Live Code Report
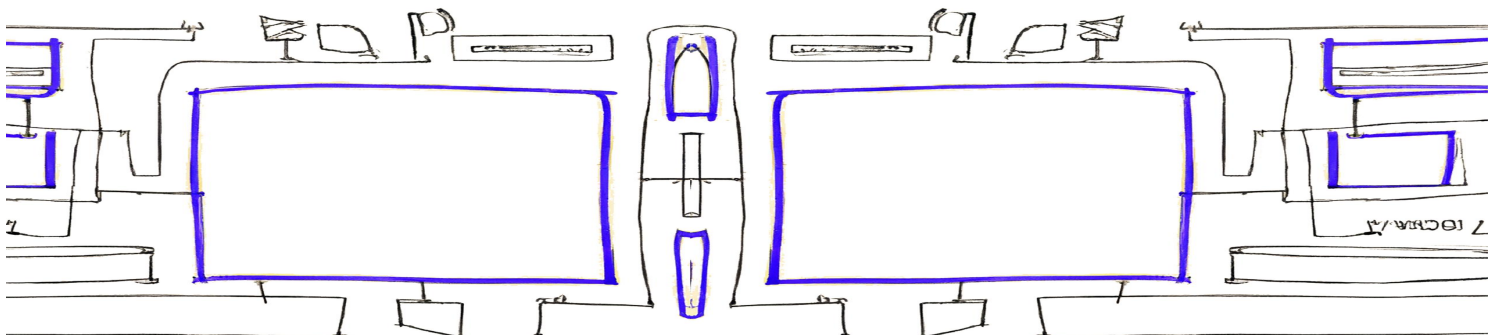Markers: Live code=bold blue font, B=blank, C=comment, D=dead

Live Code (LC) v1.4

CLIENT CONFIDENTIAL

altitude80

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 1 C     *********************************** ************************
 2 C     * PROGRAM:     COACTUPC.CBL                               *
 3 C     * LAYER:       BUSINESS LOGIC                             *
 4 C     * FUNCTION:    ACCEPT AND PROCESS ACCOUNT UPDATE          *
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20 C     ***********************************************************************
21       IDENTIFICATION DIVISION.
22       PROGRAM-ID.
23           COACTUPC.
24       DATE-WRITTEN.
25           JULY 2022.
26       DATE-COMPILED.
27           TODAY.
28 B
29       ENVIRONMENT DIVISION.
30       INPUT-OUTPUT SECTION.
31 B
32       DATA DIVISION.
33 B
34       WORKING-STORAGE SECTION.
35       01  WS-MISC-STORAGE.
36 C     ***********************************************************************
37 C     * GENERAL CICS RELATED
38 C     ***********************************************************************
39         05 WS-CICS-PROCESSNG-VARS.
40           07 WS-RESP-CD                      PIC S9(09) COMP
41                                              VALUE ZEROS.
42           07 WS-REAS-CD                      PIC S9(09) COMP
43                                              VALUE ZEROS.
44           07 WS-TRANID                       PIC X(4)
45                                              VALUE SPACES.
46           07 WS-UCTRANS                      PIC X(4)
47                                              VALUE SPACES.
48 C     ***********************************************************************
49 C     *      INPUT EDITS
50 C     ***********************************************************************
51 C     *  GENERIC INPUT EDITS
52         05  WS-GENERIC-EDITS.
53           10 WS-EDIT-VARIABLE-NAME           PIC X(25).
54 B
55           10 WS-EDIT-SIGNED-NUMBER-9V2-X     PIC X(15).
56           10 WS-FLG-SIGNED-NUMBER-EDIT       PIC X(1).
57             88  FLG-SIGNED-NUMBER-ISVALID    VALUE LOW-VALUES.
58             88  FLG-SIGNED-NUMBER-NOT-OK     VALUE '0'.
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59                  88  FLG-SIGNED-NUMBER-BLANK         VALUE 'B'.
60 B
61             10 WS-EDIT-ALPHANUM-ONLY               PIC X(256).
62             10 WS-EDIT-ALPHANUM-LENGTH             PIC S9(4) COMP-3.
63 B
64             10 WS-EDIT-ALPHA-ONLY-FLAGS            PIC X(1).
65                  88  FLG-ALPHA-ISVALID              VALUE LOW-VALUES.
66                  88  FLG-ALPHA-NOT-OK               VALUE '0'.
67                  88  FLG-ALPHA-BLANK                VALUE 'B'.
68             10 WS-EDIT-ALPHANUM-ONLY-FLAGS         PIC X(1).
69                  88  FLG-ALPHNANUM-ISVALID          VALUE LOW-VALUES.
70                  88  FLG-ALPHNANUM-NOT-OK           VALUE '0'.
71                  88  FLG-ALPHNANUM-BLANK            VALUE 'B'.
72             10 WS-EDIT-MANDATORY-FLAGS             PIC X(1).
73                  88  FLG-MANDATORY-ISVALID          VALUE LOW-VALUES.
74                  88  FLG-MANDATORY-NOT-OK           VALUE '0'.
75                  88  FLG-MANDATORY-BLANK            VALUE 'B'.
