 LINE 09 COL 03 VALUE 'F2'.
583 GCO712 O5 LINE 10 COL 03 VALUE 'F3'.
584 GCO712 O5 LINE 11 COL 03 VALUE 'F4'.
585 GCO712 O5 LINE 12 COL 03 VALUE 'F5'.
        586
       591 *>
                                  *> MIDDLE LEFT SECTION SWITCHES
        592
        593
       594 O3 BACKGROUND-COLOR COB-COLOR-BLACK
       | FOREGROUND-COLOR COB-COLOR-BLACK | FOREGROUND-COLOR COB-COLOR-BLACK | FOREGROUND-COLOR COB-COLOR-BLACK | FOREGROUND-COLOR COB-COLOR-BLACK | FOREGROUND-COLOR COB-COLOR-BLACK | FOREGROUND-COLOR COB-COLOR-BLACK | FOREGROUND-COLOR COB-COLOR-BLACK | FOREGROUND-COLOR COB-COLOR-BLACK | FOREGROUND-COLOR COB-COLOR-BLACK | FOREGROUND-COLOR COB-COLOR-BLACK | FOREGROUND-COLOR COB-COLOR COB-COL
        601
       602 GC0712 05 LINE 08 COL 38 PIC X(1) FROM WS-CS-NOFUNC-CHR.
603 GC0712 05 LINE 09 COL 38 PIC X(1) FROM WS-CS-WARNALL-CHR.
604 GC0712 05 LINE 10 COL 38 PIC X(1) FROM WS-CS-FREE-CHR.
605 GC0712 05 LINE 11 COL 38 PIC X(1) FROM WS-CS-NOTRUNC-CHR.
        606 *>
        607
                                   *> MIDDLE LEFT SECTION BACKGROUND
        608
        609
                                               O3 BACKGROUND-COLOR COB-COLOR-BLACK
      610 FOREGROUND-COLOR COB-COLOR-GREEN HIGHLIGHT.
611 GC0712 O5 LINE 08 COL 07 VALUE 'Assume WITH DEBUGGING MODE'.
612 GC0712 O5 LINE 09 COL 07 VALUE 'Procedure+Statement Trace '.
613 GC0712 O5 LINE 10 COL 07 VALUE 'Make a Library ('.
614 GC0712 O5 COL 23 VALUE WS-OS-Lib-Type-CONST.
615 GC0712 O5 LINE 11 COL 07 VALUE 'Execute If Compilation OK '.
616 GC1213 O5 LINE 12 COL 07 FROM WS-Listing-TXT.
       617
```

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2017/12/24 /home/vince/cobolsrc/Cobol-Tools/ocic/GCic.cbl

Line	Statement	Page: 16
621	GC0712 O5 LINE 11 COL 39 VALUE 'No COMP/BINARY Truncation '.	
622	*>	
623	*> MIDDLE RIGHT SECTION Text	
624	*>	
625	O3 BACKGROUND-COLOR COB-COLOR-BLACK	
626	FOREGROUND-COLOR COB-COLOR-GREEN HIGHLIGHT.	
627	GCO712 05 LINE 08 COL 69 VALUE 'Current'.	
628	GCO712 05 LINE 09 COL 69 VALUE 'Config:'.	
629	*>	
630	*> MIDDLE RIGHT SECTION CONFIG FILE	
631	*>	
632	O3 BACKGROUND-COLOR COB-COLOR-BLACK	
633	FOREGROUND-COLOR COB-COLOR-WHITE HIGHLIGHT.	
634	GCO712 05 LINE 10 COL 69 PIC X(10)	
	GCO712 FROM WS-CS-Filename-TXT (WS-CS-Config-NUM).	
636		
	*> FREE-FORM OPTIONS FIELDS	
638		
	O3 BACKGROUND-COLOR COB-COLOR-BLACK	
640		
	GCO712 05 LINE 16 COL 03 PIC X(76) USING WS-CS-Extra-H1-TXT.	
	GCO712 05 LINE 17 COL 03 PIC X(76) USING WS-CS-Extra-H2-TXT.	
	GCO712 05 LINE 21 COL 03 PIC X(76) USING WS-CS-Arg-H1-TXT.	
644	GCO712 05 LINE 22 COL 03 PIC X(76) USING WS-CS-Arg-H2-TXT.	

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```
GNUCOBOL 3.0 24DEC2017 Source Listing
```

2017/12/24 /home/vince/cobolsrc/Cobol-Tools/ocic/GCic.cbl

```
Line Statement
                                                                                                                                                                                                 Page: 17
_____
                           PROCEDURE DIVISION.
      647
                           *>***********************
                          *> Legend to procedure names:
      648
      649
                          *> 00x-xxx All MAIN driver procedures
      650
                          *> 0xx-xxx All GLOBAL UTILITY procedures
      651
                          *> 1xx-xxx All INITIALIZATION procedures
      652
                         *> 2xx-xxx All CORE PROCESSING procedures
      653
                        *> 9xx-xxx All TERMINATION procedures
                        DECLARATIVES.
                          000-File-Error SECTION.
                            USE AFTER STANDARD ERROR PROCEDURE ON F-Source-Code-FILE.
                                     COPY FileStat-Msgs
      660
                                       REPLACING STATUS BY WS-FSM-Status-CD
      661
                                                              MSG BY WS-FSM-Msg-TXT.
                 EVALUATE WS-FSM-Status-CD
WHEN 00 MOVE 'SUCCESS
               WHEN 00 MOVE 'SUCCESS UPLICATE 'TO WS-FSM-Msg-TXT
WHEN 02 MOVE 'SUCCESS DUPLICATE 'TO WS-FSM-Msg-TXT
WHEN 04 MOVE 'SUCCESS INCOMPLETE 'TO WS-FSM-Msg-TXT
WHEN 05 MOVE 'SUCCESS OPTIONAL 'TO WS-FSM-Msg-TXT
WHEN 07 MOVE 'SUCCESS NO UNIT 'TO WS-FSM-Msg-TXT
WHEN 10 MOVE 'END OF FILE 'TO WS-FSM-Msg-TXT
WHEN 14 MOVE 'OUT OF KEY RANGE 'TO WS-FSM-Msg-TXT
WHEN 21 MOVE 'KEY INVALID 'TO WS-FSM-Msg-TXT
WHEN 22 MOVE 'KEY EXISTS 'TO WS-FSM-Msg-TXT
WHEN 23 MOVE 'KEY NOT EXISTS 'TO WS-FSM-Msg-TXT
WHEN 30 MOVE 'PERMANENT ERROR 'TO WS-FSM-Msg-TXT
WHEN 31 MOVE 'INCONSISTENT FILENAME 'TO WS-FSM-Msg-TXT
               WHEN 30 MOVE 'PERMANENT ERROR 'TO WS-FSM-Msg-TXT
WHEN 31 MOVE 'INCONSISTENT FILENAME 'TO WS-FSM-Msg-TXT
WHEN 34 MOVE 'BOUNDARY VIOLATION 'TO WS-FSM-Msg-TXT
WHEN 35 MOVE 'FILE NOT FOUND 'TO WS-FSM-Msg-TXT
WHEN 37 MOVE 'PERMISSION DENIED 'TO WS-FSM-Msg-TXT
WHEN 38 MOVE 'CLOSED WITH LOCK 'TO WS-FSM-Msg-TXT
WHEN 39 MOVE 'CONFLICT ATTRIBUTE 'TO WS-FSM-Msg-TXT
WHEN 41 MOVE 'ALREADY OPEN 'TO WS-FSM-Msg-TXT
WHEN 42 MOVE 'NOT OPEN 'TO WS-FSM-Msg-TXT
WHEN 43 MOVE 'READ NOT DONE 'TO WS-FSM-Msg-TXT
WHEN 44 MOVE 'RECORD OVERFLOW 'TO WS-FSM-Msg-TXT
WHEN 46 MOVE 'READ ERROR 'TO WS-FSM-Msg-TXT
WHEN 47 MOVE 'INPUT DENIED 'TO WS-FSM-Msg-TXT
WHEN 48 MOVE 'OUTPUT DENIED 'TO WS-FSM-Msg-TXT
WHEN 49 MOVE 'I/O DENIED 'TO WS-FSM-Msg-TXT
WHEN 51 MOVE 'RECORD LOCKED 'TO WS-FSM-Msg-TXT
WHEN 52 MOVE 'END-OF-PAGE 'TO WS-FSM-Msg-TXT
WHEN 61 MOVE 'FILE SHARING FAILURE 'TO WS-FSM-Msg-TXT
WHEN 91 MOVE 'FILE NOT AVAILABLE 'TO WS-FSM-Msg-TXT
WHEN 91 MOVE 'FILE NOT AVAILABLE 'TO WS-FSM-Msg-TXT
WAVE CRACES TO US CANADA NOT TYTE
                 END-EVALUATE.
                 MOVE SPACES TO WS-Output-Msg-TXT
IF WS-FSM-Status-CD = 35
DISPLAY
      662
      663
      664
      665
                                                         'File not found: "'
```

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Line	Stateme		, =====, ======, ======================	Page: 18
666		====	TRIM(WS-File-Name-TXT,TRAILING)	=======
667) II)	
668			ELSE	
669			DISPLAY	
670			'Error accessing file: "'	
671			TRIM(WS-File-Name-TXT, TRAILING)	
672) 11)	
673			END-IF	
674			GOBACK	
675				
676		END	DECLARATIVES.	
677				
678		000	-Main SECTION.	
679			PERFORM 100-Initialization	
680	GC0609		SET WS-RS-Not-Complete-BOOL TO TRUE	
681	GC0609		PERFORM UNTIL WS-RS-Complete-BOOL	
682	GC0609		PERFORM 200-Let-User-Set-Switches	
683	GC0609		PERFORM 210-Run-Compiler	
684	GC0410		<pre>IF (WS-RS-Compile-OK-BOOL OR WS-RS-Compile-OK-Warn-BOOL)</pre>	
685	GC0712		AND (WS-CS-LISTING-CHR > SPACE)	
686	GC0712		DISPLAY S-Blank-SCR	
687	GC0410		PERFORM 220-Make-Listing	
688	GC0410		END-IF	
689	GC0709		IF (WS-CS-EXECUTE-CHR NOT = SPACES)	
690	GC0709		AND (WS-RS-Output-File-Avail-BOOL)	
691	GC0609		PERFORM 230-Run-Program	
692	GC0609		END-IF	
693	GC0712		PERFORM 250-Autoload-Listing	
694	GC0609		END-PERFORM	
695			PERFORM 900-Terminate	
696	k	k	Control will NOT return	
697				

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Line	/home/vince/cobolsrc/Cobol-Tools	/ocic/GCic.cbl Page: 19
=====		
699	*>****************	
700		
700	*> reflorm all program-wide initialization operations **	
701	100-Initialization SECTION.	
702	*>************************************	
704 705	*> Make sure full screen-handling is in effect ** *>********************************	
705		
707	SET ENVIRONMENT 'COB_SCREEN_EXCEPTIONS' TO 'Y' SET ENVIRONMENT 'COB_SCREEN_ESC' TO 'Y'	
	VCO617 SET ENVIRONMENT "COB_EXIT_WAIT" TO "O".	
709	*>************************************	
710		
710	*> Get GCic Compilation Date/Time	
711		
713	, , , , , , , , , , , , , , , , , , , ,	
713	• .	
714	AFTER INITIAL SPACE	
716	*>************************************	
717	*> Convert WS-CS-All-Switches-TXT to Needed Alphanumeric Values**	
717	*>************************************	
719	INSPECT WS-CS-All-Switches-TXT	
720	REPLACING ALL '0' BY SPACE	
721	ALL '1' BY SELCHAR	
	GC1213 ALL '2' BY SELCHAR	
723	*>************************************	
724		
725	*>************************************	
	GCO712 ACCEPT WS-Cmd-Args-TXT FROM COMMAND-LINE	
	GC0712 MOVE 1 TO WS-Cmd-SUB	
	GCO712 IF WS-Cmd-Args-TXT(WS-Cmd-SUB:1) = '"' OR "'"	
	GC0712 MOVE WS-Cmd-Args-TXT(WS-Cmd-SUB:1)	
	GC0712 TO WS-Cmd-End-Quote-CHR	
	GCO712 ADD 1 TO WS-Cmd-SUB	
	GCO712 UNSTRING WS-Cmd-Args-TXT	
	GC0712 DELIMITED BY WS-Cmd-End-Quote-CHR	
	GCO712 INTO WS-File-Name-TXT	
735	GCO712 WITH POINTER WS-Cmd-SUB	
736	GC0712 ELSE	
737	GCO712 UNSTRING WS-Cmd-Args-TXT	
738	GC0712 DELIMITED BY ALL SPACES	
	GCO712 INTO WS-File-Name-TXT	
740	GCO712 WITH POINTER WS-Cmd-SUB	
741	GCO712 END-IF	
742	IF WS-File-Name-TXT = SPACES	
743	GC0712 DISPLAY 'No program filename was specified'	
744		
745	* Control will NOT return	
746	END-IF	
747	*>**************	
748	*> Determine if 'Make A Library' feature should be forced 'ON' **	
749	•	
750	PERFORM 240-Find-LINKAGE-SECTION	

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/home/vince/cobolsrc/Cobol-Tools/ocic/GCic.cbl

751 *> Split 'WS-File-Name-TXT' into 'WS-Prog-Folder-TXT' and ** 752 *> Split 'WS-File-Name-TXT' into 'WS-Prog-Folder-TXT' and ** 753 *> 'WS-Prog-File-Name-TXT' ** 754 *>***********************************	Line	Statement	/home/vince/cobolsrc/Cobol	Page: 20

763				
754			-	**
755 GC0909 IF WS-OS-Ogguin-BOOL AND WS-File-Name-TXT (2:1) = ':' 756 GC0712 MOVE '\'TO WS-OS-DIT-CHR 757 GC0909 END-IF 758 GC0712 PERFORM UNTIL WS-I-SUB = 0 759 GC0712 PERFORM UNTIL WS-I-SUB = 0 750 GC0712 PERFORM UNTIL WS-I-SUB = 0 751 SUBTRACT 1 FROM WS-I-SUB = WS-OS-DIT-CHR 752 END-PERFORM 753 IF WS-I-SUB = 0 754 MOVE SPACES TO WS-Prog-Folder-TXT 755 MOVE WS-File-Name-TXT TO WS-Prog-File-Name-TXT 756 ELSE 757 MOVE WS-File-Name-TXT TO WS-Prog-File-Name-TXT 758 UNSTRING WS-File-Name-TXT DELIMITED BY '*' 759 WS-Prog-File-Name-TXT SPACES 750 MOVE '*' TO WS-PROG-FOLDER-TXT 750 WS-Prog-Folder-TXT 750 WS-Prog-Folder-TXT 751 GC0712 MOVE WS-US-DIT-CHR (WS-I-SUB) 752 END-IF 753 IF WS-Prog-Folder-TXT SPACES 754 ACCEPT WS-Prog-Folder-TXT FROM ENVIRONMENT 'CD' 755 GC0909 USING TRIN(WS-Prog-Folder-TXT, TRAILING) 756 END-IF 757 GC0909 IF WS-OS-Ogwin-BOOL AND WS-File-Name-TXT (2:1) = ':' 758 GC0712 MOVE ''' TO WS-OS-DIT-CHR 759 GC0712 MOVE ''' TO WS-OS-DIT-CHR 750 GC0712 MOVE ''' TO WS-OS-DIT-CHR 750 GC0712 MOVE '''' TO WS-OS-DIT-CHR 750 GC0712 PREFORM UNTIL WS-I-SUB 750 GC0712 MOVE LENGTH(WS-I-SUB) = '.' 751 GC0712 MOVE LENGTH(WS-I-SUB) = '.' 752 GC0712 MOVE SPACES TO WS-PROG-Extension-TXT 759 GC0712 MOVE SPACES TO WS-PROG-Extension-TXT 759 GC0712 MOVE SPACES TO WS-PROG-Extension-TXT 759 GC0712 MOVE SPACES TO WS-PROG-Extension-TXT 750 GC0712 MOVE SPACES TO WS-PR			•	
756 GC0712 MUVE ½ TO WS-OS-Dir-CHR 757 GC0909 END-IF 758 GC0712 MOVE LENGTH(WS-File-Name-TXT) TO WS-I-SUB 759 GC0712 MOVE LENGTH(WS-File-Name-TXT) TO WS-I-SUB 759 GC0712 RWS-FN-CHR (WS-I-SUB) = WS-OS-Dir-CHR 750 GC0712 RWS-FN-CHR (WS-I-SUB) = WS-OS-Dir-CHR 751 SUBTRACT 1 FROM WS-I-SUB 752 END-PERFORM 753 IF WS-I-SUB = 0 754 MOVE SPACES TO WS-Prog-Folder-TXT 755 MOVE WS-File-Name-TXT TO WS-Prog-File-Name-TXT 756 MOVE SPACES TO WS-PROG-FILE-NAME-TXT 757 MOVE WS-File-Name-TXT DELINITED BY '*' 758 UNSTRING WS-File-Name-TXT DELINITED BY '*' 759 INTO WS-Prog-Folder-TXT 770 WS-Prog-File-Name-TXT 771 GC0712 MOVE WS-OS-Dir-CHR TO WS-FN-CHR (WS-I-SUB) 772 END-IF 773 IF WS-Prog-Folder-TXT SPACES 774 ACCEPT WS-Prog-Folder-TXT FROM ENVIRONMENT 'CD' 775 GC0909 ELSE 776 GC0909 GLL 'CBL_CHANGE_DIR' 777 GC0909 USING TRIM(WS-Prog-Folder-TXT, TRAILING) 778 END-IF 779 GC0909 IF WS-OS-Cygwin-BOOL AND WS-File-Name-TXT (2:1) = ':' 779 GC0912 MOVE '' TO WS-OS-Dir-CHR 778 WS-Prog-File-Name-TXT' into 'WS-Pgm-Nm-TXT' & ** 779 CC0912 MOVE '' TO WS-OS-Dir-CHR 778 CC0712 MOVE LENGTH(WS-Prog-File-Name-TXT) TO WS-I-SUB 779 GC0712 CONS-PFN-CHR (WS-I-SUB) 779 GC0712 INS-PFN-CHR (WS-I-SUB) = '.' 779 GC0712 MOVE S-PFN-CHR (WS-I-SUB) 779 GC0712 MOVE WS-PFN-CHR (WS-I-SUB) 779 GC0712 MOVE SPACES TO WS-PFN-CHR (WS-I-SUB) 779 GC0712 MOVE WS-PFN-CHR (WS-I-SUB) 779 GC0712 MOVE SPACES TO WS-PFN-CHR (WS-I-SUB) 779 GC0				•
757 GC0909 END-IF 758 GC0712 PERFORM UNTIL WS-File-Name-TXT) TO WS-I-SUB 759 GC0712 PERFORM UNTIL WS-I-SUB = 0 760 GC0712 OR WS-FN-CHR (WS-I-SUB) = WS-OS-Dir-CHR 761 SUBTRACT I FROM WS-I-SUB 762 END-PERFORM 763 IF WS-I-SUB = 0 764 MOVE SPACES TO WS-Prog-Folder-TXT 765 MOVE WS-File-Name-TXT TO WS-Prog-File-Name-TXT 766 ELSE 767 MOVE '*, TO WS-FN-CHR (WS-I-SUB) 768 UNSTRING WS-File-Name-TXT DELIMITED BY '*, 769 INTO WS-Prog-Folder-TXT 770 WS-Prog-Folder-TXT 771 GC0712 MOVE WS-OS-Dir-CHR TO WS-FN-CHR (WS-I-SUB) 772 END-IF 773 IF WS-Prog-Folder-TXT = SPACES 774 ACCEPT WS-Prog-Folder-TXT FROM ENVIRONMENT 'CD' 775 GC0909 ELSE 776 GC0909 IF WS-OS-Cygwin-BOOL AND WS-File-Name-TXT (2:1) = ':' 778 GC0909 IF WS-OS-Cygwin-BOOL AND WS-File-Name-TXT (2:1) = ':' 779 GC0909 IF WS-OS-Cygwin-BOOL AND WS-File-Name-TXT (2:1) = ':' 780 GC0712 MOVE '/' TO WS-OS-Dir-CHR 781 GC0909 END-IF 782 ************************************				
758 GCO712 MOVE LENGTH(WS-File-Name-TXT) TO WS-I-SUB 759 GCO712 OR WS-FN-CHR (WS-I-SUB) = WS-OS-Dir-CHR 761 SUBTRACT 1 FROM WS-I-SUB 762 END-PERFORM 763 IF WS-I-SUB = 0 764 MOVE SPACES TO WS-Prog-Folder-TXT 765 MOVE WS-File-Name-TXT TO WS-Prog-File-Name-TXT 766 ELSE 767 MOVE '*' TO WS-FN-CHR (WS-I-SUB) 768 UNSTRING WS-File-Name-TXT DELIMITED BY '*' 769 INTO WS-Prog-Folder-TXT 770 WS-Prog-File-Name-TXT DELIMITED BY '*' 771 GCO712 MOVE WS-OS-Dir-CHR TO WS-PN-CHR (WS-I-SUB) 772 END-IF 773 IF WS-Prog-Folder-TXT SPACES 774 ACCEPT WS-Prog-Folder-TXT FROM ENVIRONMENT 'CD' 775 GCO909 EASL 776 GCO909 CALL 'CBL_CHANGE_DIR' 777 GCO909 USING TRIM(WS-Prog-Folder-TXT, TRAILING) 778 END-IF 779 GCO909 IF WS-OS-Cygwin-BOOL AND WS-File-Name-TXT (2:1) = ':' 779 GCO909 END-IF 781 GCO909 END-IF 782 *>***********************************				
769 GCO712 PERFORM UNTIL US-I-SUB = 0 760 GCO712 OR WS-FN-CHR (WS-I-SUB) = WS-OS-Dir-CHR 761 SUBTRACT 1 FROM WS-I-SUB 762 END-PERFORM 763 IF WS-I-SUB = 0 764 MOVE SPACES TO WS-Prog-Folder-TXT 765 MOVE WS-FILE-Name-TXT TO WS-Prog-File-Name-TXT 766 ELSE 767 MOVE '* TO WS-FN-CHR (WS-I-SUB) 768 UNSTRINK WS-File-Name-TXT DELIMITED BY '*' 769 INTO WS-Prog-Folder-TXT 770 WS-Prog-Folder-TXT 771 GCO712 MOVE WS-OS-Dir-CHR TO WS-FN-CHR (WS-I-SUB) 772 END-IF 773 IF WS-Prog-Folder-TXT = SPACES 774 ACCEPT WS-Prog-Folder-TXT FROM ENVIRONMENT 'CD' 775 GCO909 ELSE 776 GCO909 CALL 'CBL_CHANGE_DIR' 777 GCO909 IF WS-OS-Cygwin-BOOL AND WS-File-Name-TXT (2:1) = ':' 778 GCO909 END-IF 78 GCO909 END-IF 78 CO909 END-IF 79 GCO909 END-IF 78 CO0909 END-IF 78 CO0909 END-IF 78 CO0909 END-IF 79 GCO712 MOVE 'N' TO WS-OS-DIr-CHR 79 GCO712 MOVE 'N' TO WS-OS-DIR-CHR 79 GCO712 MOVE 'N' TO WS-OS-DIR-CHR 79 GCO712 FROM WS-FN-CHR (WS-I-SUB) 79 GCO712 FROM WS-FN-CHR (WS-I-SUB) 79 GCO712 END-PERFORM 79 GCO712 END-PERFORM WSITL WS-I-SUB 79 GCO712 END-PERFORM 79 GCO712 END-PERFORM 79 GCO712 END-PERFORM 79 GCO712 END-PERFORM 79 GCO712 MOVE SPACES TO WS-PFOg-Extension-TXT 79 GCO712 MOVE SPACES TO WS-PFOg-Extension-TXT 79 GCO712 INTO WS-Pgm-Nm-TXT DELIMITED BY '*' 79 GCO712 INTO WS-Pgm-Nm-TXT DELIMITED BY '*' 79 GCO712 INTO WS-Pgm-Nm-TXT DELIMITED BY '*' 79 GCO712 END-IF 79 GCO712 MOVE '* TO WS-PFN-CHR (WS-I-SUB) 79 GCO712 END-IF 79 GCO712 MOVE SPACES TO WS-PFN-CHR WS-I-SUB 79 GCO712 MOVE SPACES TO WS-PFN-CHR WS-I-SUB 79 GCO712 MOVE SPACES TO WS-PFN-CHR WS-I-SUB 79 GCO712 END-IF 79 GCO712 MOVE SPACES TO WS-PFN-CHR WS-I-SUB 79 GCO712 MOVE SPACES TO WS-PFN-CHR WS-I-SUB 79 GCO712 END-IF 79 GCO712 MOVE SPACES TO WS-PFN-CHR WS-I-SUB) 800 GCO712 END-IF 801 ************************************				
760 GC0712				
761 SUBTRACT 1 FROM WS-I-SUB 762 END-PERFORM 763 IF WS-I-SUB = 0 764 MOVE SPACES TO WS-Prog-Folder-TXT 765 MOVE WS-File-Name-TXT TO WS-Prog-File-Name-TXT 766 ELSE 767 MOVE '*' TO WS-FIL-NAME-TXT DELIMITED BY '*' 768 UNSTRING WS-File-Name-TXT DELIMITED BY '*' 769 INTO WS-Prog-Folder-TXT 770 WS-Prog-Folder-TXT 771 GC0712 MOVE WS-OS-DIR-CRT TO WS-FN-CRT (WS-I-SUB) 772 END-IF 773 IF WS-Prog-Folder-TXT = SPACES 774 ACCEPT WS-Prog-Folder-TXT FROM ENVIRONMENT 'CD' 775 GC0909 ELSE 776 GC0909 GALL 'CBL_CHANGE_DIR' 777 GC0909 USING TRIM(WS-Prog-Folder-TXT, TRAILING) 778 END-IF 779 GC0909 IF WS-OS-Cygwin-BOOL AND WS-File-Name-TXT (2:1) = ':' 770 GC0909 IF WS-OS-Cygwin-BOOL AND WS-File-Name-TXT (2:1) = ':' 771 WS-Prog-Extension-TXT' 772 ***********************************				
762 END-PERFORM 763 IF WS-I-SUB = 0 764 MOVE SPACES TO WS-Prog-Folder-TXT 765 MOVE WS-File-Name-TXT TO WS-Prog-File-Name-TXT 766 ELSE 767 MOVE '*' TO WS-FN-CHR (WS-I-SUB) 768 UNSTRING WS-File-Name-TXT DELIMITED BY '*' 769 INTO WS-Prog-Folder-TXT 770 WS-Prog-Folder-TXT 771 GC0712 MOVE WS-OS-Dir-CHR TO WS-FN-CHR (WS-I-SUB) 772 END-IF 773 IF WS-Prog-Folder-TXT = SPACES 774 ACCEPT WS-Prog-Folder-TXT FROM ENVIRONMENT 'CD' 775 GC0909 ELSE 776 GC0909 CALL 'CEL_CHANGE_DIR' 777 GC0909 USING TRIM(WS-Prog-Folder-TXT, TRAILING) 778 END-IF 779 GC0909 IF WS-OS-Cygwin-BOOL AND WS-File-Name-TXT (2:1) = ':' 780 GC0712 MOVE '/' TO WS-OS-Dir-CHR 781 GC0909 END-IF 782 ************************************		G00712		
The content of the				
MOVE SPACES				
MOVE WS-File-Name-TXT TO WS-Prog-File-Name-TXT				
766 ELSE 767 MOVE '*' TO WS-FN-CHR (WS-I-SUB) 768 UNSTRING WS-File-Name-TXT DELIMITED BY '*' 769 INTO WS-Prog-Folder-TXT 770 WS-Prog-Folder-TXT 771 GC0712 MOVE WS-DS-DIr-CHR TO WS-FN-CHR (WS-I-SUB) 772 END-IF 773 IF WS-Prog-Folder-TXT = SPACES 774 ACCEPT WS-Prog-Folder-TXT FROM ENVIRONMENT 'CD' 775 GC0909 ELSE 776 GC0909 CALL 'CBL_CHANGE_DIR' 777 GC0909 USING TRIM(WS-Prog-Folder-TXT, TRAILING) 778 END-IF 779 GC0909 IF WS-OS-Cygwin-BOOL AND WS-File-Name-TXT (2:1) = ':' 780 GC0712 MOVE '/' TO WS-OS-Dir-CHR 781 GC0909 END-IF 782 ************************************			——————————————————————————————————————	
767 MOVE '*' TO WS-FN-CHR (WS-I-SUB) 768 UNSTRING WS-File-Name-TXT DELIMITED BY '*' 769 INTO WS-Prog-Folder-TXT 770 WS-Prog-Folder-TXT 771 GC0712 MOVE WS-DS-Dir-CHR TO WS-FN-CHR (WS-I-SUB) 772 END-IF 773 IF WS-Prog-Folder-TXT SPACES 774 ACCEPT WS-Prog-Folder-TXT FROM ENVIRONMENT 'CD' 775 GC0909 ELSE 776 GC0909 CALL 'CBL_CHANGE_DIR' 777 GC0909 USING TRIM(WS-Prog-Folder-TXT,TRAILING) 778 END-IF 779 GC0909 IF WS-OS-Cygwin-BOOL AND WS-File-Name-TXT (2:1) = ':' 780 GC0712 MOVE '/' TO WS-OS-Dir-CHR 781 GC0909 END-IF 782 *>***********************************			<u> </u>	
Total				
The content of the				
WS-Prog-File-Name-TXT				
### MOVE WS-OS-Dir-CHR TO WS-FN-CHR (WS-I-SUB) ### MOVE WS-OS-Dir-CHR TO WS-FN-CHR (WS-I-SUB) ### MOVE WS-OS-Dir-CHR TO WS-FN-CHR (WS-I-SUB) ### MOVE WS-Prog-Folder-TXT = SPACES ### ACCEPT WS-Prog-Folder-TXT FROM ENVIRONMENT 'CD' ### ACCEPT WS-Prog-Folder-TXT FROM ENVIRONMENT 'CD' ### COUNTY COUN			<u> </u>	
T72		CC0712		
773		GC0712		
774 ACCEPT WS-Prog-Folder-TXT FROM ENVIRONMENT 'CD' 775 GC0909 ELSE 776 GC0909 CALL 'CBL_CHANGE_DIR' 777 GC0909 USING TRIM(WS-Prog-Folder-TXT,TRAILING) 778 END-IF 779 GC0909 IF WS-OS-Cygwin-BOOL AND WS-File-Name-TXT (2:1) = ':' 780 GC0712 MOVE '/' TO WS-OS-Dir-CHR 781 GC0909 END-IF 782 *>***********************************				
775 GC0909			<u> </u>	
776 GC0909			<u> </u>	
T777 GC0909 USING TRIM(WS-Prog-Folder-TXT,TRAILING) 778 END-IF 779 GC0909 IF WS-OS-Cygwin-BOOL AND WS-File-Name-TXT (2:1) = ':' 780 GC0712 MOVE '/' TO WS-OS-Dir-CHR 781 GC0909 END-IF 782 *>***********************************				
T778 END-IF T779 GC0909 IF WS-OS-Cygwin-BOOL AND WS-File-Name-TXT (2:1) = ':' T80 GC0712 MOVE '/' TO WS-OS-Dir-CHR T81 GC0909 END-IF T82 *>***********************************				
779 GC0909 IF WS-OS-Cygwin-BOOL AND WS-File-Name-TXT (2:1) = ':' 780 GC0712 MOVE '/' TO WS-OS-Dir-CHR 781 GC0909 END-IF 782 *>***********************************		GC0909	S .	
780 GC0712 MOVE '/' TO WS-OS-Dir-CHR 781 GC0909 END-IF 782 *>***********************************		CCOBOB		
781 GC0909 END-IF 782			• • • • • • • • • • • • • • • • • • • •	
782			·	
783 *> Split 'WS-Prog-File-Name-TXT' into 'WS-Pgm-Nm-TXT' & ** 784 *> 'WS-Prog-Extension-TXT' ** 785 *>***********************************				k*
##				

786 GC0712 MOVE LENGTH(WS-Prog-File-Name-TXT) TO WS-I-SUB 787 GC0712 PERFORM UNTIL WS-I-SUB = 0 788 GC0712 OR WS-PFN-CHR (WS-I-SUB) = '.' 789 GC0712 SUBTRACT 1 FROM WS-I-SUB 790 GC0712 END-PERFORM 791 GC0712 IF WS-I-SUB = 0 792 GC0712 MOVE WS-Prog-File-Name-TXT TO WS-Pgm-Nm-TXT 793 GC0712 MOVE SPACES TO WS-Prog-Extension-TXT 794 GC0712 ELSE 795 GC0712 MOVE '*' TO WS-PFN-CHR (WS-I-SUB) 796 GC0712 UNSTRING WS-Prog-File-Name-TXT DELIMITED BY '*' 797 GC0712 INTO WS-Pgm-Nm-TXT 798 GC0712 WS-Prog-Extension-TXT 799 GC0712 MOVE '.' TO WS-PFN-CHR (WS-I-SUB) 800 GC0712 END-IF 801 *>***********************************			•	
787 GC0712 PERFORM UNTIL WS-I-SUB = 0 788 GC0712 OR WS-PFN-CHR (WS-I-SUB) = '.' 789 GC0712 SUBTRACT 1 FROM WS-I-SUB 790 GC0712 END-PERFORM 791 GC0712 IF WS-I-SUB = 0 792 GC0712 MOVE WS-Prog-File-Name-TXT TO WS-Pgm-Nm-TXT 793 GC0712 MOVE SPACES TO WS-Prog-Extension-TXT 794 GC0712 ELSE 795 GC0712 MOVE '*' TO WS-PFN-CHR (WS-I-SUB) 796 GC0712 UNSTRING WS-Prog-File-Name-TXT DELIMITED BY '*' 797 GC0712 INTO WS-Pgm-Nm-TXT 798 GC0712 WS-Prog-Extension-TXT 799 GC0712 MOVE '.' TO WS-PFN-CHR (WS-I-SUB) 800 GC0712 END-IF 801 *>***********************************				
788 GC0712 OR WS-PFN-CHR (WS-I-SUB) = '.' 789 GC0712 SUBTRACT 1 FROM WS-I-SUB 790 GC0712 END-PERFORM 791 GC0712 IF WS-I-SUB = 0 792 GC0712 MOVE WS-Prog-File-Name-TXT TO WS-Pgm-Nm-TXT 793 GC0712 MOVE SPACES TO WS-Prog-Extension-TXT 794 GC0712 ELSE 795 GC0712 MOVE '*' TO WS-PFN-CHR (WS-I-SUB) 796 GC0712 UNSTRING WS-Prog-File-Name-TXT DELIMITED BY '*' 797 GC0712 INTO WS-Pgm-Nm-TXT 798 GC0712 WS-Prog-Extension-TXT 799 GC0712 MOVE '.' TO WS-PFN-CHR (WS-I-SUB) 800 GC0712 END-IF 801 *>***********************************			•	
789 GC0712 SUBTRACT 1 FROM WS-I-SUB 790 GC0712 END-PERFORM 791 GC0712 IF WS-I-SUB = 0 792 GC0712 MOVE WS-Prog-File-Name-TXT TO WS-Pgm-Nm-TXT 793 GC0712 MOVE SPACES TO WS-Prog-Extension-TXT 794 GC0712 ELSE 795 GC0712 MOVE '*' TO WS-PFN-CHR (WS-I-SUB) 796 GC0712 UNSTRING WS-Prog-File-Name-TXT DELIMITED BY '*' 797 GC0712 INTO WS-Pgm-Nm-TXT 798 GC0712 WS-Prog-Extension-TXT 799 GC0712 MOVE '.' TO WS-PFN-CHR (WS-I-SUB) 800 GC0712 END-IF 801 *>***********************************				
790 GC0712 END-PERFORM 791 GC0712 IF WS-I-SUB = 0 792 GC0712 MOVE WS-Prog-File-Name-TXT TO WS-Pgm-Nm-TXT 793 GC0712 MOVE SPACES TO WS-Prog-Extension-TXT 794 GC0712 ELSE 795 GC0712 MOVE '*' TO WS-PFN-CHR (WS-I-SUB) 796 GC0712 UNSTRING WS-Prog-File-Name-TXT DELIMITED BY '*' 797 GC0712 INTO WS-Pgm-Nm-TXT 798 GC0712 WS-Prog-Extension-TXT 799 GC0712 MOVE '.' TO WS-PFN-CHR (WS-I-SUB) 800 GC0712 END-IF 801 *>***********************************				
791 GC0712				
792 GC0712 MOVE WS-Prog-File-Name-TXT TO WS-Pgm-Nm-TXT 793 GC0712 MOVE SPACES TO WS-Prog-Extension-TXT 794 GC0712 ELSE 795 GC0712 MOVE '*' TO WS-PFN-CHR (WS-I-SUB) 796 GC0712 UNSTRING WS-Prog-File-Name-TXT DELIMITED BY '*' 797 GC0712 INTO WS-Pgm-Nm-TXT 798 GC0712 WS-Prog-Extension-TXT 799 GC0712 MOVE '.' TO WS-PFN-CHR (WS-I-SUB) 800 GC0712 END-IF 801 *>***********************************				
793 GC0712 MOVE SPACES TO WS-Prog-Extension-TXT 794 GC0712 ELSE 795 GC0712 MOVE '*' TO WS-PFN-CHR (WS-I-SUB) 796 GC0712 UNSTRING WS-Prog-File-Name-TXT DELIMITED BY '*' 797 GC0712 INTO WS-Pgm-Nm-TXT 798 GC0712 WS-Prog-Extension-TXT 799 GC0712 MOVE '.' TO WS-PFN-CHR (WS-I-SUB) 800 GC0712 END-IF 801 *>***********************************				
794 GC0712 ELSE 795 GC0712 MOVE '*' TO WS-PFN-CHR (WS-I-SUB) 796 GC0712 UNSTRING WS-Prog-File-Name-TXT DELIMITED BY '*' 797 GC0712 INTO WS-Pgm-Nm-TXT 798 GC0712 WS-Prog-Extension-TXT 799 GC0712 MOVE '.' TO WS-PFN-CHR (WS-I-SUB) 800 GC0712 END-IF 801 *>***********************************				
795 GC0712 MOVE '*' TO WS-PFN-CHR (WS-I-SUB) 796 GC0712 UNSTRING WS-Prog-File-Name-TXT DELIMITED BY '*' 797 GC0712 INTO WS-Pgm-Nm-TXT 798 GC0712 WS-Prog-Extension-TXT 799 GC0712 MOVE '.' TO WS-PFN-CHR (WS-I-SUB) 800 GC0712 END-IF 801 *>***********************************				
796 GC0712 UNSTRING WS-Prog-File-Name-TXT DELIMITED BY '*' 797 GC0712 INTO WS-Pgm-Nm-TXT 798 GC0712 WS-Prog-Extension-TXT 799 GC0712 MOVE '.' TO WS-PFN-CHR (WS-I-SUB) 800 GC0712 END-IF 801 *>***********************************				
797 GC0712 INTO WS-Pgm-Nm-TXT 798 GC0712 WS-Prog-Extension-TXT 799 GC0712 MOVE '.' TO WS-PFN-CHR (WS-I-SUB) 800 GC0712 END-IF 801 *>***********************************				
798 GC0712 WS-Prog-Extension-TXT 799 GC0712 MOVE '.' TO WS-PFN-CHR (WS-I-SUB) 800 GC0712 END-IF 801 *>***********************************				
799 GC0712 MOVE '.' TO WS-PFN-CHR (WS-I-SUB) 800 GC0712 END-IF 801 *>***********************************			_	
800 GC0712 END-IF 801 *>***********************************			e e e e e e e e e e e e e e e e e e e	
801 *>***********************************				
** 802 *> Build initial Line 24 Message **				**
			•	**