76             10 WS-EDIT-YES-NO                      PIC X(1)
77                                                    VALUE 'N'.
78                  88 FLG-YES-NO-ISVALID             VALUES 'Y', 'N'.
79                  88 FLG-YES-NO-NOT-OK              VALUE '0'.
80                  88 FLG-YES-NO-BLANK               VALUE 'B'.
81 B
82             10 WS-EDIT-US-PHONE-NUM                PIC X(15).
83             10 WS-EDIT-US-PHONE-NUM-X REDEFINES
84                WS-EDIT-US-PHONE-NUM.
85                  20 FILLER                         PIC X(1).
86 C       *                                          VALUE '('
87                  20 WS-EDIT-US-PHONE-NUMA          PIC X(3).
88                  20 WS-EDIT-US-PHONE-NUMA-N REDEFINES
89                     WS-EDIT-US-PHONE-NUMA          PIC 9(3).
90                  20 FILLER                         PIC X(1).
91 C       *                                          VALUE ')'
92                  20 WS-EDIT-US-PHONE-NUMB          PIC X(3).
93                  20 WS-EDIT-US-PHONE-NUMB-N REDEFINES
94                     WS-EDIT-US-PHONE-NUMB          PIC 9(3).
95                  20 FILLER                         PIC X(1).
96 C       *                                          VALUE '-'
97                  20 WS-EDIT-US-PHONE-NUMC          PIC X(4).
98                  20 WS-EDIT-US-PHONE-NUMC-N REDEFINES
99                     WS-EDIT-US-PHONE-NUMC          PIC 9(4).
100                 20 FILLER                         PIC X(2).
101            10 WS-EDIT-US-PHONE-NUM-FLGS.
102                88 WS-EDIT-US-PHONE-IS-INVALID     VALUE '000'.
103                88 WS-EDIT-US-PHONE-IS-VALID       VALUE LOW-VALUES.
104                20 WS-EDIT-US-PHONEA-FLG           PIC X(01).
105                    88 FLG-EDIT-US-PHONEA-ISVALID  VALUE LOW-VALUES.
106                    88 FLG-EDIT-US-PHONEA-NOT-OK   VALUE '0'.
107                    88 FLG-EDIT-US-PHONEA-BLANK    VALUE 'B'.
108                20 WS-EDIT-EDIT-US-PHONEB          PIC X(01).
109                    88 FLG-EDIT-US-PHONEB-ISVALID  VALUE LOW-VALUES.
110                    88 FLG-EDIT-US-PHONEB-NOT-OK   VALUE '0'.
111                    88 FLG-EDIT-US-PHONEB-BLANK    VALUE 'B'.
112                20 WS-EDIT-EDIT-PHONEC             PIC X(01).
113                    88 FLG-EDIT-US-PHONEC-ISVALID  VALUE LOW-VALUES.
114                    88 FLG-EDIT-US-PHONEC-NOT-OK   VALUE '0'.
115                    88 FLG-EDIT-US-PHONEC-BLANK    VALUE 'B'.
116 B
117            10 WS-EDIT-US-SSN.
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118                20 WS-EDIT-US-SSN-PART1              PIC X(3).
119                20 WS-EDIT-US-SSN-PART1-N REDEFINES
120                   WS-EDIT-US-SSN-PART1             PIC 9(3).
121                   88 INVALID-SSN-PART1  VALUES     0,
122                                                    666,
123                                                    900 THRU 999.
124                20 WS-EDIT-US-SSN-PART2              PIC X(2).
125                20 WS-EDIT-US-SSN-PART2-N REDEFINES
126                   WS-EDIT-US-SSN-PART2             PIC 9(2).
127                20 WS-EDIT-US-SSN-PART3              PIC X(4).
128                20 WS-EDIT-US-SSN-PART3-N REDEFINES
129                   WS-EDIT-US-SSN-PART3             PIC 9(4).
130             10 WS-EDIT-US-SSN-N REDEFINES
131                WS-EDIT-US-SSN                      PIC 9(09).
132             10 WS-EDIT-US-SSN-FLGS.
133                88 WS-EDIT-US-SSN-IS-INVALID        VALUE '000'.
134                88 WS-EDIT-US-SSN-IS-VALID          VALUE LOW-VALUES.
135                20 WS-EDIT-US-SSN-PART1-FLGS        PIC X(01).
136                   88 FLG-EDIT-US-SSN-PART1-ISVALID VALUE LOW-VALUES.
137                   88 FLG-EDIT-US-SSN-PART1-NOT-OK  VALUE '0'.
138                   88 FLG-EDIT-US-SSN-PART1-BLANK   VALUE 'B'.
139                20 WS-EDIT-US-SSN-PART2-FLGS        PIC X(01).
140                   88 FLG-EDIT-US-SSN-PART2-ISVALID VALUE LOW-VALUES.
141                   88 FLG-EDIT-US-SSN-PART2-NOT-OK  VALUE '0'.
142                   88 FLG-EDIT-US-SSN-PART2-BLANK   VALUE 'B'.
143                20 WS-EDIT-US-SSN-PART3-FLGS        PIC X(01).
144                   88 FLG-EDIT-US-SSN-PART3-ISVALID VALUE LOW-VALUES.
145                   88 FLG-EDIT-US-SSN-PART3-NOT-OK  VALUE '0'.
146                   88 FLG-EDIT-US-SSN-PART3-BLANK   VALUE 'B'.
147 B
148 C      ************************************************************
149 C      *    WORK VARIABLES
150 C      ************************************************************
151        05 WS-CALCULATION-VARS.
152          10 WS-DIV-BY                           PIC S9(4) COMP-3
153                                                 VALUE 4.
154          10 WS-DIVIDEND                         PIC S9(4) COMP-3
155                                                 VALUE 0.
156 B
157          10 WS-REMAINDER                        PIC S9(4) COMP-3
158                                                 VALUE 0.
159          10 WS-CURR-DATE                        PIC X(21)
160                                                 VALUE SPACES.
161 B
162 B
163 C      ************************************************************
164 C      *   GENERIC DATE EDIT VARIABLES CCYYMMDD
165 C      ************************************************************
166 C      *COPY 'CSUTLDWY'.
167 C      ************************************************************
168 C      *WORKING STORAGE COPYBOOK FOR DATE RELATED CODE
169 C      ************************************************************
170        10 WS-EDIT-DATE-CCYYMMDD.
171          20 WS-EDIT-DATE-CCYY.
172             25 WS-EDIT-DATE-CC                   PIC X(2).
173             25 WS-EDIT-DATE-CC-N REDEFINES       WS-EDIT-DATE-CC
174                                                  PIC 9(2).
175                88 THIS-CENTURY                   VALUE 20.
176                88 LAST-CENTURY                   VALUE 19.
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177                      25 WS-EDIT-DATE-YY                PIC X(2).
178                      25 WS-EDIT-DATE-YY-N REDEFINES     WS-EDIT-DATE-YY
179                                                         PIC 9(2).
180                 20 WS-EDIT-DATE-CCYY-N  REDEFINES
181                      WS-EDIT-DATE-CCYY                  PIC 9(4).
182                 20 WS-EDIT-DATE-MM                      PIC X(2).
183                 20 WS-EDIT-DATE-MM-N REDEFINES WS-EDIT-DATE-MM
184                                                         PIC 9(2).
185                      88 WS-VALID-MONTH                  VALUES
186                                                         1 THROUGH 12.
187                      88 WS-31-DAY-MONTH                 VALUES
188                                                         1, 3, 5, 7,
189                                                         8, 10, 12.
190                      88 WS-FEBRUARY                     VALUE 2.
191                 20 WS-EDIT-DATE-DD                      PIC X(2).
192                 20 WS-EDIT-DATE-DD-N REDEFINES WS-EDIT-DATE-DD
193                                                         PIC 9(2).
194                      88 WS-VALID-DAY                    VALUES
195                                                         1 THROUGH 31.
196                      88 WS-DAY-31                       VALUE 31.
197                      88 WS-DAY-30                       VALUE 30.
198                      88 WS-DAY-29                       VALUE 29.
199                      88 WS-VALID-FEB-DAY                VALUES
200                                                         1 THROUGH 28.
201             10 WS-EDIT-DATE-CCYYMMDD-N REDEFINES
202                WS-EDIT-DATE-CCYYMMDD                    PIC 9(8).
203             10 WS-EDIT-DATE-BINARY                      PIC S9(9) BINARY.
204             10 WS-CURRENT-DATE.
205                 20 WS-CURRENT-DATE-YYYYMMDD             PIC X(8).
206                 20 WS-CURRENT-DATE-YYYYMMDD-N REDEFINES
207                    WS-CURRENT-DATE-YYYYMMDD             PIC 9(8).
208                 20 WS-CURRENT-DATE-BINARY              PIC S9(9) BINARY.
209             10 WS-EDIT-DATE-FLGS.
210                 88 WS-EDIT-DATE-IS-VALID                VALUE LOW-VALUES.
211                 88 WS-EDIT-DATE-IS-INVALID              VALUE '000'.
212                 20 WS-EDIT-YEAR-FLG                     PIC X(01).
213                     88 FLG-YEAR-ISVALID                 VALUE LOW-VALUES.
214                     88 FLG-YEAR-NOT-OK                  VALUE '0'.
215                     88 FLG-YEAR-BLANK                   VALUE 'B'.
216                 20 WS-EDIT-MONTH                        PIC X(01).
217                     88 FLG-MONTH-ISVALID                VALUE LOW-VALUES.
218                     88 FLG-MONTH-NOT-OK                 VALUE '0'.
219                     88 FLG-MONTH-BLANK                  VALUE 'B'.
220                 20 WS-EDIT-DAY                          PIC X(01).
221                     88 FLG-DAY-ISVALID                  VALUE LOW-VALUES.
222                     88 FLG-DAY-NOT-OK                   VALUE '0'.
223                     88 FLG-DAY-BLANK                    VALUE 'B'.
224         10 WS-DATE-FORMAT                              PIC X(08)
225                                                         VALUE 'YYYYMMDD'.
226         10 WS-DATE-VALIDATION-RESULT .
227                 20 WS-SEVERITY                          PIC X(04).