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Line	Statement	Page: 21
=====	========	
804	GC0909	MOVE ALL LD-Horiz-Line TO WS-Horizontal-Line-TXT.
805	GC0410	MOVE CONCATENATE(' GCic for '
806	GC0410	TRIM(WS-OS-Type-TXT(WS-OS-Type-CD),Trailing)
807	GC1213	' Copyright (C) 2009-2018, Gary L. '
808	GC0410	'Cutler, GPL')
809	GC0410	TO WS-Output-Msg-TXT.
810	GC0909	

GGC for INTX /I in a Grand she (G) 2000 2010 Grand I Gabler GDI

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Show the user the current switch settings and allow them to ** ## *> be changed. ## **
Show the user the current switch settings and allow them to ** ## ** be changed.
##
##
816
817
818
819 GC1213
820 GC1213 WHEN 0 821 GC1213 MOVE 'Listing Off' TO WS-Listing-TXT 822 GC1213 MOVE SPACE TO WS-CS-LISTING-CHR 823 GC1213 WHEN 1 824 GC1213 MOVE SELCHAR TO WS-LISTING-CHR 825 GC1213 WHEN 2 826 GC1213 WHEN 2 827 GC1213 MOVE SELCHAR TO WS-CS-LISTING-CHR 828 GC1213 MOVE SELCHAR TO WS-CS-LISTING-CHR 829 GC1213 MOVE SELCHAR TO WS-CS-LISTING-CHR 829 GC1213 MOVE SELCHAR TO WS-CS-LISTING-CHR 829 GC1213 END-EVALUATE 830 ACCEPT S-Switches-SCR 831 IF COB-CRT-STATUS > 0 832 EVALUATE COB-CRT-STATUS 833 WHEN COB-SCR-F1 834 IF WS-CS-DEBUG-CHR = SPACE 835 GC0712 MOVE SELCHAR TO WS-CS-DEBUG-CHR 836 ELSE 837 MOVE ' ' TO WS-CS-DEBUG-CHR 838 END-IF 839 GC0712 WHEN COB-SCR-F2 840 GC0712 IF WS-CS-TRACEALL-CHR = SPACE
821 GC1213 MOVE 'Listing Off' TO WS-Listing-TXT 822 GC1213 MOVE SPACE TO WS-CS-LISTING-CHR 823 GC1213 WHEN 1 824 GC1213 MOVE 'Listing On (Landscape)' TO WS-Listing-TXT 825 GC1213 MOVE SELCHAR TO WS-CS-LISTING-CHR 826 GC1213 WHEN 2 827 GC1213 MOVE SELCHAR TO WS-Listing-TXT 828 GC1213 MOVE SELCHAR TO WS-CS-LISTING-CHR 829 GC1213 END-EVALUATE 830 ACCEPT S-Switches-SCR 831 IF COB-CRT-STATUS > 0 832 EVALUATE COB-CRT-STATUS 833 WHEN COB-SCR-F1 834 IF WS-CS-DEBUG-CHR = SPACE 835 GC0712 MOVE SELCHAR TO WS-CS-DEBUG-CHR 836 ELSE 837 MOVE ' ' TO WS-CS-DEBUG-CHR 838 END-IF 839 GC0712 WHEN COB-SCR-F2 840 GC0712 WHEN COB-SCR-F2 840 GC0712 IF WS-CS-TRACEALL-CHR = SPACE
822 GC1213 MOVE SPACE TO WS-CS-LISTING-CHR 823 GC1213 WHEN 1 824 GC1213 MOVE 'Listing On (Landscape)' TO WS-Listing-TXT 825 GC1213 MOVE SELCHAR TO WS-CS-LISTING-CHR 826 GC1213 WHEN 2 827 GC1213 MOVE 'Listing On (Portrait)' TO WS-Listing-TXT 828 GC1213 MOVE SELCHAR TO WS-CS-LISTING-CHR 829 GC1213 END-EVALUATE 830 ACCEPT S-Switches-SCR 831 IF COB-CRT-STATUS > 0 832 EVALUATE COB-CRT-STATUS 833 WHEN COB-SCR-F1 834 IF WS-CS-DEBUG-CHR = SPACE 835 GC0712 MOVE SELCHAR TO WS-CS-DEBUG-CHR 836 ELSE 837 MOVE ' ' TO WS-CS-DEBUG-CHR 838 END-IF 839 GC0712 WHEN COB-SCR-F2 840 GC0712 WHEN COB-SCR-F2 840 GC0712 WHEN COB-SCR-F2 840 GC0712 IF WS-CS-TRACEALL-CHR = SPACE
823 GC1213 WHEN 1 824 GC1213 MOVE 'Listing On (Landscape)' TO WS-Listing-TXT 825 GC1213 MOVE SELCHAR TO WS-CS-LISTING-CHR 826 GC1213 WHEN 2 827 GC1213 MOVE 'Listing On (Portrait)' TO WS-Listing-TXT 828 GC1213 MOVE SELCHAR TO WS-CS-LISTING-CHR 829 GC1213 END-EVALUATE 830 ACCEPT S-Switches-SCR 831 IF COB-CRT-STATUS > 0 832 EVALUATE COB-CRT-STATUS 833 WHEN COB-SCR-F1 834 IF WS-CS-DEBUG-CHR = SPACE 835 GC0712 MOVE SELCHAR TO WS-CS-DEBUG-CHR 836 ELSE 837 MOVE ' ' TO WS-CS-DEBUG-CHR 838 END-IF 839 GC0712 WHEN COB-SCR-F2 840 GC0712 IF WS-CS-TRACEALL-CHR = SPACE
824 GC1213
825 GC1213 MOVE SELCHAR TO WS-CS-LISTING-CHR 826 GC1213 WHEN 2 827 GC1213 MOVE 'Listing On (Portrait)' TO WS-Listing-TXT 828 GC1213 MOVE SELCHAR TO WS-CS-LISTING-CHR 829 GC1213 END-EVALUATE 830 ACCEPT S-Switches-SCR 831 IF COB-CRT-STATUS > 0 832 EVALUATE COB-CRT-STATUS 833 WHEN COB-SCR-F1 834 IF WS-CS-DEBUG-CHR = SPACE 835 GC0712 MOVE SELCHAR TO WS-CS-DEBUG-CHR 836 ELSE 837 MOVE ' ' TO WS-CS-DEBUG-CHR 838 END-IF 839 GC0712 WHEN COB-SCR-F2 840 GC0712 IF WS-CS-TRACEALL-CHR = SPACE
826 GC1213 WHEN 2 827 GC1213 MOVE 'Listing On (Portrait)' TO WS-Listing-TXT 828 GC1213 MOVE SELCHAR TO WS-CS-LISTING-CHR 829 GC1213 END-EVALUATE 830 ACCEPT S-Switches-SCR 831 IF COB-CRT-STATUS > 0 832 EVALUATE COB-CRT-STATUS 833 WHEN COB-SCR-F1 834 IF WS-CS-DEBUG-CHR = SPACE 835 GC0712 MOVE SELCHAR TO WS-CS-DEBUG-CHR 836 ELSE 837 MOVE' ' TO WS-CS-DEBUG-CHR 838 END-IF 839 GC0712 WHEN COB-SCR-F2 840 GC0712 IF WS-CS-TRACEALL-CHR = SPACE
827 GC1213 MOVE 'Listing On (Portrait)' TO WS-Listing-TXT 828 GC1213 MOVE SELCHAR TO WS-CS-LISTING-CHR 829 GC1213 END-EVALUATE 830 ACCEPT S-Switches-SCR 831 IF COB-CRT-STATUS > 0 832 EVALUATE COB-CRT-STATUS 833 WHEN COB-SCR-F1 834 IF WS-CS-DEBUG-CHR = SPACE 835 GC0712 MOVE SELCHAR TO WS-CS-DEBUG-CHR 836 ELSE 837 MOVE' ' TO WS-CS-DEBUG-CHR 838 END-IF 839 GC0712 WHEN COB-SCR-F2 840 GC0712 IF WS-CS-TRACEALL-CHR = SPACE
828 GC1213 MOVE SELCHAR TO WS-CS-LISTING-CHR 829 GC1213 END-EVALUATE 830 ACCEPT S-Switches-SCR 831 IF COB-CRT-STATUS > 0 832 EVALUATE COB-CRT-STATUS 833 WHEN COB-SCR-F1 834 IF WS-CS-DEBUG-CHR = SPACE 835 GC0712 MOVE SELCHAR TO WS-CS-DEBUG-CHR 836 ELSE 837 MOVE ' ' TO WS-CS-DEBUG-CHR 838 END-IF 839 GC0712 WHEN COB-SCR-F2 840 GC0712 IF WS-CS-TRACEALL-CHR = SPACE
829 GC1213 END-EVALUATE 830 ACCEPT S-Switches-SCR 831 IF COB-CRT-STATUS > 0 832 EVALUATE COB-CRT-STATUS 833 WHEN COB-SCR-F1 834 IF WS-CS-DEBUG-CHR = SPACE 835 GC0712 MOVE SELCHAR TO WS-CS-DEBUG-CHR 836 ELSE 837 MOVE ' ' TO WS-CS-DEBUG-CHR 838 END-IF 839 GC0712 WHEN COB-SCR-F2 840 GC0712 IF WS-CS-TRACEALL-CHR = SPACE
830 ACCEPT S-Switches-SCR 831 IF COB-CRT-STATUS > 0 832 EVALUATE COB-CRT-STATUS 833 WHEN COB-SCR-F1 834 IF WS-CS-DEBUG-CHR = SPACE 835 GC0712 MOVE SELCHAR TO WS-CS-DEBUG-CHR 836 ELSE 837 MOVE ' ' TO WS-CS-DEBUG-CHR 838 END-IF 839 GC0712 WHEN COB-SCR-F2 840 GC0712 IF WS-CS-TRACEALL-CHR = SPACE
831
832 EVALUATE COB-CRT-STATUS 833 WHEN COB-SCR-F1 834 IF WS-CS-DEBUG-CHR = SPACE 835 GC0712 MOVE SELCHAR TO WS-CS-DEBUG-CHR 836 ELSE 837 MOVE ' ' TO WS-CS-DEBUG-CHR 838 END-IF 839 GC0712 WHEN COB-SCR-F2 840 GC0712 IF WS-CS-TRACEALL-CHR = SPACE
833 WHEN COB-SCR-F1 834 IF WS-CS-DEBUG-CHR = SPACE 835 GC0712 MOVE SELCHAR TO WS-CS-DEBUG-CHR 836 ELSE 837 MOVE ' ' TO WS-CS-DEBUG-CHR 838 END-IF 839 GC0712 WHEN COB-SCR-F2 840 GC0712 IF WS-CS-TRACEALL-CHR = SPACE
834
835 GC0712 MOVE SELCHAR TO WS-CS-DEBUG-CHR 836 ELSE 837 MOVE ', TO WS-CS-DEBUG-CHR 838 END-IF 839 GC0712 WHEN COB-SCR-F2 840 GC0712 IF WS-CS-TRACEALL-CHR = SPACE
836 ELSE 837 MOVE ' ' TO WS-CS-DEBUG-CHR 838 END-IF 839 GC0712 WHEN COB-SCR-F2 840 GC0712 IF WS-CS-TRACEALL-CHR = SPACE
837
838 END-IF 839 GC0712 WHEN COB-SCR-F2 840 GC0712 IF WS-CS-TRACEALL-CHR = SPACE
840 GC0712 IF WS-CS-TRACEALL-CHR = SPACE
840 GC0712 IF WS-CS-TRACEALL-CHR = SPACE
841 GCO712 MOVE SELCHAR TO WS-CS-TRACEALL-CHR
842 GC0712 ELSE
843 GCO712 MOVE ' ' TO WS-CS-TRACEALL-CHR
844 GC0712 END-IF
845 WHEN COB-SCR-F3
846 GCO712 IF WS-CS-LIBRARY-CHR = SPACE
847 GCO712 MOVE SELCHAR TO WS-CS-LIBRARY-CHR
848 ELSE
849 GCO712 MOVE ', TO WS-CS-LIBRARY-CHR
850 END-IF
WHEN COB-SCR-F4
852 IF WS-CS-EXECUTE-CHR = SPACE
853 GC0712 MOVE SELCHAR TO WS-CS-EXECUTE-CHR
854 ELSE
855 MOVE ' ' TO WS-CS-EXECUTE-CHR
856 END-IF
857 GCO712 WHEN COB-SCR-F5
858 GC1213 ADD 1 TO WS-Listing-CD
859 GC1213 IF WS-Listing-CD > 2
860 GC1213 MOVE 0 TO WS-Listing-CD
861 GC1213 END-IF
862 GC0712 WHEN COB-SCR-F6
863 GCO712 IF WS-CS-NOFUNC-CHR = SPACE

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Line	Statement		Page: 23
864	GC0712	MOVE SELCHAR TO WS-CS-NOFUNC-CHR	
865	GC0712	ELSE	
866	GC0712	MOVE ' ' TO WS-CS-NOFUNC-CHR	
867	GC0712	END-IF	
868	GC0712	WHEN COB-SCR-F7	
869	GC0712	IF WS-CS-WARNALL-CHR = SPACE	
870	GC0712	MOVE SELCHAR TO WS-CS-WARNALL-CHR	
871	GC0712	ELSE	
872	GC0712	MOVE ' ' TO WS-CS-WARNALL-CHR	
873	GC0712	END-IF	
874	GC0712	WHEN COB-SCR-F8	
875	GC0712	IF WS-CS-FREE-CHR = SPACE	
876	GC0712	MOVE SELCHAR TO WS-CS-FREE-CHR	
877	GC0712	ELSE	
878	GC0712	MOVE ' ' TO WS-CS-FREE-CHR	
879	GC0712	END-IF	
880	GC0712	WHEN COB-SCR-F9	
881	GC0712	IF WS-CS-NOTRUNC-CHR = SPACE	
882	GC0712	MOVE SELCHAR TO WS-CS-NOTRUNC-CHR	
883	GC0712	ELSE	
884	GC0712	MOVE ' ' TO WS-CS-NOTRUNC-CHR	
885	GC0712	END-IF	
886		WHEN COB-SCR-ESC	
887		PERFORM 900-Terminate	
888	* -	Control will NOT return	
	GC0712	WHEN COB-SCR-F12	
	GC0712	ADD 1 TO WS-CS-Config-NUM	
	GC0712	IF WS-CS-Config-NUM > 7	
	GC0712	MOVE 1 TO WS-CS-Config-NUM	
	GC0712	END-IF	
894		WHEN OTHER	
895		MOVE 'An unsupported key was pressed'	
896		TO WS-Output-Msg-TXT	
897		END-EVALUATE	
898		ELSE	
899		SET WS-RS-No-Switch-Changes-BOOL TO TRUE	
900		END-IF	
901		END-PERFORM	
902			

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/home/vince/cobolsrc/Cobol-Tools/ocic/GCic.cbl

		/home/vince/cobolsrc/Cobol-Tools/ocic/GCic.cbl
Line	Statement	Page: 24
904	*>**	************
905	*> R	un the compiler using the switch settings we've prepared. **
906	*>**	***************
907	210	-Run-Compiler SECTION.
908		MOVE SPACES TO WS-Cmd-TXT
909		t WS-Cobc-Cmd-TXT
910		WS-Output-Msg-TXT
911		DISPLAY S-Switches-SCR
912		MOVE 1 TO WS-I-SUB
913	GC0712	MOVE LOWER-CASE(WS-CS-Filename-TXT (WS-CS-Config-NUM))
914	GC0712	TO WS-Config-Fn-TXT
915	*>**	***********
916	*> B	uild the 'cobc' command **
917	*>**	*************
918	GC0909	MOVE SPACES TO WS-Cobc-Cmd-TXT
919	GC0909	STRING 'cobc -v -std='
920	GC0909	TRIM(WS-Config-Fn-TXT,TRAILING)
921	GC0909	, ,
922	GC0909	INTO WS-Cobc-Cmd-TXT
923	GC0909	WITH POINTER WS-I-SUB
924		IF WS-CS-LIBRARY-CHR NOT = ' '
925		STRING '-m'
926		DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
927		WITH POINTER WS-I-SUB
928		ELSE
929		STRING '-x '
930		DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
931		WITH POINTER WS-I-SUB
932		END-IF
933		IF WS-CS-DEBUG-CHR NOT = ' '
934		STRING '-fdebugging-line '
935		DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
936		WITH POINTER WS-I-SUB
937		END-IF
938		IF WS-CS-NOTRUNC-CHR NOT = ' '
939		STRING '-fnotrunc '
940		DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
941		WITH POINTER WS-I-SUB
942		END-IF
943		IF WS-CS-TRACEALL-CHR NOT = ' '
	GC0809	STRING '-ftraceall '
945		DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
946		WITH POINTER WS-I-SUB
947		END-IF
	GC0712	IF WS-CS-NOFUNC-CHR NOT = ' '
	VC0717	STRING '-fintrinsics=ALL '
	GC0712	DELIMITED SIZE INTO WS-Cobc-Cmd-TXT WITH POINTER WS-I-SUB
	GC0712	
	GC0712	END-IF TE MC_CC_MADMAIL_CUD NOT - ? ?
	GC0712	IF WS-CS-WARNALL-CHR NOT = ' ' STRING '-Wall '
	GC0712 GC0712	
905	G00112	DELIMITED SIZE INTO WS-Cobc-Cmd-TXT

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Line	Statement	/home/vince/cobolsrc/Cobol-Tools/ocic/GCic.cbl Page: 25
		-
956	GC0712	WITH POINTER WS-I-SUB
957	GC0712	END-IF
958	GC0712	IF WS-CS-FREE-CHR NOT = ' '
959	GC0712	STRING '-free '
960	GC0712	DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
961	GC0712	WITH POINTER WS-I-SUB
962	GC0712	ELSE
963	GC0712	STRING '-fixed '
964	GC0712	DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
965	GC0712	WITH POINTER WS-I-SUB
966	GC0712	END-IF
967		
968	GC0712	MOVE O TO WS-Tally-QTY
969	GC0712	INSPECT WS-CS-Extra-TXT
970	GC0712	TALLYING WS-Tally-QTY FOR ALL '-save-temps'
971	GC0712	IF WS-CS-LISTING-CHR > SPACE
972	GC0712	AND WS-Tally-QTY > 0
973	GC0712	MOVE SPACE TO WS-CS-LISTING-CHR *> Can't generate listing if -save-temps u
	sed	
974	GC0712	END-IF
975	GC0712	IF WS-CS-LISTING-CHR > SPACE
976	GC1010	STRING '-save-temps '
977	GC1010	DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
978	GC1010	WITH POINTER WS-I-SUB
979	GC1010	END-IF
980		
981	GC0709	IF WS-CS-Extra-TXT > SPACES
982	GC0709	STRING ' '
983	GC0709	TRIM(WS-CS-Extra-TXT,TRAILING)
984	GC0709	, ,
985	GC0709	DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
986	GC0709	WITH POINTER WS-I-SUB
987	GC0709	END-IF
988	GC0909	STRING TRIM(WS-Prog-File-Name-TXT,TRAILING)
989	GC0909	DELIMITED SIZE INTO WS-Cobc-Cmd-TXT
990	GC0909	WITH POINTER WS-I-SUB
991	*>**	*************
992	*> P	repare the compilation listing file **
993	*>**	************
994	GC1113	MOVE CONCATENATE(TRIM(WS-Pgm-Nm-TXT, Trailing), '.gclst')
	GC0712	TO WS-Listing-Filename-TXT
996	GC0712	CALL 'CBL_DELETE_FILE' USING WS-Listing-Filename-TXT
997		************
998		ow execute the 'cobc' command **
999		************
	GC0410	MOVE 'Compiling' TO WS-Output-Msg-TXT
	GC0410	DISPLAY S-Switches-SCR
	GC0609	SET WS-RS-Output-File-Avail-BOOL TO TRUE
1003		MOVE SPACES TO WS-Cmd-TXT
1004	000740	STRING TRIM(WS-Cobc-Cmd-TXT,TRAILING)
	GC0712	' >' WS-Listing-Filename-TXT
	GC0712	, 5×61,
1007		DELIMITED SIZE

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Line	Statement	,,,,,,,,	Page: 26
1008	=======	INTO WS-Cmd-TXT	=======
1009	DEBUG D	DISPLAY WS-Cmd-TXT UPON SYSERR	
1010		CALL 'SYSTEM' USING TRIM(WS-Cmd-TXT, TRAILING)	
1011	GC0712	OPEN EXTEND F-Cobc-Output-FILE	
1012	GC0712	WRITE F-Cobc-Output-REC FROM SPACES	
1013	GC0712	IF RETURN-CODE = 0	
1014	GC0712	SET WS-RS-Compile-OK-BOOL TO TRUE	
1015	GC0712	MOVE ' Compilation Was Successful' TO WS-Output-Msg-TXT	
1016	GC0712	MOVE CONCATENATE('GNU COBOL', WS-Output-Msg-TXT)	
1017	GC0712	TO F-Cobc-Output-REC	
1018	GC0712	WRITE F-Cobc-Output-REC	
1019	GC0712	SET WS-RS-Complete-BOOL TO TRUE	
1020	GC0712	ELSE	
1021	GC0712	SET WS-RS-Compile-Failed-BOOL TO TRUE	
1022	GC0712	MOVE CONCATENATE(' Compilation Failed - See ',	
1023	GC0712	<pre>TRIM(WS-Listing-Filename-TXT,Trailing))</pre>	
	GC0712	TO WS-Output-Msg-TXT	
	GC0712	MOVE 'GNU COBOL Compilation HAS FAILED - See Above'	
	GC0712	TO F-Cobc-Output-REC	
	GC0712	WRITE F-Cobc-Output-REC	
1028	GC0712	END-IF	
	GC0712	CLOSE F-Cobc-Output-FILE	
	GC0712	DISPLAY S-Switches-SCR	
	GC0712	CALL 'C\$SLEEP' USING 2	
	GC0712	MOVE SPACES TO WS-Output-Msg-TXT	
1033		IF WS-RS-Compile-Failed-BOOL	
	GC0712	PERFORM 250-Autoload-Listing	
1035		PERFORM 900-Terminate	
		Control will not return	
1037		END-IF	
1038		•	

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Line	Statement		Page: 27
=====	=======		
1040	*>**	***************	
1041	*> G	enerate a source + xref listing using 'LISTING' subroutine **	
1042		***************************************	
1043	GC0410 220	-Make-Listing SECTION.	
1044	GC0410	MOVE ' Generating listing' TO WS-Output-Msg-TXT	
1045	GC0410	DISPLAY S-Switches-SCR	
1046	GC0410	MOVE O TO RETURN-CODE	
1047	*>**	*****************	
1048	*> C	reate the listing **	
1049	*>**	***************	
1050	GC0410	MOVE SPACES TO WS-Output-Msg-TXT	
	GC0410	CALL 'LISTING' USING WS-Listing-Filename-TXT	
	GC0712	WS-File-Name-TXT	
	GC0712	WS-OS-Type-CD	
	GC1213	LPP	
	GC1213	LPPP	
	GC1213	WS-Listing-CD	
	GC0410	ON EXCEPTION	
	GC0410	MOVE ' LISTING module is not available'	
	GC0410	TO WS-Output-Msg-TXT	
	GC0410	MOVE 1 TO RETURN-CODE	
	GC0410	END-CALL	
	GC0410	IF RETURN-CODE = 0	
	GC0712	MOVE 'Source+Xref listing generated'	
	GC0712	TO WS-Output-Msg-TXT	
	GC0410	END-IF	
	GC0712	DISPLAY S-Switches-SCR	
	GC0712	CALL 'C\$SLEEP' USING 2	
	GC0712	PERFORM 250-Autoload-Listing	
1069	GC0410	•	

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1071 *>Run the compiled program ** 1072 *>Run the compiled program ** 1073 *> 1074 230-Run-Program SECTION. 1075 GC0114 MOVE ' Preparing to run program press ENTER to close ' 1076 GC0114 DISPLAY S-SWitches-SCR 1078 GC0114 CALL 'CSSLEEP' USING 3 1079 GC0309 MOVE SPACES TO WS-Cmd-TXT 1080 GC0309 MOVE SPACES TO WS-Cmd-TXT 1080 GC0309 MOVE SPACES TO WS-Cmd-TXT 1081 *** 1082 *>If necessary, start with 'cobcrun' command ** 1083 *** 1084 GC0712 If WS-CS-LIERARY-CIR NOT = ' ' 1085 STRING 'cobcrun' DELINHIPE SIZE 1086 INTO WS-Cmd-TXT 1087 WITH POINTER WS-I-SUB 1088 END-IF 1089 *> Add any necessary path prefix ** 1091 ** 1092 GC0712 SET WS-RS-Double-Quote-Used-BOOL TO FALSE 1093 IF WS-Prog-Folder-TXT NOT * SPACES 1094 GC03099 IF WS-Prog-Folder-TXT NOT * SPACES 1095 GC03099 IF WS-Prog-Folder-TXT NOT ** 1096 GC03099 INTO WS-Cmd-TXT 1097 GC03099 STRING 'cobcrus' BOOL AND WS-Prog-Folder-TXT (2:1) = ':' 1107 GC0309 WITH POINTER WS-I-SUB 1098 GC03099 STRING 'Cygdrive'' 1109 GC03099 STRING WS-Cmd-TXT 1100 GC03099 WITH POINTER WS-I-SUB 1101 GC03099 WITH POINTER WS-I-SUB 1102 GC03099 STRING WS-Prog-Folder-TXT (1:1)) 1103 GC03099 UNTIL WS-J-SUB FEROM 3 BY 1 1104 GC03099 UNTIL WS-J-SUB FEROM 3 BY 1 1105 GC03099 STRING WS-J-SUB FEROM 3 BY 1 1107 GC03099 WITH POINTER WS-I-SUB 1108 GC03099 STRING WS-J-SUB FEROM 3 BY 1 1109 GC03099 WITH POINTER WS-I-SUB 1109 GC03099 STRING WS-Prog-Folder-TXT (WS-J-SUB:1) = '\' 1107 GC03099 WITH POINTER WS-I-SUB 1108 GC03099 STRING WS-Prog-Folder-TXT (WS-J-SUB:1) 1109 GC03099 STRING WS-Prog-Folder-TXT (WS-J-SUB:1) 1101 GC03099 END-FERFORM 1111 GC03099 END-FERFORM 1112 GC03099 STRING WS-GR-DIT-CHR 1113 GC03099 END-TF 1120 GC0712 STRING WS-OS-DIT-CHR 1121 GC03099 STRING WS-OS-DIT-CHR 1121 GC03099 STRING WS-OS-DIT-CHR 1121 GC03099 STRING WS-OS-DIT-CHR 1121 GC03099 STRING WS-OS-DIT-CHR	Line =====	Statement	/ nome/ vince/ cobolsic/ cobol 10013/	Page: 28
1072 *> Run the compiled program	1071	***		
1073		_		
1074				
1075 GC0114				
1076 CC0114			-	
1077 GC0114 DISPLAY S-Switches-SCR 1078 GC0104 CALL 'C\$SLEEP' USING 3 1079 GC0909 MOVE SPACES TO WS-Cmd-TXT 1080 GC0909 MOVE SPACES TO WS-Cmd-TXT 1081 ***********************************				
1078 GCO114 CALL 'C\$SLEEP' USING 3 1079 GC0909 MOVE SPACES TO WS-Cmd-TXT 1080 GC0909 MOVE 1 TO WS-L-SUB 1081 *>***********************************			. •	
1079 GC0909 MOVE SPACES TO WS-Cmd-TXT 1080 GC0909 MOVE 1 TO WS-1-SUB 1081 ***********************************				
1080 GC0909 MOVE 1 TO WS-I-SUB 1081 ***********************************		GC0114	MONE CONCEC TO MC Cond TYT	
1081				

1083 *>***********************************		•		
1084 GC0712			• •	
1085 STRING 'cobcrum ' DELIMITED SIZE 1086 INTO WS-Cmd-TXT 1087 WITH POINTER WS-I-SUB 1088 END-IF 1089 *>***********************************				
1086		G00712		
1087 WITH POINTER WS-I-SUB 1088 END-IF 1089 ************************************				
1088				
1089				
1090				
1091 *>***********************************		_		
SET WS-RS-Double-Quote-Used-BOOL TO FALSE			· · · · · · · · · · · · · · · · · · ·	
1093		-		
1094 GC0909		400112	·	
1095 GC0909		GC0909	•	
1096 GC0909				
1097 GC0909				
1098 GC0909 STRING LOWER-CASE(WS-Prog-Folder-TXT (1:1)) 1099 GC0909 INTO WS-Cmd-TXT 1100 GC0909 WITH POINTER WS-I-SUB 1101 GC0909 PERFORM 1102 GC0909 UNTIL WS-J-SUB FROM 3 BY 1 1103 GC0909 UNTIL WS-J-SUB > LENGTH(TRIM(WS-Prog-Folder-TXT)) 1104 GC0909 IF WS-Prog-Folder-TXT (WS-J-SUB:1) = '\' 1105 GC0909 STRING '/' 1106 GC0909 INTO WS-Cmd-TXT 1107 GC0909 ELSE 1109 GC0909 ELSE 1109 GC0909 STRING WS-Prog-Folder-TXT (WS-J-SUB:1) 1110 GC0909 INTO WS-Cmd-TXT 1111 GC0909 END-IF 1113 GC0909 END-PERFORM 114 GC0909 ELSE 115 GC0410 STRING '"' TRIM(WS-Prog-Folder-TXT, TRAILING) 116 GC0909 ELSE 117 GC0909 WITH POINTER WS-I-SUB 118 GC0712 SET WS-RS-Double-Quote-Used-BOOL TO TRUE 119 GC0909 END-IF 1100 GC0909 END-IF 1110 GC0909 END-IF 1111 GC0909 END-IF 1112 GC0909 END-IF 1113 GC0909 END-IF 1114 GC0909 END-IF 1115 GC0909 END-IF 1116 GC0909 END-IF 1117 GC0909 END-IF 1118 GC0712 STRING WS-OS-Dir-CHR				
1099 GC0909				
1100 GC0909 WITH POINTER WS-I-SUB 1101 GC0909 PERFORM 1102 GC0909 VARYING WS-J-SUB FROM 3 BY 1 1103 GC0909 UNTIL WS-J-SUB > LENGTH(TRIM(WS-Prog-Folder-TXT)) 1104 GC0909 IF WS-Prog-Folder-TXT (WS-J-SUB:1) = '\' 1105 GC0909 STRING '/' 1106 GC0909 INTO WS-Cmd-TXT 1107 GC0909 ELSE 1109 GC0909 ELSE 1109 GC0909 STRING WS-Prog-Folder-TXT (WS-J-SUB:1) 1110 GC0909 WITH POINTER WS-I-SUB 1111 GC0909 END-IF 1112 GC0909 END-IF 1113 GC0909 ELSE 1115 GC0410 STRING '"' TRIM(WS-Prog-Folder-TXT,TRAILING) 1116 GC0909 WITH POINTER WS-I-SUB 1117 GC0909 WITH POINTER WS-I-SUB 1118 GC0712 SET WS-RS-Double-Quote-Used-BOOL TO TRUE 1119 GC0909 END-IF 1120 GC0712 STRING WS-OS-Dir-CHR			_	
1101 GC0909 PERFORM 1102 GC0909 VARYING WS-J-SUB FROM 3 BY 1 1103 GC0909 UNTIL WS-J-SUB > LENGTH(TRIM(WS-Prog-Folder-TXT)) 1104 GC0909 IF WS-Prog-Folder-TXT (WS-J-SUB:1) = '\' 1105 GC0909 STRING '/' 1106 GC0909 INTO WS-Cmd-TXT 1107 GC0909 ELSE 1109 GC0909 STRING WS-Prog-Folder-TXT (WS-J-SUB:1) 1110 GC0909 INTO WS-Cmd-TXT 1111 GC0909 INTO WS-Cmd-TXT 1111 GC0909 WITH POINTER WS-I-SUB 1112 GC0909 END-IF 1113 GC0909 END-PERFORM 1114 GC0909 ELSE 1115 GC0410 STRING '"' TRIM(WS-Prog-Folder-TXT,TRAILING) 1116 GC0909 WITH POINTER WS-I-SUB 1117 GC0909 WITH POINTER WS-I-SUB 1118 GC0712 SET WS-RS-Double-Quote-Used-BOOL TO TRUE 1119 GC0909 END-IF 1120 GC0712 STRING WS-OS-Dir-CHR			WITH POINTER WS-I-SUB	
1102 GC0909				
1104 GC0909			VARYING WS-J-SUB FROM 3 BY 1	
1104 GC0909				
1105 GC0909 STRING '/' 1106 GC0909 INTO WS-Cmd-TXT 1107 GC0909 WITH POINTER WS-I-SUB 1108 GC0909 ELSE 1109 GC0909 INTO WS-Cmd-TXT (WS-J-SUB:1) 1110 GC0909 INTO WS-Cmd-TXT 1111 GC0909 WITH POINTER WS-I-SUB 1112 GC0909 END-IF 1113 GC0909 END-PERFORM 1114 GC0909 ELSE 1115 GC0410 STRING '"' TRIM(WS-Prog-Folder-TXT, TRAILING) 1116 GC0909 WITH POINTER WS-I-SUB 1117 GC0909 WITH POINTER WS-I-SUB 1118 GC0712 SET WS-RS-Double-Quote-Used-BOOL TO TRUE 1119 GC0909 END-IF 1120 GC0712 STRING WS-OS-Dir-CHR	1104	GC0909		
1107 GC0909 WITH POINTER WS-I-SUB 1108 GC0909 ELSE 1109 GC0909 STRING WS-Prog-Folder-TXT (WS-J-SUB:1) 1110 GC0909 INTO WS-Cmd-TXT 1111 GC0909 WITH POINTER WS-I-SUB 1112 GC0909 END-IF 1113 GC0909 END-PERFORM 1114 GC0909 ELSE 1115 GC0410 STRING '"' TRIM(WS-Prog-Folder-TXT,TRAILING) 1116 GC0909 INTO WS-Cmd-TXT 1117 GC0909 WITH POINTER WS-I-SUB 1118 GC0712 SET WS-RS-Double-Quote-Used-BOOL TO TRUE 1119 GC0909 END-IF 1120 GC0712 STRING WS-OS-Dir-CHR	1105	GC0909	<u> </u>	
1108 GC0909 ELSE 1109 GC0909 STRING WS-Prog-Folder-TXT (WS-J-SUB:1) 1110 GC0909 INTO WS-Cmd-TXT 1111 GC0909 WITH POINTER WS-I-SUB 1112 GC0909 END-IF 1113 GC0909 END-PERFORM 1114 GC0909 ELSE 1115 GC0410 STRING '"' TRIM(WS-Prog-Folder-TXT,TRAILING) 1116 GC0909 INTO WS-Cmd-TXT 1117 GC0909 WITH POINTER WS-I-SUB 1118 GC0712 SET WS-RS-Double-Quote-Used-BOOL TO TRUE 1119 GC0909 END-IF 1120 GC0712 STRING WS-OS-Dir-CHR	1106	GC0909	INTO WS-Cmd-TXT	
1109 GC0909 STRING WS-Prog-Folder-TXT (WS-J-SUB:1) 1110 GC0909 INTO WS-Cmd-TXT 1111 GC0909 WITH POINTER WS-I-SUB 1112 GC0909 END-IF 1113 GC0909 END-PERFORM 1114 GC0909 ELSE 1115 GC0410 STRING '"' TRIM(WS-Prog-Folder-TXT,TRAILING) 1116 GC0909 INTO WS-Cmd-TXT 1117 GC0909 WITH POINTER WS-I-SUB 1118 GC0712 SET WS-RS-Double-Quote-Used-BOOL TO TRUE 1119 GC0909 END-IF 1120 GC0712 STRING WS-OS-Dir-CHR	1107	GC0909	WITH POINTER WS-I-SUB	
1110 GC0909 INTO WS-Cmd-TXT 1111 GC0909 WITH POINTER WS-I-SUB 1112 GC0909 END-IF 1113 GC0909 END-PERFORM 1114 GC0909 ELSE 1115 GC0410 STRING '"' TRIM(WS-Prog-Folder-TXT,TRAILING) 1116 GC0909 INTO WS-Cmd-TXT 1117 GC0909 WITH POINTER WS-I-SUB 1118 GC0712 SET WS-RS-Double-Quote-Used-BOOL TO TRUE 1119 GC0909 END-IF 1120 GC0712 STRING WS-OS-Dir-CHR	1108	GC0909	ELSE	
1111 GC0909 WITH POINTER WS-I-SUB 1112 GC0909 END-IF 1113 GC0909 END-PERFORM 1114 GC0909 ELSE 1115 GC0410 STRING '"' TRIM(WS-Prog-Folder-TXT,TRAILING) 1116 GC0909 INTO WS-Cmd-TXT 1117 GC0909 WITH POINTER WS-I-SUB 1118 GC0712 SET WS-RS-Double-Quote-Used-BOOL TO TRUE 1119 GC0909 END-IF 1120 GC0712 STRING WS-OS-Dir-CHR	1109	GC0909	STRING WS-Prog-Folder-TXT (WS-J-SUB:1)	
1112 GC0909 END-IF 1113 GC0909 END-PERFORM 1114 GC0909 ELSE 1115 GC0410 STRING '"' TRIM(WS-Prog-Folder-TXT,TRAILING) 1116 GC0909 INTO WS-Cmd-TXT 1117 GC0909 WITH POINTER WS-I-SUB 1118 GC0712 SET WS-RS-Double-Quote-Used-BOOL TO TRUE 1119 GC0909 END-IF 1120 GC0712 STRING WS-OS-Dir-CHR	1110	GC0909	INTO WS-Cmd-TXT	
1113 GC0909 END-PERFORM 1114 GC0909 ELSE 1115 GC0410 STRING '"' TRIM(WS-Prog-Folder-TXT,TRAILING) 1116 GC0909 INTO WS-Cmd-TXT 1117 GC0909 WITH POINTER WS-I-SUB 1118 GC0712 SET WS-RS-Double-Quote-Used-BOOL TO TRUE 1119 GC0909 END-IF 1120 GC0712 STRING WS-OS-Dir-CHR	1111	GC0909	WITH POINTER WS-I-SUB	
1114 GC0909 ELSE 1115 GC0410 STRING '"' TRIM(WS-Prog-Folder-TXT,TRAILING) 1116 GC0909 INTO WS-Cmd-TXT 1117 GC0909 WITH POINTER WS-I-SUB 1118 GC0712 SET WS-RS-Double-Quote-Used-BOOL TO TRUE 1119 GC0909 END-IF 1120 GC0712 STRING WS-OS-Dir-CHR	1112	GC0909	END-IF	
1115 GC0410 STRING '"' TRIM(WS-Prog-Folder-TXT,TRAILING) 1116 GC0909 INTO WS-Cmd-TXT 1117 GC0909 WITH POINTER WS-I-SUB 1118 GC0712 SET WS-RS-Double-Quote-Used-BOOL TO TRUE 1119 GC0909 END-IF 1120 GC0712 STRING WS-OS-Dir-CHR	1113	GC0909	END-PERFORM	
1116 GC0909 INTO WS-Cmd-TXT 1117 GC0909 WITH POINTER WS-I-SUB 1118 GC0712 SET WS-RS-Double-Quote-Used-BOOL TO TRUE 1119 GC0909 END-IF 1120 GC0712 STRING WS-OS-Dir-CHR	1114	GC0909	ELSE	
1117 GC0909 WITH POINTER WS-I-SUB 1118 GC0712 SET WS-RS-Double-Quote-Used-BOOL TO TRUE 1119 GC0909 END-IF 1120 GC0712 STRING WS-OS-Dir-CHR	1115	GC0410	STRING '"' TRIM(WS-Prog-Folder-TXT,TRAILING)	
1118 GC0712 SET WS-RS-Double-Quote-Used-BOOL TO TRUE 1119 GC0909 END-IF 1120 GC0712 STRING WS-OS-Dir-CHR	1116	GC0909		
1119 GC0909 END-IF 1120 GC0712 STRING WS-OS-Dir-CHR	1117	GC0909	WITH POINTER WS-I-SUB	
1120 GC0712 STRING WS-OS-Dir-CHR	1118	GC0712	SET WS-RS-Double-Quote-Used-BOOL TO TRUE	
	1119	GC0909	END-IF	
1121 GC0909 INTO WS-Cmd-TXT	1120	GC0712	STRING WS-OS-Dir-CHR	
	1121	GC0909	INTO WS-Cmd-TXT	
1122 GC0909 WITH POINTER WS-I-SUB	1122	GC0909	WITH POINTER WS-I-SUB	