228                 20 WS-SEVERITY-N                        REDEFINES
229                    WS-SEVERITY                          PIC 9(4).
230                 20 FILLER                               PIC X(11)
231                                                         VALUE 'MESG CODE:'.
232                 20 WS-MSG-NO                            PIC X(04).
233                 20 WS-MSG-NO-N                          REDEFINES
234                    WS-MSG-NO                            PIC 9(4).
235                 20 FILLER                               PIC X(01)
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236                                                         VALUE SPACE.
237                   20 WS-RESULT                          PIC X(15).
238                   20 FILLER                             PIC X(01)
239                                                         VALUE SPACE.
240                   20 FILLER                             PIC X(09)
241                                                         VALUE 'TSTDATE:'.
242                   20 WS-DATE                            PIC X(10).
243                   20 FILLER                             PIC X(01)
244                                                         VALUE SPACE.
245                   20 FILLER                             PIC X(10)
246                                                         VALUE 'MASK USED:' .
247                   20 WS-DATE-FMT                        PIC X(10).
248                   20 FILLER                             PIC X(01)
249                                                         VALUE SPACE.
250                   20 FILLER                             PIC X(03)
251                                                         VALUE SPACES.
252 B
253 C         *
254 C         * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:59 CDT
255 C         *
256 C         ******************************************************************
257               05  WS-DATACHANGED-FLAG                   PIC X(1).
258                   88  NO-CHANGES-FOUND                  VALUE '0'.
259                   88  CHANGE-HAS-OCCURRED               VALUE '1'.
260               05  WS-INPUT-FLAG                         PIC X(1).
261                   88  INPUT-OK                          VALUE '0'.
262                   88  INPUT-ERROR                       VALUE '1'.
263                   88  INPUT-PENDING                     VALUE LOW-VALUES.
264               05  WS-RETURN-FLAG                        PIC X(1).
265                   88  WS-RETURN-FLAG-OFF                VALUE LOW-VALUES.
266                   88  WS-RETURN-FLAG-ON                 VALUE '1'.
267               05  WS-PFK-FLAG                           PIC X(1).
268                   88  PFK-VALID                         VALUE '0'.
269                   88  PFK-INVALID                       VALUE '1'.
270 B
271 C         *  PROGRAM SPECIFIC EDITS
272               05  WS-EDIT-ACCT-FLAG                     PIC X(1).
273                   88  FLG-ACCTFILTER-ISVALID            VALUE '1'.
274                   88  FLG-ACCTFILTER-NOT-OK             VALUE '0'.
275                   88  FLG-ACCTFILTER-BLANK              VALUE ' '.
276               05  WS-EDIT-CUST-FLAG                     PIC X(1).
277                   88  FLG-CUSTFILTER-ISVALID            VALUE '1'.
278                   88  FLG-CUSTFILTER-NOT-OK             VALUE '0'.
279                   88  FLG-CUSTFILTER-BLANK              VALUE ' '.
280               05 WS-NON-KEY-FLAGS.
281                10  WS-EDIT-ACCT-STATUS                  PIC  X(1).
282                     88  FLG-ACCT-STATUS-ISVALID         VALUES 'Y', 'N'.
283                     88  FLG-ACCT-STATUS-NOT-OK          VALUE '0'.
284                     88  FLG-ACCT-STATUS-BLANK           VALUE 'B'.
285                10  WS-EDIT-CREDIT-LIMIT                 PIC  X(1).
286                     88  FLG-CRED-LIMIT-ISVALID          VALUE LOW-VALUES.
287                     88  FLG-CRED-LIMIT-NOT-OK           VALUE '0'.
288                     88  FLG-CRED-LIMIT-BLANK            VALUE 'B'.
289                10  WS-EDIT-CASH-CREDIT-LIMIT            PIC  X(1).
290                     88  FLG-CASH-CREDIT-LIMIT-ISVALID   VALUE LOW-VALUES.
291                     88  FLG-CASH-CREDIT-LIMIT-NOT-OK    VALUE '0'.
292                     88  FLG-CASH-CREDIT-LIMIT-BLANK     VALUE 'B'.
293                10  WS-EDIT-CURR-BAL                     PIC  X(1).
294                     88  FLG-CURR-BAL-ISVALID            VALUE LOW-VALUES.
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295                    88  FLG-CURR-BAL-NOT-OK            VALUE '0'.
296                    88  FLG-CURR-BAL-BLANK             VALUE 'B'.
297            10  WS-EDIT-CURR-CYC-CREDIT            PIC  X(1).
298                    88  FLG-CURR-CYC-CREDIT-ISVALID    VALUE LOW-VALUES.
299                    88  FLG-CURR-CYC-CREDIT-NOT-OK     VALUE '0'.
300                    88  FLG-CURR-CYC-CREDIT-BLANK      VALUE 'B'.
301            10  WS-EDIT-CURR-CYC-DEBIT             PIC  X(1).
302                    88  FLG-CURR-CYC-DEBIT-ISVALID     VALUE LOW-VALUES.
303                    88  FLG-CURR-CYC-DEBIT-NOT-OK      VALUE '0'.
304                    88  FLG-CURR-CYC-DEBIT-BLANK       VALUE 'B'.