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Line	Statement	, nome, vince, cobolbie, cobol 1001b, co	Page: 29
	GC0909	ELSE	
1124	GC0909	IF WS-OS-Cygwin-BOOL OR WS-OS-UNIX-BOOL	
1125	GC0909	STRING,','	
1126	GC0909	INTO WS-Cmd-TXT	
1127	GC0909	WITH POINTER WS-I-SUB	
1128	GC0909	END-IF	
1129		END-IF	
1130	*>*>	**************	
1131	*>]	Insert program filename **	
1132	*>*>	**************	
1133	GC0909	STRING TRIM(WS-Pgm-Nm-TXT,TRAILING)	
1134	GC0909	INTO WS-Cmd-TXT	
1135	GC0909	WITH POINTER WS-I-SUB	
1136	*>*>	**************	
1137	*>]	Insert proper extension **	
1138	*>*>	**************	
1139	GC0712	IF WS-CS-LIBRARY-CHR = ' '	
1140	GC0712	<pre>IF WS-OS-Exe-Ext-CONST > ' '</pre>	
1141	GC0712	STRING WS-OS-Exe-Ext-CONST DELIMITED SPACE	
1142	GC0712	INTO WS-Cmd-TXT	
1143	GC0712	WITH POINTER WS-I-SUB	
1144	GC0712	END-IF	
1145	GC0712	ELSE	
1146	GC0712	<pre>IF WS-OS-Lib-Ext-CONST > ' '</pre>	
1147	GC0712	STRING WS-OS-Lib-Ext-CONST DELIMITED SPACE	
1148	GC0712	INTO WS-Cmd-TXT	
1149	GC0712	WITH POINTER WS-I-SUB	
1150	GC0712	END-IF	
1151	GC0712	END-IF	
1152	GC0712	IF WS-RS-Double-Quote-Used-BOOL	
1153	GC0712	STRING '"' DELIMITED SIZE	
1154	GC0712	INTO WS-Cmd-TXT	
1155	GC0712	WITH POINTER WS-I-SUB	
1156	GC0712	END-IF	
1157		IF WS-CS-Args-TXT NOT = SPACES	
1158	GC0809	STRING ' ' TRIM(WS-CS-Args-TXT,TRAILING)	
1159		INTO WS-Cmd-TXT	
1160		WITH POINTER WS-I-SUB	
1161		END-IF	
1162	•	**************	
1163		Run the program **	

	GC0114	CALL X'E4'	
1166		CALL 'SYSTEM' USING TRIM(WS-Cmd-TXT,TRAILING)	
	GC0712	MOVE SPACES TO WS-Output-Msg-TXT	
	GC0114	• •	
1169		PERFORM 900-Terminate	
1170		- Control will NOT return	
1171		•	

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Line	Statement		Page: 30
=====	=======		
1173	*>**	***************	
1174		etermine if the program being compiled is a MAIN program **	
1175		**************************************	
1176	240	-Find-LINKAGE-SECTION SECTION.	
1177		OPEN INPUT F-Source-Code-FILE	
1178	GC0712	MOVE ' ' TO WS-CS-LIBRARY-CHR	
1179		SET WS-RS-More-To-1st-Prog-BOOL TO TRUE	
1180		PERFORM UNTIL WS-RS-1st-Prog-Complete-BOOL	
1181		READ F-Source-Code-FILE AT END	
1182		CLOSE F-Source-Code-FILE	
1183		EXIT SECTION	
1184		END-READ	
1185	GC0712	CALL 'CHECKSRC'	
1186	GC0712	USING BY CONTENT F-Source-Code-REC	
1187	GC0712	BY REFERENCE WS-RS-Source-Record-Type-CHR	
1188		IF WS-RS-Source-Rec-Ident-BOOL	
1189		SET WS-RS-1st-Prog-Complete-BOOL TO TRUE	
1190		END-IF	
1191		END-PERFORM	
1192	GC0712	SET WS-RS-Source-Rec-Ignored-BOOL TO TRUE	
1193		PERFORM UNTIL WS-RS-Source-Rec-Linkage-BOOL	
1194		OR WS-RS-Source-Rec-Ident-BOOL	
1195		READ F-Source-Code-FILE AT END	
1196		CLOSE F-Source-Code-FILE	
1197		EXIT SECTION	
1198		END-READ	
1199	GC0712	CALL 'CHECKSRC'	
1200	GC0712	USING BY CONTENT F-Source-Code-REC	
1201	GC0712	BY REFERENCE WS-RS-Source-Record-Type-CHR	
1202		END-PERFORM	
1203		CLOSE F-Source-Code-FILE	
1204		IF WS-RS-Source-Rec-Linkage-BOOL	
1205	GC0712	MOVE SELCHAR TO WS-CS-LIBRARY-CHR	
1206		END-IF	
1207		•	

70 for INTY / i and Consolidate (0) 2000 2010 (const. Cub.) and (0) 2010 2010 (const. Cub.) a

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GNUCOBOL 3.0 24DEC2017 Source Listing
```

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T 4	O+ - + +	/nome/vince/copoisrc/Gobol	
Line	Statement		Page: 31
1209	CC0712*>**	*************************************	k**
		ttempt to open the listing file as a command. This will -	
		f the user has associated filetype/extension 'gclst' with	
		n application - invoke the appropriate application to	**
		llow the user to view the listing.	**

		-Autoload-Listing SECTION.	
	GC0712	EVALUATE TRUE	
	GC0712	WHEN WS-OS-Windows-BOOL OR WS-OS-Cygwin-BOOL	
1218	GC0712	MOVE SPACES TO WS-Cmd-TXT	
	GC0712	STRING	
	GC0712	'cmd /c '	
	GC0712	TRIM(WS-Listing-Filename-TXT,TRAILING)	
	GC0712	DELIMITED SIZE INTO WS-Cmd-TXT	
1223	GC0712	CALL 'SYSTEM' USING TRIM(WS-Cmd-TXT, TRAILING)	
1224	GC0712		
	GC0712	MOVE SPACES TO WS-Cmd-TXT	
1226	GC0712	STRING	
1227	GC0712	open -t '	
1228	GC0712	TRIM(WS-Listing-Filename-TXT,TRAILING)	
1229	GC0712	DELIMITED SIZE INTO WS-Cmd-TXT	
1230	GC0712	CALL 'SYSTEM' USING TRIM(WS-Cmd-TXT, TRAILING)	
1231	GC0712	END-EVALUATE	
1232	GC0712*>	*****************	***
1233	GC0712*>	** Since we had to do our own '-save-temps' when we	**
1234	GC0712*>	** compiled (in order to generate the cross-reference	**
1235	GC0712*>	** listing) we now need to clean up after ourselves.	**
1236	GC0712*>	***************	***
1237	GC1112	DISPLAY S-Blank-SCR	
1238	GC0712	IF WS-OS-Windows-BOOL	
1239	GC0712	MOVE CONCATENATE('del ',TRIM(WS-Pgm-Nm-TXT,TRAILING))	
1240	GC0712	TO WS-Cmd-TXT	
	GC0712	ELSE	
	GC0712	MOVE CONCATENATE('rm ',TRIM(WS-Pgm-Nm-TXT,TRAILING))	
	GC0712	TO WS-Cmd-TXT	
	GC0712	END-IF	
	GC0712	CALL 'SYSTEM'	
	GC0712	USING CONCATENATE(TRIM(WS-Cmd-TXT,TRAILING),'.c')	
	GC0712	CALL 'SYSTEM'	
	GC0712	USING CONCATENATE(TRIM(WS-Cmd-TXT,TRAILING),'.c.h')	
	GC0712	CALL 'SYSTEM'	
	GC0712	USING CONCATENATE(TRIM(WS-Cmd-TXT,TRAILING),'.c.1*.h'))
	GC0712	CALL 'SYSTEM'	
	GC0712	USING CONCATENATE(TRIM(WS-Cmd-TXT,TRAILING),'.i')	
	GC0712	CALL 'SYSTEM'	
	GC0712	USING CONCATENATE(TRIM(WS-Cmd-TXT,TRAILING),'.o')	
1255	CC0710		
1256	GC0712	•	

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Line S	Statement	Page: 32
1258	*>******************	*******
1259	*> Display a message and halt the p	orogram **
1260	*>*******************	*******

1258 *:	>**************	
1259 *:	> Display a message and halt the program **	
1260 *:	>*******************	
1261	900-Terminate SECTION.	
1262 GC0909	IF WS-Output-Msg-TXT > SPACES	
1263 GC0909	DISPLAY S-Switches-SCR	
1264 GC0909	CALL 'C\$SLEEP' USING 2	
1265 GC0909	END-IF	
1266	DISPLAY S-Blank-SCR	
1267	STOP RUN	
1268	•	
1269		
1270 I	END PROGRAM GCic.	

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2017/12/24 /home/vince/cobolsrc/Cobol-Tools/ocic/GCic.cbl Page: 33

Line	Statement	/nome/vince/codoisrc/Codo.	Page: 33
		=======================================	•
1272	IDE	NTIFICATION DIVISION.	
1273		GRAM-ID. CHECKSRC.	
1274		***************************************	***
1275		his subprogram will scan a line of source code it is given	
1276		ooking for 'LINKAGE SECTION' or 'IDENTIFICATION DIVISION'.	
1277		OOKING TOT LINNAGE DECITOR OF IDENTIFICATION DIVIDION .	**
1278		****NOTE****	**
1279		THE ROLL THE THE ROLL THE THE ROLL THE	**
1280		hese two strings must be found IN THEIR ENTIRETY within	**
1281		he 1st 80 columns of program source records, and cannot	**
1282		ollow either a '*>' sequence OR a '*' in col 7.	**
1283		**************************************	
1284		DATE CHANGE DESCRIPTION	**
1285		DATE CHANGE DESCRIPTION	• •
1286	· ·		**
		CO809 Initial coding. ************************************	
1287			***
1288 1289		IRONMENT DIVISION. FIGURATION SECTION.	
1290	REP	OSITORY.	
1291	DAT	FUNCTION ALL INTRINSIC.	
1292		A DIVISION.	
1293		KING-STORAGE SECTION.	
1294	01	WS-Compressed-Src-TXT.	
1295		05 WS-CS-CHR OCCURS 80 TIMES	
1296		PIC X(1).	
1297			
1298	01	WS-Runtime-Switches-TXT.	
1299		05 WS-RS-Found-SPACE-CHR PIC X(1).	
1300		88 WS-RS-Skipping-SPACE-BOOL VALUE 'Y'.	
1301		88 WS-RS-Not-Skipping-SPACE-BOOL VALUE 'N'.	
1302			
1303	01	WS-I-SUB USAGE BINARY-CHAR.	
1304			
1305	01	WS-J-SUB USAGE BINARY-CHAR.	
1306	LIN	KAGE SECTION.	
1307	01	L-Argument-1-TXT.	
1308		02 L-A1-CHR OCCURS 80 TIMES	
1309		PIC X(1).	
1310			
1311	01	L-Argument-2-CHR PIC X(1).	
1312		88 L-A2-LINKAGE-SECTION-BOOL VALUE 'L'.	
1313		88 L-A2-IDENT-DIVISION-BOOL VALUE 'I'.	
1314		88 L-A2-Nothing-Special-BOOL VALUE ''.	

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Line	Statement	Page: 34
=====		
1316	GCO712 PROCEDURE DIVISION USING BY VALUE L-Argument-1-TXT	
1317	GCO712 BY REFERENCE L-Argument-2-CHR.	
1318	000-Main SECTION.	
1319	SET L-A2-Nothing-Special-BOOL TO TRUE	
1320	IF L-A1-CHR $(7) = ",*"$	
1321	GOBACK	
1322	END-IF	
1323	•	
1324	*>	
1325	*> Compress multiple consecutive spaces	
1326	• •	
1327	SET WS-RS-Not-Skipping-SPACE-BOOL TO TRUE	
1328		
1329		
1330	1	
1331	UNTIL WS-I-SUB > 80	
1332	IF L-A1-CHR (WS-I-SUB) = SPACE	
1333	IF WS-RS-Not-Skipping-SPACE-BOOL	
1334	ADD 1 TO WS-J-SUB	
1335	MOVE UPPER-CASE(L-A1-CHR (WS-I-SUB))	
1336	TO WS-CS-CHR (WS-J-SUB)	
1337	SET WS-RS-Skipping-SPACE-BOOL TO TRUE	
1338	END-IF	
1339	ELSE	
1340	SET WS-RS-Not-Skipping-SPACE-BOOL TO TRUE	
1341	ADD 1 TO WS-J-SUB	
1342	MOVE L-A1-CHR (WS-I-SUB) TO WS-CS-CHR (WS-J-SUB)	
1343	END-IF	
1344		
1345		
1346		
1347	-	
1348		
1349		
1350	EVALUATE TRUE	
1351	WHEN WS-CS-CHR (WS-I-SUB) = '*'	
1352	IF WS-Compressed-Src-TXT (WS-I-SUB : 2) = '*>'	
1353	GOBACK	
1354	END-IF	
1355	WHEN (WS-CS-CHR (WS-I-SUB) = 'L') AND (WS-I-SUB < 66)	
1356	IF WS-Compressed-Src-TXT (WS-I-SUB : 15)	
1357	= 'LINKAGE SECTION'	
1358	SET L-A2-LINKAGE-SECTION-BOOL TO TRUE	
1359	GOBACK	
1360		
1361	WHEN (WS-CS-CHR (WS-I-SUB) = 'I') AND (WS-I-SUB < 58)	
1362	IF WS-Compressed-Src-TXT (WS-I-SUB : 23)	
1363	= 'IDENTIFICATION DIVISION'	
1364		
1365	GOBACK	
1366	GUBACK END-IF	
1366	END-IF END-EVALUATE	
1307	END_EAMTONIE	

and for INIX /I in a grant she (a) 2000 2010 days I and I an

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Line	Statement		/nome/vince/cobolsrc/Cobol	Page: 35
1368		=========================== END-PERFORM		
1369	*>			
1370	*> If	we get to here, we never for	ound anything!	
1371	*>	3	a a y a	
1372	+	GOBACK		
1373				
1374	END F	PROGRAM CHECKSRC.		
1375				
1376	IDENT	TIFICATION DIVISION.		
1377		RAM-ID. LISTING.		
1378			***********	***
1379			coss-reference listing of an	**
1380		J COBOL program.	topp reference ribuing of un	**
1381			**************************************	
1382	*>			**
1383	*> AUT	THOR: GARY L. CUTLER		**
1384	*> A01		110 Cary I Cutlor CDI	**
1385	*>	copyright (c) 20	010, Gary L. Cutler, GPL	**
1386		ΓE-WRITTEN: April 1, 2010		**
1387	*> DA1	L WILLIEN. APILL 1, 2010		**
1388		· · · · · · · · · · · · · · · · · · ·	**********	
1389	-	ATE CHANGE DESCRIPTION	• • • • • • • • • • • • • • • • • • •	**
1390				**
1391		0410 Initial coding	the 10MAD2010 managing of 00	
1392		-	the 12MAR2010 version of OC	**
1393		-	names (i.e. 'CORRESPONDING' or	
1394	*>	-	r; ignore 'END PROGRAM' recs	**
1395	*>	so program name doesn't		**
1396		-	first procedure name defined	**
1397	*>		ION lacks a "Defined" line	**
1398	*>	number.	i of CNII CODOI O 1. Cham	**
1399		-	version of GNU COBOL 2.1; Stop	
1400	*>	_	f they were identifiers in the	
1401	*>		CALL argument references with	
1402	*>		because they aren't necessari-	
1403	*>	· · · · · · · · · · · · · · · · · · ·	rted formatting bugs; DOWN-	**
1404	*>	WARD COMPATIBLE WITH GN		**
1405		-	char of 1st token on a line is	
1406	*>		IS FREE is in effect and the	**
1407	*>	1st character is non-bl		**
1408		-	on & date to v3.0 & 24DEC2017.	
1409			***********	***
1410		RONMENT DIVISION.		
1411		IGURATION SECTION.		
1412		SITORY.		
1413		FUNCTION ALL INTRINSIC.		
1414		r-output section.		
1415		-CONTROL.		
1416	5	-	ASSIGN TO WS-Expanded-Src-Fn-T	
1417			ORGANIZATION IS LINE SEQUENTIA	AL.
	GC0712	SELECT F-Listing-FILE	ASSIGN TO L-Listing-Fn-TXT	
1419			ORGANIZATION IS LINE SEQUENTIA	AL.
1420	\$	SELECT F-Original-Src-FILE	ASSIGN TO L-Src-Fn-TXT	

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Line	Stateme			/home/vince/cobolsrc/Cobol-Tools/ocic	Page: 36
1421				ORGANIZATION IS LINE SEQUENTIAL.	
1422			SELECT F-Sort-Work-FILE	ASSIGN TO DISK.	
1423		DAT	A DIVISION.		
1424		FIL	E SECTION.		
1425		FD	F-Expanded-Src-FILE.		
1426		01	F-Expanded-Src-REC.		
1427			05 F-ES-1-CHR	PIC X.	
1428			05 F-ES-2-256-TXT-256	PIC X(256).	
		01	F-Expanded-Src2-REC.		
	GC0712		05 F-ES-1-7-TXT	PIC X(7).	
	GC0712		05 F-ES-8-256-TXT	PIC X(249).	
1432					
			F-Listing-FILE.		
			F-Listing-96-REC	PIC X(96).	
			F-Listing-135-REC	PIC X(135).	
1436		01	F-Listing-REC	PIC X(135).	
1437		E.D	E Out wine 1 Oue PILE		
1438			F-Original-Src-FILE.		
1439		01	F-Original-Src-REC.		
	GC0410 GC0410		05 F-OS-1-128-TXT. 10 FILLER	PIC X(6).	
	GC0410		10 F-OS-7-CHR	PIC X(0).	
	GC0712		10 F-0S-8-72-TXT	PIC X(65).	
	GC0712		10 FILLER	PIC X(56).	
1445	000112		05 F-0S-129-256-TXT	PIC X(128).	
1446			00 1 05 125 200 1X1	110 A(120).	
1447		SD	F-Sort-Work-FILE.		
1448			F-Sort-Work-REC.		
1449			05 F-SW-Prog-ID-TXT	PIC X(15).	
1450			05 F-SW-Token-Uc-TXT	PIC X(32).	
1451			05 F-SW-Token-TXT	PIC X(32).	
1452			05 F-SW-Section-TXT	PIC X(15).	
1453			05 F-SW-Def-Line-NUM	PIC 9(6).	
1454			05 F-SW-Reference-TXT.		
1455			10 F-SW-Ref-Line-NUM	PIC 9(6).	
1456			10 F-SW-Ref-Flag-CHR	PIC X(1).	
1457					
1458			KING-STORAGE SECTION.		
	GC1213	01	WS-Copyright-TXT	PIC X(86).	
1460				DTG W(4)	
1461		01	WS-Curr-CHR	PIC X(1).	
1462			88 WS-Curr-Char-Is-Punct-BO		
1463				'*', '/', '&', ';', ',', '<',	
1464 1465				';', ',', '\', '>', ':'.	
1466			88 WS-Curr-Char-Is-Quote-BO		
1467			88 WS-Curr-Char-Is-X-BOOL	VALUE 'x', 'X'.	
1468			88 WS-Curr-Char-Is-Z-BOOL	VALUE 'z', 'Z'.	
1469			Jan 10 1 2 001	,	
1470		01	WS-Curr-Division-TXT	PIC X(1).	
	GC1010	-	88 WS-CD-In-IDENT-DIV-BOOL	VALUE 'i', 'I', '?'.	
	GC1010		88 WS-CD-In-ENV-DIV-BOOL	VALUE 'e', 'E'.	
	GC1010		88 WS-CD-In-DATA-DIV-BOOL	VALUE 'd', 'D'.	

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GNUCOBOL 3.0 24DEC2017 Source Listing 2017/12/24 /home/vince/cobolsrc/Cobol-Tools/ocic/GCic.cbl Line Statement _____ VALUE 'p', 'P'. 1474 GC1010 88 WS-CD-In-PROC-DIV-BOOL 1475 1476 01 WS-Curr-Line-NUM PIC 9(6). 1477 01 WS-Curr-Prog-ID-TXT. 1478 05 FILLER PIC X(12). 1479 05 WS-CPI-13-15-TXT PIC X(3). 1480 1481 GC0712 05 WS-CPI-16-CHR PIC X(1). 1482 1483 01 WS-Curr-Section-TXT. 05 WS-CS-1-CHR 1484 PIC X(1). 1485 05 WS-CS-2-14-TXT. 10 FILLER 1486 PIC X(10). 10 WS-CS-11-14-TXT PIC X(3). 1487 05 WS-CS-15-CHR PIC X(1). 1488 1489 1490 01 WS-Curr-Verb-TXT PIC X(12). 1491 1492 01 WS-Delim-TXT PIC X(2). 1493 1494 01 WS-Dummy-TXT PIC X(1). 1495 1496 01 WS-Expanded-Src-Fn-TXT PIC X(256). 1497 1498 01 WS-Filename-TXT PIC X(256). 1499 1500 GC1213 01 WS-Flags-TXT. PIC X(1). 1501 GC1213 05 WS-Suppress-FF-CHR 1502 1503 GC1213 01 WS-Formatted-DT PIC 9999/99/99. 1504 1505 01 WS-Group-Indicators-TXT. 05 WS-GI-Prog-ID-TXT PIC X(15). 1506 05 WS-GI-Token-TXT PIC X(32). 1507 1508 01 WS-Held-Reference-TXT 1509 PIC X(100). 1510 01 WS-I-SUB 1511 USAGE BINARY-LONG. 1512 1513 01 WS-J-SUB USAGE BINARY-LONG. 1514 1515 01 WS-Lines-Left-NUM USAGE BINARY-LONG. 1516 01 WS-Lines-Per-Page-NUM USAGE BINARY-LONG. 1517 1518 1519 01 WS-Lines-Per-Page-Env-TXT PIC X(256). 1520 1521 GC1010 01 WS-Main-Module-Name-TXT PIC X(256). 1522 01 WS-Next-CHR 1523 PIC X(1). VALUE '"', "'". 1524 88 WS-Next-Char-Is-Quote-BOOL

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1525

1526

01 WS-OS-Type-FILLER-TXT.

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Page: 38 Line Statement _____ 05 WS-OS-Type-TXT PIC X(14)

OCCURS 5 TIMES . 1534 1535 1536 GC0712 01 WS-Page-NUM USAGE BINARY-LONG. 1537 1538 GC0712 01 WS-Page-No-TXT. 1542 GC1213 01 WS-Program-Path-TXT PIC X(135).
1543
1544 01 WS-Reserved-Words-TXT.
1545 05 VALUE 'FABS 'PIC X(33).
1546 GC1213 05 VALUE 'YACCEPT 'PIC X(33).
1548 05 VALUE 'ACCESS 'PIC X(33).
1549 GC1213 05 VALUE 'PACCSS 'PIC X(33).
1549 GC1213 05 VALUE 'PACCSS 'PIC X(33).
1559 05 VALUE 'ADDRESS 'PIC X(33).
1550 05 VALUE 'ADDRESS 'PIC X(33).
1551 05 VALUE 'ADDRESS 'PIC X(33).
1552 05 VALUE 'ADDRESS 'PIC X(33).
1554 05 VALUE 'ADDRESS 'PIC X(33).
1555 05 VALUE 'ADDRESS 'PIC X(33).
1556 05 VALUE 'ALIGNED 'PIC X(33).
1557 05 VALUE 'ALIGNED 'PIC X(33).
1557 05 VALUE 'ALIGNED 'PIC X(33).
1559 05 VALUE 'ALIGNED 'PIC X(33).
1559 05 VALUE 'ALHABETIC 'PIC X(33).
1560 05 VALUE 'ALPHABET 'PIC X(33).
1560 05 VALUE 'ALPHABET 'PIC X(33).
1560 05 VALUE 'ALPHABET 'PIC X(33).
1561 05 VALUE 'ALPHABET 'PIC X(33).
1562 05 VALUE 'ALPHABETIC-LUWER 'PIC X(33).
1563 05 VALUE 'ALPHABETIC-LUWER 'PIC X(33).
1564 05 VALUE 'ALPHABETIC-LUPER 'PIC X(33).
1565 05 VALUE 'ALPHABETIC-LUPER 'PIC X(33).
1566 05 VALUE 'ALPHABETIC-LUPER 'PIC X(33).
1568 05 VALUE 'ALPHABETIC-DIPER 'PIC X(33).
1569 05 VALUE 'ALPHANUMERIC 'PIC X(33).
1560 05 VALUE 'ALPHANUMERIC 'PIC X(33).
1560 05 VALUE 'AND 'PIC X(33).
1561 05 VALUE 'AND 'PIC X(33).
1562 05 VALUE 'AND 'PIC X(33).
1563 05 VALUE 'AND 'PIC X(33).
1564 05 VALUE 'ARBA 'PIC X(33).
1565 05 VALUE 'ARBA 'PIC X(33).
1566 05 VALUE 'ARBA 'PIC X(33).
1567 05 VALUE 'ARBA 'PIC X(33).
1568 05 VALUE 'ARBA 'PIC X(33).
1570 05 VALUE 'ARBA 'PIC X(33).
1571 05 VALUE 'ARBA 'PIC X(33).
1572 05 VALUE 'ARBA 'PIC X(33).
1573 05 VALUE 'ARBA 'PIC X(33).
1574 05 VALUE 'ARBA 'PIC X(33).
1575 05 VALUE 'ARBA 'PIC X(33).
1576 05 VALUE 'ARBAS 'PIC X(33).
1577 05 VALUE 'ARBAS 'PIC X(33).
1578 05 VALUE 'ARCHENT-VALUE 'PIC X(33).
1579 05 VALUE 'ARCHENT-VALUE 'PIC X(33).
1570 05 VA 1542 GC1213 01 WS-Program-Path-TXT PIC X(135). 1543

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			/home/vince/cobolsrc/Cobol-T	
Line	Statement			Page: 39
	GC1213	 O5 VALUE 'FASIN	, PIC X(33).	
1581		05 VALUE 'ASSIGN	PIC X(33).	
1582		O5 VALUE , AT	' PIC X(33).	
	GC1213	O5 VALUE 'FATAN	' PIC X(33).	
	GC0711	05 VALUE ' ATTRIBUTE	' PIC X(33).	
1585	400111	O5 VALUE ' AUTHOR	' PIC X(33).	OBSOLETE
1586		OS VALUE ' AUTO	, bic x(33).	05202212
1587		05 VALUE ' AUTO-SKIP	, PIC X(33).	
1588		O5 VALUE ' AUTOMATIC	, PIC X(33).	
1589		O5 VALUE ' AUTOTERMINATE	, PIC X(33).	
1590		O5 VALUE ' AWAY-FROM-ZERO	' PIC X(33).	
1591		O5 VALUE ' B-AND	' PIC X(33).	UNIMPLEMENTED
1592		O5 VALUE ' B-NOT	' PIC X(33).	UNIMPLEMENTED
1593		O5 VALUE ' B-OR	' PIC X(33).	UNIMPLEMENTED
1594		O5 VALUE ' B-XOR	, bic X(33).	UNIMPLEMENTED
1595		O5 VALUE ' BACKGROUND-COLOR	' PIC X(33).	
1596		05 VALUE ' BACKGROUND-COLOUR	' PIC X(33).	
1597		05 VALUE ' BASED	' PIC X(33).	
1598		O5 VALUE ' BEEP	' PIC X(33).	
1599		O5 VALUE ' BEFORE	' PIC X(33).	
1600		O5 VALUE ' BELL	'PIC X(33).	
1601		O5 VALUE ' BINARY	' PIC X(33).	
1602		05 VALUE 'BINARY-C-LONG	' PIC X(33).	
1603		05 VALUE 'BINARY-CHAR	' PIC X(33).	
1604		05 VALUE ' BINARY-DOUBLE	' PIC X(33).	
1605		O5 VALUE , BINARY-INT	, bic x(33).	
1606 1607		O5 VALUE 'BINARY-LONG O5 VALUE 'BINARY-LONG-LONG	' PIC X(33). ' PIC X(33).	
1607		05 VALUE 'BINARY-SHORT	PIC X(33).	
1609		05 VALUE ' BIT	PIC X(33).	UNIMPLEMENTED
1610		O5 VALUE ' BLANK	, bic x(33).	
1611		O5 VALUE ' BLINK	, bic x(33).	
1612		05 VALUE ' BLOCK	' PIC X(33).	
1613		O5 VALUE ' BOOLEAN	' PIC X(33).	UNIMPLEMENTED
1614	GC1213	O5 VALUE 'FBOOLEAN-OF-INTEGER	, bic X(33).	UNIMPLEMENTED
1615		O5 VALUE ' BOTTOM	, bic X(33).	
1616		O5 VALUE 'YBY	' PIC X(33).	
1617	GC1213	O5 VALUE 'FBYTE-LENGTH	' PIC X(33).	
1618		05 VALUE 'MCO1	' PIC X(33).	
1619		05 VALUE 'MCO2	' PIC X(33).	
1620		05 VALUE 'MCO3	' PIC X(33).	
1621		05 VALUE 'MCO4	, bic X(33).	
1622		05 VALUE 'MCO5	, bic x(33).	
1623		05 VALUE 'MC06	' PIC X(33).	
1624		05 VALUE 'MCO7	' PIC X(33).	
1625		05 VALUE 'MC08	' PIC X(33).	
1626		05 VALUE 'MC09	, PIC X(33).	
1627 1628		05 VALUE 'MC10 05 VALUE 'MC11	' PIC X(33). ' PIC X(33).	
1628		05 VALUE 'MC12	PIC X(33).	
1630		OS VALUE 'MC12	PIC X(33).	
1631		OS VALUE 'WCALL-CONVENTION	PIC X(33).	
1632		O5 VALUE 'VCANCEL	PIC X(33).	
1002		CO THE COMPONE	110 A(00).	

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			/home/vince/cobolsrc/Cobol-T	
Line	Statement			Page: 40
1633		O5 VALUE ' CAPACITY	, PIC X(33).	UNIMPLEMENTED
1634		05 VALUE 'CD	, bic X(33).	OBSOLETE
1635		O5 VALUE ' CENTER	, bic X(33).	UNIMPLEMENTED
1636		05 VALUE ' CF	, PIC X(33).	
1637		05 VALUE 'CH	, PIC X(33).	
1638		O5 VALUE ' CHAIN	, PIC X(33).	UNIMPLEMENTED
1639		05 VALUE ' CHAINING	, PIC X(33).	
1640	GC1213	05 VALUE 'FCHAR	' PIC X(33).	
1641	GC1213	O5 VALUE 'FCHAR-NATIONAL	' PIC X(33).	UNIMPLEMENTED
1642		O5 VALUE ' CHARACTER	, bic X(33).	
1643		05 VALUE ' CHARACTERS	' PIC X(33).	
1644		05 VALUE ' CLASS	, PIC X(33).	
1645		05 VALUE ' CLASS-ID	' PIC X(33).	UNIMPLEMENTED
	GC0711	O5 VALUE ' CLASSIFICATION	, bic X(33).	
1647		05 VALUE 'VCLOSE	' PIC X(33).	
	GC1213	05 VALUE 'FCOB-CRT-STATUS	' PIC X(33).	
1649		05 VALUE ' CODE	' PIC X(33).	
1650		05 VALUE ' CODE-SET	' PIC X(33).	
1651		05 VALUE ' COL	'PIC X(33).	
1652		05 VALUE ' COLLATING	' PIC X(33).	
1653		05 VALUE ' COLS	' PIC X(33).	
1654		O5 VALUE , COLUMN	' PIC X(33).	
1655		05 VALUE , COLUMNS	, bic x(33).	
	GC1213	05 VALUE 'FCOMBINED-DATETIME 05 VALUE 'COMMA	' PIC X(33).	
1657 1658		O5 VALUE ' COMMAND-LINE	'PIC X(33). 'PIC X(33).	
1659		OS VALUE 'VCOMMIT	PIC X(33).	
1660		05 VALUE , COMMON	PIC X(33).	
1661		05 VALUE , COMMUNICATION	, bic x(33).	OBSOLETE
1662		O5 VALUE ' COMP	, bic x(33).	02202212
1663		05 VALUE ' COMP-1	, bic X(33).	
1664		05 VALUE ' COMP-2	, bic X(33).	
1665		05 VALUE ' COMP-3	, PIC X(33).	
1666		05 VALUE ' COMP-4	, PIC X(33).	
1667		05 VALUE ' COMP-5	' PIC X(33).	
1668		05 VALUE ' COMP-6	' PIC X(33).	
1669		O5 VALUE ' COMP-X	, bic X(33).	
1670		O5 VALUE ' COMPUTATIONAL	' PIC X(33).	
1671		05 VALUE ' COMPUTATIONAL-1	' PIC X(33).	
1672		05 VALUE ' COMPUTATIONAL-2	, bic X(33).	
1673		05 VALUE ' COMPUTATIONAL-3	' PIC X(33).	
1674		05 VALUE ' COMPUTATIONAL-4	, bic x(33).	
1675		05 VALUE ' COMPUTATIONAL-5	' PIC X(33).	
1676		05 VALUE ' COMPUTATIONAL-X	' PIC X(33).	
1677		05 VALUE 'VCOMPUTE	' PIC X(33).	
	GC1213	05 VALUE 'FCONCATENATE	, PIC X(33).	
1679	GC0712	O5 VALUE ' CONDITION	'PIC X(33). 'PIC X(33).	
1680		O5 VALUE 'KCONFIGURATION O5 VALUE 'MCONSOLE	PIC X(33).	
1682		OS VALUE ' CONSTANT	PIC X(33).	
1683		OS VALUE CONTAINS	PIC X(33).	
	GC0712	OS VALUE 'ACONTENT	, bic x(33).	
1685		05 VALUE 'VCONTINUE	, bic x(33).	
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1686		05 VALUE ' CONTROL	, PIC X(33).	
1687		05 VALUE ' CONTROLS	, PIC X(33).	
1688	GC0711	O5 VALUE ' CONVERSION	, PIC X(33).	
1689		05 VALUE 'KCONVERTING	, PIC X(33).	
1690		O5 VALUE ' COPY	, PIC X(33).	
1691		05 VALUE ' CORR	, PIC X(33).	
1692		05 VALUE ' CORRESPONDING	, PIC X(33).	
1693	GC1213	05 VALUE 'FCOS	, bic X(33).	
1694		05 VALUE 'KCOUNT	, bic X(33).	
1695		05 VALUE ' CRT	, PIC X(33).	
1696		05 VALUE ' CRT-UNDER	, PIC X(33).	
1697		05 VALUE 'MCSP	, PIC X(33).	
1698		O5 VALUE ' CURRENCY	' PIC X(33).	
1699	GC1213	05 VALUE 'FCURRENCY-SYMBOL	' PIC X(33).	
1700	GC1213	05 VALUE 'FCURRENT-DATE	' PIC X(33).	
1701		05 VALUE ' CURSOR	' PIC X(33).	
1702		05 VALUE ' CYCLE	' PIC X(33).	
1703		O5 VALUE 'KDATA	' PIC X(33).	
1704		O5 VALUE ' DATA-POINTER	' PIC X(33).	UNIMPLEMENTED
1705		O5 VALUE ' DATE	' PIC X(33).	
1706		O5 VALUE ' DATE-COMPILED	' PIC X(33).	OBSOLETE
1707		O5 VALUE ' DATE-MODIFIED	' PIC X(33).	OBSOLETE
	GC1213	05 VALUE 'FDATE-OF-INTEGER	' PIC X(33).	
	GC1213	O5 VALUE 'FDATE-TO-YYYYMMDD	' PIC X(33).	
1710		O5 VALUE ' DATE-WRITTEN	' PIC X(33).	OBSOLETE
1711		O5 VALUE ' DAY	' PIC X(33).	
	GC1213	O5 VALUE 'FDAY-OF-INTEGER	, bic x(33).	
1713		O5 VALUE ' DAY-OF-WEEK	' PIC X(33).	
	GC1213	O5 VALUE 'IDAY-TO-YYYYDDD	' PIC X(33).	
1715		O5 VALUE ' DE	' PIC X(33).	
	GC0712	05 VALUE 'IDEBUG-CONTENTS	' PIC X(33).	
	GC0712	O5 VALUE 'IDEBUG-ITEM	' PIC X(33).	
	GC0712	05 VALUE 'IDEBUG-LINE	' PIC X(33).	
	GC0712	05 VALUE 'IDEBUG-NAME	' PIC X(33).	
	GC0712	05 VALUE 'IDEBUG-SUB-1	' PIC X(33).	
	GC0712	05 VALUE 'IDEBUG-SUB-2	' PIC X(33).	
	GC0712	05 VALUE 'IDEBUG-SUB-3	' PIC X(33).	
1723		O5 VALUE , DEGUMAL - DOINT	, PIC X(33).	
1724 1725		05 VALUE 'DECIMAL-POINT 05 VALUE 'DECLARATIVES	' PIC X(33). ' PIC X(33).	
1726		OS VALUE DECLARATIVES OS VALUE DECLARATIVES	, bic x(33).	
1727		OS VALUE DEFAULT	PIC X(33).	
1728		OS VALUE ' DELIMITED	PIC X(33).	
1729		05 VALUE 'KDELIMITER	PIC X(33).	
1730		O5 VALUE ' DEPENDING	, bic x(33).	
1731		05 VALUE 'DESCENDING	PIC X(33).	
1731		OS VALUE ' DESCENDING	, bic x(33).	UNIMPLEMENTED
1733		O5 VALUE ' DETAIL	, bic x(33).	
	GC0711	05 VALUE ' DISC	' PIC X(33).	
1735		05 VALUE ' DISK	, bic X(33).	
1736		05 VALUE 'VDISPLAY	, bic x(33).	
	GC1213	O5 VALUE 'FDISPLAY-OF	, bic x(33).	UNIMPLEMENTED
1738		O5 VALUE 'VDIVIDE	, bic x(33).	
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1739		O5 VALUE 'KDIVISION	, bic X(33).	
1740		O5 VALUE 'KDOWN	, bic x(33).	
1741		05 VALUE ' DUPLICATES	, PIC X(33).	
1742		O5 VALUE ' DYNAMIC	, PIC X(33).	
	GC1213	05 VALUE 'FE	, bic X(33).	
1744		O5 VALUE ' EBCDIC	, bic X(33).	
1745	GC0712	O5 VALUE ' EC	' PIC X(33).	
1746		O5 VALUE ' EGI	, PIC X(33).	OBSOLETE
1747		05 VALUE 'VELSE	' PIC X(33).	
1748		O5 VALUE ' EMI	' PIC X(33).	OBSOLETE
1749		O5 VALUE ' EMPTY-CHECK	, bic X(33).	
1750		O5 VALUE 'VENABLE	, bic X(33).	OBSOLETE
1751	GC0710	O5 VALUE 'KEND	, bic X(33).	
1752		O5 VALUE ' END-ACCEPT	, bic X(33).	
1753		O5 VALUE ' END-ADD	' PIC X(33).	
1754		O5 VALUE ' END-CALL	' PIC X(33).	
1755		O5 VALUE ' END-CHAIN	' PIC X(33).	UNIMPLEMENTED
1756		O5 VALUE ' END-COMPUTE	' PIC X(33).	
1757		05 VALUE ' END-DELETE	' PIC X(33).	
1758		05 VALUE ' END-DISPLAY	' PIC X(33).	
1759		O5 VALUE , END-DIVIDE	' PIC X(33).	
1760		OF VALUE , END TE	, bic x(33).	
1761		OF VALUE , END MILITIPLY	, PIC X(33).	
1762 1763		O5 VALUE ' END-MULTIPLY O5 VALUE ' END-OF-PAGE	' PIC X(33). ' PIC X(33).	
1764		OS VALUE ' END-PERFORM	PIC X(33).	
1765		OS VALUE ' END-READ	PIC X(33).	
1766		05 VALUE ' END-RECEIVE	' PIC X(33).	OBSOLETE
1767		O5 VALUE ' END-RETURN	' PIC X(33).	02002212
1768		O5 VALUE ' END-REWRITE	, bic x(33).	
1769		05 VALUE ' END-SEARCH	, bic X(33).	
1770		05 VALUE ' END-START	, PIC X(33).	
1771		05 VALUE ' END-STRING	, PIC X(33).	
1772		05 VALUE ' END-SUBTRACT	' PIC X(33).	
1773		05 VALUE ' END-UNSTRING	' PIC X(33).	
1774		O5 VALUE ' END-WRITE	, bic X(33).	
1775		O5 VALUE 'VENTRY	' PIC X(33).	
1776		O5 VALUE ' ENTRY-CONVENTION	' PIC X(33).	UNIMPLEMENTED
1777		O5 VALUE 'KENVIRONMENT	' PIC X(33).	
1778		O5 VALUE ' ENVIRONMENT-NAME	' PIC X(33).	
1779		05 VALUE ' ENVIRONMENT-VALUE	' PIC X(33).	
1780		O5 VALUE , EO	' PIC X(33).	UNIMPLEMENTED
1781		OF VALUE , EOD	' PIC X(33). ' PIC X(33).	
1782 1783		05 VALUE ' EOP 05 VALUE ' EOS	PIC X(33).	
1784		OS VALUE ' EQUAL	PIC X(33).	
1785		05 VALUE 'KEQUALS	PIC X(33).	
1786		OS VALUE ' ERASE	PIC X(33).	
1787		05 VALUE ' ERROR	' PIC X(33).	
1788		05 VALUE ' ESCAPE	, bic x(33).	
1789		05 VALUE ' ESI	, bic x(33).	OBSOLETE
1790		O5 VALUE 'VEVALUATE	, bic x(33).	
1791		O5 VALUE ' EXCEPTION	, bic X(33).	

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	GC1213	 O5 VALUE 'FEXCEPTION-FILE	' PIC X(33).	
	GC1213	O5 VALUE 'FEXCEPTION FILE-N	, bic x(33).	UNIMPLEMENTED
	GC1213	O5 VALUE 'FEXCEPTION-LOCATION	, bic x(33).	
	GC1213	O5 VALUE 'FEXCEPTION-LOCATION-N		UNIMPLEMENTED
1796		05 VALUE ' EXCEPTION-OBJECT	, bic x(33).	UNIMPLEMENTED
	GC1213	O5 VALUE 'FEXCEPTION-STATEMENT	, bic x(33).	
	GC1213	05 VALUE 'FEXCEPTION-STATUS	, bic X(33).	
1799		05 VALUE ' EXCLUSIVE	, PIC X(33).	
1800		O5 VALUE 'VEXIT	, PIC X(33).	
1801	GC1213	O5 VALUE 'FEXP	, PIC X(33).	
1802	GC1213	05 VALUE 'FEXP10	, PIC X(33).	
1803		O5 VALUE ' EXPANDS	, PIC X(33).	UNIMPLEMENTED
1804		O5 VALUE ' EXTEND	' PIC X(33).	
1805		O5 VALUE ' EXTERNAL	' PIC X(33).	
1806	GC1213	O5 VALUE 'FFACTORIAL	' PIC X(33).	
1807		O5 VALUE ' FACTORY	' PIC X(33).	UNIMPLEMENTED
1808		05 VALUE ' FALSE	, bic X(33).	
1809		O5 VALUE 'KFD	, bic X(33).	
1810		O5 VALUE 'KFILE	, bic X(33).	
1811		O5 VALUE ' FILE-CONTROL	, bic X(33).	
1812		O5 VALUE ' FILE-ID	, bic X(33).	
	GC1113	05 VALUE ' FILLER	, bic X(33).	
1814		O5 VALUE ' FINAL	' PIC X(33).	
1815		05 VALUE ' FIRST	' PIC X(33).	
	GC0712	05 VALUE ' FLOAT-BINARY-128	' PIC X(33).	UNIMPLEMENTED
	GC0712	O5 VALUE ' FLOAT BINARY-32	, big x(33).	UNIMPLEMENTED
	GC0712	O5 VALUE ' FLOAT DECIMAL 16	, bic x(33).	UNIMPLEMENTED
1819 1820		05 VALUE ' FLOAT-DECIMAL-16 05 VALUE ' FLOAT-DECIMAL-34	' PIC X(33). ' PIC X(33).	
1821		OS VALUE ' FLOAT-EXTENDED	, bic x(33).	UNIMPLEMENTED
	GC0712	OS VALUE ' FLOAT EXTENDED	, bic x(33).	UNIMPLEMENTED
1823		O5 VALUE ' FLOAT-LONG	, bic x(33).	
	GC0712	05 VALUE ' FLOAT-NOT-A-NUMBER	, bic X(33).	UNIMPLEMENTED
1825		05 VALUE ' FLOAT-SHORT	, bic X(33).	VII. 22. 22. 12. 12. 12. 12. 12. 12. 12. 12
1826		O5 VALUE ' FOOTING	, bic X(33).	
1827		O5 VALUE ' FOR	, PIC X(33).	
1828		05 VALUE ' FOREGROUND-COLOR	, PIC X(33).	
1829		O5 VALUE ' FOREGROUND-COLOUR	' PIC X(33).	
1830	GC0711	O5 VALUE ' FOREVER	' PIC X(33).	
1831		O5 VALUE ' FORMAT	, bic X(33).	UNIMPLEMENTED
1832	GC1213	05 VALUE 'FFORMATTED-CURRENT-DA'		UNIMPLEMENTED
1833	GC1213	05 VALUE 'FFORMATTED-DATE	, bic X(33).	UNIMPLEMENTED
	GC1213	05 VALUE 'FFORMATTED-DATETIME	, bic X(33).	UNIMPLEMENTED
	GC1213	05 VALUE 'FFORMATTED-TIME	' PIC X(33).	UNIMPLEMENTED
1836		05 VALUE 'MFORMFEED	' PIC X(33).	
	GC1213	05 VALUE 'FFRACTION-PART	' PIC X(33).	
1838		O5 VALUE , VFREE	, PIC X(33).	
1839 1840		05 VALUE ' FROM 05 VALUE ' FULL	' PIC X(33). ' PIC X(33).	
1841		O5 VALUE ' FULCTION	PIC X(33).	
	GC0712	O5 VALUE 'KFUNCTION-ID	, bic x(33).	
1843		O5 VALUE ' FUNCTION-POINTER	, bic x(33).	UNIMPLEMENTED
1844		O5 VALUE 'VGENERATE	, bic x(33).	711 IIII IIII I IIII
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1845		O5 VALUE ' GET	, bic X(33).	UNIMPLEMENTED
1846		O5 VALUE 'KGIVING	, bic X(33).	
1847		O5 VALUE ' GLOBAL	, bic X(33).	
1848		05 VALUE 'VGO	, PIC X(33).	
1849		O5 VALUE 'VGOBACK	, bic X(33).	
1850		O5 VALUE ' GREATER	, bic X(33).	
1851		O5 VALUE ' GROUP	, bic X(33).	
1852		05 VALUE ' GROUP-USAGE	, bic X(33).	UNIMPLEMENTED
1853		O5 VALUE ' HEADING	' PIC X(33).	
1854		O5 VALUE ' HIGH-VALUE	' PIC X(33).	
1855		05 VALUE ' HIGH-VALUES	' PIC X(33).	
1856	GC1213	05 VALUE 'FHIGHEST-ALGEBRAIC	' PIC X(33).	
1857		05 VALUE ' HIGHLIGHT	' PIC X(33).	
1858		05 VALUE ' I-O	' PIC X(33).	
1859		05 VALUE ' I-O-CONTROL	' PIC X(33).	
1860		O5 VALUE 'KID	' PIC X(33).	
1861		O5 VALUE 'KIDENTIFICATION	' PIC X(33).	
1862		05 VALUE 'VIF	' PIC X(33).	
1863		05 VALUE ' IGNORE	' PIC X(33).	
1864		O5 VALUE ' IGNORING	' PIC X(33).	
1865		05 VALUE ' IMPLEMENTS	, bic X(33).	UNIMPLEMENTED
1866		O5 VALUE ' IN	' PIC X(33).	
1867		O5 VALUE ' INDEX	' PIC X(33).	
1868		05 VALUE 'KINDEXED	' PIC X(33).	
1869		O5 VALUE ' INDICATE	' PIC X(33).	
1870		O5 VALUE ' INDIRECT	' PIC X(33).	UNIMPLEMENTED
1871		05 VALUE ' INHERITS	, PIC X(33).	UNIMPLEMENTED
1872 1873		05 VALUE ' INITIAL 05 VALUE 'VINITIALISE	' PIC X(33). ' PIC X(33).	
1874		O5 VALUE 'VINITIALISE O5 VALUE ' INITIALISED	PIC X(33).	
1875		OS VALUE 'VINITIALIZE	, bic x(33).	
1876		O5 VALUE ' INITIALIZED	, bic x(33).	
1877		O5 VALUE 'VINITIATE	, bic x(33).	
1878		O5 VALUE ' INPUT	, bic x(33).	
1879		O5 VALUE 'KINPUT-OUTPUT	, bic X(33).	
1880		05 VALUE 'VINSPECT	, bic X(33).	
1881		05 VALUE ' INSTALLATION	, bic X(33).	OBSOLETE
	GC1213	O5 VALUE 'FINTEGER	, PIC X(33).	
1883	GC1213	O5 VALUE 'FINTEGER-OF-BOOLEAN	, PIC X(33).	UNIMPLEMENTED
1884	GC1213	O5 VALUE 'FINTEGER-OF-DATE	' PIC X(33).	
1885	GC1213	O5 VALUE 'FINTEGER-OF-DAY	' PIC X(33).	
1886	GC1213	05 VALUE 'FINTEGER-OF-FORMATTED-DATE	' PIC X(33).	UNIMPLEMENTED
1887	GC1213	05 VALUE 'FINTEGER-PART	' PIC X(33).	
1888		O5 VALUE ' INTERFACE	' PIC X(33).	UNIMPLEMENTED
1889		O5 VALUE ' INTERFACE-ID	' PIC X(33).	UNIMPLEMENTED
1890		O5 VALUE ' INTERMEDIATE	' PIC X(33).	UNIMPLEMENTED
1891		O5 VALUE 'KINTO	' PIC X(33).	
1892		05 VALUE ' INTRINSIC	' PIC X(33).	
1893		O5 VALUE ' INVALID	' PIC X(33).	
1894		O5 VALUE ' INVOKE	, bic X(33).	UNIMPLEMENTED
1895		05 VALUE ' IS	' PIC X(33).	
1896		05 VALUE ' JUST	' PIC X(33).	
1897		05 VALUE ' JUSTIFIED	' PIC X(33).	

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1898		O5 VALUE ' KEPT	, PIC X(33).	
1899		O5 VALUE ' KEY	, bic X(33).	
1900		O5 VALUE ' KEYBOARD	, bic X(33).	
1901		O5 VALUE ' LABEL	, bic X(33).	
1902		O5 VALUE ' LAST	, bic X(33).	
1903		O5 VALUE ' LC_ALL	, bic X(33).	UNIMPLEMENTED
1904		O5 VALUE ' LC_COLLATE	, bic X(33).	UNIMPLEMENTED
1905		O5 VALUE ' LC_CTYPE	' PIC X(33).	UNIMPLEMENTED
1906		05 VALUE ' LC_MESSAGES	' PIC X(33).	UNIMPLEMENTED
1907		O5 VALUE ' LC_MONETARY	' PIC X(33).	UNIMPLEMENTED
1908		O5 VALUE ' LC_NUMERIC	' PIC X(33).	UNIMPLEMENTED
1909		O5 VALUE ' LC_TIME	' PIC X(33).	UNIMPLEMENTED
1910		O5 VALUE ' LEADING	' PIC X(33).	
1911		O5 VALUE ' LEFT	' PIC X(33).	
1912		O5 VALUE ' LEFT-JUSTIFY	, PIC X(33).	UNIMPLEMENTED
1913		O5 VALUE ' LEFTLINE	, bic X(33).	
1914	GC1213	O5 VALUE 'FLENGTH	, PIC X(33).	
1915	GC1213	O5 VALUE 'FLENGTH-AN	' PIC X(33).	
1916		O5 VALUE ' LENGTH-CHECK	' PIC X(33).	
1917		05 VALUE ' LESS	' PIC X(33).	
1918		O5 VALUE ' LIMIT	' PIC X(33).	
1919		05 VALUE ' LIMITS	' PIC X(33).	
1920		O5 VALUE ' LINAGE	' PIC X(33).	
1921		O5 VALUE 'ILINAGE-COUNTER	, bic X(33).	
1922		O5 VALUE ' LINE	' PIC X(33).	
	GC1213	O5 VALUE 'ILINE-COUNTER	' PIC X(33).	
1924		O5 VALUE ' LINES	' PIC X(33).	
1925		O5 VALUE 'KLINKAGE	' PIC X(33).	
1926		05 VALUE 'KLOCAL-STORAGE	' PIC X(33).	
1927		05 VALUE ' LOCALE	' PIC X(33).	
	GC1213	05 VALUE 'FLOCALE-COMPARE	' PIC X(33).	
	GC1213	05 VALUE 'FLOCALE-DATE	' PIC X(33).	
	GC1213	05 VALUE 'FLOCALE-TIME	' PIC X(33).	
	GC1213	05 VALUE 'FLOCALE-TIME-FROM-SECONDS	' PIC X(33).	
1932	001010	O5 VALUE , LOCK	' PIC X(33).	
	GC1213	O5 VALUE 'FLOG	, PIC X(33).	
	GC1213	05 VALUE 'FLOG10	' PIC X(33). ' PIC X(33).	
1935 1936		O5 VALUE ' LOW-VALUE O5 VALUE ' LOW-VALUES	PIC X(33).	
1937		O5 VALUE ' LOWER	, bic x(33).	
	GC1213	05 VALUE 'FLOWER-CASE	, bic x(33).	
	GC1213	05 VALUE 'FLOWER-CASE 05 VALUE 'FLOWEST-ALGEBRAIC	, bic x(33).	
1940	GC1215	O5 VALUE ' LOWLIGHT	, bic x(33).	
1941		O5 VALUE ' MANUAL	, bic x(33).	
	GC1213	O5 VALUE 'FMAX	, bic x(33).	
	GC1213	O5 VALUE 'FMEAN	, bic x(33).	
	GC1213	O5 VALUE 'FMEDIAN	, bic x(33).	
1945		O5 VALUE ' MEMORY	, bic X(33).	
1946		O5 VALUE 'VMERGE	, bic x(33).	
1947		05 VALUE ' MESSAGE	, bic X(33).	OBSOLETE
1948		O5 VALUE ' METHOD	, bic X(33).	UNIMPLEMENTED
1949		O5 VALUE ' METHOD-ID	, bic X(33).	UNIMPLEMENTED
	GC1213	O5 VALUE 'FMIDRANGE	, bic X(33).	

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	GC1213	O5 VALUE 'FMIN	' PIC X(33).	
1952	gg1010	05 VALUE ' MINUS	' PIC X(33).	
	GC1213	O5 VALUE 'FMOD	' PIC X(33).	
1954	~~	05 VALUE ' MODE	' PIC X(33).	
	GC1213	O5 VALUE 'FMODULE-CALLER-ID	' PIC X(33).	
	GC1213	05 VALUE 'FMODULE-DATE	' PIC X(33).	
	GC1213	05 VALUE 'FMODULE-FORMATTED-DATE	' PIC X(33).	
	GC1213	05 VALUE 'FMODULE-ID	' PIC X(33).	
	GC1213	05 VALUE 'FMODULE-PATH	' PIC X(33).	
	GC1213	05 VALUE 'FMODULE-SOURCE	' PIC X(33).	
	GC1213	05 VALUE 'FMODULE-TIME	' PIC X(33).	
	GC1213	05 VALUE 'FMONETARY-DECIMAL-POINT	, bic X(33).	
	GC1213	05 VALUE 'FMONETARY-THOUSANDS-SEPARATOR		
1964		05 VALUE 'VMOVE	' PIC X(33).	
1965		05 VALUE ' MULTIPLE	' PIC X(33).	
1966	000744	05 VALUE 'VMULTIPLY	' PIC X(33).	
	GC0711	O5 VALUE ' NAME	' PIC X(33).	
1968		O5 VALUE ' NATIONAL	' PIC X(33).	
1969	gg1010	O5 VALUE 'NATIONAL-EDITED	' PIC X(33).	INTERNIT DISTRIBUTED
	GC1213	O5 VALUE 'FNATIONAL-OF	, bic X(33).	UNIMPLEMENTED