305            10 WS-EDIT-DT-OF-BIRTH-FLGS.
306                    88 WS-EDIT-DT-OF-BIRTH-INVALID     VALUE '000'.
307                    88 WS-EDIT-DT-OF-BIRTH-ISVALID     VALUE LOW-VALUES.
308                    20 WS-EDIT-DT-OF-BIRTH-YEAR-FLG    PIC X(01).
309                        88 FLG-DT-OF-BIRTH-YEAR-ISVALID  VALUE LOW-VALUES.
310                        88 FLG-DT-OF-BIRTH-YEAR-NOT-OK   VALUE '0'.
311                        88 FLG-DT-OF-BIRTH-YEAR-BLANK    VALUE 'B'.
312                    20 WS-EDIT-DT-OF-BIRTH-MONTH       PIC X(01).
313                        88 FLG-DT-OF-BIRTH-MONTH-ISVALID VALUE LOW-VALUES.
314                        88 FLG-DT-OF-BIRTH-MONTH-NOT-OK  VALUE '0'.
315                        88 FLG-DT-OF-BIRTH-MONTH-BLANK   VALUE 'B'.
316                    20 WS-EDIT-DT-OF-BIRTH-DAY         PIC X(01).
317                        88 FLG-DT-OF-BIRTH-DAY-ISVALID  VALUE LOW-VALUES.
318                        88 FLG-DT-OF-BIRTH-DAY-NOT-OK   VALUE '0'.
319                        88 FLG-DT-OF-BIRTH-DAY-BLANK    VALUE 'B'.
320            10  WS-EDIT-FICO-SCORE-FLGS            PIC  X(1).
321                    88  FLG-FICO-SCORE-ISVALID        VALUE LOW-VALUES.
322                    88  FLG-FICO-SCORE-NOT-OK         VALUE '0'.
323                    88  FLG-FICO-SCORE-BLANK          VALUE 'B'.
324            10 WS-EDIT-OPEN-DATE-FLGS.
325                    88 WS-EDIT-OPEN-DATE-IS-INVALID    VALUE '000'.
326                    20 WS-EDIT-OPEN-YEAR-FLG           PIC X(01).
327                        88 FLG-OPEN-YEAR-ISVALID        VALUE LOW-VALUES.
328                        88 FLG-OPEN-YEAR-NOT-OK         VALUE '0'.
329                        88 FLG-OPEN-YEAR-BLANK          VALUE 'B'.
330                    20 WS-EDIT-OPEN-MONTH             PIC X(01).
331                        88 FLG-OPEN-MONTH-ISVALID       VALUE LOW-VALUES.
332                        88 FLG-OPEN-MONTH-NOT-OK        VALUE '0'.
333                        88 FLG-OPEN-MONTH-BLANK         VALUE 'B'.
334                    20 WS-EDIT-OPEN-DAY              PIC X(01).
335                        88 FLG-OPEN-DAY-ISVALID         VALUE LOW-VALUES.
336                        88 FLG-OPEN-DAY-NOT-OK          VALUE '0'.
337                        88 FLG-OPEN-DAY-BLANK           VALUE 'B'.
338            10 WS-EXPIRY-DATE-FLGS.
339                    88 WS-EDIT-EXPIRY-IS-INVALID       VALUE '000'.
340                    20 WS-EDIT-EXPIRY-YEAR-FLG         PIC X(01).
341                        88 FLG-EXPIRY-YEAR-ISVALID      VALUE LOW-VALUES.
342                        88 FLG-EXPIRY-YEAR-NOT-OK       VALUE '0'.
343                        88 FLG-EXPIRY-YEAR-BLANK        VALUE 'B'.
344                    20 WS-EDIT-EXPIRY-MONTH           PIC X(01).
345                        88 FLG-EXPIRY-MONTH-ISVALID     VALUE LOW-VALUES.
346                        88 FLG-EXPIRY-MONTH-NOT-OK      VALUE '0'.
347                        88 FLG-EXPIRY-MONTH-BLANK       VALUE 'B'.
348                    20 WS-EDIT-EXPIRY-DAY            PIC X(01).
349                        88 FLG-EXPIRY-DAY-ISVALID       VALUE LOW-VALUES.
350                        88 FLG-EXPIRY-DAY-NOT-OK        VALUE '0'.
351                        88 FLG-EXPIRY-DAY-BLANK         VALUE 'B'.
352            10 WS-EDIT-REISSUE-DATE-FLGS.
353                    88 WS-EDIT-REISSUE-DATE-INVALID    VALUE '000'.
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354                      20 WS-EDIT-REISSUE-YEAR-FLG          PIC X(01).
355                          88 FLG-REISSUE-YEAR-ISVALID      VALUE LOW-VALUES.
356                          88 FLG-REISSUE-YEAR-NOT-OK       VALUE '0'.
357                          88 FLG-REISSUE-YEAR-BLANK        VALUE 'B'.
358                      20 WS-EDIT-REISSUE-MONTH             PIC X(01).
359                          88 FLG-REISSUE-MONTH-ISVALID     VALUE LOW-VALUES.
360                          88 FLG-REISSUE-MONTH-NOT-OK      VALUE '0'.