1971		O5 VALUE , NATIVE	' PIC X(33).	
1972		05 VALUE 'NEAREST-AWAY-FROM-ZERO	' PIC X(33).	
1973		O5 VALUE ' NEAREST-EVEN	' PIC X(33).	
1974		05 VALUE 'NEAREST-TOWARD-ZERO	' PIC X(33).	
1975		O5 VALUE ' NEGATIVE	, bic X(33).	INTERNIT DISTRIBUTED
1976		05 VALUE 'NESTED	' PIC X(33).	UNIMPLEMENTED
1977		O5 VALUE 'VNEXT	' PIC X(33).	
1978		O5 VALUE , NO EGNO	, PIC X(33).	
1979		05 VALUE ' NO-ECHO	' PIC X(33).	IINTMDI EMENTED
1980		O5 VALUE , NONE	' PIC X(33).	UNIMPLEMENTED
1981		O5 VALUE , NORMAL	' PIC X(33).	
1982		O5 VALUE , NOT	' PIC X(33). ' PIC X(33).	
1983		O5 VALUE ' NULL	PIC X(33).	
1984		O5 VALUE , NULLS	PIC X(33).	
1985		O5 VALUE , NUMBER		
1986 1987		O5 VALUE 'INUMBER-OF-CALL-PARAMETERS O5 VALUE 'NUMBERS	' PIC X(33). ' PIC X(33).	
1988		O5 VALUE 'NUMERIC	, bic X(33).	
	GC1213	05 VALUE 'FNUMERIC-DECIMAL-POINT	, bic x(33).	
1990	GC1213	O5 VALUE ' NUMERIC-EDITED	, bic x(33).	
	CC1212		, bic x(33).	
	GC1213 GC1213	05 VALUE 'FNUMERIC-THOUSANDS-SEPARATOR 05 VALUE 'FNUMVAL	, bic x(33).	
	GC1213	O5 VALUE 'FNUMVAL-C	, bic x(33).	
	GC1213	O5 VALUE 'FNUMVAL-C	, bic x(33).	
1995	GC1213	O5 VALUE , OBJECT	, bic x(33).	UNIMPLEMENTED
1996		O5 VALUE OBJECT-COMPUTER	, bic x(33).	ON THE LEMENTED
1997		O5 VALUE 'OBJECT-REFERENCE	, bic x(33).	UNIMPLEMENTED
1998		05 VALUE ' OCCURS	, bic x(33).	
1999		O5 VALUE OCCORS	, bic x(33).	
2000		O5 VALUE OFF	, bic x(33).	
2000		O5 VALUE OFF	, bic x(33).	
2001		O5 VALUE ON ON	, bic x(33).	
2002		O5 VALUE ONLY	PIC X(33).	
2000		oo ahaa	110 A(00).	

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2004		 O5 VALUE 'VOPEN	, PIC X(33).	
2005		O5 VALUE , OPTIONAL	, bic X(33).	
2006		O5 VALUE ' OPTIONS	, bic X(33).	UNIMPLEMENTED
2007		O5 VALUE ' OR	, bic X(33).	
2008	GC1213	O5 VALUE 'FORD	, PIC X(33).	
2009	GC1213	O5 VALUE 'FORD-MAX	, PIC X(33).	
2010	GC1213	O5 VALUE 'FORD-MIN	, bic X(33).	
2011		O5 VALUE ' ORDER	, bic X(33).	
2012		O5 VALUE 'ORGANISATION	' PIC X(33).	
2013		O5 VALUE ' ORGANIZATION	' PIC X(33).	
2014		O5 VALUE ' OTHER	' PIC X(33).	
2015		O5 VALUE ' OUTPUT	' PIC X(33).	
2016		O5 VALUE ' OVERFLOW	' PIC X(33).	
2017		O5 VALUE ' OVERLINE	' PIC X(33).	
2018		O5 VALUE ' OVERRIDE	' PIC X(33).	
2019		05 VALUE ' PACKED-DECIMAL	' PIC X(33).	
2020		O5 VALUE , PADDING	, PIC X(33).	
2021	GC1213	05 VALUE ' PAGE 05 VALUE 'IPAGE-COUNTER	' PIC X(33). ' PIC X(33).	
2022	GC1213	O5 VALUE ' PARAGRAPH	PIC X(33).	
2023		O5 VALUE 'VPERFORM	, bic x(33).	
2025		O5 VALUE ' PF	, bic x(33).	
2026		O5 VALUE ' PH	, bic x(33).	
	GC1213	O5 VALUE 'FPI	, bic x(33).	
2028		05 VALUE 'KPIC	, bic X(33).	
2029		O5 VALUE 'KPICTURE	, bic X(33).	
2030		O5 VALUE ' PLUS	, bic X(33).	
2031		O5 VALUE 'KPOINTER	, bic X(33).	
2032		O5 VALUE ' POSITION	' PIC X(33).	
2033		O5 VALUE ' POSITIVE	, bic X(33).	
2034		O5 VALUE ' PREFIXED	' PIC X(33).	UNIMPLEMENTED
2035		O5 VALUE ' PRESENT	, bic x(33).	
	GC1213	05 VALUE 'FPRESENT-VALUE	' PIC X(33).	
2037		05 VALUE ' PREVIOUS	' PIC X(33).	
2038		O5 VALUE 'MPRINTER	' PIC X(33).	
2039		O5 VALUE , PRINTING	, PIC X(33).	
2040 2041		05 VALUE 'KPROCEDURE 05 VALUE 'PROCEDURE-POINTER	'PIC X(33). 'PIC X(33).	
2041		05 VALUE ' PROCEDURES	, bic x(33).	
2042		O5 VALUE ' PROCEED	, bic x(33).	
2044		O5 VALUE ' PROGRAM	, bic X(33).	
2045		05 VALUE 'KPROGRAM-ID	' PIC X(33).	
2046		O5 VALUE ' PROGRAM-POINTER	, bic X(33).	
2047		O5 VALUE ' PROHIBITED	, PIC X(33).	
2048		O5 VALUE ' PROMPT	, PIC X(33).	
2049		O5 VALUE ' PROPERTY	, bic X(33).	UNIMPLEMENTED
2050		O5 VALUE ' PROTOTYPE	, bic X(33).	UNIMPLEMENTED
2051		O5 VALUE ' PURGE	' PIC X(33).	OBSOLETE
2052		O5 VALUE , QUEUE	' PIC X(33).	OBSOLETE
2053		O5 VALUE ' QUOTE	' PIC X(33).	
2054		O5 VALUE , QUOTES	' PIC X(33).	IINTMDI EMPVERE
2055		O5 VALUE , RAISE	'PIC X(33). 'PIC X(33).	UNIMPLEMENTED
2056		O5 VALUE ' RAISING	PIC A(33).	UNIMPLEMENTED

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	GC1213		, bic x(33).	
	GC1213	05 VALUE 'FRANGE	, bic x(33).	
	GC1213	05 VALUE 'KRD	, bic x(33).	
2060	U01210	O5 VALUE 'VREAD	, bic x(33).	
2061		O5 VALUE 'VREADY	, bic x(33).	
2062		O5 VALUE 'VRECEIVE	, bic x(33).	OBSOLETE
2063		O5 VALUE ' RECORD	, bic x(33).	ODSOLETE
2064		O5 VALUE ' RECORDING	, bic x(33).	
2065		O5 VALUE ' RECORDS	, bic x(33).	
2066		05 VALUE ' RECURSIVE	' PIC X(33).	
2067		05 VALUE 'KREDEFINES	, bic x(33).	
2068		05 VALUE ' REEL	' PIC X(33).	
	GC0712	05 VALUE 'AREFERENCE	' PIC X(33).	
2070	400112	05 VALUE 'REFERENCES	' PIC X(33).	
2071		O5 VALUE ' RELATION	, bic x(33).	UNIMPLEMENTED
2072		05 VALUE ' RELATIVE	, bic x(33).	VIVIII 22.12.112
2073		05 VALUE 'VRELEASE	, bic x(33).	
	GC1213	O5 VALUE 'FREM	, bic X(33).	
2075		O5 VALUE ' REMAINDER	' PIC X(33).	
2076		05 VALUE ' REMARKS	' PIC X(33).	OBSOLETE
2077		05 VALUE ' REMOVAL	' PIC X(33).	
2078		05 VALUE 'KRENAMES	' PIC X(33).	
2079		O5 VALUE ' REPLACE	' PIC X(33).	
2080		05 VALUE 'KREPLACING	' PIC X(33).	
2081		05 VALUE 'KREPORT	' PIC X(33).	
2082		O5 VALUE ' REPORTING	' PIC X(33).	
2083		05 VALUE ' REPORTS	' PIC X(33).	
2084		05 VALUE ' REPOSITORY	' PIC X(33).	
2085		05 VALUE ' REQUIRED	' PIC X(33).	
2086		05 VALUE ' RESERVE	, PIC X(33).	
2087		05 VALUE 'VRESET	' PIC X(33).	
2088		05 VALUE ' RESUME	' PIC X(33).	UNIMPLEMENTED
2089		O5 VALUE ' RETRY	' PIC X(33).	UNIMPLEMENTED
2090		O5 VALUE 'VRETURN	' PIC X(33).	
2091		O5 VALUE 'IRETURN-CODE	' PIC X(33).	
2092		05 VALUE 'KRETURNING	' PIC X(33).	
2093	GC1213	05 VALUE 'FREVERSE	' PIC X(33).	
2094		05 VALUE ' REVERSE-VIDEO	' PIC X(33).	
2095		O5 VALUE ' REVERSED	' PIC X(33).	
2096		O5 VALUE ' REWIND	' PIC X(33).	
2097		05 VALUE 'VREWRITE	' PIC X(33).	
2098		05 VALUE ' RF	' PIC X(33).	
2099		05 VALUE ' RH	' PIC X(33).	
2100		05 VALUE ' RIGHT	' PIC X(33).	
2101		05 VALUE ' RIGHT-JUSTIFY	' PIC X(33).	UNIMPLEMENTED
2102		05 VALUE 'VROLLBACK	' PIC X(33).	
2103		05 VALUE ' ROUNDED	' PIC X(33).	
2104		O5 VALUE ' ROUNDING	' PIC X(33).	UNIMPLEMENTED
2105		O5 VALUE ' RUN	' PIC X(33).	
2106		O5 VALUE 'SAME	' PIC X(33).	
2107		05 VALUE 'KSCREEN	' PIC X(33).	
2108		05 VALUE 'SCROLL	' PIC X(33).	
2109		05 VALUE 'KSD	, PIC X(33).	

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2110		05 VALUE 'VSEARCH	' PIC X(33).	
2111		05 VALUE ' SECONDS	' PIC X(33).	UNIMPLEMENTED
	GC1213	05 VALUE 'FSECONDS-FROM-FORMATTED-TIME	' PIC X(33).	
	GC1213	05 VALUE 'FSECONDS-PAST-MIDNIGHT	' PIC X(33).	
2114		05 VALUE 'KSECTION	' PIC X(33).	
2115		05 VALUE ' SECURE	' PIC X(33).	0D001 EEE
2116		05 VALUE 'SECURITY	' PIC X(33).	OBSOLETE
2117		05 VALUE ' SEGMENT	' PIC X(33).	OBSOLETE
2118		O5 VALUE ' SEGMENT-LIMIT	' PIC X(33).	
2119		05 VALUE ' SELECT	' PIC X(33).	IINTADI EMENTED
2120		05 VALUE ' SELF	' PIC X(33).	UNIMPLEMENTED
2121		05 VALUE 'VSEND	' PIC X(33).	OBSOLETE
2122		O5 VALUE ' SENTENCE	' PIC X(33).	
2123		05 VALUE ' SEPARATE	' PIC X(33).	
2124		05 VALUE ' SEQUENCE	' PIC X(33).	
2125		05 VALUE ' SEQUENTIAL	' PIC X(33). ' PIC X(33).	
2126		O5 VALUE 'VSET		
2127		05 VALUE ' SHARING	' PIC X(33).	
	GC1213	05 VALUE 'FSIGN	' PIC X(33).	
2129		05 VALUE ' SIGNED	' PIC X(33).	
2130		05 VALUE , SIGNED-INT	' PIC X(33).	
2131		05 VALUE 'SIGNED-LONG	' PIC X(33).	
2132		05 VALUE 'SIGNED-SHORT	' PIC X(33).	
	GC1213	05 VALUE 'FSIN	' PIC X(33).	
2134		O5 VALUE ' SIZE	' PIC X(33).	
2135		05 VALUE 'VSORT	' PIC X(33).	
2136		O5 VALUE ' SORT-MERGE	' PIC X(33).	
2137		05 VALUE 'ISORT-RETURN	' PIC X(33).	
2138		05 VALUE ' SOURCE	' PIC X(33).	
2139		05 VALUE ' SOURCE-COMPUTER	' PIC X(33).	IINTADI PARATED
2140		05 VALUE ' SOURCES	' PIC X(33).	UNIMPLEMENTED
2141		05 VALUE ' SPACE	' PIC X(33).	IINTADI PARATED
2142		05 VALUE ' SPACE-FILL	' PIC X(33).	UNIMPLEMENTED
2143		05 VALUE ' SPACES	' PIC X(33).	
2144		05 VALUE ' SPECIAL-NAMES	' PIC X(33).	
	GC1213	05 VALUE 'FSQRT	' PIC X(33). ' PIC X(33).	
2146		OF VALUE , STANDARD 1		
2147		05 VALUE ' STANDARD-1 05 VALUE ' STANDARD-2	, bic X(33).	
2148			' PIC X(33). ' PIC X(33).	IINTADI EMENTED
2149	001012	05 VALUE 'STANDARD COMPARE		UNIMPLEMENTED
	GC1213	05 VALUE 'FSTANDARD DECIMAL	' PIC X(33).	UNIMPLEMENTED
2151	001010	05 VALUE 'STANDARD DEVIATION	' PIC X(33).	UNIMPLEMENTED
	GC1213	05 VALUE 'FSTANDARD-DEVIATION	' PIC X(33).	
2153		05 VALUE 'VSTART	' PIC X(33).	IINTADI PARATED
2154		O5 VALUE 'STATEMENT	' PIC X(33).	UNIMPLEMENTED
2155 2156		O5 VALUE ' STATIC O5 VALUE ' STATUS	' PIC X(33).	
2156		05 VALUE 'STATUS 05 VALUE 'STDCALL	' PIC X(33). ' PIC X(33).	
2157			PIC X(33).	
2158		O5 VALUE 'MSTDERR O5 VALUE 'MSTDIN	PIC X(33).	
			, bic x(33).	
2160		O5 VALUE 'MSTDOUT		
2161		O5 VALUE , STEP	' PIC X(33).	
2162		05 VALUE 'VSTOP	' PIC X(33).	

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2163	GC1213	05 VALUE 'FSTORED-CHAR-LENGTH	, bic X(33).	
2164		05 VALUE 'VSTRING	' PIC X(33).	
2165		05 VALUE 'STRONG	' PIC X(33).	UNIMPLEMENTED
2166		05 VALUE ' SUB-QUEUE-1	' PIC X(33).	OBSOLETE
2167		05 VALUE ' SUB-QUEUE-2	' PIC X(33).	OBSOLETE
2168		05 VALUE ' SUB-QUEUE-3	' PIC X(33).	OBSOLETE
2169	GC1213	05 VALUE 'FSUBSTITUTE	' PIC X(33).	
2170	GC1213	05 VALUE 'FSUBSTITUTE-CASE	' PIC X(33).	
2171		05 VALUE 'VSUBTRACT	, PIC X(33).	
2172	GC1213	05 VALUE 'FSUM	, PIC X(33).	
2173		05 VALUE ' SUPER	' PIC X(33).	UNIMPLEMENTED
2174		05 VALUE 'VSUPPRESS	' PIC X(33).	
2175		05 VALUE 'MSWO	, bic X(33).	
2176		05 VALUE 'MSW1	' PIC X(33).	
2177		05 VALUE 'MSW10	' PIC X(33).	
2178		05 VALUE 'MSW11	' PIC X(33).	
2179		05 VALUE 'MSW12	' PIC X(33).	
2180		05 VALUE 'MSW13	' PIC X(33).	
2181		05 VALUE 'MSW14	' PIC X(33).	
2182		05 VALUE 'MSW15	' PIC X(33).	
2183		05 VALUE 'MSW2	' PIC X(33).	
2184		05 VALUE 'MSW3	' PIC X(33).	
2185		05 VALUE 'MSW4	' PIC X(33).	
2186		05 VALUE 'MSW5	' PIC X(33).	
2187		05 VALUE 'MSW6	' PIC X(33).	
2188		O5 VALUE 'MSW7	'PIC X(33).	
2189		05 VALUE 'MSW8	' PIC X(33).	
2190		05 VALUE 'MSW9	' PIC X(33).	
2191		05 VALUE 'MSWITCH-0	' PIC X(33).	
2192		05 VALUE 'MSWITCH-1	' PIC X(33).	
2193		05 VALUE 'MSWITCH-10	' PIC X(33).	
2194		05 VALUE 'MSWITCH-11	' PIC X(33).	
2195		05 VALUE 'MSWITCH-12 05 VALUE 'MSWITCH-13	' PIC X(33). ' PIC X(33).	
2196 2197		05 VALUE 'MSWITCH-13	PIC X(33).	
2197		05 VALUE 'MSWITCH-14	PIC X(33).	
2198		05 VALUE 'MSWITCH-15	PIC X(33).	
2200		05 VALUE 'MSWITCH-3	PIC X(33).	
2200		05 VALUE 'MSWITCH-4	PIC X(33).	
2202		05 VALUE 'MSWITCH-5	, bic x(33).	
2203		05 VALUE 'MSWITCH-6	, bic x(33).	
2204		05 VALUE 'MSWITCH-7	' PIC X(33).	
2205		05 VALUE 'MSWITCH-8	' PIC X(33).	
2206		05 VALUE 'MSWITCH-9	' PIC X(33).	
2207		05 VALUE ' SYMBOL	, PIC X(33).	UNIMPLEMENTED
2208		05 VALUE ' SYMBOLIC	, PIC X(33).	
2209		O5 VALUE ' SYNC	, bic X(33).	
2210		05 VALUE ' SYNCHRONISED	, bic X(33).	
2211		O5 VALUE ' SYNCHRONIZED	, bic X(33).	
2212		05 VALUE 'MSYSERR	' PIC X(33).	
2213		05 VALUE 'MSYSIN	' PIC X(33).	
2214		05 VALUE 'MSYSIPT	' PIC X(33).	
2215		05 VALUE 'MSYSLIST	, bic X(33).	

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2217		05 VALUE 'MSYSOUT	' PIC X(33).	
2218		05 VALUE ' SYSTEM-DEFAULT	' PIC X(33).	
2219		O5 VALUE ' TABLE	' PIC X(33).	UNIMPLEMENTED
2220		O5 VALUE 'KTALLYING	' PIC X(33).	
2221	GC1213	O5 VALUE 'FTAN	' PIC X(33).	
2222		O5 VALUE ' TAPE	' PIC X(33).	
2223		O5 VALUE ' TERMINAL	' PIC X(33).	OBSOLETE
2224		O5 VALUE 'VTERMINATE	, bic X(33).	
2225		O5 VALUE ' TEST	' PIC X(33).	
2226	GC1213	05 VALUE 'FTEST-DATE-YYYYMMDD	' PIC X(33).	
2227	GC1213	05 VALUE 'FTEST-DAY-YYYYDDD	' PIC X(33).	
	GC1213	05 VALUE 'FTEST-FORMATTED-DATETIME	' PIC X(33).	UNIMPLEMENTED
2229	GC1213	05 VALUE 'FTEST-NUMVAL	' PIC X(33).	
2230	GC1213	05 VALUE 'FTEST-NUMVAL-C	' PIC X(33).	
	GC1213	05 VALUE 'FTEST-NUMVAL-F	' PIC X(33).	
2232		O5 VALUE ' TEXT	' PIC X(33).	OBSOLETE
2233		O5 VALUE ' THAN	' PIC X(33).	
2234		O5 VALUE ' THEN	' PIC X(33).	
2235		O5 VALUE ' THROUGH	' PIC X(33).	
2236		O5 VALUE ' THRU	' PIC X(33).	
2237		O5 VALUE ' TIME	' PIC X(33).	
	GC0711	O5 VALUE ' TIME-OUT	' PIC X(33).	
	GC0711	O5 VALUE ' TIMEOUT	' PIC X(33).	
2240		05 VALUE 'TIMES	' PIC X(33).	
2241		O5 VALUE 'KTO	' PIC X(33).	
2242		O5 VALUE , TOP	' PIC X(33).	
2243		O5 VALUE , TOWARD-GREATER	' PIC X(33).	
2244 2245		05 VALUE ' TOWARD-LESSER	' PIC X(33).	
2245		O5 VALUE 'TRAILING O5 VALUE 'TRAILING-SIGN	' PIC X(33). ' PIC X(33).	IINTMDI EMENTED
2240		05 VALUE 'VTRANSFORM	PIC X(33).	UNIMPLEMENTED
	GC1213	O5 VALUE 'FTRIM	, bic x(33).	
2249	GC1213	O5 VALUE , TRUE	, bic x(33).	
2250		O5 VALUE ' TRUNCATION	, bic x(33).	
2251		O5 VALUE ' TYPE	, bic x(33).	
2252		O5 VALUE ' TYPEDEF	, bic x(33).	UNIMPLEMENTED
2253		O5 VALUE ' UCS-4	, bic x(33).	UNIMPLEMENTED
2254		O5 VALUE ' UNDERLINE	, bic X(33).	VII.1.II
2255		O5 VALUE ' UNIT	, bic X(33).	
2256		05 VALUE 'UNIVERSAL	, bic X(33).	UNIMPLEMENTED
2257		O5 VALUE 'VUNLOCK	, bic X(33).	
2258		O5 VALUE ' UNSIGNED	, bic X(33).	
2259		O5 VALUE ' UNSIGNED-INT	, bic X(33).	
2260		O5 VALUE ' UNSIGNED-LONG	, PIC X(33).	
2261		05 VALUE ' UNSIGNED-SHORT	, PIC X(33).	
2262		05 VALUE 'VUNSTRING	, PIC X(33).	
2263		O5 VALUE ' UNTIL	' PIC X(33).	
2264		O5 VALUE 'KUP	, PIC X(33).	
2265		O5 VALUE ' UPDATE	' PIC X(33).	
2266		O5 VALUE ' UPON	, bic X(33).	
2267		O5 VALUE ' UPPER	' PIC X(33).	
2268	GC1213	05 VALUE 'FUPPER-CASE	, bic X(33).	

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2269		O5 VALUE ' USAGE	, PIC X(33).	
2270		05 VALUE 'VUSE	' PIC X(33).	
2271	GC0711	05 VALUE ' USER	' PIC X(33).	
2272		05 VALUE ' USER-DEFAULT	' PIC X(33).	
2273		05 VALUE 'KUSING	, bic X(33).	
2274		05 VALUE ' UTF-16	' PIC X(33).	UNIMPLEMENTED
2275		05 VALUE ' UTF-8	' PIC X(33).	UNIMPLEMENTED
2276		05 VALUE ' VAL-STATUS	' PIC X(33).	UNIMPLEMENTED
2277		O5 VALUE ' VALID	' PIC X(33).	UNIMPLEMENTED
2278		O5 VALUE ' VALIDATE	' PIC X(33).	UNIMPLEMENTED
2279		O5 VALUE ' VALIDATE-STATUS	' PIC X(33).	UNIMPLEMENTED
2280	GC0712	O5 VALUE 'AVALUE	' PIC X(33).	
2281		O5 VALUE ' VALUES	' PIC X(33).	
2282	GC1213	O5 VALUE 'FVARIANCE	' PIC X(33).	
2283		O5 VALUE 'KVARYING	' PIC X(33).	
2284		05 VALUE ' VDISABLE	' PIC X(33).	UNIMPLEMENTED
2285		O5 VALUE ' WAIT	' PIC X(33).	
2286		O5 VALUE 'VWHEN	, bic X(33).	
2287	GC1213	O5 VALUE 'FWHEN-COMPILED	' PIC X(33).	
2288		O5 VALUE ' WITH	' PIC X(33).	
2289		O5 VALUE ' WORDS	, bic X(33).	
2290		O5 VALUE 'KWORKING-STORAGE	, bic X(33).	
2291		O5 VALUE 'VWRITE	' PIC X(33).	
2292	GC1213	O5 VALUE 'FYEAR-TO-YYYY	' PIC X(33).	
2293		O5 VALUE ' YYYYDDD	' PIC X(33).	
2294		O5 VALUE ' YYYYMMDD	' PIC X(33).	
2295		O5 VALUE ' ZERO	' PIC X(33).	
2296		05 VALUE ' ZERO-FILL	' PIC X(33).	UNIMPLEMENTED
2297		O5 VALUE ' ZEROES	' PIC X(33).	
2298		05 VALUE ' ZEROS	' PIC X(33).	
2299	01	WS-Reserved-Word-Table-TXT REDEFINES	WS-Reserved-Words-TXT.	
2300	GC1113	05 WS-Reserved-Word-TXT OCCURS	754 TIMES	
2301			ASCENDING KEY	
2302			WS-RW-Word-TXT	
2303			INDEXED WS-RW-IDX.	
2304		10 WS-RW-Type-CD	PIC X(1).	
2305		10 WS-RW-Word-TXT	PIC X(32).	
2306				
2307		WS-Runtime-Switches.		
	GC0710	05 WS-RS-Duplicate-CHR	PIC X(1).	
2309		_	PIC X(1).	
2310		88 WS-RS-In-Main-Module-BOOL	VALUE 'M'.	
2311		88 WS-RS-In-Copybook-B00L	VALUE 'C'.	
2312		05 WS-RS-Last-Token-Ended-Sent-CHR	PIC X(1).	
2313		05 WS-RS-Processing-PICTURE-CHR	PIC X(1).	
2314		05 WS-RS-Token-Ended-Sentence-CHR	PIC X(1).	
	GC0710	05 WS-RS-Verb-Has-Been-Found-CHR	PIC X(1).	
2316		ua a la la mum	DIG #(45)	
2317		WS-Saved-Section-TXT	PIC X(15).	
2318		wa a b i mum		
	GC1213 01	WS-Src-Dashes-TXT.	DIG #(7)	
	GC0712	O5 VALUE '====='	PIC X(7).	
2321	GC0712	O5 VALUE ALL '='	PIC X(128).	

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Line	Stateme			Page: 53
2322				
2323		01	WS-Src-Detail-Line-TXT.	
2324			05 WS-SDL-Line-NUM	PIC ZZZZZ9.
2325			05 FILLER	PIC X(1).
2326			05 WS-SDL-Statement-TXT	PIC X(256).
2327				
2328	GC1213	01	WS-Src-Hold-TXT	PIC X(256).
2329				
2330		01	WS-Src-Line-NUM	PIC 9(6).
2331				
2332	GC1213	01	WS-Src-Lines-NUM	USAGE BINARY-LONG.
2333				
2334		01	WS-Src-SUB	USAGE BINARY-LONG.
2335				
2336		01	WS-Tally-QTY	USAGE BINARY-LONG.
2337		0.4	LIG III AO OL IIIVIII	DTG #(40)
2338		01	WS-Temp-10-Chars-TXT	PIC X(10).
2339		01	UC-Town-20-Chang-1-TVT	DIC V(20)
2340 2341		01	WS-Temp-32-Chars-1-TXT	PIC X(32).
		Ω1	WS-Temp-32-Chars-2-TXT	PIC X(32).
2342		01	wo lemp 32 chars 2 lkl	110 X(32).
		01	WS-Temp-32-Chars-3-TXT	PIC X(32).
2345		01	WB Temp 02 OndrB 0 TAT	110 K(02).
		01	WS-Temp-65-Chars-TXT	PIC X(65).
2347		0_	ms remp oo enars iii	120 11(00)
2348		01	WS-Temp-256-Chars-TXT	PIC X(256).
2349			•	
2350		01	WS-Today-DT	PIC 9(8).
2351				
2352		01	WS-Token-Curr-TXT	PIC X(32).
2353				
2354		01	WS-Token-Curr-Uc-TXT	PIC X(32).
2355				
2356		01	WS-Token-Prev-TXT	PIC X(32).
2357				(00)
2358		01	WS-Token-Search-TXT	PIC X(32).
2359		0.4	11G III 1 III GD	DTG W(4)
2360		01	WS-Token-Type-CD	PIC X(1).
	GC0712		88 WS-TT-Token-Is-Argtype-BOOL	VALUE 'A'.
2362			88 WS-TT-Token-Is-E0F-B00L	VALUE HIGH-VALUES.
2363	GC1213		88 WS-TT-Token-Is-Function-BOOL 88 WS-TT-Token-Is-Identifier-BOOL	VALUE 'F'.
	GC0712		88 WS-TT-Token-Is-Keyword-BOOL	VALUE 'I'. VALUE 'K', 'V', 'A'.
2366			88 WS-TT-Token-Is-Lit-Alpha-BOOL	VALUE 'L'.
2367			88 WS-TT-Token-Is-Lit-Number-BOOL	VALUE 'N'.
2368			88 WS-TT-Token-Is-Verb-BOOL	VALUE 'V'.
	GC1213		88 WS-TT-Token-Is-Reserved-Wd-BOOL	VALUE '', 'F'.
2370				, - .
2371		01	WS-Usernames-QTY	USAGE BINARY-LONG.
2372			•	
2373		01	WS-Version-TXT	PIC X(23).
2374				

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Line	Stateme				Page: 54
2375	======		======================================		=========
2376			05 WS-XDL-Prog-ID-TXT	PIC X(15).	
2377			05 FILLER	PIC X(1).	
2378			05 WS-XDL-Token-TXT	PIC X(32).	
2379			05 FILLER	PIC X(1).	
2380			05 WS-XDL-Def-Line-NUM	PIC ZZZZZ9.	
2381			05 FILLER	PIC X(1).	
2382			05 WS-XDL-Section-TXT	PIC X(15).	
2383			05 FILLER	PIC X(1).	
2384			05 WS-XDL-Reference-TXT	OCCURS 8 TIMES.	
2385			10 WS-XDL-Ref-Line-NUM	PIC ZZZZZ9.	
2386			10 WS-XDL-Ref-Flag-CHR	PIC X(1).	
2387			10 FILLER	PIC X(1).	
2388					
2389	GC1213	01	WS-Xref-Lines-Per-Rec-NUM	PIC 9(1).	
2390					
2391		LIN	KAGE SECTION.		
2392	GC0712	01	L-Listing-Fn-TXT	PIC X(256).	
2393					
2394		01	L-Src-Fn-TXT	PIC X(256).	
2395					
		01	L-OS-Type-CD	PIC 9(1).	
2397					
2398	GC1213	01	L-LPP-NUM	USAGE BINARY-LONG.	
2399					
2400	GC1213	01	L-LPP-Port-NUM	USAGE BINARY-LONG.	
2401					
2402	GC1213	01	L-Listing-CD	PIC 9(1).	

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Line	Statemen	ıt	Page: 55
=====			
2404	GC0712 P	PROCEDURE DIVISION USING	L-Listing-Fn-TXT
2405	GC0712		L-Src-Fn-TXT
2406	GC0712		L-OS-Type-CD
2407	GC1213		L-LPP-NUM
2408	GC1213		L-LPP-Port-NUM
	GC1213		L-Listing-CD.
2410	0	000-Main SECTION.	
2411		PERFORM 100-Initiali	zation
2412	GC0712	OPEN OUTPUT F-Listin	g-FILE
2413	GC0712	PERFORM 500-Produce-	Source-Listing
2414	GC0712	SORT F-Sort-Work-FIL	E
2415	GC0712	ASCENDING KEY	F-SW-Prog-ID-TXT
2416	GC0712		F-SW-Token-Uc-TXT
2417	GC0712		F-SW-Ref-Line-NUM
2418	GC0712	INPUT PROCEDURE	300-Tokenize-Source
2419	GC0712	OUTPUT PROCEDURE	400-Produce-Xref-Listing
2420	GC0712	CLOSE F-Listing-FILE	
2421		GOBACK	
2422		•	

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2424	*>**	************
2425	*> P	erform all program-wide initialization operations **
2426	*>**	***********
2427	100	-Initialization SECTION.
2428	GC1213	MOVE O TO WS-Page-NUM
2429	GC1213	MOVE 'N' TO WS-Suppress-FF-CHR
2430	GC1213	MOVE SPACES TO WS-Copyright-TXT
2431	GC1213	STRING 'GCic for ' DELIMITED SIZE
2432	GC1213	WS-OS-Type-TXT(L-OS-Type-CD) DELIMITED SPACE
2433	GC1213	' Copyright (C) 2009-2018, Gary L. Cutler, GPL'
2434	GC1213	DELIMITED SIZE
2435	GC1213	INTO WS-Copyright-TXT
2436	GC1213	MOVE 'GNUCOBOL 3.0 24DEC2017' TO WS-Version-TXT
2437		MOVE TRIM(L-Src-Fn-TXT, Leading) TO L-Src-Fn-TXT
2438	GC1010	PERFORM VARYING WS-I-SUB FROM LENGTH(L-Src-Fn-TXT) BY -1 *> Locate last direct
	•	ter character so that the filename can be extracted
	GC1010	UNTIL L-Src-Fn-TXT(WS-I-SUB:1) = '/' OR '\'
	GC1010	OR WS-I-SUB = 0
	GC1010	END-PERFORM
	GC1010	IF WS-I-SUB = 0
2443	GC1010	MOVE UPPER-CASE(L-Src-Fn-TXT) TO WS-Main-Module-Name-TXT *> No directory d
0444		whole thing is filename
	GC1010	ADD 1 TO LIGHT-CUID
	GC1010 GC1010	ADD 1 TO WS-I-SUB
	GC1010 GC1010	MOVE UPPER-CASE(L-Src-Fn-TXT(WS-I-SUB:)) TO WS-Main-Module-Name-TXT *> Extract filename
	GC1010	END-IF
	GC1213	IF L-Listing-CD = 1 *> LANDSCAPE
	GC1213	MOVE 8 TO WS-Xref-Lines-Per-Rec-NUM
	GC1213	ACCEPT WS-Lines-Per-Page-Env-TXT
2452	GC1213	FROM ENVIRONMENT 'GCXREF_LINES'
2453	GC1213	ELSE *> PORTRAIT
2454	GC1213	MOVE 3 TO WS-Xref-Lines-Per-Rec-NUM
2455	GC1213	ACCEPT WS-Lines-Per-Page-Env-TXT
2456	GC1213	FROM ENVIRONMENT 'GCXREF_LINES_PORT'
2457	GC1213	END-IF
2458		INSPECT L-Src-Fn-TXT REPLACING ALL '\' BY '/'
2459		MOVE L-Src-Fn-TXT TO WS-Program-Path-TXT
2460		CALL 'C\$JUSTIFY' USING WS-Program-Path-TXT, 'Right'
2461		MOVE LENGTH(TRIM(L-Src-Fn-TXT,Trailing)) TO WS-I-SUB
2462		MOVE O TO WS-J-SUB
2463		PERFORM UNTIL L-Src-Fn-TXT(WS-I-SUB:1) = '/'
2464		OR WS-I-SUB = 0
2465		SUBTRACT 1 FROM WS-I-SUB
2466		ADD 1 TO WS-J-SUB
2467		END-PERFORM
2468		UNSTRING L-Src-Fn-TXT((WS-I-SUB + 1):WS-J-SUB)
2469 2470		DELIMITED BY '.' INTO WS-Filename-TXT
2470		WS-Dummy-TXT
	GC1010	STRING
	GC1010 GC1010	TRIM(WS-Filename-TXT, Trailing)
2413	001010	TIGHT THEHOME INI, HEALTHING/

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2475 GC1010 DELIMITED SIZE
2476 GC1010 INTO WS-Expanded-Src-Fn-TXT
2477 GC1010 CALL 'CBL_CHECK_FILE_EXIST' USING WS-Expanded-Src-Fn-TXT
2478 GC1010 WS-Temp-256-Chars-TXT
2479 GC1010 IF RETURN-CODE NOT = 0
2480 GC1010 GOBACK
2481 GC1010 END-IF
2482 IF WS-Lines-Per-Page-Env-TXT NOT = SPACES
2483 MOVE NUMVAL(WS-Lines-Per-Page-Fnv-TYT) 2483 MOVE NUMVAL(WS-Lines-Per-Page-Env-TXT) 2484 2485 ELSE TO WS-Lines-Per-Page-NUM IF L-LISTING-CD = 1 *> LANDSCAPE 2486 GC1213 2487 GC1213 MOVE L-LPP-NUM TO WS-Lines-Per-Page-NUM

WS-Held-Reference-TXT

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Line	Statement		Page:	58
2500	300	O-Tokenize-Source SECTION.		
2501		OPEN INPUT F-Expanded-Src-FILE		
2502		MOVE SPACES TO F-Expanded-Src-REC		
2503		MOVE 256 TO WS-Src-SUB		
2504		MOVE O TO WS-Usernames-QTY		
2505		WS-Curr-Line-NUM		
2506		MOVE '?' TO WS-Curr-Division-TXT		
2507	GC0710	MOVE 'N' TO WS-RS-Verb-Has-Been-Found-CHR		
2508		PERFORM FOREVER		
2509		PERFORM 310-Get-Token		
2510		IF WS-TT-Token-Is-EOF-BOOL		
2511		EXIT PERFORM		
2512		END-IF		
2513		MOVE UPPER-CASE(WS-Token-Curr-TXT)		
2514		TO WS-Token-Curr-Uc-TXT		
2515	GC1010	IF WS-TT-Token-Is-Keyword-BOOL		
2516	GC1010	OR WS-TT-Token-Is-Reserved-Wd-BOOL		
2517	GC1010	MOVE WS-Token-Curr-Uc-TXT TO WS-Token-Curr-TXT		
2518	GC1010	END-IF		
2519		IF WS-TT-Token-Is-Verb-BOOL		
2520		MOVE WS-Token-Curr-Uc-TXT TO WS-Curr-Verb-TXT		
2521		WS-Token-Prev-TXT		
2522		IF WS-Held-Reference-TXT NOT = SPACES		
2523		MOVE WS-Held-Reference-TXT TO F-Sort-Work-REC		
2524		MOVE SPACES TO WS-Held-Reference-TXT		
2525		RELEASE F-Sort-Work-REC		
2526		END-IF		
2527		END-IF		
2528		EVALUATE TRUE		
2529		WHEN WS-CD-In-IDENT-DIV-BOOL		
2530		PERFORM 320-IDENTIFICATION-DIVISION		
2531		WHEN WS-CD-In-ENV-DIV-BOOL		
2532		PERFORM 330-ENVIRONMENT-DIVISION		
2533		WHEN WS-CD-In-DATA-DIV-BOOL		
2534		PERFORM 340-DATA-DIVISION		
2535		WHEN WS-CD-In-PROC-DIV-BOOL		
2536		PERFORM 350-PROCEDURE-DIVISION		
2537		END-EVALUATE		
2538		IF WS-TT-Token-Is-Keyword-BOOL		
2539		MOVE WS-Token-Curr-Uc-TXT TO WS-Token-Prev-TXT		
2540		END-IF		
2541		<pre>IF WS-RS-Token-Ended-Sentence-CHR = 'Y'</pre>		
2542		AND WS-Curr-Division-TXT NOT = 'I'		
2543		MOVE SPACES TO WS-Token-Prev-TXT		
2544		WS-Curr-Verb-TXT		
2545		END-IF		
2546				
2547		END-PERFORM		
2548		CLOSE F-Expanded-Src-FILE		
2549		•		

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=====	=======	
0551	210	Cat Talan CECTION
2551 2552		-Get-Token SECTION.
		Position to 1st non-blank character
2553		MOVE WS-RS-Token-Ended-Sentence-CHR
2554		TO WS-RS-Last-Token-Ended-Sent-CHR
2555		MOVE 'N' TO WS-RS-Token-Ended-Sentence-CHR
2556		PERFORM UNTIL F-Expanded-Src-REC(WS-Src-SUB : 1) NOT = SPACE
2557		IF WS-Src-SUB > 255
2558		READ F-Expanded-Src-FILE AT END
2559		IF WS-Held-Reference-TXT NOT = SPACES
2560		MOVE WS-Held-Reference-TXT TO F-Sort-Work-REC
2561		MOVE SPACES TO WS-Held-Reference-TXT
2562		RELEASE F-Sort-Work-REC
2563		END-IF
2564		SET WS-TT-Token-Is-EOF-BOOL TO TRUE
2565		MOVE 0 TO WS-Curr-Line-NUM
2566		EXIT SECTION
2567	999740	END-READ
	GC0712	IF F-ES-1-7-TXT NOT = '#DEFLIT'
	GC0712	IF F-ES-1-CHR = '#'
	GC0712	PERFORM 311-Control-Record
	GC0712	ELSE
	GC0712	PERFORM 312-Expanded-Src-Record
	GC0712	END-IF
	GC0712	END-IF
2575		ELSE
2576		ADD 1 TO WS-Src-SUB
2577		END-IF
2578 2579		END-PERFORM Entropy to taken string
2579		Extract token string MOVE F-Funnanded Sno-DEC(MS-Sno-SHD . 1)
2580		MOVE F-Expanded-Src-REC(WS-Src-SUB : 1) TO WS-Curr-CHR
2582		
2583		MOVE F-Expanded-Src-REC(WS-Src-SUB + 1: 1) TO WS-Next-CHR
2584		IF WS-Curr-CHR = '.'
2585		ADD 1 TO WS-Src-SUB
2586		MOVE WS-Curr-CHR TO WS-Token-Curr-TXT
2587		MOVE SPACE TO WS-Token-Type-CD
2588		MOVE 'Y' TO WS-RS-Token-Ended-Sentence-CHR
2589		EXIT SECTION
2590		END-IF
2591		IF WS-Curr-Char-Is-Punct-BOOL
2592		AND WS-Curr-CHR = '='
2593		AND WS-Curr-Division-TXT = 'P'
2594		ADD 1 TO WS-Src-SUB
2595		MOVE 'EQUALS' TO WS-Token-Curr-TXT
2596		MOVE 'K' TO WS-Token-Type-CD
2597		EXIT SECTION
2598		END-IF
2599		IF WS-Curr-Char-Is-Punct-BOOL *> So subscripts don't get flagged w/ '*'
2600		AND WS-Curr-CHR = '('
2600		AND WS-Curr-Division-TXT = 'P'
2602		MOVE SPACES TO WS-Token-Prev-TXT
2002		NOTE OF NORD TO HE TOKEN THEY TAI

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		rage. 00
2603		END-IF
2604		IF WS-Curr-Char-Is-Punct-BOOL
2605		ADD 1 TO WS-Src-SUB
2606		MOVE WS-Curr-CHR TO WS-Token-Curr-TXT
2607		MOVE SPACE TO WS-Token-Type-CD
2608		EXIT SECTION
2609		END-IF
2610		IF WS-Curr-Char-Is-Quote-BOOL
2611		ADD 1 TO WS-Src-SUB
2612		UNSTRING F-Expanded-Src-REC
2613		DELIMITED BY WS-Curr-CHR
2614		INTO WS-Token-Curr-TXT
2615		WITH POINTER WS-Src-SUB
2616		<pre>IF F-Expanded-Src-REC(WS-Src-SUB : 1) = '.'</pre>
2617		MOVE 'Y' TO WS-RS-Token-Ended-Sentence-CHR
2618		ADD 1 TO WS-Src-SUB
2619		END-IF
2620		SET WS-TT-Token-Is-Lit-Alpha-BOOL TO TRUE
2621		EXIT SECTION
2622		END-IF
2623		IF WS-Curr-Char-Is-X-BOOL AND WS-Next-Char-Is-Quote-BOOL
2624		ADD 2 TO WS-Src-SUB
2625		UNSTRING F-Expanded-Src-REC
2626		DELIMITED BY WS-Next-CHR
2627		INTO WS-Token-Curr-TXT
2628		WITH POINTER WS-Src-SUB
2629		<pre>IF F-Expanded-Src-REC(WS-Src-SUB : 1) = '.'</pre>
2630		MOVE 'Y' TO WS-RS-Token-Ended-Sentence-CHR
2631		ADD 1 TO WS-Src-SUB
2632		END-IF
2633		SET WS-TT-Token-Is-Lit-Number-BOOL TO TRUE
2634		EXIT SECTION
2635		END-IF
2636		IF WS-Curr-Char-Is-Z-BOOL AND WS-Next-Char-Is-Quote-BOOL
2637		ADD 2 TO WS-Src-SUB
2638		UNSTRING F-Expanded-Src-REC
2639		DELIMITED BY WS-Next-CHR
2640		INTO WS-Token-Curr-TXT
2641		WITH POINTER WS-Src-SUB
2642		<pre>IF F-Expanded-Src-REC(WS-Src-SUB : 1) = '.'</pre>
2643		MOVE 'Y' TO WS-RS-Token-Ended-Sentence-CHR
2644		ADD 1 TO WS-Src-SUB
2645		END-IF
2646		SET WS-TT-Token-Is-Lit-Alpha-BOOL TO TRUE
2647		EXIT SECTION
2648		END-IF
2649		IF WS-RS-Processing-PICTURE-CHR = 'Y'
2650		UNSTRING F-Expanded-Src-REC
2651		DELIMITED BY '. ' OR ' '
2652		INTO WS-Token-Curr-TXT
2653		DELIMITER IN WS-Delim-TXT
2654		WITH POINTER WS-Src-SUB
2655		<pre>IF WS-Delim-TXT = '. '</pre>

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		rage. or
2656		MOVE 'Y' TO WS-RS-Token-Ended-Sentence-CHR
2657		ADD 1 TO WS-Src-SUB
2658		END-IF
2659		<pre>IF UPPER-CASE(WS-Token-Curr-TXT) = 'IS'</pre>
2660		MOVE SPACE TO WS-Token-Type-CD
2661		EXIT SECTION
2662		ELSE
2663		MOVE 'N' TO WS-RS-Processing-PICTURE-CHR
2664		MOVE SPACE TO WS-Token-Type-CD
2665		EXIT SECTION
2666		END-IF
2667		END-IF
2668		UNSTRING F-Expanded-Src-REC
2669		DELIMITED BY '. ' OR ' ' OR '=' OR '(' OR ')' OR '*'
2670		OR '/' OR '&' OR ';' OR ',' OR '<'
2671		OR '>' OR ':'
2672		INTO WS-Token-Curr-TXT
2673		DELIMITER IN WS-Delim-TXT
2674		WITH POINTER WS-Src-SUB
2675		IF WS-Delim-TXT = '.'
2676		MOVE 'Y' TO WS-RS-Token-Ended-Sentence-CHR
2677 2678		<pre>END-IF IF WS-Delim-TXT NOT = '. ' AND ' '</pre>
2679		SUBTRACT 1 FROM WS-Src-SUB
2680		END-IF
2681		Classify Token
2682		MOVE UPPER-CASE(WS-Token-Curr-TXT) TO WS-Token-Search-TXT
2683		IF WS-Token-Search-TXT = 'EQUAL' OR 'EQUALS'
2684		MOVE 'EQUALS' TO WS-Token-Curr-TXT
2685		MOVE 'K' TO WS-Token-Type-CD
2686		EXIT SECTION
2687		END-IF
2688		SEARCH ALL WS-Reserved-Word-TXT
2689		WHEN WS-RW-Word-TXT (WS-RW-IDX) = WS-Token-Search-TXT
2690		MOVE WS-RW-Type-CD (WS-RW-IDX) TO WS-Token-Type-CD
2691	GC0710	IF WS-TT-Token-Is-Verb-BOOL
2692	GC0710	MOVE 'Y' TO WS-RS-Verb-Has-Been-Found-CHR
2693	GC0710	END-IF
2694		EXIT SECTION
2695		END-SEARCH
2696	*>	Not a reserved word, must be a user name
2697		SET WS-TT-Token-Is-Identifier-BOOL TO TRUE
2698		PERFORM 313-Check-For-Numeric-Token
2699		IF WS-TT-Token-Is-Lit-Number-BOOL
2700		IF (WS-RS-Last-Token-Ended-Sent-CHR = 'Y')
2701 2702		AND (WS-Curr-Division-TXT = 'D') MOVE 'LEVEL #' TO WS-Token-Curr-TXT
2702		MOVE 'K' TO WS-Token-Curr-IXI MOVE 'K' TO WS-Token-Type-CD
2703		EXIT SECTION
2704		ELSE
2705		EXIT SECTION
2707		END-IF
2708		END-IF

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Line	Stateme	/home/vince/cobolsrc/Cobol-lools/ocic/GCic.cbl				
	======					
2711		311-Control-Record SECTION.				
2712		UNSTRING F-ES-2-256-TXT-256				
2713		DELIMITED BY '"'				
2714		INTO WS-Temp-10-Chars-TXT				
2715		WS-Temp-256-Chars-TXT				
2716		WS-Dummy-TXT				
2717		INSPECT WS-Temp-10-Chars-TXT REPLACING ALL '"' BY SPACE				
	GC0712	IF WS-Temp-10-Chars-TXT(1:4) = 'line'				
	GC0712	MOVE SPACES TO WS-Temp-10-Chars-TXT(1:4)				
	GC0712	END-IF				
2721	GC0712	COMPUTE WS-I-SUB = NUMVAL(WS-Temp-10-Chars-TXT) - 1				
	GC1010	IF UPPER-CASE(TRIM(WS-Temp-256-Chars-TXT,Trailing)) =				
	GC1010	TRIM(WS-Main-Module-Name-TXT)				
	GCIUIU					
2724		MOVE WS-I-SUB TO WS-Curr-Line-NUM				
2725		SET WS-RS-In-Main-Module-BOOL TO TRUE				
2726		IF WS-Saved-Section-TXT NOT = SPACES				
2727		MOVE WS-Saved-Section-TXT TO WS-Curr-Section-TXT				
2728		END-IF				
2729		ELSE				
2730		SET WS-RS-In-Copybook-BOOL TO TRUE				
2731		IF WS-Saved-Section-TXT = SPACES				
2732		MOVE WS-Curr-Section-TXT TO WS-Saved-Section-TXT				
2733		END-IF				
2734		MOVE LENGTH(TRIM(WS-Temp-256-Chars-TXT,Trailing))				
2735		TO WS-I-SUB				
2736		MOVE 0 TO WS-J-SUB				
2737		PERFORM UNTIL WS-Temp-256-Chars-TXT(WS-I-SUB:1) = '/'				
2738		$OR\ WS-I-SUB = 0$				
2739		SUBTRACT 1 FROM WS-I-SUB				
2740		ADD 1 TO WS-J-SUB				
2741		END-PERFORM				
2742		UNSTRING WS-Temp-256-Chars-TXT((WS-I-SUB + 1):WS-J-SUB)				
2743		DELIMITED BY '.'				
2744		INTO WS-Filename-TXT				
2745		WS-Dummy-TXT				
2746		MOVE '[' TO WS-CS-1-CHR				
2747		MOVE WS-Filename-TXT TO WS-CS-2-14-TXT				
2748		IF WS-CS-11-14-TXT NOT = SPACES				
2749		MOVE '' TO WS-CS-11-14-TXT				
2750		END-IF				
2751		MOVE ']' TO WS-CS-15-CHR				
2752		END-IF				
2753		MOVE SPACES TO F-Expanded-Src-REC *> Force another READ				
2754		MOVE 256 TO WS-Src-SUB				
2755		•				

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=====	======	
2757		312-Expanded-Src-Record SECTION.
2758	GC0314	<pre>IF F-Expanded-Src-REC(1:1) = SPACE</pre>
2759	GC0314	MOVE 2 TO WS-Src-SUB
2760	GC0314	ELSE
2761	GC0314	MOVE 1 TO WS-Src-SUB
2762	GC0314	END-IF
2763		IF WS-RS-In-Main-Module-BOOL
2764		ADD 1 To WS-Curr-Line-NUM
2765		END-IF
2766		•

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Line	Statemen	
=====	======	
2768	;	313-Check-For-Numeric-Token SECTION.
2769		MOVE WS-Token-Curr-TXT TO WS-Temp-32-Chars-1-TXT