361                          88 FLG-REISSUE-MONTH-BLANK       VALUE 'B'.
362                      20 WS-EDIT-REISSUE-DAY               PIC X(01).
363                          88 FLG-REISSUE-DAY-ISVALID       VALUE LOW-VALUES.
364                          88 FLG-REISSUE-DAY-NOT-OK        VALUE '0'.
365                          88 FLG-REISSUE-DAY-BLANK         VALUE 'B'.
366              10 WS-EDIT-NAME-FLAGS.
367                      20 WS-EDIT-FIRST-NAME-FLGS           PIC X(01).
368                          88 FLG-FIRST-NAME-ISVALID        VALUE LOW-VALUES.
369                          88 FLG-FIRST-NAME-NOT-OK         VALUE '0'.
370                          88 FLG-FIRST-NAME-BLANK          VALUE 'B'.
371                      20 WS-EDIT-MIDDLE-NAME-FLGS          PIC X(01).
372                          88 FLG-MIDDLE-NAME-ISVALID       VALUE LOW-VALUES.
373                          88 FLG-MIDDLE-NAME-NOT-OK        VALUE '0'.
374                          88 FLG-MIDDLE-NAME-BLANK         VALUE 'B'.
375                      20 WS-EDIT-LAST-NAME-FLGS            PIC X(01).
376                          88 FLG-LAST-NAME-ISVALID         VALUE LOW-VALUES.
377                          88 FLG-LAST-NAME-NOT-OK          VALUE '0'.
378                          88 FLG-LAST-NAME-BLANK           VALUE 'B'.
379              10 WS-EDIT-ADDRESS-FLAGS.
380                      20 WS-EDIT-ADDRESS-LINE-1-FLGS       PIC X(01).
381                          88 FLG-ADDRESS-LINE-1-ISVALID    VALUE LOW-VALUES.
382                          88 FLG-ADDRESS-LINE-1-NOT-OK     VALUE '0'.
383                          88 FLG-ADDRESS-LINE-1-BLANK      VALUE 'B'.
384                      20 WS-EDIT-ADDRESS-LINE-2-FLGS       PIC X(01).
385                          88 FLG-ADDRESS-LINE-2-ISVALID    VALUE LOW-VALUES.
386                          88 FLG-ADDRESS-LINE-2-NOT-OK     VALUE '0'.
387                          88 FLG-ADDRESS-LINE-2-BLANK      VALUE 'B'.
388                      20 WS-EDIT-CITY-FLGS                 PIC X(01).
389                          88 FLG-CITY-ISVALID              VALUE LOW-VALUES.
390                          88 FLG-CITY-NOT-OK               VALUE '0'.
391                          88 FLG-CITY-BLANK                VALUE 'B'.
392                      20 WS-EDIT-STATE-FLGS                PIC X(01).
393                          88 FLG-STATE-ISVALID             VALUE LOW-VALUES.
394                          88 FLG-STATE-NOT-OK              VALUE '0'.
395                          88 FLG-STATE-BLANK               VALUE 'B'.
396                      20 WS-EDIT-ZIPCODE-FLGS              PIC X(01).
397                          88 FLG-ZIPCODE-ISVALID           VALUE LOW-VALUES.
398                          88 FLG-ZIPCODE-NOT-OK            VALUE '0'.
399                          88 FLG-ZIPCODE-BLANK             VALUE 'B'.
400                      20 WS-EDIT-COUNTRY-FLGS              PIC X(01).
401                          88 FLG-COUNTRY-ISVALID           VALUE LOW-VALUES.
402                          88 FLG-COUNTRY-NOT-OK            VALUE '0'.
403                          88 FLG-COUNTRY-BLANK             VALUE 'B'.
404                      20 WS-EDIT-PHONE-NUM-1-FLGS.
405                          88 WS-EDIT-PHONE-NUM-1-IS-INVALID
406                                                           VALUE '000'.
407                          30 WS-EDIT-PHONE-NUM-1A-FLG      PIC X(01).
408                              88 FLG-PHONE-NUM-1A-ISVALID  VALUE LOW-VALUES.
409                              88 FLG-PHONE-NUM-1A-NOT-OK   VALUE '0'.
410                              88 FLG-PHONE-NUM-1A-BLANK    VALUE 'B'.
411                          30 WS-EDIT-PHONE-NUM-1B          PIC X(01).
412                              88 FLG-PHONE-NUM-1B-ISVALID  VALUE LOW-VALUES.
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413                        88 FLG-PHONE-NUM-1B-NOT-OK    VALUE '0'.
414                        88 FLG-PHONE-NUM-1B-BLANK     VALUE 'B'.
415                     30 WS-EDIT-PHONE-NUM-1C          PIC X(01).
416                        88 FLG-PHONE-NUM-1C-ISVALID   VALUE LOW-VALUES.
417                        88 FLG-PHONE-NUM-1C-NOT-OK    VALUE '0'.
418                        88 FLG-PHONE-NUM-1C-BLANK     VALUE 'B'.
419                  20 WS-EDIT-PHONE-NUM-2-FLGS.
420                     88 WS-EDIT-PHONE-NUM-2-IS-INVALID
421                                                      VALUE '000'.
422                     30 WS-EDIT-PHONE-NUM-2A-FLG      PIC X(01).
423                        88 FLG-PHONE-NUM-2A-ISVALID   VALUE LOW-VALUES.
424                        88 FLG-PHONE-NUM-2A-NOT-OK    VALUE '0'.
425                        88 FLG-PHONE-NUM-2A-BLANK     VALUE 'B'.
426                     30 WS-EDIT-PHONE-NUM-2B          PIC X(01).
427                        88 FLG-PHONE-NUM-2B-ISVALID   VALUE LOW-VALUES.
428                        88 FLG-PHONE-NUM-2B-NOT-OK    VALUE '0'.
429                        88 FLG-PHONE-NUM-2B-BLANK     VALUE 'B'.
430                     30 WS-EDIT-PHONE-NUM-2C          PIC X(01).
431                        88 FLG-PHONE-NUM-2C-ISVALID   VALUE LOW-VALUES.
432                        88 FLG-PHONE-NUM-2C-NOT-OK    VALUE '0'.
433                        88 FLG-PHONE-NUM-2C-BLANK     VALUE 'B'.
434            10  WS-EFT-ACCOUNT-ID-FLGS               PIC X(01).
435                88 FLG-EFT-ACCOUNT-ID-ISVALID         VALUE LOW-VALUES.
436                88 FLG-EFT-ACCOUNT-ID-NOT-OK          VALUE '0'.
437                88 FLG-EFT-ACCOUNT-ID-BLANK           VALUE 'B'.
438            10  WS-EDIT-PRI-CARDHOLDER               PIC  X(1).
439                88  FLG-PRI-CARDHOLDER-ISVALID        VALUES 'Y', 'N'.
440                88  FLG-PRI-CARDHOLDER-NOT-OK         VALUE '0'.
441                88  FLG-PRI-CARDHOLDER-BLANK          VALUE 'B'.
442 B
443 C   ******************************************************************
444 C   * OUTPUT EDITS
445 C   ******************************************************************
446        05 CICS-OUTPUT-EDIT-VARS.
447            10  CUST-ACCT-ID-X                       PIC X(11).
448            10  CUST-ACCT-ID-N REDEFINES CUST-ACCT-ID-X
449                                                     PIC 9(11).
450            10  WS-EDIT-DATE-X                       PIC X(10).
451            10  FILLER REDEFINES WS-EDIT-DATE-X.
452                20 WS-EDIT-DATE-X-YEAR               PIC X(4).
453                20 FILLER                            PIC X(1).
454                20 WS-EDIT-DATE-MONTH                PIC X(2).
455                20 FILLER                            PIC X(1).
456                20 WS-EDIT-DATE-DAY                  PIC X(2).
457            10  WS-EDIT-DATE-X REDEFINES
458                WS-EDIT-DATE-X                       PIC 9(10).
459            10  WS-EDIT-CURRENCY-9-2                 PIC X(15).
460            10  WS-EDIT-CURRENCY-9-2-F               PIC +ZZZ,ZZZ,ZZZ.99.
461 B
462 C   ******************************************************************
463 C   *     FILE AND DATA HANDLING
464 C   ******************************************************************
465        05 WS-XREF-RID.
466            10  WS-CARD-RID-CARDNUM                  PIC X(16).
467            10  WS-CARD-RID-CUST-ID                  PIC 9(09).
468            10  WS-CARD-RID-CUST-ID-X REDEFINES
469                    WS-CARD-RID-CUST-ID              PIC X(09).
470            10  WS-CARD-RID-ACCT-ID                  PIC 9(11).
471            10  WS-CARD-RID-ACCT-ID-X REDEFINES
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472                     WS-CARD-RID-ACCT-ID                 PIC X(11).
473            05  WS-FILE-READ-FLAGS.
474               10 WS-ACCOUNT-MASTER-READ-FLAG           PIC X(1).
475                  88 FOUND-ACCT-IN-MASTER               VALUE '1'.
476               10 WS-CUST-MASTER-READ-FLAG              PIC X(1).
477                  88 FOUND-CUST-IN-MASTER               VALUE '1'.
478            05  WS-FILE-ERROR-MESSAGE.
479               10  FILLER                               PIC X(12)
480                                                        VALUE 'FILE ERROR: '.
481               10  ERROR-OPNAME                         PIC X(8)
482                                                        VALUE SPACES.
483               10  FILLER                               PIC X(4)
484                                                        VALUE ' ON '.
485               10  ERROR-FILE                           PIC X(9)
486                                                        VALUE SPACES.
487               10  FILLER                               PIC X(15)
488                                                        VALUE
489                                                        ' RETURNED RESP '.
490               10  ERROR-RESP                           PIC X(10)
491                                                        VALUE SPACES.
492               10  FILLER                               PIC X(7)
493                                                        VALUE ',RESP2 '.
494               10  ERROR-RESP2                          PIC X(10)
495                                                        VALUE SPACES.
496               10  FILLER                               PIC X(5)
497                                                        VALUE SPACES.
498 C     *  ALPHA VARIABLES FOR EDITING NUMERICS
499 C     *
500            05 ALPHA-VARS-FOR-DATA-EDITING.