2770		INSPECT WS-Temp-32-Chars-1-TXT
2771	GC0711	CONVERTING '0123456789' TO SPACES
2772	GC0711	IF WS-Temp-32-Chars-1-TXT = SPACES
	eger	
2773		SET WS-TT-Token-Is-Lit-Number-BOOL TO TRUE
2774		EXIT SECTION
2775		END-IF
2776	GC0711	MOVE SPACES TO WS-Temp-32-Chars-2-TXT
2777	GC0711	WS-Temp-32-Chars-3-TXT
	GC0711	WS-Dummy-TXT
	GC0711	UNSTRING WS-Temp-32-Chars-1-TXT
	GC0711	DELIMITED BY 'e' OR 'E'
	GC0711	INTO WS-Temp-32-Chars-2-TXT
	GC0711	WS-Temp-32-Chars-3-TXT
	GC0711	WS-Dummy-TXT
2784	GC0711	IF WS-Dummy-TXT NOT = SPACES *> More than one 'E' - Not Num
	eric	
	GC0711	EXIT SECTION
	GC0711	END-IF
	GC0711	IF WS-Temp-32-Chars-2-TXT(1:1) = '+' OR '-'
	GC0711	MOVE SPACE TO WS-Temp-32-Chars-2-TXT(1:1)
	GC0711	END-IF
	GC0711	IF WS-Temp-32-Chars-3-TXT(1:1) = '+' OR '-'
	GC0711 GC0711	MOVE SPACE TO WS-Temp-32-Chars-3-TXT(1:1)
2793	GCUTII	END-IF
	GC0711	MOVE 0 TO WS-Tally-QTY INSPECT WS-Temp-32-Chars-2-TXT
2795	GCOTII	TALLYING WS-Tally-QTY FOR ALL '.'
2796		IF WS-Tally-QTY = 1
	GC0711	INSPECT WS-Temp-32-Chars-2-TXT REPLACING ALL '.' BY SPACE
2798	400111	END-IF
	GC0711	INSPECT WS-Temp-32-Chars-3-TXT
	GC0711	TALLYING WS-Tally-QTY FOR ALL '.'
	GC0711	IF WS-Tally-QTY = 1
	GC0711	INSPECT WS-Temp-32-Chars-3-TXT REPLACING ALL '.' BY SPACE
	GC0711	END-IF
	GC0711	IF WS-Temp-32-Chars-2-TXT = SPACES AND WS-Temp-32-Chars-3-TXT = SPACES
2805	•	SET WS-TT-Token-Is-Lit-Number-BOOL TO TRUE
2806		EXIT SECTION
2807		END-IF
2808		

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=====	======	
2810	3	20-IDENTIFICATION-DIVISION SECTION.
2811	GC0712	IF WS-TT-Token-Is-Argtype-BOOL
2812	GC0712	SET WS-TT-Token-Is-Reserved-Wd-BOOL TO TRUE
2813	GC0712	END-IF
2814	GC0710	MOVE 'N' TO WS-RS-Verb-Has-Been-Found-CHR
2815		IF WS-TT-Token-Is-Keyword-B00L
2816		AND WS-Token-Curr-TXT = 'DIVISION'
2817		MOVE WS-Token-Prev-TXT TO WS-Curr-Division-TXT
2818		EXIT SECTION
2819		END-IF
2820	GC0712	IF WS-Token-Prev-TXT = 'PROGRAM-ID' OR 'FUNCTION-ID'
2821		MOVE SPACES TO WS-Token-Prev-TXT
2822		MOVE WS-Token-Curr-TXT TO WS-Curr-Prog-ID-TXT
2823	GC0712	IF WS-CPI-16-CHR NOT = SPACES
2824		MOVE '' TO WS-CPI-13-15-TXT
2825		END-IF
2826		EXIT SECTION
2827		END-IF

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=====	======		
2830		330-ENVIRONMENT-DIVISION SECTION.	
2831	GC0712	IF WS-TT-Token-Is-Argtype-BOOL	
2832	GC0712	SET WS-TT-Token-Is-Reserved-Wd-BOOL TO TRUE	
2833	GC0712	END-IF	
2834		IF WS-TT-Token-Is-Keyword-BOOL	
2835		AND WS-Token-Curr-TXT = 'DIVISION'	
2836		MOVE WS-Token-Prev-TXT TO WS-Curr-Division-TXT	
2837		EXIT SECTION	
2838		END-IF	
2839		IF WS-TT-Token-Is-Keyword-BOOL	
2840		AND WS-Token-Curr-TXT = 'SECTION'	
2841		MOVE WS-Token-Prev-TXT TO WS-Curr-Section-TXT	
2842		EXIT SECTION	
2843		END-IF	
2844		IF WS-TT-Token-Is-Identifier-BOOL	
2845	GC0712	<pre>IF WS-Token-Prev-TXT = 'FUNCTION'</pre>	
2846	GC0712	PERFORM 360-Release-Def	
2847	GC0712	ELSE	
2848	GC0712	PERFORM 361-Release-Ref	
2849	GC0712	END-IF	
2850		END-IF	
2851	GC1213	IF WS-TT-Token-Is-Function-BOOL	
2852	GC1213	PERFORM 361-Release-Ref	
2853	GC1213	END-IF	
2854		•	

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2856		340-DATA-DIVISION SECTION.	
	GC0712	IF WS-TT-Token-Is-Argtype-BOOL	
	GC0712	SET WS-TT-Token-Is-Reserved-Wd-BOOL TO TRUE	
	GC0712	END-IF	
2860	GC0712		
2861		IF WS-TT-Token-Is-Keyword-BOOL AND WS-Token-Curr-TXT = 'DIVISION'	
2862		MOVE WS-Token-Prev-TXT TO WS-Curr-Division-TXT	
2863		EXIT SECTION	
2864		END-IF	
2865		IF WS-TT-Token-Is-Keyword-BOOL	
2866		AND WS-Token-Curr-TXT = 'SECTION'	
2867		MOVE WS-Token-Prev-TXT TO WS-Curr-Section-TXT	
2868		EXIT SECTION	
2869		END-IF	
2870		IF (WS-Token-Curr-TXT = 'PIC' OR 'PICTURE')	
2871		AND (WS-TT-Token-Is-Keyword-BOOL)	
2872		MOVE 'Y' TO WS-RS-Processing-PICTURE-CHR	
2873		EXIT SECTION	
2874		END-IF	
	GC0710	IF WS-TT-Token-Is-Reserved-Wd-BOOL	
	GC0710	AND WS-Token-Prev-TXT = 'LEVEL #'	
	GC0710	MOVE SPACES TO WS-Token-Prev-TXT	
2878	GC0710	EXIT SECTION	
	GC0710	END-IF	
2880		IF WS-TT-Token-Is-Identifier-BOOL	
2881		EVALUATE WS-Token-Prev-TXT	
2882		WHEN 'FD'	
2883		PERFORM 360-Release-Def	
2884		MOVE SPACES TO WS-Token-Prev-TXT	
2885	GC1213	WHEN 'RD'	
2886	GC1213	PERFORM 360-Release-Def	
2887	GC1213	MOVE SPACES TO WS-Token-Prev-TXT	
2888		WHEN 'SD'	
2889		PERFORM 360-Release-Def	
2890		MOVE SPACES TO WS-Token-Prev-TXT	
2891		WHEN 'LEVEL #'	
2892		PERFORM 360-Release-Def	
2893		MOVE SPACES TO WS-Token-Prev-TXT	
2894		WHEN 'INDEXED'	
2895		PERFORM 360-Release-Def	
2896		MOVE SPACES TO WS-Token-Prev-TXT	
2897		WHEN 'USING'	
2898		PERFORM 362-Release-Upd	
2899		MOVE SPACES TO WS-Token-Prev-TXT	
2900		WHEN 'INTO'	
2901		PERFORM 362-Release-Upd	
2902		MOVE SPACES TO WS-Token-Prev-TXT	
2903	004046	WHEN OTHER	
	GC1213	IF WS-Token-Curr-TXT NOT = 'SUM'	
	GC1213	PERFORM 361-Release-Ref	
	GC1213	END-IF	
2907		END-EVALUATE	

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2908 EXIT SECTION 2909 END-IF 2910 .

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2912	350	-PROCEDURE-DIVISION SECTION.	
2913		IF WS-Curr-Section-TXT NOT = 'PROCEDURE'	
2913		MOVE 'PROCEDURE' TO WS-Curr-Section-TXT	
2914		END-IF	
	GC0710	IF WS-Token-Curr-Uc-TXT = 'PROGRAM'	
	GC0710		
	GC0710 GC0710	MOVE '?' TO WS-Curr-Division-TXT	
	GC0710	EXIT SECTION	
	GC0710	END-IF	
2921	000710	IF WS-TT-Token-Is-Keyword-BOOL	
2922		AND WS-Token-Curr-TXT = 'DIVISION'	
2923		MOVE WS-Token-Prev-TXT TO WS-Curr-Division-TXT	
2924		EXIT SECTION	
2925		END-IF	
		IF WS-TT-Token-Is-Identifier-BOOL	
2927	GC0313	AND WS-Token-Prev-TXT = SPACES	
		AND WS-Curr-Verb-TXT = SPACES	
		Definition of a Paragraph or Section	
	GC0313	PERFORM 360-Release-Def	
2931	GC0313	MOVE SPACES TO WS-Token-Prev-TXT	
2932	GC0313	EXIT SECTION	
2933	GC0313	END-IF	
2934		IF NOT WS-TT-Token-Is-Identifier-BOOL	
2935		EXIT SECTION	
2936		END-IF	
2937		EVALUATE WS-Curr-Verb-TXT	
2938		WHEN 'ACCEPT'	
2939		PERFORM 351-ACCEPT	
2940		WHEN 'ADD'	
2941		PERFORM 351-ADD	
2942		WHEN 'ALLOCATE'	
2943		PERFORM 351-ALLOCATE	
2944		WHEN 'CALL'	
2945		PERFORM 351-CALL	
2946		WHEN 'COMPUTE'	
2947		PERFORM 351-COMPUTE	
2948		WHEN 'DIVIDE'	
2949		PERFORM 351-DIVIDE	
2950		WHEN 'FREE'	
2951		PERFORM 351-FREE	
	GC1213	WHEN 'GENERATE'	
2953 2954	GC1213	PERFORM 351-GENERATE	
2954		WHEN 'INITIALIZE' PERFORM 351-INITIALIZE	
	GC1213	WHEN 'INITIATE'	
	GC1213	PERFORM 351-GENERATE	
2958		WHEN 'INSPECT'	
2959		PERFORM 351-INSPECT	
2960		WHEN 'MOVE'	
2961		PERFORM 351-MOVE	
2962		WHEN 'MULTIPLY'	
2963		PERFORM 351-MULTIPLY	
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=====		=======================================		:==
2964		WHEN 'PERFORM'		
2965		PERFORM 351-PERFORM		
2966		WHEN 'SET'		
2967		PERFORM 351-SET		
2968		WHEN 'STRING'		
2969		PERFORM 351-STRING		
2970		WHEN 'SUBTRACT'		
2971		PERFORM 351-SUBTRACT		
2972	GC1213	WHEN 'TERMINATE'		
2973	GC1213	PERFORM 351-GENERATE		
2974		WHEN 'TRANSFORM'		
2975		PERFORM 351-TRANSFORM		
2976		WHEN 'UNSTRING'		
2977		PERFORM 351-UNSTRING		
2978		WHEN OTHER		
2979		PERFORM 361-Release-Ref		
2980		END-EVALUATE		
2981		•		

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=====		
0000	OF A LOSEDE GEORGE	
2983	351-ACCEPT SECTION.	
2984	EVALUATE WS-Token-Prev-TXT	
2985	WHEN 'ACCEPT'	
2986	PERFORM 362-Release-Upd	
2987	MOVE SPACES TO WS-Token-Prev-TXT	
2988	WHEN OTHER	
2989	PERFORM 361-Release-Ref	
2990	END-EVALUATE	
2991	•	
2992	OE4 ADD GEOMEON	
2993	351-ADD SECTION.	
2994	EVALUATE WS-Token-Prev-TXT	
2995	WHEN 'GIVING'	
2996	PERFORM 362-Release-Upd	
2997	WHEN 'TO'	
2998	PERFORM 362-Release-Upd	
2999	WHEN OTHER	
3000	PERFORM 361-Release-Ref	
3001	END-EVALUATE	
3002	•	
3003	251 ALLOCATE CECTION	
3004	351-ALLOCATE SECTION. EVALUATE WS-Token-Prev-TXT	
3005		
3006	WHEN 'ALLOCATE'	
3007	PERFORM 362-Release-Upd MOVE SPACES TO WS-Token-Prev-TXT	
3008 3009	WHEN 'RETURNING'	
3010		
3010	PERFORM 362-Release-Upd WHEN OTHER	
3012	PERFORM 361-Release-Ref	
3013	END-EVALUATE	
3014	·	
3015		
3016	351-CALL SECTION.	
3017	EVALUATE WS-Token-Prev-TXT	
3018	WHEN 'RETURNING'	
3019	PERFORM 362-Release-Upd	
3020	WHEN 'GIVING'	
3021	PERFORM 362-Release-Upd	
3022	WHEN OTHER	
3023	GC1213 PERFORM 365-Release-Arg	
3024	END-EVALUATE	
3025	•	
3026		
3027	351-COMPUTE SECTION.	
3028	EVALUATE WS-Token-Prev-TXT	
3029	WHEN 'COMPUTE'	
3030	PERFORM 362-Release-Upd	
3031	WHEN OTHER	
3032	PERFORM 361-Release-Ref	
3033	END-EVALUATE	
3034	•	

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=====			
3035			
3036		351-DIVIDE SECTION.	
3037		EVALUATE WS-Token-Prev-TXT	
3038		WHEN 'INTO'	
3039		PERFORM 363-Set-Upd	
3040		MOVE F-Sort-Work-REC TO	WS-Held-Reference-TXT
3041		WHEN 'GIVING'	
3042		IF WS-Held-Reference-TX	
3043			nce-TXT To F-Sort-Work-REC
3044		MOVE SPACES	To WS-Held-Reference-TXT
3045			F-SW-Ref-Flag-CHR
3046		RELEASE F-Sort-Work-	-REC
3047		END-IF	
3048		PERFORM 362-Release-Upd	
3049		WHEN 'REMAINDER'	
3050		PERFORM 362-Release-Upd	
3051		WHEN OTHER	
3052		PERFORM 361-Release-Ref	
3053		END-EVALUATE	
3054		•	
3055			
3056		351-FREE SECTION.	
3057		PERFORM 362-Release-Upd	
3058		•	
3059			
		351-GENERATE SECTION.	
	GC1213	PERFORM 362-Release-Upd	
	GC1213	•	
3063			
3064		351-INITIALIZE SECTION.	
3065		EVALUATE WS-Token-Prev-TXT	
3066		WHEN 'INITIALIZE'	
3067		PERFORM 362-Release-Upd	
3068		WHEN 'REPLACING'	
3069		PERFORM 361-Release-Ref	
3070		END-EVALUATE	
3071		•	
3072	001012	254 INTELLE CECTION	
	GC1213	351-INITIATE SECTION.	
	GC1213	PERFORM 362-Release-Upd	
3075	GC1213	•	
3077		351-INSPECT SECTION.	
3078		EVALUATE WS-Token-Prev-TXT	
3079		WHEN 'INSPECT'	
3079		PERFORM 364-Set-Ref	
3080		MOVE SPACES TO WS-Held-I	Reference-TYT
3082		MOVE SPACES TO WS-Teld-I	
3083		WHEN 'TALLYING'	IIGA IVI
3084		PERFORM 362-Release-Upd	
3084		MOVE SPACES TO WS-Token	-Prov-TYT
3086		WHEN 'REPLACING'	LIGA IVI
3086		IF WS-Held-Reference-TX	NOT = SDACES
3087		ir wo-neid-keierence-lk	NUI - SPACES

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3088		MOVE WS-Held-Reference-TXT TO F-Sort-Work-RE	
3089		MOVE SPACES TO WS-Held-Reference-TXT	
3090		MOVE '*' TO F-SW-Ref-Flag-CHR	
3091		RELEASE F-Sort-Work-REC	
3092		END-IF	
3093		MOVE SPACES TO WS-Token-Prev-TXT	
3094		WHEN 'CONVERTING'	
3095		IF WS-Held-Reference-TXT NOT = SPACES	
3096		MOVE WS-Held-Reference-TXT TO F-Sort-Work-RE	C
3097		MOVE SPACES TO WS-Held-Reference-TXT	
3098		MOVE '*' TO F-SW-Ref-Flag-CHR	
3099		RELEASE F-Sort-Work-REC	
3100		END-IF	
3101		MOVE SPACES TO WS-Token-Prev-TXT	
3102		WHEN OTHER	
3103		PERFORM 361-Release-Ref	
3104		END-EVALUATE	
3105			
3106			
3107	351	-MOVE SECTION.	
3108		EVALUATE WS-Token-Prev-TXT	
3109		WHEN 'TO'	
3110		PERFORM 362-Release-Upd	
3111		WHEN OTHER	
3112		PERFORM 361-Release-Ref	
3113		END-EVALUATE	
3114			
3115			
3116	351	-MULTIPLY SECTION.	
3117		EVALUATE WS-Token-Prev-TXT	
3118		WHEN 'BY'	
3119		PERFORM 363-Set-Upd	
3120		MOVE F-Sort-Work-REC TO WS-Held-Reference-TXT	
3121		WHEN 'GIVING'	
3122		MOVE WS-Held-Reference-TXT TO F-Sort-Work-REC	
3123		MOVE SPACES TO WS-Held-Reference-TXT	
3124		F-SW-Ref-Flag-CHR	
3125		RELEASE F-Sort-Work-REC	
3126		PERFORM 362-Release-Upd	
3127		WHEN OTHER	
3128		PERFORM 361-Release-Ref	
3129		END-EVALUATE	
3130		•	
3131		DEDECOM GEGTION	
3132		-PERFORM SECTION.	
3133 3134		EVALUATE WS-Token-Prev-TXT WHEN 'VARYING'	
3134		PERFORM 362-Release-Upd	
3136		MOVE SPACES TO WS-Token-Prev-TXT	
3137		WHEN 'AFTER'	
3138		PERFORM 362-Release-Upd	
3139		MOVE SPACES TO WS-Token-Prev-TXT	
3140		WHEN OTHER	
3140		milli Cillit	

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		DEDEADM 264 Delease Def	=====
3141		PERFORM 361-Release-Ref END-EVALUATE	
3143			
3143		•	
		351-SET SECTION.	
		EVALUATE WS-Token-Prev-TXT	
3146 3147		WHEN 'SET'	
3148		PERFORM 362-Release-Upd	
3149		WHEN OTHER	
3150		PERFORM 361-Release-Ref	
3151		END-EVALUATE	
3152			
3153		•	
3154		351-STRING SECTION.	
3155		EVALUATE WS-Token-Prev-TXT	
3156		WHEN 'INTO'	
3157		PERFORM 362-Release-Upd	
3158		WHEN 'POINTER'	
3159		PERFORM 362-Release-Upd	
3160		WHEN OTHER	
3161		PERFORM 361-Release-Ref	
3162		END-EVALUATE	
3163			
3164			
		351-SUBTRACT SECTION.	
3166		EVALUATE WS-Token-Prev-TXT	
3167		WHEN 'GIVING'	
3168		PERFORM 362-Release-Upd	
3169		WHEN 'FROM'	
3170		PERFORM 362-Release-Upd	
3171		WHEN OTHER	
3172		PERFORM 361-Release-Ref	
3173		END-EVALUATE	
3174			
3175			
3176	GC1213 3	351-TERMINATE SECTION.	
3177	GC1213	PERFORM 362-Release-Upd	
3178	GC1213	•	
3179			
3180	3	351-TRANSFORM SECTION.	
3181		EVALUATE WS-Token-Prev-TXT	
3182		WHEN 'TRANSFORM'	
3183		PERFORM 362-Release-Upd	
3184		MOVE SPACES TO WS-Token-Prev-TXT	
3185		WHEN OTHER	
3186		PERFORM 361-Release-Ref	
3187		END-EVALUATE	
3188		•	
3189		OF A MARIE THE REPORT OF	
3190		351-UNSTRING SECTION.	
3191		EVALUATE WS-Token-Prev-TXT	
3192		WHEN 'INTO'	
3193		PERFORM 362-Release-Upd	

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Line	Statement				Page: 76
3194					
3195		PERFORM 362-Release-Upd			
3196		WHEN 'COUNT'			
3197		PERFORM 362-Release-Upd			
3198		WHEN 'POINTER'			
3199		PERFORM 362-Release-Upd			
3200		WHEN 'TALLYING'			
3201		PERFORM 362-Release-Upd			
3201		WHEN OTHER			
3202		PERFORM 361-Release-Ref			
3204		END-EVALUATE			
3205		END LVREORIE			
3206		•			
3207	360	-Release-Def SECTION.			
3208	300	MOVE SPACES	TΩ	F-Sort-Work-REC	
3209		MOVE WS-Curr-Prog-ID-TXT		F-SW-Prog-ID-TXT	
3210		MOVE WS Curr Flog ID TXT		F-SW-Token-Uc-TXT	
3211		MOVE WS Token Gull GC 1X1		F-SW-Token-TXT	
3212		MOVE WS-Curr-Section-TXT		F-SW-Section-TXT	
3213		MOVE WS-Curr-Line-NUM		F-SW-Def-Line-NUM	
3214		MOVE O		F-SW-Ref-Line-NUM	
3215		RELEASE F-Sort-Work-REC	10	1 DW REI LINE NOI!	
3216		TUBBLADE I BOTT WOLK ILLO			
3217		•			
3218	361	-Release-Ref SECTION.			
3219	001	PERFORM 364-Set-Ref			
3220		RELEASE F-Sort-Work-REC			
3221		TUBBLADE I BOTT WOTE TOO			
3222		•			
3223	362	-Release-Upd SECTION.			
3224	332	PERFORM 363-Set-Upd			
3225		RELEASE F-Sort-Work-REC			
3226					
3227					
3228	363	-Set-Upd SECTION.			
3229		MOVE SPACES	TO	F-Sort-Work-REC	
3230		MOVE WS-Curr-Prog-ID-TXT		F-SW-Prog-ID-TXT	
3231		MOVE WS-Token-Curr-Uc-TXT		F-SW-Token-Uc-TXT	
3232		MOVE WS-Token-Curr-TXT	TO	F-SW-Token-TXT	
3233		MOVE WS-Curr-Section-TXT	TO	F-SW-Section-TXT	
3234		MOVE WS-Curr-Line-NUM	TO	F-SW-Ref-Line-NUM	
3235		MOVE '*'	TO	F-SW-Ref-Flag-CHR	
3236		•		G	
3237					
3238	364	-Set-Ref SECTION.			
3239		MOVE SPACES	TO	F-Sort-Work-REC	
3240		MOVE WS-Curr-Prog-ID-TXT	TO	F-SW-Prog-ID-TXT	
3241		MOVE WS-Token-Curr-Uc-TXT	TO	F-SW-Token-Uc-TXT	
3242		MOVE WS-Token-Curr-TXT	TO	F-SW-Token-TXT	
3243		MOVE WS-Curr-Section-TXT	TO	F-SW-Section-TXT	
3244		MOVE WS-Curr-Line-NUM	TO	F-SW-Ref-Line-NUM	
3245					
3246					

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Line	Statement		1	Page: 77
=====	=======			======
3247	GC1213 365	-Release-Arg SECTION.		
3248	GC1213	PERFORM 366-Set-Arg		
3249	GC1213	RELEASE F-Sort-Work-REC		
3250	GC1213	•		
3251				
3252	GC1213 366	-Set-Arg SECTION.		
3253	GC1213	MOVE SPACES	TO F-Sort-Work-REC	
3254	GC1213	MOVE WS-Curr-Prog-ID-TXT	TO F-SW-Prog-ID-TXT	
3255	GC1213	MOVE WS-Token-Curr-Uc-TXT	TO F-SW-Token-Uc-TXT	
3256	GC1213	MOVE WS-Token-Curr-TXT	TO F-SW-Token-TXT	
3257	GC1213	MOVE WS-Curr-Section-TXT	TO F-SW-Section-TXT	
3258	GC1213	MOVE WS-Curr-Line-NUM	TO F-SW-Ref-Line-NUM	
3259	GC1213	MOVE 'C'	TO F-SW-Ref-Flag-CHR	
3260	GC1213			
3261				

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Line	Statement		/nome/vince/cobolsrc/Cobol-1001s/ocic/GUIC Page	e: 78
3263	40	O-Produce-Xref-L	isting SECTION	
3264		MOVE SPACES	TO WS-Xref-Detail-Line-TXT	
3265		HOVE DI NOED	WS-Group-Indicators-TXT	
3266		MOVE O	TO WS-I-SUB	
3267		HOVE O	WS-Lines-Left-NUM	
	GC0710	MOVE 'N'	TO WS-RS-Duplicate-CHR	
3269	000710	PERFORM FOREVE		
3270			ort-Work-FILE AT END	
	GC1213		Xref-Detail-Line-TXT NOT = SPACES	
	GC1213		RFORM 410-Generate-Report-Line	
	GC1213	END-IF	a oim. 110 donotado Nopoto Eino	
	GC1213		PACES TO WS-Xref-Detail-Line-TXT	
	GC1213		M 410-Generate-Report-Line	
	GC1213		TIL WS-Lines-Left-NUM = 0	
	GC1213		Y' TO WS-Suppress-FF-CHR	
	GC1213		M 420-Generate-Xref-Footer	
3279	GOIZIO	EXIT P		
3280		END-RETURN		
3281			og-ID-TXT NOT = WS-GI-Prog-ID-TXT	
3282			ken-Uc-TXT NOT = WS-GI-Token-TXT	
	GC0710		N' TO WS-RS-Duplicate-CHR	
3284	400110		Xref-Detail-Line-TXT NOT = SPACES	
3285			RFORM 410-Generate-Report-Line	
3286		END-IF	a dia: 110 denerate hepert line	
3287			W-Prog-ID-TXT NOT = WS-GI-Prog-ID-TXT	
	GC1213		VE SPACES TO WS-Xref-Detail-Line-TXT	
	GC1213		RFORM 410-Generate-Report-Line	
	GC1213		UNTIL WS-Lines-Left-NUM = 0	
3291	401210	END-IF		
3292			-SW-Prog-ID-TXT TO WS-GI-Prog-ID-TXT	
3293			-SW-Token-Uc-TXT TO WS-GI-Token-TXT	
3294		END-IF		
	GC0710		ken-Uc-TXT = WS-GI-Token-TXT	
	GC0710		ef-Line-NUM NOT = SPACES	
	GC0710		f-Detail-Line-TXT NOT = SPACES	
	GC0710		Y' TO WS-RS-Duplicate-CHR	
	GC0710		M 410-Generate-Report-Line	
	GC0710		TO WS-I-SUB	
	GC0710		-SW-Prog-ID-TXT TO WS-XDL-Prog-ID-TXT	
	GC0710		(Duplicate Definition)' TO WS-XDL-Token-TXT	
	GC0710		-SW-Section-TXT TO WS-XDL-Section-TXT	
	GC0710		-SW-Def-Line-NUM TO WS-XDL-Def-Line-NUM	
	GC0710		ERFORM CYCLE	
	GC0710	END-IF		
	GC0710		ken-Uc-TXT = WS-GI-Token-TXT	
	GC0710		ef-Line-NUM = SPACES	
	GC0710		Duplicate-CHR = 'Y'	
	GC0710		N' TO WS-RS-Duplicate-CHR	
	GC0710		M 410-Generate-Report-Line	
	GC0710		TO WS-I-SUB	
	GC0710		-SW-Prog-ID-TXT TO WS-XDL-Prog-ID-TXT	
	GC0710		(Duplicate References), TO WS-XDL-Token-TXT	

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Line	Statement		Page: 79
=====			
3315	GC0710	END-IF	
3316		IF WS-Xref-Detail-Line-TXT = SPACES	
3317		MOVE F-SW-Prog-ID-TXT TO WS-XDL-Prog-ID-TXT	
3318		MOVE F-SW-Token-TXT TO WS-XDL-Token-TXT	
3319		MOVE F-SW-Section-TXT TO WS-XDL-Section-TXT	
3320		IF F-SW-Def-Line-NUM NOT = SPACES	
3321		MOVE F-SW-Def-Line-NUM TO WS-XDL-Def-Line-NUM	
3322		END-IF	
3323		END-IF	
3324		IF F-SW-Reference-TXT > '000000'	
3325		ADD 1 TO WS-I-SUB	
3326		<pre>IF WS-I-SUB > WS-Xref-Lines-Per-Rec-NUM</pre>	
3327		PERFORM 410-Generate-Report-Line	
3328		MOVE 1 TO WS-I-SUB	
3329		END-IF	
3330		MOVE F-SW-Ref-Line-NUM	
3331		TO WS-XDL-Ref-Line-NUM (WS-I-SUB)	
3332		MOVE F-SW-Ref-Flag-CHR	
3333		TO WS-XDL-Ref-Flag-CHR (WS-I-SUB)	
3334		END-IF	
3335		END-PERFORM	
3336		IF WS-Xref-Detail-Line-TXT NOT = SPACES	
3337		PERFORM 410-Generate-Report-Line	
3338		END-IF	
3339		•	

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Line	Stateme	/home/vince/cobolsrc/Cobol-Tools/ocic/GCic.cbl ent Page: 80
3341		410-Generate-Report-Line SECTION.
3342		IF WS-Lines-Left-NUM < 1
3343	GC1213	PERFORM 420-Generate-Xref-Footer
3344	GC1213	ADD 1 TO WS-Page-NUM
3345	GC1213	MOVE 'Page:' TO WS-PN-Literal-TXT
	GC1213	MOVE WS-Page-NUM TO WS-PN-Page-NUM
	GC1213	CALL 'C\$JUSTIFY' USING WS-PN-Page-NUM, 'Left'
	GC1213	CALL 'C\$JUSTIFY' USING WS-Page-No-TXT, 'Right'
	GC1213	IF L-Listing-CD = 1 *> LANDSCAPE
	GC1213	MOVE WS-Version-TXT
	GC1213	TO F-Listing-135-REC
	GC1213	MOVE 'Cross-Reference Listing'
	GC1213	TO F-Listing-135-REC(25:23)
	GC1213	MOVE WS-Formatted-DT
	GC1213	TO F-Listing-135-REC(126:10)
	GC1213	WRITE F-Listing-135-REC BEFORE 1 *> Page Header Line #1
	GC1213	MOVE WS-Program-Path-TXT
	GC1213	TO F-Listing-135-REC
	GC1213	<pre>WRITE F-Listing-135-REC BEFORE 1 *> Page Header Line #2 MOVE 'PROGRAM-ID Identifier/Register/Function' &</pre>
	GC1213 GC1213	MOVE 'PROGRAM-ID Identifier/Register/Function' & ' Defn Where Defined References'
	GC1213	
	GC1213	TO F-Listing-135-REC
	GC1213	MOVE WS-Page-No-TXT TO F-Listing-135-REC(126:10)
	GC1213	WRITE F-Listing-135-REC BEFORE 1 *> Page Header Line #3
	GC1213	MOVE ALL '=' TO F-Listing-135-REC
	GC1213	MOVE SPACE TO F-Listing-135-REC(16:1)
	GC1213	F-Listing-135-REC(49:1)
	GC1213	F-Listing-135-REC(56:1)
	GC1213	F-Listing-135-REC(72:1)
	GC1213	WRITE F-Listing-135-REC BEFORE 1 *> Page Header Line #4
3372	GC1213	ELSE *> PORTRAIT
3373	GC1213	MOVE WS-Version-TXT
3374	GC1213	TO F-Listing-96-REC
3375	GC1213	MOVE 'Cross-Reference Listing'
3376	GC1213	TO F-Listing-96-REC(25:23)
3377	GC1213	MOVE WS-Formatted-DT
3378	GC1213	TO F-Listing-96-REC(87:10)
3379	GC1213	WRITE F-Listing-96-REC BEFORE 1 *> Page Header Line #1
3380	GC1213	MOVE WS-Program-Path-TXT(40:96)
3381	GC1213	TO F-Listing-96-REC
3382	GC1213	WRITE F-Listing-96-REC BEFORE 1 *> Page Header Line #2
3383	GC1213	MOVE 'PROGRAM-ID Identifier/Register/Function' &
	GC1213	' Defn Where Defined References'
	GC1213	TO F-Listing-96-REC
	GC1213	MOVE WS-Page-No-TXT
	GC1213	TO F-Listing-96-REC(87:10)
	GC1213	WRITE F-Listing-96-REC BEFORE 1 *> Page Header Line #3
	GC1213	MOVE ALL '=' TO F-Listing-96-REC
	GC1213	MOVE SPACE TO F-Listing-96-REC(16:1)
	GC1213	F-Listing-96-REC(49:1)
3392	GC1213	F-Listing-96-REC(56:1)

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3406 MOVE 0 TO WS-I-SUB
3407 SUBTRACT 1 FROM WS-Lines-Left-NUM 3408 3409 GC1213 420-Generate-Xref-Footer SECTION. 3410 GC1213 IF L-Listing-CD = 1 *> LANDSCAPE WRITE F-Listing-135-REC FROM SPACES BEFORE 1 *> Footer Line #1 3411 GC1213 MOVE ALL '=' 3412 GC1213 3413 GC1213 TO F-Listing-135-REC
3414 GC1213 WRITE F-Listing-135-REC BEFORE 1 *> Footer Line #2
3415 GC1213 MOVE WS-Copyright-TXT TO F-Listing-135-REC(126:10) WRITE F-Listing-135-REC BEFORE 1 *> Footer Line #3 WRITE F-Listing-135-REC BEFORE PAGE *> Footer Line #3 3423 GC1213 WRITE F-Listing-135-REC FROM SPACES BEFORE 1 *> Spaces After FF Charac ter 3424 GC1213 END-IF *> PORTRAIT 3425 GC1213 ELSE 3426 GC1213 WRITE F-Listing-96-REC FROM SPACES BEFORE 1 *> Footer Line #1 3427 GC1213 MOVE ALL '=' 3427 GC1213 MOVE ALL '='
3428 GC1213 TO F-Listing-96-REC
3429 GC1213 WRITE F-Listing-96-REC BEFORE 1 *> Footer Line #2
3430 GC1213 MOVE WS-Copyright-TXT
3431 GC1213 TO F-Listing-96-REC
3432 GC1213 MOVE WS-Page-No-TXT
3433 GC1213 TO F-Listing-96-REC(87:10)
3434 GC1213 IF WS-Suppress-FF-CHR = 'Y'
3435 GC1213 WRITE F-Listing-96-REC BEFORE 1 *> Footer Line
3436 GC1213 ELSE
3437 GC1213 WRITE F-Listing-96-REC BEFORE PAGE *> Footer I WRITE F-Listing-96-REC BEFORE 1 *> Footer Line #3 WRITE F-Listing-96-REC BEFORE PAGE *> Footer Line #3 3438 GC1213 WRITE F-Listing-96-REC FROM SPACES BEFORE 1 *> Spaces After FF Charact

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END-IF END-IF

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=====	=====		
3443		500-Produce-Source-Listing SECTION.	
3444		OPEN INPUT F-Original-Src-FILE	
3445		F-Expanded-Src-FILE	
3446		MOVE O TO WS-Src-Line-NUM	
3447		PERFORM FOREVER	
3448		READ F-Expanded-Src-FILE AT END	
3449	GC1213	MOVE SPACES TO WS-Src-Detail-Line-TXT	
3450	GC1213	PERFORM 530-Generate-Source-Line	
3451	GC1213	UNTIL WS-Lines-Left-NUM = 0	
3452		EXIT PERFORM	
3453		END-READ	
3454	GC0712	IF F-ES-1-7-TXT NOT = '#DEFLIT'	
3455	GC0712	IF $F-ES-1-CHR = '#'$	
	GC0712	PERFORM 510-Control-Record	
3457	GC0712	ELSE	
	GC0712	±	
3459	GC0712	END-IF	
3460	GC0712	END-IF	
3461		END-PERFORM	
3462		CLOSE F-Original-Src-FILE	
3463		F-Expanded-Src-FILE	
3464			

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Line	Statement	Page: 83
		:=====
3466	510-Control-Record SECTION.	
3467	UNSTRING F-ES-2-256-TXT-256	
3468	DELIMITED BY '"'	
3469	INTO WS-Temp-10-Chars-TXT	
3470	WS-Temp-256-Chars-TXT	
3471	WS-Dummy-TXT	
3472	GC1010 IF UPPER-CASE(TRIM(WS-Temp-256-Chars-TXT,Trailing)) =	
3473	GC1010 TRIM(WS-Main-Module-Name-TXT) *> Main Pgm	
3474	SET WS-RS-In-Main-Module-BOOL TO TRUE	
3475	IF WS-Src-Line-NUM > 0	
3476	READ F-Expanded-Src-FILE END-READ	
3477	END-IF	
3478	ELSE *> COPY	
3479	SET WS-RS-In-Copybook-BOOL TO TRUE	
3480	END-IF	
3481		

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=====					
3483		520-Expanded-Src-Record SECTION.			
3484		IF WS-RS-In-Main-Module-BOOL			
3485		ADD 1 To WS-Curr-Line-NUM			
	GC0712	READ F-Original-Src-FILE AT END CONTINUE END-READ			
3487	000112	ADD 1 TO WS-Src-Line-NUM			
3488		MOVE SPACES TO WS-Src-Detail-Line-TXT			
3489		MOVE WS-Src-Line-NUM TO WS-SDL-Line-NUM			
	GC1213	MOVE F-Original-Src-REC TO WS-SDL-Statement-TXT			
	GC0712	MOVE LOWER-CASE(TRIM(F-OS-8-72-TXT, LEADING))			
	GC0712	TO WS-Temp-65-Chars-TXT			
	GC0712	INSPECT WS-Temp-65-Chars-TXT REPLACING ALL '.' BY SPACE			
	GC0712	EVALUATE TRUE			
	GC0712	WHEN F-OS-7-CHR = '/'			
	GC1213	MOVE SPACES TO WS-Src-Detail-Line-TXT			
	GC1213	PERFORM 530-Generate-Source-Line			
	GC1213	UNTIL WS-Lines-Left-NUM = 0			
	GC0712	WHEN WS-Temp-65-Chars-TXT = "eject"			
	GC1213	MOVE SPACES TO WS-Src-Detail-Line-TXT			
	GC1213	PERFORM 530-Generate-Source-Line			
	GC1213	UNTIL WS-Lines-Left-NUM = 0			
	GC0712	EXIT SECTION			
	GC0712	WHEN WS-Temp-65-Chars-TXT = "skip1"			
	GC0712	MOVE SPACES TO WS-Src-Detail-Line-TXT			
	GC0712	PERFORM 530-Generate-Source-Line			
	GC0712	EXIT SECTION			
	GC0712	WHEN WS-Temp-65-Chars-TXT = "skip2"			
	GC0712	MOVE SPACES TO WS-Src-Detail-Line-TXT			
3510	GC0712	PERFORM 530-Generate-Source-Line 2 TIMES			
3511	GC0712	EXIT SECTION			
3512	GC0712	WHEN WS-Temp-65-Chars-TXT = "skip3"			
3513	GC0712	MOVE SPACES TO WS-Src-Detail-Line-TXT			
3514	GC0712	PERFORM 530-Generate-Source-Line 3 TIMES			
3515	GC0712	EXIT SECTION			
3516	GC0712	END-EVALUATE			
3517		PERFORM 530-Generate-Source-Line			
3518		ELSE			
3519		IF F-Expanded-Src-REC NOT = SPACES			
3520		MOVE SPACES TO WS-Src-Detail-Line-TXT			
3521	GC1213	MOVE F-Expanded-Src-REC			
3522		TO WS-SDL-Statement-TXT			
3523	GC0712	MOVE LOWER-CASE(TRIM(F-OS-8-72-TXT, LEADING))			
3524	GC0712	TO WS-Temp-65-Chars-TXT			
3525	GC0712	INSPECT WS-Temp-65-Chars-TXT			
3526	GC0712	REPLACING ALL '.' BY SPACE			
3527	GC0712	EVALUATE TRUE			
3528	GC0712	WHEN WS-Temp-65-Chars-TXT = "eject"			
3529	GC0712	MOVE O TO WS-Lines-Left-NUM			
3530	GC0712	EXIT SECTION			
3531	GC0712	WHEN WS-Temp-65-Chars-TXT = $"skip1"$			
3532	GC0712	MOVE SPACES TO WS-Src-Detail-Line-TXT			
3533	GC0712	PERFORM 530-Generate-Source-Line			
3534	GC0712	EXIT SECTION			

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=====	========		
3535	GC0712	WHEN WS-Temp-65-Chars-TXT = "skip2"	
3536	GC0712	MOVE SPACES TO WS-Src-Detail-Line-TXT	
3537	GC0712	PERFORM 530-Generate-Source-Line 2 TIMES	
3538	GC0712	EXIT SECTION	
3539	GC0712	WHEN WS-Temp-65-Chars-TXT = "skip3"	
3540	GC0712	MOVE SPACES TO WS-Src-Detail-Line-TXT	
3541	GC0712	PERFORM 530-Generate-Source-Line 3 TIMES	
3542	GC0712	EXIT SECTION	
3543	GC0712	END-EVALUATE	
3544		PERFORM 530-Generate-Source-Line	
3545		END-IF	
3546		END-IF	
3547			

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Line	Statemen	
=====		
3549	!	530-Generate-Source-Line SECTION.
3550	GC1213	MOVE 1 TO WS-Src-Lines-NUM
3551	GC1213	IF L-Listing-CD = 1 *> LANDSCAPE
3552	GC1213	IF WS-SDL-Statement-TXT(129:128) > SPACES
3553	GC1213	ADD 1 TO WS-Src-Lines-NUM
3554	GC1213	END-IF
3555	GC1213	ELSE *> PORTRAIT
3556	GC1213	<pre>IF WS-SDL-Statement-TXT(90:167) > SPACES</pre>
3557	GC1213	ADD 1 TO WS-Src-Lines-NUM
3558	GC1213	IF WS-SDL-Statement-TXT(179:78) > SPACES
3559	GC1213	ADD 1 TO WS-Src-Lines-NUM
3560	GC1213	END-IF
3561	GC1213	END-IF
	GC1213	END-IF
	GC1213	IF WS-Lines-Left-NUM < WS-Src-Lines-NUM
	GC1213	IF WS-Page-Num > 0 *> Don't print footer before page 1
	GC1213	IF L-Listing-CD = 1 *> LANDSCAPE
	GC1213	IF WS-Src-Lines-NUM = 2
	GC1213	WRITE F-Listing-135-REC FROM SPACES BEFORE 1 *> Blank Line
	GC1213	END-IF
	GC1213	WRITE F-Listing-135-REC FROM SPACES BEFORE 1 *> Footer Line #1
	GC1213	MOVE ALL '='
	GC1213	TO F-Listing-135-REC
	GC1213	WRITE F-Listing-135-REC BEFORE 1 *> Footer Line #2
	GC1213	MOVE WS-Copyright-TXT
	GC1213 GC1213	TO F-Listing-135-REC
	GC1213	MOVE WS-Page-No-TXT TO F-Listing-135-REC(126:10)
	GC1213	WRITE F-Listing-135-REC BEFORE PAGE *> Footer Line #3
	GC1213	WRITE F-Listing-135-REC FROM SPACES BEFORE 1 *> Spaces After FF Ch
0010	aracter	•
3579	GC1213	ELSE *> PORTRAIT
	GC1213	EVALUATE WS-Src-Lines-NUM
	GC1213	WHEN 1 *> Need no extra blank lines
	GC1213	CONTINUE
3583	GC1213	WHEN 2 *> Need 1 extra blank line
3584	GC1213	WRITE F-Listing-96-REC FROM SPACES BEFORE 1
3585	GC1213	WHEN 3 *> Need 2 extra blank lines
3586	GC1213	WRITE F-Listing-96-REC FROM SPACES BEFORE 1
3587	GC1213	WRITE F-Listing-96-REC FROM SPACES BEFORE 1
3588	GC1213	END-EVALUATE
3589	GC1213	WRITE F-Listing-96-REC FROM SPACES BEFORE 1 *> Footer Line #1
3590	GC1213	MOVE ALL '='
	GC1213	TO F-Listing-96-REC
	GC1213	WRITE F-Listing-96-REC BEFORE 1 *> Footer Line #2
	GC1213	MOVE WS-Copyright-TXT
	GC1213	TO F-Listing-96-REC
	GC1213	MOVE WS-Page-No-TXT
	GC1213	TO F-Listing-96-REC(87:10)
	GC1213	WRITE F-Listing-96-REC BEFORE PAGE *> Footer Line #3
3598	GC1213	WRITE F-Listing-96-REC FROM SPACES BEFORE 1 *> Spaces After FF Cha
	racter	

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Line	Statement	/home/vince/cobolsrc/Cobol-Tools/oci	Page: 87
	GC1213	END-IF	
	GC1213	END-IF	
	GC1213	ADD 1 TO WS-Page-NUM	
	GC1213	MOVE 'Page:' TO WS-PN-Literal-TXT	
	GC1213	MOVE WS-Page-NUM TO WS-PN-Page-NUM	
	GC1213	CALL 'C\$JUSTIFY' USING WS-PN-Page-NUM, 'Left'	
	GC1213	CALL 'C\$JUSTIFY' USING WS-Page-No-TXT, 'Right'	
3606	GC1213	IF L-Listing-CD = 1 *> LANDSCAPE	
3607	GC1213	MOVE WS-Version-TXT	
3608	GC1213	TO F-Listing-135-REC	
3609	GC1213	MOVE 'Source Listing'	
3610	GC1213	TO F-Listing-135-REC(25:14)	
3611	GC1213	MOVE WS-Formatted-DT	
3612	GC1213	TO F-Listing-135-REC(126:10)	
3613	GC1213	WRITE F-Listing-135-REC BEFORE 1 *> Page Header Line #1	
3614	GC1213	MOVE WS-Program-Path-TXT	
3615	GC1213	TO F-Listing-135-REC	
	GC1213	WRITE F-Listing-135-REC BEFORE 1 *> Page Header Line #2	
	GC1213	MOVE 'Line Statement'	
	GC1213	TO F-Listing-135-REC	
	GC1213	MOVE WS-Page-No-TXT	
	GC1213	TO F-Listing-135-REC(126:10)	
	GC1213	WRITE F-Listing-135-REC BEFORE 1 *> Page Header Line #3	
	GC1213	MOVE WS-Src-Dashes-TXT	
	GC1213	TO F-Listing-135-REC	
	GC1213	WRITE F-Listing-135-REC BEFORE 1 *> Page Header Line #4	
	GC1213 GC1213	ELSE *> PORTRAIT MOVE WS-Version-TXT	
	GC1213 GC1213	TO F-Listing-96-REC	
	GC1213	MOVE 'Source Listing'	
	GC1213	TO F-Listing-96-REC(25:14)	
	GC1213	MOVE WS-Formatted-DT	
	GC1213	TO F-Listing-96-REC(87:10)	
	GC1213	WRITE F-Listing-96-REC BEFORE 1 *> Page Header Line #1	
	GC1213	MOVE WS-Program-Path-TXT(40:96)	
3634	GC1213	TO F-Listing-96-REC	
3635	GC1213	WRITE F-Listing-96-REC BEFORE 1 *> Page Header Line #2	
3636	GC1213	MOVE 'Line Statement'	
3637	GC1213	TO F-Listing-96-REC	
3638	GC1213	MOVE WS-Page-No-TXT	
3639	GC1213	TO F-Listing-96-REC(87:10)	
3640	GC1213	WRITE F-Listing-96-REC BEFORE 1 *> Page Header Line #3	
3641	GC1213	MOVE WS-Src-Dashes-TXT	
	GC1213	TO F-Listing-96-REC	
	GC1213	WRITE F-Listing-96-REC BEFORE 1 *> Page Header Line #4	
	GC1213	END-IF	
	GC1213	COMPUTE WS-Lines-Left-NUM = WS-Lines-Per-Page-NUM - 4	
		END-IF	
		IF L-Listing-CD = 1 *> LANDSCAPE EVALUATE US-Specified NUM	
	GC1213	EVALUATE WS-Src-Lines-NUM	
	GC1213 GC1213	WHEN 1 MOVE WS-Src-Dotail-Lino-TYT TO F-Listing-135-PEC	
	GC1213 GC1213	MOVE WS-Src-Detail-Line-TXT TO F-Listing-135-REC WRITE F-Listing-96-REC BEFORE 1	
5051	401210	WITTE I PISCIUS ON HER DELOHE I	

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Line	Stateme	Page: 8	88
	GC1213	SUBTRACT 1 FROM WS-Lines-Left-NUM	
	GC1213	WHEN 2	
3654	GC1213	MOVE WS-SDL-Statement-TXT TO WS-Src-Hold-TXT	
3655	GC1213	MOVE WS-Src-Detail-Line-TXT TO F-Listing-135-REC	
3656	GC1213	WRITE F-Listing-135-REC BEFORE 1 *> Prints chars 1-128 of stmnt	
3657	GC1213	MOVE SPACES TO WS-Src-Detail-Line-TXT	
3658	GC1213	MOVE WS-Src-Hold-TXT(129:128) TO WS-SDL-Statement-TXT	
3659	GC1213	MOVE WS-Src-Detail-Line-TXT TO F-Listing-135-REC	
3660	GC1213	WRITE F-Listing-135-REC BEFORE 1 *> Prints chars 129-256 of stmnt	
3661	GC1213	SUBTRACT 2 FROM WS-Lines-Left-NUM	
3662	GC1213	END-EVALUATE	
	GC1213	ELSE *> PORTRAIT	
	GC1213	EVALUATE WS-Src-Lines-NUM	
	GC1213	WHEN 1 *> Print only chars 1-89 of stmnt	
	GC1213	WRITE F-Listing-96-REC FROM WS-Src-Detail-Line-TXT	
	GC1213	BEFORE 1	
	GC1213	SUBTRACT 1 FROM WS-Lines-Left-NUM	
	GC1213	WHEN 2 *> Print only chars 1-89 and 90-178 of text	
	GC1213 GC1213	MOVE WS-SDL-Statement-TXT TO WS-Src-Hold-TXT	
	GC1213	WRITE F-Listing-96-REC FROM WS-Src-Detail-Line-TXT BEFORE 1	
	GC1213	MOVE SPACES TO WS-Src-Detail-Line-TXT	
	GC1213	MOVE WS-Src-Hold-TXT(90:89) TO WS-SDL-Statement-TXT	
	GC1213	WRITE F-Listing-96-REC FROM WS-Src-Detail-Line-TXT	
	GC1213	BEFORE 1	
3677	GC1213	SUBTRACT 2 FROM WS-Lines-Left-NUM	
	GC1213	WHEN 3 *> Print chars 1-89, 90-178 and 179-256 of stmnt	
3679	GC1213	MOVE WS-SDL-Statement-TXT TO WS-Src-Hold-TXT	
3680	GC1213	WRITE F-Listing-96-REC FROM WS-Src-Detail-Line-TXT	
3681	GC1213	BEFORE 1	
3682	GC1213	MOVE SPACES TO WS-Src-Detail-Line-TXT	
3683	GC1213	MOVE WS-Src-Hold-TXT(90:89) TO WS-SDL-Statement-TXT	
3684	GC1213	WRITE F-Listing-96-REC FROM WS-Src-Detail-Line-TXT	
	GC1213	BEFORE 1	
	GC1213	MOVE SPACES TO WS-Src-Detail-Line-TXT	
	GC1213	MOVE WS-Src-Hold-TXT(179:78) TO WS-SDL-Statement-TXT	
	GC1213	WRITE F-Listing-96-REC FROM WS-Src-Detail-Line-TXT	
	GC1213	BEFORE 1	
	GC1213	SUBTRACT 3 FROM WS-Lines-Left-NUM	
	GC1213	END-EVALUATE END-IF	
3692	GC1213	MOVE SPACES TO WS-Src-Detail-Line-TXT	
3694		HOAP DIVOPD IO MD DIC Decett Fille IVI	
3695		·	
3696	1	END PROGRAM LISTING.	

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PROGRAM-ID	Identifier/Register/Function	Defn	Where Defined	Reference		Page: 89
CHECKSRC	000-Main	1318	PROCEDURE			
CHECKSRC	L-A1-CHR	1308	LINKAGE	1320 1342	1332	1335
CHECKSRC	L-A2-IDENT-DIVISION-BOOL	1313	LINKAGE	1364*		
CHECKSRC	L-A2-LINKAGE-SECTION-BOOL	1312	LINKAGE	1358*		
CHECKSRC	L-A2-Nothing-Special-BOOL	1314	LINKAGE	1319*		
CHECKSRC	L-Argument-1-TXT	1307	LINKAGE	1316		
CHECKSRC	L-Argument-2-CHR	1311	LINKAGE	1317		
CHECKSRC	WS-Compressed-Src-TXT	1294	WORKING-STORAGE	1329* 1362	1352	1356
CHECKSRC	WS-CS-CHR	1295	WORKING-STORAGE	1336* 1355	1342* 1361	1351
CHECKSRC	WS-I-SUB	1303	WORKING-STORAGE	1330* 1335 1349 1355 1361	1331 1342 1351 1355 1361	1332 1348* 1352 1356 1362
CHECKSRC	WS-J-SUB		WORKING-STORAGE	1341*	1334* 1342	1336
CHECKSRC CHECKSRC CHECKSRC CHECKSRC	WS-RS-Found-SPACE-CHR WS-RS-Not-Skipping-SPACE-BOOL WS-RS-Skipping-SPACE-BOOL WS-Runtime-Switches-TXT	1301 1300	WORKING-STORAGE WORKING-STORAGE WORKING-STORAGE WORKING-STORAGE	1327* 1337*	1333	1340*

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DDOGDAN TD	Table to the control of the control		/vince/cobols				
PROGRAM-ID	Identifier/Register/Function	Defn 	Where Define	a 	Referenc	es 	Page: 90
GCic	000-File-Error	 657	PROCEDURE				
GCic	000-Main		PROCEDURE				
GCic	100-Initialization		PROCEDURE		679		
GCic	200-Let-User-Set-Switches		PROCEDURE		682		
GCic	210-Run-Compiler		PROCEDURE		683		
GCic	220-Make-Listing		PROCEDURE		687		
GCic	230-Run-Program		PROCEDURE		691		
GCic	240-Find-LINKAGE-SECTION		PROCEDURE		750		
GCic	250-Autoload-Listing		PROCEDURE		693	1034	1068
GCic	900-Terminate		PROCEDURE		695	744	887
					1035	1169	
GCic	COB-COLOR-BLACK	181	[screenio]	442	447	537
			2	_	547	557	562
					572	579	594
					609	625	632
					639		
GCic	COB-COLOR-BLUE	181	ſscreenio]	525		
GCic	COB-COLOR-CYAN		[screenio	j	538		
GCic	COB-COLOR-GREEN		[screenio]	448	563	610
				-	626		
GCic	COB-COLOR-MAGENTA	181	[screenio]			
GCic	COB-COLOR-RED		Screenio	ĵ	531	595	
GCic	COB-COLOR-WHITE		[screenio	ĵ	443	526	532
			2	-	548	558	573
					580	633	640
GCic	COB-COLOR-YELLOW	181	[screenio]			
GCic	COB-SCR-BACK-TAB		[screenio]			
GCic	COB-SCR-BACKSPACE	181	[screenio]			
GCic	COB-SCR-DELETE	181	[screenio]			
GCic	COB-SCR-ESC	181	[screenio]	886		
GCic	COB-SCR-F1	181	[screenio]	833		
GCic	COB-SCR-F10	181	[screenio]			
GCic	COB-SCR-F11	181	[screenio]			
GCic	COB-SCR-F12	181	[screenio]	889		
GCic	COB-SCR-F13	181	[screenio]			
GCic	COB-SCR-F14	181	[screenio]			
GCic	COB-SCR-F15	181	[screenio]			
GCic	COB-SCR-F16	181	[screenio]			
GCic	COB-SCR-F17	181	[screenio]			
GCic	COB-SCR-F18	181	[screenio]			
GCic	COB-SCR-F19	181	[screenio]			
GCic	COB-SCR-F2	181	[screenio]	839		
GCic	COB-SCR-F20	181	[screenio]			
GCic	COB-SCR-F21	181	[screenio]			
GCic	COB-SCR-F22	181	[screenio]			
GCic	COB-SCR-F23	181	[screenio]			
GCic	COB-SCR-F24	181	[screenio]			
GCic	COB-SCR-F25	181	[screenio]			
GCic	COB-SCR-F26	181	[screenio]			
GCic	COB-SCR-F27	181	[screenio]			
GCic	COB-SCR-F28	181	[screenio]			
GCic	COB-SCR-F29	181	[screenio]			
GCic	COB-SCR-F3	181	[screenio]	845		

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		/home/wings/scholars/Cohol_Tools/scis/CCis.shl

		/home,	/vince/cobolsrc	/Cobol-Tools/o	cic/GCic.cbl
PROGRAM-ID	Identifier/Register/Function	Defn	Where Defined	References	Page: 91
=========		=====	==========	= ========	
GCic	COB-SCR-F30	181	[screenio]	
GCic	COB-SCR-F31	181	[screenio]	
GCic	COB-SCR-F32	181	[screenio]	
GCic	COB-SCR-F33	181	[screenio]	
GCic	COB-SCR-F34	181	[screenio]	
GCic	COB-SCR-F35	181	[screenio]	
GCic	COB-SCR-F36	181	[screenio]	
GCic	COB-SCR-F37	181	[screenio]	
GCic	COB-SCR-F38	181	[screenio]	
GCic	COB-SCR-F39	181	[screenio]	
GCic	COB-SCR-F4	181	[screenio	851	
GCic	COB-SCR-F40	181	[screenio]	
GCic	COB-SCR-F41	181	[screenio]	
GCic	COB-SCR-F42	181	[screenio]	
GCic	COB-SCR-F43	181	[screenio]	
GCic	COB-SCR-F44	181	[screenio]	
GCic	COB-SCR-F45	181	[screenio]	
GCic	COB-SCR-F46	181]	
GCic	COB-SCR-F47	181	[screenio]	
GCic	COB-SCR-F48]	
GCic	COB-SCR-F49]	
GCic	COB-SCR-F5			857	
GCic	COB-SCR-F50		=]	
GCic	COB-SCR-F51		=	<u>.</u>]	
GCic	COB-SCR-F52]	
GCic	COB-SCR-F53]	
GCic	COB-SCR-F54]	
GCic	COB-SCR-F55		=]	
GCic	COB-SCR-F56]	
]	
GCic	COB-SCR-F57]	
GCic	COB-SCR-F58		_ <u>_</u>		
GCic	COB-SCR-F59] 060	
GCic	COB-SCR-F6] 862	
GCic	COB-SCR-F60]	
GCic	COB-SCR-F61]	
GCic	COB-SCR-F62]	
GCic	COB-SCR-F63]	
GCic	COB-SCR-F64		[screenio]	
GCic	COB-SCR-F7		=	868	
GCic	COB-SCR-F8			874	
GCic	COB-SCR-F9] 880	
GCic	COB-SCR-FATAL]	
GCic	COB-SCR-INSERT]	
GCic	COB-SCR-KEY-DOWN]	
GCic	COB-SCR-KEY-END	181]	
GCic	COB-SCR-KEY-HOME]	
GCic	COB-SCR-KEY-LEFT]	
GCic	COB-SCR-KEY-RIGHT]	
GCic	COB-SCR-KEY-UP	181	[screenio]	
GCic	COB-SCR-KEY_DOWN	181	[screenio]	
GCic	COB-SCR-KEY_UP	181	[screenio]	
GCic	COB-SCR-MAX-FIELD	181	[screenio]	
GCic	COB-SCR-NO-FIELD	181	[screenio]	

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PROGRAM-ID	Identifier/Register/Function	Defn	/vince/cobolsrc/ Where Defined	Reference		/GCic.cbl Page: 92
GCic	COB-SCR-OK		[screenio]			
GCic	COB-SCR-PAGE-DOWN	181	[screenio]			
GCic	COB-SCR-PAGE-UP	181	[screenio]			
GCic	Cob-Scr-Page_Down	181	[screenio]			
GCic	Cob-Scr-Page_Up	181	[screenio]			
GCic	COB-SCR-PRINT	181	[screenio]			
GCic	COB-SCR-TAB	181	[screenio]			
GCic	COB-SCR-TIME-OUT	181	[screenio]			
GCic	F-Cobc-Output-FILE	173	FILE	164	1011	1029
GCic	F-Cobc-Output-REC	174	FILE	1012 1026*	1017* 1027	1018
GCic	F-Source-Code-FILE	176	FILE	167 1181 1196	658 1182 1203	1177 1195
GCic	F-Source-Code-REC	177	FILE	1186C	1200C	
GCic	F1		WORKING-STORAGE	209		
GCic	F12		WORKING-STORAGE	203		
GCic	F2		WORKING-STORAGE	216		
GCic	F3		WORKING-STORAGE	212		
GCic	F4		WORKING-STORAGE	210		
GCic	F5		WORKING-STORAGE	213	260	
GCic	F6		WORKING-STORAGE	214		
GCic	F7		WORKING-STORAGE	217		
GCic	F8		WORKING-STORAGE	211		
GCic	F9		WORKING-STORAGE	215		
GCic	LD-Horiz-Line	436	SCREEN	804		
GCic	LD-LL-Corner	431	SCREEN	459 519	489	505
GCic	LD-Lower-T	435	SCREEN	491		
GCic	LD-LR-Corner	433	SCREEN	461 521	493	507
GCic	LD-UL-Corner	430	SCREEN	449 509	463	495
GCic	LD-Upper-T	434	SCREEN	465		
GCic	LD-UR-Corner	432	SCREEN	451 511	467	497
GCic	LD-Vert-Line	437	SCREEN	453	454	456
				457	469	470
				471	473	474
				475	477	478
				479	481	482
				483	485	486
				487	499	500
				502	503	513
				514	516	517
GCic GCic	LPP LPPP		PROCEDURE PROCEDURE	1054C 1055C		
GCic	RETURN-CODE		PROCEDURE	1013 1062	1046*	1060*
GCic	S-Blank-SCR	440	SCREEN	686	1237	1266
GCic	S-Switches-SCR	442	SCREEN	830* 1030	911 1045	1001 1066
				1077	1263	

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PROGRAM-ID	Identifier/Register/Function	Defn	/vince/cobolsrc/ Where Defined	Reference	es	Page: 93
GCic	SELCHAR		PROCEDURE	722	825	 828
				835	841	847
				853	864	870
				876	882	1205
GCic	WS-Cmd-Args-TXT	232	WORKING-STORAGE	726*	728	729
	-			732	737	
GCic	WS-Cmd-End-Quote-CHR	234	WORKING-STORAGE	730*	733	
GCic	WS-Cmd-SUB	236	WORKING-STORAGE	727*	728	729
				731*	735*	740*
GCic	WS-Cmd-TXT	230	WORKING-STORAGE	908*	1003*	1008*
				1010C	1079*	1086*
				1096*	1099*	1106*
				1110*	1116*	1121*
				1126*	1134*	1142*
				1148*	1154*	1159*
				1166C	1218*	1222*
				1223C	1225*	1229*
				1230C	1240*	1243*
				1246C	1248C	1250C
				1252C	1254C	
GCic	WS-Cobc-Cmd-TXT	238	WORKING-STORAGE	909*	918*	922*
				926*	930*	935*
				940*	945*	950*
				955*	960*	964*
				977*	985*	989*
				1004		
GCic	WS-Compilation-Switches-TXT	183	WORKING-STORAGE			
GCic	WS-Config-Fn-TXT	240	WORKING-STORAGE	914*	920	
GCic	WS-CS-All-Switches-TXT	218	WORKING-STORAGE			
GCic	WS-CS-Arg-H1-TXT	185	WORKING-STORAGE	643*		
GCic	WS-CS-Arg-H2-TXT	186	WORKING-STORAGE	644*		
GCic	WS-CS-Args-TXT	184	WORKING-STORAGE	1157	1158	
GCic	WS-CS-Config-NUM	203	WORKING-STORAGE	635	890*	891
				892*	913	
GCic	WS-CS-DEBUG-CHR	220	WORKING-STORAGE	596	834	835*
				837*	933	
GCic	WS-CS-EXECUTE-CHR	221	WORKING-STORAGE	599	689	852
				853*	855*	
GCic	WS-CS-Extra-H1-TXT	206	WORKING-STORAGE	641*		
GCic	WS-CS-Extra-H2-TXT	207	WORKING-STORAGE	642*		
GCic	WS-CS-Extra-TXT	205	WORKING-STORAGE	981	983	
GCic	WS-CS-Filename-TXT	196	WORKING-STORAGE	635	913	
GCic	WS-CS-Filenames-Table-TXT	195	WORKING-STORAGE			
GCic	WS-CS-Filenames-TXT	187	WORKING-STORAGE	195		
GCic	WS-CS-FREE-CHR	222	WORKING-STORAGE	604	875	876*
				878*	958	
GCic	WS-CS-LIBRARY-CHR	223	WORKING-STORAGE		846	847*
				849*	924	1084
				1139	1178*	
GCic	WS-CS-LISTING-CHR	224	WORKING-STORAGE	600	685	822*
				825*	828*	971
				973*	975	
GCic	WS-CS-NOFUNC-CHR	225	WORKING-STORAGE	602	863	864*

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PROGRAM-ID	Identifier/Register/Function	Defn	/vince/cobolsrc/0 Where Defined	References	5	Page: 94
				866*	948	
GCic	WS-CS-NOTRUNC-CHR	226	WORKING-STORAGE	605	881	882*
				884*	938	
GCic	WS-CS-Switch-Defaults-TXT	208	WORKING-STORAGE	219		
GCic	WS-CS-TRACEALL-CHR	227	WORKING-STORAGE		840	841*
				843*	943	
GCic	WS-CS-WARNALL-CHR	228	WORKING-STORAGE	603 872*	869 953	870*
GCic	WS-Delete-Fn-TXT	242	WORKING-STORAGE			
GCic	WS-File-Name-TXT	244	WORKING-STORAGE		666	671
				734*	739*	
				755	758	765
aa: -	UC Pile Obstace Manager BYT	040	HODISTNA GEODAGE	768	779	1052C
GCic	WS-File-Status-Message-TXT		WORKING-STORAGE	760	767.	771
GCic	WS-FN-CHR		WORKING-STORAGE WORKING-STORAGE		767*	
GCic	WS-FSM-Msg-TXT	252	WURKING-SIURAGE	661* 661*	661* 661*	
				661*	661*	
				661*	661*	
				661*	661*	
				661*	661*	
				661*	661*	
				661*	661*	
				661*	661*	
				661*	661*	
GCic	WS-FSM-Status-CD	250	WORKING-STORAGE	169	661	663
GCic	WS-Horizontal-Line-TXT	254	WORKING-STORAGE	450	460	464
				466	490	492
				496	506	510
				520	804*	
GCic	WS-I-SUB	256	WORKING-STORAGE		759	760
				761	763	767
				771	786*	787
				788 795	789 799	791 912*
				923*	927*	
				936*	941*	946*
				951*	956*	961*
				965*	978*	986*
				990*	1080*	
				1097*	1100*	1107*
				1111*	1117*	1122*
				1127*	1135*	1143*
				1149*	1155*	1160*
GCic	WS-J-SUB	258	WORKING-STORAGE	1102* 1109	1103	1104
GCic	WS-Listing-CD	260	WORKING-STORAGE	819 860*	858* 1056C	
GCic	WS-Listing-Filename-TXT	262	WORKING-STORAGE	164	995*	
	-			1005	1023	1051C
				1221	1228	
GCic	WS-Listing-TXT	264	WORKING-STORAGE	616 827*	821*	824*

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PROGRAM-ID	Identifier/Register/Function	Defn	Where Defined	Reference		Page: 95
GCic	WS-OC-Compile-DT		WORKING-STORAGE		 *712	
GCic	WS-OS-Cygwin-BOOL		WORKING-STORAGE		779	1094
4020	02 0/8 2002	000		1124	1217	2001
GCic	WS-OS-Dir-CHR	287	WORKING-STORAGE	756*	760	771
				780*	1120	
GCic	WS-OS-Exe-Ext-CONST	288	WORKING-STORAGE	1140	1141	
GCic	WS-OS-Lib-Ext-CONST	289	WORKING-STORAGE	1146	1147	
GCic	WS-OS-Lib-Type-CONST		WORKING-STORAGE	614		
GCic	WS-OS-OSX-BOOL	302	WORKING-STORAGE	1224		
GCic	WS-OS-Type-CD	291	WORKING-STORAGE	806	1053C	
GCic	WS-OS-Type-FILLER-TXT	304	WORKING-STORAGE	310		
GCic	WS-OS-Type-TXT	311	WORKING-STORAGE	806		
GCic	WS-OS-Types-TXT	310	WORKING-STORAGE			
GCic	WS-OS-UNIX-BOOL	301	WORKING-STORAGE	1124		
GCic	WS-OS-Windows-BOOL	299	WORKING-STORAGE	1217	1238	
GCic	WS-Output-Msg-TXT	314	WORKING-STORAGE	533	662*	809*
				896*	910*	1000*
				1015*	1016	1024*
				1032*	1044*	1050*
				1059*	1064*	1076*
				1167*	1168*	1262
GCic	WS-Path-Delimiter-CHR	316	WORKING-STORAGE			
GCic	WS-PFN-CHR	323	WORKING-STORAGE	788	795*	799*
GCic	WS-Pgm-Nm-TXT	326	WORKING-STORAGE	792*	797*	994
				1133	1239	1242
GCic	WS-Prog-Extension-TXT	318	WORKING-STORAGE	793*	798*	
GCic	WS-Prog-File-Name-TXT	322	WORKING-STORAGE		765*	
				786	792	796
				988		
GCic	WS-Prog-Folder-TXT	320	WORKING-STORAGE	575	764*	
				773	774*	
				1093	1094	1098
				1103	1104	1109
aa.	770 DO 4 1 D			1115	4400	
GCic	WS-RS-1st-Prog-Complete-BOOL		WORKING-STORAGE		1189*	
GCic	WS-RS-Compile-Failed-BOOL		WORKING-STORAGE	1021*	1033	
GCic	WS-RS-Compile-OK-BOOL		WORKING-STORAGE	684	1014*	
GCic	WS-RS-Compile-OK-CHR		WORKING-STORAGE	601		
GCic	WS-RS-Compile-OK-Warn-BOOL WS-RS-Complete-BOOL		WORKING-STORAGE WORKING-STORAGE	684	1010+	
GCic GCic	WS-RS-Complete-BOOL WS-RS-Complete-CHR		WORKING-STORAGE	681	1019*	
GCic	WS-RS-Complete-Chk WS-RS-Double-Quote-Used-BOOL		WORKING-STORAGE	1092*	1118*	1152
GCic	WS-RS-IDENT-DIV-CHR		WORKING-STORAGE	1032*	1110*	1132
GCic	WS-RS-More-To-1st-Prog-BOOL		WORKING-STORAGE	1179*		
GCic	WS-RS-No-Switch-Changes-BOOL		WORKING-STORAGE	818	899*	
GCic	WS-RS-No-Switch-Chgs-CHR		WORKING-STORAGE	010	0004	
GCic	WS-RS-Not-Complete-BOOL		WORKING-STORAGE	680*		
GCic	WS-RS-Output-File-Avail-BOOL		WORKING-STORAGE	690	1002*	
GCic	WS-RS-Output-File-Busy-BOOL		WORKING-STORAGE	200		
GCic	WS-RS-Output-File-Busy-CHR		WORKING-STORAGE			
GCic	WS-RS-Quote-CHR		WORKING-STORAGE			
GCic	WS-RS-Source-Rec-Ident-BOOL		WORKING-STORAGE	1188	1194	
GCic	WS-RS-Source-Rec-Ignored-BOOL		WORKING-STORAGE	1192*		
						

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_		/home	/vince/cobolsrc/	Cobol-Tool	Ls/ocic,	/GCic.cbl
PROGRAM-ID	Identifier/Register/Function	Defn	Where Defined	Reference	es	Page: 96
===========	. ====================================	. =====	======================================	4400	4004	
GCic	WS-RS-Source-Rec-Linkage-BOOL	348	WORKING-STORAGE		1204	
GCic	WS-RS-Source-Record-Type-CHR	347	WORKING-STORAGE	1187C	1201C	
GCic	WS-RS-Switch-Changes-BOOL	343	WORKING-STORAGE	817*		
GCic	WS-RS-Switch-Error-CHR	351	WORKING-STORAGE			
GCic	WS-RS-Switch-Is-Bad-BOOL	352	WORKING-STORAGE			
GCic	WS-RS-Switch-Is-Good-BOOL	353	WORKING-STORAGE			
GCic	WS-Runtime-Switches-TXT	328	WORKING-STORAGE			
GCic	WS-Tally-QTY	355	WORKING-STORAGE	968*	970*	972

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LISTING			PROCEDURE		
LISTING	100-Initialization	2427	PROCEDURE	2411	
LISTING	300-Tokenize-Source		PROCEDURE	2418	
LISTING	310-Get-Token	2551	PROCEDURE	2509	
LISTING	311-Control-Record	2711	PROCEDURE	2570	
LISTING	312-Expanded-Src-Record	2757	PROCEDURE	2572	
LISTING	313-Check-For-Numeric-Token	2768	PROCEDURE	2698	
LISTING	320-IDENTIFICATION-DIVISION	2810	PROCEDURE	2530	
LISTING	330-ENVIRONMENT-DIVISION	2830	PROCEDURE	2532	
LISTING	340-DATA-DIVISION	2856	PROCEDURE	2534	
LISTING	350-PROCEDURE-DIVISION	2912	PROCEDURE	2536	
LISTING	351-ACCEPT	2983	PROCEDURE	2939	
LISTING	351-ADD	2993	PROCEDURE	2941	
LISTING	351-ALLOCATE	3004	PROCEDURE	2943	
LISTING	351-CALL	3016	PROCEDURE	2945	
LISTING	351-COMPUTE	3027	PROCEDURE	2947	
LISTING	351-DIVIDE	3036	PROCEDURE	2949	
LISTING	351-FREE	3056	PROCEDURE	2951	
LISTING	351-GENERATE	3060	PROCEDURE	2953 2957	2973
LISTING	351-INITIALIZE	3064	PROCEDURE	2955	
LISTING	351-INITIATE	3073	PROCEDURE		
LISTING	351-INSPECT	3077	PROCEDURE	2959	
LISTING	351-MOVE	3107	PROCEDURE	2961	
LISTING	351-MULTIPLY	3116	PROCEDURE	2963	
LISTING	351-PERFORM	3132	PROCEDURE	2965	
LISTING	351-SET	3145	PROCEDURE	2967	
LISTING	351-STRING	3154	PROCEDURE	2969	
LISTING	351-SUBTRACT	3165	PROCEDURE	2971	
LISTING	351-TERMINATE	3176	PROCEDURE		
LISTING	351-TRANSFORM	3180	PROCEDURE	2975	
LISTING	351-UNSTRING	3190	PROCEDURE	2977	
LISTING	360-Release-Def	3207	PROCEDURE	2846 2883	2886
				2889 2892	2895
				2930	
LISTING	361-Release-Ref	3218	PROCEDURE	2848 2852	2905
				2979 2989	3000
				3012 3032	3052
				3069 3103	
				3128 3141	
				3161 3172	3186
				3203	
LISTING	362-Release-Upd	3223	PROCEDURE	2898 2901	. 2986
				2996 2998	
				3010 3019	3021
				3030 3048	3050
				3057 3061	
				3074 3084	3110
				3126 3135	
				3148 3157	
				3168 3170	
				3183 3193	3195
				3197 3199	
LISTING	363-Set-Upd	3228	PROCEDURE	3039 3119	3224

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LISTING	364-Set-Ref		PROCEDURE	3080	3219	
LISTING	365-Release-Arg	3247	PROCEDURE	3023		
LISTING	366-Set-Arg	3252	PROCEDURE	3248		
LISTING	400-Produce-Xref-Listing	3263	PROCEDURE	2419		
LISTING	410-Generate-Report-Line	3341	PROCEDURE	3272	3275	3285
	•			3289	3299	3311
				3327	3337	
LISTING	420-Generate-Xref-Footer	3409	PROCEDURE	3278	3343	
LISTING	500-Produce-Source-Listing	3443	PROCEDURE	2413		
LISTING	510-Control-Record	3466	PROCEDURE	3456		
LISTING	520-Expanded-Src-Record	3483	PROCEDURE	3458		
LISTING	530-Generate-Source-Line	3549	PROCEDURE	3450	3497	3501
				3506	3510	3514
				3517	3533	3537
				3541	3544	
LISTING	F-ES-1-7-TXT	1430	FILE	2568	3454	
LISTING	F-ES-1-CHR	1427	FILE	2569	3455	
LISTING	F-ES-2-256-TXT-256	1428	FILE	2712	3467	
LISTING	F-ES-8-256-TXT	1431	FILE			
LISTING	F-Expanded-Src-FILE	1425	FILE	1416	2501	2548
	-			2558	3445	3448
				3463	3476	
LISTING	F-Expanded-Src-REC	1426	FILE	2502*	2556	2580
	•			2582	2612	2616
				2625	2629	2638
				2642	2650	2668
				2753*	2758	3519
				3521		
LISTING	F-Expanded-Src2-REC	1429	FILE			
LISTING	F-Listing-135-REC	1435	FILE	3351*	3353*	3355*
				3356	3358*	3359
				3362*	3364*	3365
				3366*	3367*	3368
				3369	3370	3371
				3399	3411	3413*
				3414	3416*	3418*
				3420	3422	3423
				3567	3569	3571*
				3572	3574*	3576*
				3577	3578	3608*
				3610*	3612*	3613
				3615*	3616	3618*
				3620*	3621	3623*
				3624	3650*	3655*
				3656	3659*	3660
LISTING	F-Listing-96-REC	1434	FILE	3374*	3376*	3378*
				3379	3381*	
				3385*	3387*	3388
				3389*	3390*	3391
				3392	3393	3394
				3402	3426	3428*
				3429	3431*	3433*
				3435	3437	3438

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DDOCD AM_TD	Identifier/Perigter/Function		/vince/cobolsrc			
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				3584	3586	3587
				3589	3591*	3592
				3594*	3596*	3597
				3598	3627*	3629*
				3631*	3632	3634*
				3635	3637*	3639*
				3640	3642*	
				3651	3666	3671
				3675	3680	3684
				3688		
LISTING	F-Listing-FILE		FILE	1418	2412	2420
LISTING	F-Listing-REC		FILE	4.400	0444	0.4.00
LISTING	F-Original-Src-FILE	1438	FILE	1420	3444	3462
TOTTNO	E Ossi mina I Gasa DEG	1 1 2 0	PILE	3486		
LISTING	F-Original-Src-REC		FILE	3490		
LISTING	F-OS-1-128-TXT		FILE			
LISTING LISTING	F-OS-129-256-TXT F-OS-7-CHR		FILE FILE	3495		
LISTING	F-0S-8-72-TXT		FILE	3491	3523	
LISTING	F-Sort-Work-FILE		FILE	1422	2414	3270
LISTING	F-Sort-Work-REC		FILE	2523*	2525	2560*
LIDIING	1 BOLD WOLK INDO	1440	11111	2562	3040	3043*
				3046	3088*	
				3096*	3099	3120
				3122*	3125	3208*
				3215	3220	3225
				3229*	3239*	
				3253*		
LISTING	F-SW-Def-Line-NUM	1453	FILE	3213*	3296	3304
				3308	3320	3321
LISTING	F-SW-Prog-ID-TXT	1449	FILE	2415	3209*	3230*
	· ·			3240*	3254*	3281
				3287	3292	3301
				3313	3317	
LISTING	F-SW-Ref-Flag-CHR	1456	FILE	3045*	3090*	3098*
				3124*	3235*	3259*
				3332		
LISTING	F-SW-Ref-Line-NUM	1455	FILE	2417	3214*	3234*
				3244*	3258*	3330
LISTING	F-SW-Reference-TXT		FILE	3324		
LISTING	F-SW-Section-TXT	1452	FILE	3212*	3233*	
				3257*	3303	3319
LISTING	F-SW-Token-TXT	1451	FILE	3211*	3232*	3242*
				3256*	3318	
LISTING	F-SW-Token-Uc-TXT	1450	FILE	2416	3210*	
				3241*	3255*	
TOTAL	1 1 · · · · ab	0400	T TN17 A OF	3293	3295	3307
LISTING	L-Listing-CD	2402	LINKAGE	2409	2449	2486
				3349	3398	3410
				3551	3565	3606
		0200	LINKAGE	3647 1418	2404	
TTCTTMC						
LISTING LISTING	L-Listing-Fn-TXT L-LPP-NUM		LINKAGE	2407	2487	

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LISTING			LINKAGE	2408	2489	
LISTING	L-OS-Type-CD		LINKAGE	2406	2432	
LISTING	L-Src-Fn-TXT		LINKAGE	1420	2405	2437
				2437*	2438	2439
				2443	2446	2459
				2461	2463	2468
LISTING	RETURN-CODE		PROCEDURE	2479		
LISTING	WS-CD-In-DATA-DIV-BOOL	1473	WORKING-STORAGE	2533		
LISTING	WS-CD-In-ENV-DIV-BOOL	1472	WORKING-STORAGE	2531		
LISTING	WS-CD-In-IDENT-DIV-BOOL	1471	WORKING-STORAGE	2529		
LISTING	WS-CD-In-PROC-DIV-BOOL	1474	WORKING-STORAGE	2535		
LISTING	WS-Copyright-TXT	1459	WORKING-STORAGE	2430*	2435	* 3415
				3430	3573	3593
LISTING	WS-CPI-13-15-TXT	1480	WORKING-STORAGE	2824*		
LISTING	WS-CPI-16-CHR	1481	WORKING-STORAGE	2823		
LISTING	WS-CS-1-CHR	1484	WORKING-STORAGE	2746*		
LISTING	WS-CS-11-14-TXT	1487	WORKING-STORAGE	2748	2749	k
LISTING	WS-CS-15-CHR	1488	WORKING-STORAGE	2751*		
LISTING	WS-CS-2-14-TXT	1485	WORKING-STORAGE	2747*		
LISTING	WS-Curr-Char-Is-Punct-BOOL	1462	WORKING-STORAGE	2591	2599	2604
LISTING	WS-Curr-Char-Is-Quote-BOOL	1466	WORKING-STORAGE	2610		
LISTING	WS-Curr-Char-Is-X-BOOL	1467	WORKING-STORAGE	2623		
LISTING	WS-Curr-Char-Is-Z-BOOL	1468	WORKING-STORAGE	2636		
LISTING	WS-Curr-CHR	1461	WORKING-STORAGE	2581*	2584	2586
				2592 2613	2600	2606
LISTING	WS-Curr-Division-TXT	1/170	WORKING-STORAGE		2542	2593
LIBITING	WS CUIT DIVISION IXI	1410	WORKING STORAGE	2601	2701	2817*
				2836*	2862	
				2923*	2002	2010
LISTING	WS-Curr-Line-NUM	1476	WORKING-STORAGE		2565	* 2724*
LIBITING	WE CALL LINE NOW	1110	WOIMITING DIGITION	2764*	3213	
				3244	3258	3485*
LISTING	WS-Curr-Prog-ID-TXT	1478	WORKING-STORAGE		2822	
	0421 1108 12 1111			3230	3240	
LISTING	WS-Curr-Section-TXT	1483	WORKING-STORAGE		2732	2841*
				2867*	2913	2914*
				3212	3233	3243
				3257		
LISTING	WS-Curr-Verb-TXT	1490	WORKING-STORAGE	2496*	2520	
I TOMING	Ma b 3 · mam	4.400	HODIZING GEODAGE	2928	2937	
LISTING	WS-Delim-TXT	1492	WORKING-STORAGE	2653*	2655	2673*
		4 4 0 4		2675	2678	0745
LISTING	WS-Dummy-TXT	1494	WORKING-STORAGE	2471*	2716	
				2778*	2783	* 2784
I TOMING	UG D I I G D DYD	4 400	HODIZING GEODAGE	3471*	0.470	. 04770
LISTING	WS-Expanded-Src-Fn-TXT		WORKING-STORAGE	1416	2476	
LISTING	WS-Filename-TXT	1498	WORKING-STORAGE		2473	2744*
LICTING	UO El TYT	4500	HODISTNA CHOPS CH	2747		
LISTING	WS-Flags-TXT		WORKING-STORAGE	0404:	2254	2077
LISTING	WS-Formatted-DT	1503	WORKING-STORAGE		3354	3377
I TOTTNO	UC CI Dece ID TYT	4500	TIODICTNO OTTODACT	3611	3630	2000
LISTING	WS-GI-Prog-ID-TXT	1506	WORKING-STORAGE	3281	3287	3292*

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LISTING	WS-GI-Token-TXT		WORKING-STORAGE		3293*	3295
LISTING	WS-Group-Indicators-TXT	1505	WORKING-STORAGE			
LISTING	WS-Held-Reference-TXT	1509	WORKING-STORAGE	2497*	2522	2523
				2524*	2559	2560
				2561*	3040*	3042
				3043	3044*	3081*
				3087	3088	3089*
				3095	3096	3097*
I TOTTNO	LIG T GIID	1511	LIODICTNO CTODACE	3120*	3122	3123*
LISTING	WS-I-SUB	1511	WORKING-STORAGE		2439	2440 2446
				2442 2461*	2445* 2463	2446
				2465	2468	2721*
				2724	2735*	2737
				2738	2739	2742
				3266*	3300*	3312*
				3325*	3326	3328*
				3331	3333	3406*
LISTING	WS-J-SUB	1513	WORKING-STORAGE	2462*	2466*	2468
				2736*	2740*	2742
LISTING	WS-Lines-Left-NUM	1515	WORKING-STORAGE	3267*	3276	3290
				3342	3396*	3407
				3451	3498	3502
				3529*	3563	3645*
				3652	3661	3668
I TOTTNO	UC I imaa Dan Dana Erra TVT	1510	LIODICTNO CTODACE	3677	3690	0400
LISTING	WS-Lines-Per-Page-Env-TXT		WORKING-STORAGE	2483	2455*	2482
LISTING	WS-Lines-Per-Page-NUM	1517	WORKING-STORAGE	2484*	2487*	2489*
LIGHTNO	UC Mada Mada Nama TVT	4504	LIODIZINA GEODAGE	2492	3396	3645
LISTING	WS-Main-Module-Name-TXT		WORKING-STORAGE	2443* 3473	2447*	2723
LISTING	WS-Next-Char-Is-Quote-BOOL		WORKING-STORAGE		2636	2222
LISTING	WS-Next-CHR		WORKING-STORAGE		2626	2639
LISTING	WS-OS-Type-FILLER-TXT		WORKING-STORAGE	1532 2432		
LISTING LISTING	WS-OS-Type-TXT WS-OS-Types-TXT		WORKING-STORAGE WORKING-STORAGE	2432		
LISTING	WS-Page-No-TXT		WORKING-STORAGE	3348C	3363	3386
DIDIING	#B 1486 No 1111	1000	WOIMITING DIGITION	3417	3432	3575
				3595 3638	3605C	3619
LISTING	WS-Page-NUM	1536	WORKING-STORAGE	2428*	3344*	3346
DIDIING	WD 1 age Woll	1000	WOIMITING DIGITION	3564	3601*	3603
LISTING	WS-PN-Literal-TXT	1539	WORKING-STORAGE		3602*	0000
LISTING	WS-PN-Page-NUM		WORKING-STORAGE		3347C	3603*
	5			3604C		
LISTING	WS-Program-Path-TXT	1542	WORKING-STORAGE	2459*	2460C	3357
	-			3380	3614	3633
LISTING	WS-Reserved-Word-Table-TXT	2299	WORKING-STORAGE			
LISTING	WS-Reserved-Word-TXT		WORKING-STORAGE			
LISTING	WS-Reserved-Words-TXT		WORKING-STORAGE	2299		
LISTING	WS-RS-Duplicate-CHR	2308	WORKING-STORAGE	3268*	3283*	3298*

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GNUCOBOL 3.0 24	DEC2017 Cross-Reference Listing	/homo	/vince/cobolsrc/	Cobol-Tools		017/12/24
PROGRAM-ID	Identifier/Register/Function	Defn	Where Defined	References]	Page: 102
=========		=====	=========		===== 3310*	=======
LISTING	WS-RS-In-Copybook-BOOL	2311	WORKING-STORAGE		3479*	
LISTING	WS-RS-In-Main-Module-BOOL		WORKING-STORAGE		2763	3474*
				3484		
LISTING	WS-RS-In-Which-Pgm-CHR	2309	WORKING-STORAGE			
LISTING	WS-RS-Last-Token-Ended-Sent-CHR	2312	WORKING-STORAGE	2554*	2700	
LISTING	WS-RS-Processing-PICTURE-CHR	2313	WORKING-STORAGE	2649	2663*	2872*
LISTING	WS-RS-Token-Ended-Sentence-CHR	2314	WORKING-STORAGE	2541	2553	2555*
				2588*	2617*	2630*
				2643*	2656*	2676*
LISTING	WS-RS-Verb-Has-Been-Found-CHR	2315	WORKING-STORAGE	2507*	2692*	2814*
LISTING	WS-Runtime-Switches	2307	WORKING-STORAGE			
LISTING	WS-RW-IDX	2303	WORKING-STORAGE	2689	2690	
LISTING	WS-RW-Type-CD	2304	WORKING-STORAGE	2690		
LISTING	WS-RW-Word-TXT	2305	WORKING-STORAGE	2302	2689	
LISTING	WS-Saved-Section-TXT	2317	WORKING-STORAGE	2726	2727	2731
				2732*		
LISTING	WS-SDL-Line-NUM	2324	WORKING-STORAGE	3489*		
LISTING	WS-SDL-Statement-TXT	2326	WORKING-STORAGE	3490*	3522*	3552
				3556	3558	3654
				3658*	3670	3674*
				3679	3683*	3687*
LISTING	WS-Src-Dashes-TXT	2319	WORKING-STORAGE	3622	3641	
LISTING	WS-Src-Detail-Line-TXT	2323	WORKING-STORAGE	3449*	3488*	3496*
					3505*	3509*
				3513*	3520*	3532*
				3536*	3540*	3650
					3657*	3659
					3671	3673*
					3680	3682*
					3686*	3688
				3693*		
LISTING	WS-Src-Hold-TXT	2328	WORKING-STORAGE		3658	3670*
					3679*	3683
				3687		
LISTING	WS-Src-Line-NUM	2330	WORKING-STORAGE		3475	3487*
I TOTTNO	UO O I do - NUM	0000	HODELING GEODAGE	3489	2552	05574
LISTING	WS-Src-Lines-NUM	2332	WORKING-STORAGE		3553*	3557*
					3563	3566
I TOTTNO	LIC_Cmo_CIID	0224	WORKING-STORAGE		3648 2556	3664 2557
LISTING	WS-Src-SUB	2334	WURVING-SIGNAGE		2580 2580	2587 2582
					2594*	2605*
					2615*	2616
					2615* 2624*	2628*
					2624* 2631*	2637*
					2631* 2642	2644*
					2657*	2674*
					2754*	2759*
				207 <i>9</i> 2761*	210 1 *	2100*
LISTING	WS-Suppress-FF-CHR	1501	WORKING-STORAGE		3277*	3419
-1011IN	Supprose II om	1001		3434	J=11"	3110
LISTING	WS-Tally-QTY	2336	WORKING-STORAGE		2795*	2796
		2000	51014101	2.30	50.	_, 00

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GNUCOBOL 3.0 24	DEC2017 Cross-Reference Listing					2017/12/24
PROGRAM-ID	Identifier/Register/Function	Defn	/vince/cobolsrc/ Where Defined	Reference	s	Page: 103
==========		=====	==========			
I TOTTNO	UC-Town-10-Chong-TVT	2220	WORKING-STORAGE	2800*	2801 2718	0710+
LISTING	WS-Temp-10-Chars-TXT	2338	WURKING-SIURAGE	2714* 2721	2/18 3469*	2719*
LISTING	WS-Temp-256-Chars-TXT	2348	WORKING-STORAGE	2478C	2715*	
DIDIING	WO TOMP 200 OHATS TAT	2010	WOIMITING DIGITAL	2734	2737	2742
				3470*	3472	21 12
LISTING	WS-Temp-32-Chars-1-TXT	2340	WORKING-STORAGE	2769*	2772	2779
LISTING	WS-Temp-32-Chars-2-TXT	2342	WORKING-STORAGE	2776*	2781*	
	_			2788*	2804	
LISTING	WS-Temp-32-Chars-3-TXT	2344	WORKING-STORAGE	2777*	2782*	× 2790
				2791*	2804	
LISTING	WS-Temp-65-Chars-TXT	2346	WORKING-STORAGE	3492*	3499	3504
				3508	3512	3524*
				3528	3531	3535
				3539		
LISTING	WS-Today-DT		WORKING-STORAGE	2493*	2494	0500
LISTING	WS-Token-Curr-TXT	2352	WORKING-STORAGE	2513	2517*	
				2595* 2627*	2606* 2640*	
				2659	2672*	
				2684*	2702*	
				2816	2822	2835
				2840	2861	2866
				2870	2904	2922
				3211	3232	3242
				3256		
LISTING	WS-Token-Curr-Uc-TXT	2354	WORKING-STORAGE	2514*	2517	2520
				2539	2916	3210
				3231	3241	3255
LISTING	WS-Token-Prev-TXT	2356	WORKING-STORAGE	2521*	2539*	
				2602*	2817	2820
				2821*	2836	2841
				2845	2862	2867 × 2881
				2876 2884*	2877* 2887*	
				2893*	2896*	
				2902*	2917	2923
				2927	2931*	
				2987*	2994	3005
				3008*	3017	3028
				3037	3065	3078
				3082*	3085*	
				3101*	3108	3117
				3133	3136*	
				3146	3155	3166
I TOTTMO	UC-Tokon-Coomeh-TVT	0250	LIODETNO COTODACE	3181	3184*	
LISTING LISTING	WS-Token-Search-TXT		WORKING-STORAGE WORKING-STORAGE	2682* 2587*	2683 2596*	2689 * 2607*
TIDIIIIG	WS-Token-Type-CD	2300	WOLLTING-DIOUNGE	2660*	2664*	
				2690*	2703*	
LISTING	WS-TT-Token-Is-Argtype-BOOL	2361	WORKING-STORAGE	2811	2831	2857
LISTING	WS-TT-Token-Is-EOF-BOOL		WORKING-STORAGE	2510	2564*	
LISTING	WS-TT-Token-Is-Function-BOOL		WORKING-STORAGE	2851		

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GNUCOBOL 3.0 24	4DEC2017 Cross-Reference Listing					2017/12/24
PROGRAM-ID	Identifier/Register/Function	/home Defn	/vince/cobolsrc/ Where Defined	Cobol-Tool Reference 		c/GCic.cbl Page: 104
LISTING	WS-TT-Token-Is-Identifier-BOOL	2364	WORKING-STORAGE	2697*	2844	2880
				2926	2934	
LISTING	WS-TT-Token-Is-Keyword-BOOL	2365	WORKING-STORAGE	2515	2538	2815
				2834	2839	2860
				2865	2871	2921
LISTING	WS-TT-Token-Is-Lit-Alpha-BOOL	2366	WORKING-STORAGE	2620*	2646*	k
LISTING	WS-TT-Token-Is-Lit-Number-BOOL	2367	WORKING-STORAGE	2633*	2699	2773*
				2805*		
LISTING	WS-TT-Token-Is-Reserved-Wd-BOOL	2369	WORKING-STORAGE	2516	2812*	* 2832*
				2858*	2875	
LISTING	WS-TT-Token-Is-Verb-BOOL	2368	WORKING-STORAGE	2519	2691	
LISTING	WS-Usernames-QTY	2371	WORKING-STORAGE	2504*		
LISTING	WS-Version-TXT	2373	WORKING-STORAGE	2436*	3350	3373
				3607	3626	
LISTING	WS-XDL-Def-Line-NUM	2380	WORKING-STORAGE	3304*	3321*	K
LISTING	WS-XDL-Prog-ID-TXT	2376	WORKING-STORAGE	3301*	3313*	* 3317*
LISTING	WS-XDL-Ref-Flag-CHR	2386	WORKING-STORAGE	3333*		
LISTING	WS-XDL-Ref-Line-NUM	2385	WORKING-STORAGE	3331*		
LISTING	WS-XDL-Reference-TXT	2384	WORKING-STORAGE			
LISTING	WS-XDL-Section-TXT	2382	WORKING-STORAGE	3303*	3319*	K
LISTING	WS-XDL-Token-TXT	2378	WORKING-STORAGE	3302*	3314*	* 3318*
LISTING	WS-Xref-Detail-Line-TXT	2375	WORKING-STORAGE	3264*	3271	3274*
				3284	3288*	* 3297
				3316	3336	3399
				3402	3405*	k
LISTING	WS-Xref-Lines-Per-Rec-NUM	2389	WORKING-STORAGE	2450*	2454	× 3326

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6. STREAMIO

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

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

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

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

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

First, here is the STREAMIOcb.cpy copybook:

```
05 SCB-Handle-NUM
                                                                                                       PIC X(4) COMP-X.
 05 SCB-Mode-CD
                                                                                                       PIC X(1).

      SCB-Mode-CD
      PIC X(1).

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

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

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

      SCB-Function-CD
      PIC X(2).

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

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

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

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

      88 SCB-Func-READ-Delim-BOOL
      VALUE 'RD', 'rd', 'rD', 'Rd'.

 05 SCB-Function-CD
                                                                                                                   'rD', 'Rd'.
         'rD', 'Rd'.

88 SCB-Func-WRITE-BOOL

88 SCB-Func-WRITE-Delim-BOOL

VALUE 'WD', 'wd',

'wD', 'Wd'.
'wD', 'Wd'

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

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

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

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

05 SCB-Error-Routine-PTR USAGE PROGRAM-PO
                                                                                                                       'wD', 'Wd'.
                                                                                                      USAGE PROGRAM-POINTER.
 05 SCB-Error-Routine-NUM REDEFINES SCB-Error-Routine-PTR
                                                                                                      USAGE BINARY-LONG.
 05 SCB-Return-CD
                                                                                                       USAGE BINARY-LONG.
 05 SCB-Filename-TXT
                                                                                                       PIC X(256).
```

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

GNU COBOL 2.1 23NOV2013 Source Listing

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

Line	C:/Users/tda010/Documents/Programs/S Statement	Page: 1
1	>>SOURCE FORMAT IS FIXED	==================================
2	IDENTIFICATION DIVISION.	
3	PROGRAM-ID. STREAMIO.	
4	*>*************************************	***
5	*> Author: Gary L. Cutler	**
6	*>	**
7	·	**
8		**
9		**
10		**
11	- , 0 -	**
12		**
13	3 13	**
14		**
15	1	**
16		**
17	9	**
18		**
19		**
20		
21	y 1 y	**
22		
23	1 ,	**
24	·	**
25		**
26	, J 11 J	**
27 28	, 0	**
29	•	**
30		
31	J 11 1 1	**
32		**
33		**
34		**
35		**
36		**
37		**
38		**
39	·	**
40	*> 5. STREAMIO can automatically generate filenames for output	**
41		**
42		**
43	*>	**
44	*> 6. The STREAMIO routine also allows you to (optionally) re-	**
45	*> gister a general error-handling routine to be given con-	**
46	*> trol should a fatal error be detected with STREAMIO.	**
47	*>	**
48	*> This routine can be "turned on" and "turned off" at will.	**
49	*>	**

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GNU COBOL 2.1 23NOV2013 Source Listing

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

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

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

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

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

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

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

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

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

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

*> 88 SCB-Func-READ-BOOL VALUE 'O', 'o'.

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

*> 88 SCB-Func-READ-Delim-BOOL VALUE 'RD', 'rd',

*> 88 SCB-Func-READ-Delim-BOOL VALUE 'RD', 'rd',

*> 88 SCB-Func-READ-Delim-BOOL VALUE 'RD', 'rd',

*> 88 SCB-Func-READ-Delim-BOOL VALUE 'RD', 'rd',
              *> 05 SCB-Handle-NUM
                                                              PIC X(4) COMP-X.
    54
    55
                                                                                              **
    56
                                                                                              **
    57
                                                                                              **
    58
                                                                                              **
    59
                                                                                              **
    60
                                                                                              **
    61
                                                                                              **
    62
                                                                                              **
    63
                                                                                              **
    64
                                                                                              **
             65
    66
    67
    68
    70
    71
    72
    73
              *> 05 SCB-Error-Routine-NUM REDEFINES SCB-Error-Routine-PTR
    74
    75
                                           USAGE BINARY-LONG.
    76
              *> 05 SCB-Return-CD
                                                             USAGE BINARY-LONG.
              *> 05 SCB-Filename-TXT
    77
                                                             PIC X(256).
    78
              *>
    79
              *> Such a structure is defined for your use using the copybook **
    80
              *> "STREAMIOcb.cpy" (you may also define your own, provided it **
    81
              *> conforms to the above layout).
    82
    83
               *> SCB-Handle-NUM
    84
    85
               *>
                                                                                              **
    86
               *> Serves as a file handle to the file once it has been opened **
               *> (via the "SCB-Func-OPEN-BOOL" function).
    87
                                                                                              **
    88
    89
    90
               *> SCB-Mode-CD
    91
    92
               *>
               *> Prior to calling "STREAMIO" for the first time for a file,
    93
               *> the appropriate subordinate level-88 must be set to TRUE to **
               *> select an I/O mode. You may also simply move one of the **
    96
               *> string values listed on the level-88 items to "SCB-Mode-CD". **
    97
              *>
```

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GNU COBOL 2.1 23NOV2013 Source Listing

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

Line	Statement	0., obelb, oddolo, beedmenob, llogidmb, t ; :	_	Page: 3
99	*>	SCB-Function-CD	**	
100	*>-		-**	
101	*>		**	
102	*>	The appropriate subordinate level-88 must be set to TRUE to	**	
103	*>	select a function you'd like to execute against a file. You	**	
104		may also simply move one of the string values listed on the	**	
105		level-88 items to "SCB-Function-CD".	**	
106			**	
107	*>	Available functions are as follows:	**	
108	*>		**	
109	*>	SCB-Func-OPEN-BOOL	**	
110			**	
111		This must be the function specified the first time you	**	
112		call STREAMIO for any given file. It opens the file &	**	
113		makes it available for use according to the	**	
114		"SCB-Mode-CD" specification.	**	
115	*>	bob node of specification.	**	
116		The filename being opened must be specified in the	**	
117		"SCB-Filename-TXT" field.	**	
118		502 I I Gramo I II I I I I I I I I I I I I I I I I	**	
119		The SCB-Offset-NUM field will be initialized to ZERO.	**	
120		THE BOD OFFICE WOLL FICE WITH BE INTOTALLIZED TO BELLE.	**	
121		If "arg2" is specified in conjunction with this funct-	**	
122		ion, it will be ignored.	**	
123		ion, it will be ignored.	**	
124		SCB-Func-CLOSE-BOOL	**	
125		SOD FUNC CLOSE BOOK	**	
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		Tite if you wish to use it with Sintamio again.	**	
131		The SCB-Handle-NUM item will be reset to ZERO.	**	
		THE SCH-Handle-Nor Item will be leset to ZERO.	**	
132		If oracl is specified in conjugation with this funct-	**	
133		If "arg2" is specified in conjunction with this funct-	**	
134		ion, it will be ignored.	**	
135 136		SCB-Func-DELETE-BOOL	**	
		SCD-F UIIC-DELETE-BOOL	**	
137		This formation will delete the file enceified in the		
138	*>	This function will delete the file specified in the	**	
139	*>	control block (see SCB-Filename-TXT).	**	
140		This for this about 1 and 1 an	**	
141		This function should not be performed against a file	**	
142		that is open.	**	
143		TC O :	**	
144		If "arg2" is specified in conjunction with this funct-	**	
145		ion, it will be ignored.	**	
146		COD E DEAD DOOL	**	
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

	_	C:/Users/tda010/Documents/Programs/S	•
Line	Statement		Page: 4
140			
148		This formation involves a standard CDI DEAD ETTE seriest	**
149		This function invokes a standard CBL_READ_FILE against	**
150		the file specified in the control block (see	**
151		SCB-Filename-TXT).	**
152		The buffer into this work has been all the second dates when he	**
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 set to SPACES before the read takes place.	**
157		set to SPACES before the read takes place.	
158		Tf the file effect welve (CCD Offert NUM) is much as	**
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		A1	**
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		GGD II UDIMI DOOL	**
168		SCB-Func-WRITE-BOOL	**
169		mi c	**
170		This function invokes a standard CBL_WRITE_FILE against	
171		the file specified in the control block (see	**
172		SCB-Filename-TXT).	**
173		m 1 cc c 1:11 1	**
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		To the file offers and (COD Offers NUM) is supplied	**
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		At the sensition of a successful COD Firm UDITE DOOR	
188		At the conclusion of a successful SCB-Func-WRITE-BOOL	**
189		operation, the value of SCB-Offset-NUM will have been	**
190		automatically incremented by the byte-count size of	**
191		"arg2".	**
192		CCP_E,ma_DEAD_Dalim_DOOI	**
193		SCB-Func-READ-Delim-BOOL	**
194		SCB-Func-READ-Delim-BOOL bahaves like the SCB-FUNC-	**
195			**
196	*/	READ function, with the following behavioral dif-	records.

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GNU COBOL 2.1 23NOV2013 Source Listing

۵	Statomort	NOV2013 Source Listing C:/Users/tda010/Documents/Programs/	_
:===	Statement		Pag =========
197	*>	ferences:	**
198	*>		**
199	*>	1. When data is read from the file, only that data read	**
200	*>	up to BUT NOT INCLUDING an end-of-line delimiter	**
201	*>	sequence (either a LF or CRLF) will be retained in	**
202	*>	the buffer - the remainder of the buffer from the	**
203	*>	end-of-line sequence onward will be reset to SPACES.	**
204	*>	The file-offset value (SCB-Offset-NUM) will be in-	**
205	*>	cremented ONLY by the amount of data transferred up	**
206	*>	to AND INCLUDING the end-of-line sequence.	**
207	*>		**
208	*>	2. When data is read from the file and an end-of-line	**
209	*>	delimiter sequence (either a LF or a CRLF) cannot be	**
210	*>	found within the buffer, the assumption is made that	
211	*>	8	**
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	*>	DO NOT HEE the Character DEAD Delim formation of the	**
221222	*>	DO NOT USE the Streamio-READ-Delim function if the	**
223	*> *>	possibility exists that linefeed (X"OA") or carriage-	**
224	*>	return (X"OD") characters could exist as actual data characters in the file.	**
225	*>	characters in the life.	**
226		SCB-Func-WRITE-Delim-BOOL	**
227	*>	DOD THIC WILLE DETIN DOOL	**
228	*>	SCB-Func-WRITE-Delim-BOOL acts like the Streamio-	**
229	*>	FUNC-WRITE function, with the following difference:	**
230	*>	1010 1112 241101011, 11201 0110 1011011118 42110101101	**
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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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		CBL_EXIT_PROC subroutine; the STREAMIO routine will then is-	**	
287		sue a STOP RUN to intentionally trigger your error routine.	**	
288		You will not be able to recover your program once your error	**	
289		routine triggers. If you wish to be able to recover from	**	
290		fatal STREAMIO errors, you should NOT use the SCB-Error-	**	
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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C:/Users/tda010/Documents/Programs/Samples/STREAMIO.cbl Line Statement Page: 7 _____ 295 *> copybook. 296 *> ** 297 *>-----** 298 *> SCB-Return-CD 299 *>-----* 300 *> 301 *> The following are the possible SCB-Return-CD values. The *> ones marked with a ">" will NOT trigger an error-routine, if ** 302 *> one is currently registered via SCB-Error-Routine-PTR. 303 304 *> 305 *> 12 I/O error writing to file ** 306 *> 11 File does not exist ** 307 *> 10 File already OPEN or already CLOSEd ** 308 *> > 02 READ-Delim was truncated ** 309 *> > 01 No more data is available from the current ** 310 *> SCB-Offset-NUM ** 311 *> > 00 OK - the operation was successful ** *> -1 Invalid SCB-Function-CD 312 *> -2 Invalid SCB-Mode-CD 313 *> -3 CBL_xxxxx_FILE routine rejected operation 315 *> -4 Invalid delimiter mode specified (Not U/W) 316 *> 317 *>-----** 318 *> SCB-Filename-TXT 319 320 *> 321 *> This is the name of the file you wish to access. ** 322 *> ** 323 *> If you are planning on reading the file, the file MUST exist ** 324 *> at the time the SCB-Func-OPEN-BOOL is executed. ** 325 *> ** 326 *> If you are planning on writing to the file, the file need ** 327 *> exist when the SCB-Func-OPEN-BOOL is issued. ** 328 *> ** 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 delined, the / omp ____ assumed. The filename will be STREAMIO-nnnnnnnn.dat ** no TEMP variable defined, the "/tmp" folder will be 342 *> 343

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

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

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

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

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

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```
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```

C:/Users/tda010/Documents/Programs/Samples/STREAMIO.cbl _____ 88 L-SCB-Func-WRITE-Delim-BOOL VALUE 'WD' 'wd' 'wD' 'Wd'. 05 L-SCB-Delimiter-Mode-CD PIC X(1). 88 L-SCB-DELIM-Unix-BOOL VALUE 'U' 'u'. 88 L-SCB-DELIM-Windows-BOOL VALUE 'W' 'w'. 05 L-SCB-Offset-NUM PIC X(8) COMP-X. 05 L-SCB-Error-Routine-PTR USAGE PROGRAM-POINTER. 05 L-SCB-Error-Routine-NUM REDEFINES L-SCB-Error-Routine-PTR USAGE BINARY-LONG. 05 L-SCB-Return-CD USAGE BINARY-LONG. 05 L-SCB-Filename-TXT PIC X(256). 380 01 L-Arg2-TXT PIC X ANY LENGTH. 381 PROCEDURE DIVISION USING L-StreamIO-Control-Block-TXT, 382 L-Arg2-TXT. 383 000-Main SECTION. MOVE 00 TO L-SCB-Return-CD 384 385 EVALUATE TRUE 386 WHEN L-SCB-Func-CLOSE-BOOL 387 PERFORM 030-Validate-Handle-NonZero 388 PERFORM 200-CLOSE 389 WHEN L-SCB-Func-DELETE-BOOL 390 CALL "CBL_DELETE_FILE" USING L-SCB-Filename-TXT 391 WHEN L-SCB-Func-OPEN-BOOL 392 PERFORM 020-Validate-Handle-Zero 393 PERFORM 100-OPEN 394 WHEN L-SCB-Func-READ-BOOL 395 PERFORM 030-Validate-Handle-NonZero 396 PERFORM 400-READ 397 WHEN L-SCB-Func-READ-Delim-BOOL 398 PERFORM 030-Validate-Handle-NonZero 399 PERFORM 500-READ-Delim 400 WHEN L-SCB-Func-WRITE-BOOL 401 PERFORM 030-Validate-Handle-NonZero 402 PERFORM 300-WRITE 403 WHEN L-SCB-Func-WRITE-Delim-BOOL 404 EVALUATE TRUE 405 WHEN L-SCB-Delim-Unix-BOOL 406 PERFORM 030-Validate-Handle-NonZero 407 PERFORM 300-WRITE 408 MOVE 1 TO WS-Arg-Length-NUM 409 MOVE X"OA" TO WS-Delim-Buffer-TXT 410 WHEN L-SCB-Delim-Windows-BOOL 411 PERFORM 030-Validate-Handle-NonZero 412 PERFORM 300-WRITE 413 MOVE 2 TO WS-Arg-Length-NUM 414 MOVE X"ODOA" TO WS-Delim-Buffer-TXT 415 WHEN OTHER 416 MOVE -4 TO L-SCB-Return-CD 417 PERFORM 099-ERROR-Return

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```
C:/Users/tda010/Documents/Programs/Samples/STREAMIO.cbl
Line Statement
_____
  418
                        END-EVALUATE
                        CALL "CBL_WRITE_FILE" USING L-SCB-Handle-NUM
  419
  420
                                                  L-SCB-Offset-NUM
  421
                                                  WS-Arg-Length-NUM
  422
  423
                                                  WS-Delim-Buffer-TXT
  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 = 30
  450
                    MOVE 12 TO L-SCB-Return-CD
                    PERFORM 099-ERROR-Return
  451
  452
                END-TF
  453
                MOVE 00 TO L-SCB-Return-CD
  454
  455
            050-Check-READ-SCB-Return-CD SECTION.
  456
                IF RETURN-CODE < 0
  457
                    MOVE -3 TO L-SCB-Return-CD
  458
                    PERFORM 099-ERROR-Return
  459
                END-IF
  460
                IF RETURN-CODE = 10
  461
                    MOVE 01 TO L-SCB-Return-CD
  462
                    GOBACK
  463
                END-IF
  464
                MOVE 00 TO L-SCB-Return-CD
  465
  466
             060-Identify-TEMP SECTION.
```

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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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GNU COBOL 2.1 23NOV2013 Source Listing

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 544 545 END-IF 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 552 553 200-CLOSE SECTION. 554 CALL "CBL_CLOSE_FILE" USING L-SCB-Handle-NUM 555 IF RETURN-CODE < 0 556 MOVE -2 TO L-SCB-Return-CD 557 PERFORM 099-ERROR-Return 558 END-IF 559 MOVE 00 TO L-SCB-Return-CD 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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```
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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```
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
  623
                            ADD 256 TO L-SCB-Offset-NUM
  624
                        ELSE
  625
                            MOVE O TO WS-Tally-NUM
  626
                            INSPECT WS-Buffer-TXT
  627
                                TALLYING WS-Tally-NUM
                                FOR CHARACTERS BEFORE INITIAL X"OA"
  628
  629
                            ADD WS-Tally-NUM, 1 TO L-SCB-Offset-NUM
  630
  631
                        END-IF
  632
                    END-PERFORM
  633
                             *> There is (at least) one LF in the buffer
  634
                    MOVE O TO WS-Tally-NUM
  635
                     INSPECT L-Arg2-TXT(1:WS-Arg-Length-NUM)
  636
                        TALLYING WS-Tally-NUM
  637
                        FOR CHARACTERS BEFORE INITIAL X"OA"
  638
                     ADD WS-Tally-NUM, 1 TO L-SCB-Offset-NUM
  639
                    IF WS-Tally-NUM > 1
  640
                        IF L-Arg2-TXT(WS-Tally-NUM:1) = X"OD"
  641
                            COMPUTE WS-Arg-Length-NUM =
  642
                                     WS-Arg-Length-NUM
  643
                                    - WS-Tally-NUM
                                   + 1
  644
  645
                        FLSE.
  646
                            COMPUTE WS-Arg-Length-NUM =
  647
                                     WS-Arg-Length-NUM
  648
                                    - WS-Tally-NUM
  649
                            ADD 1 TO WS-Tally-NUM
  650
                        END-IF
  651
                        MOVE SPACES
  652
                          TO L-Arg2-TXT(WS-Tally-NUM:WS-Arg-Length-NUM)
  653
                    ELSE
  654
                        MOVE SPACES
  655
                          TO L-Arg2-TXT(1:WS-Arg-Length-NUM)
                     END-IF
  656
                END-IF
  657
  658
```

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GNU COBOL 2.1 23NOV2013 Cross-Reference Listing

PROGRAM-ID	Identifier/Register/Function	Defn	Where Define	l F	References	5	EAMIO.cbl Page: 15
STREAMIO	000-Main		PROCEDURE			=====	======
STREAMIO	020-Validate-Handle-Zero	432	PROCEDURE		392		
STREAMIO	030-Validate-Handle-NonZero	438	PROCEDURE		387	395	398
					401	406	411
STREAMIO	040-Check-WRITE-SCB-Return-CD	444	PROCEDURE		424	570	
STREAMIO	050-Check-READ-SCB-Return-CD	455	PROCEDURE		582	594	
STREAMIO	060-Identify-TEMP	466	PROCEDURE		493	508	
STREAMIO	099-ERROR-Return	478	PROCEDURE		417	428	435
					441	447	451
					458	489	535
					544	548	557
					614		
STREAMIO	100-OPEN	485	PROCEDURE		393		
STREAMIO	200-CLOSE		PROCEDURE		388		
STREAMIO	300-WRITE		PROCEDURE		402	407	412
STREAMIO	400-READ		PROCEDURE		396	101	112
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