501               15 ACUP-NEW-CREDIT-LIMIT-X               PIC X(15).
502               15 ACUP-NEW-CASH-CREDIT-LIMIT-X          PIC X(15).
503               15 ACUP-NEW-CURR-BAL-X                   PIC X(15).
504               15 ACUP-NEW-CURR-CYC-CREDIT-X            PIC X(15).
505               15 ACUP-NEW-CURR-CYC-DEBIT-X             PIC X(15).
506 B
507            05 ACCT-UPDATE-RECORD.
508 C     ****************************************************************
509 C     *   DATA-STRUCTURE FOR  ACCOUNT ENTITY (RECLN 300)
510 C     ****************************************************************
511               15  ACCT-UPDATE-ID                       PIC 9(11).
512               15  ACCT-UPDATE-ACTIVE-STATUS            PIC X(01).
513               15  ACCT-UPDATE-CURR-BAL                 PIC S9(10)V99.
514               15  ACCT-UPDATE-CREDIT-LIMIT             PIC S9(10)V99.
515               15  ACCT-UPDATE-CASH-CREDIT-LIMIT        PIC S9(10)V99.
516               15  ACCT-UPDATE-OPEN-DATE                PIC X(10).
517               15  ACCT-UPDATE-EXPIRAION-DATE           PIC X(10).
518               15  ACCT-UPDATE-REISSUE-DATE             PIC X(10).
519               15  ACCT-UPDATE-CURR-CYC-CREDIT          PIC S9(10)V99.
520               15  ACCT-UPDATE-CURR-CYC-DEBIT           PIC S9(10)V99.
521               15  ACCT-UPDATE-GROUP-ID                 PIC X(10).
522               15  FILLER                               PIC X(188).
523            05 CUST-UPDATE-RECORD.
524 C     ****************************************************************
525 C     *   DATA-STRUCTURE FOR  CUSTOMER ENTITY (RECLN 300)
526 C     ****************************************************************
527               15  CUST-UPDATE-ID                       PIC 9(09).
528               15  CUST-UPDATE-FIRST-NAME               PIC X(25).
529               15  CUST-UPDATE-MIDDLE-NAME              PIC X(25).
530               15  CUST-UPDATE-LAST-NAME                PIC X(25).
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531                 15  CUST-UPDATE-ADDR-LINE-1            PIC X(50).
532                 15  CUST-UPDATE-ADDR-LINE-2            PIC X(50).
533                 15  CUST-UPDATE-ADDR-LINE-3            PIC X(50).
534                 15  CUST-UPDATE-ADDR-STATE-CD          PIC X(02).
535                 15  CUST-UPDATE-ADDR-COUNTRY-CD        PIC X(03).
536                 15  CUST-UPDATE-ADDR-ZIP              PIC X(10).
537                 15  CUST-UPDATE-PHONE-NUM-1            PIC X(15).
538                 15  CUST-UPDATE-PHONE-NUM-2            PIC X(15).
539                 15  CUST-UPDATE-SSN                   PIC 9(09).
540                 15  CUST-UPDATE-GOVT-ISSUED-ID         PIC X(20).
541                 15  CUST-UPDATE-DOB-YYYY-MM-DD         PIC X(10).
542                 15  CUST-UPDATE-EFT-ACCOUNT-ID         PIC X(10).
543                 15  CUST-UPDATE-PRI-CARD-IND           PIC X(01).
544                 15  CUST-UPDATE-FICO-CREDIT-SCORE      PIC 9(03).
545                 15  FILLER                           PIC X(168).
546 B
547 B
548 C        *****************************************************************
549 C        *      OUTPUT MESSAGE CONSTRUCTION
550 C        *****************************************************************
551            05  WS-LONG-MSG                          PIC X(500).
552            05  WS-INFO-MSG                          PIC X(40).
553              88  WS-NO-INFO-MESSAGE                 VALUES
554                                                     SPACES LOW-VALUES.
555              88  FOUND-ACCOUNT-DATA          VALUE
556                  'DETAILS OF SELECTED ACCOUNT SHOWN ABOVE'.
557              88  PROMPT-FOR-SEARCH-KEYS             VALUE
558                  'ENTER OR UPDATE ID OF ACCOUNT TO UPDATE'.
559              88  PROMPT-FOR-CHANGES                 VALUE
560                  'UPDATE ACCOUNT DETAILS PRESENTED ABOVE.'.
561              88  PROMPT-FOR-CONFIRMATION            VALUE
562                  'CHANGES VALIDATED.PRESS F5 TO SAVE'.
563              88  CONFIRM-UPDATE-SUCCESS            VALUE
564                  'CHANGES COMMITTED TO DATABASE'.
565              88  INFORM-FAILURE                    VALUE
566                  'CHANGES UNSUCCESSFUL. PLEASE TRY AGAIN'.
567 B
568            05  WS-RETURN-MSG                        PIC X(75).
569              88  WS-RETURN-MSG-OFF                 VALUE SPACES.
570              88  WS-EXIT-MESSAGE                   VALUE
571                  'PF03 PRESSED.EXITING              '.
572              88  WS-PROMPT-FOR-ACCT               VALUE
573                  'ACCOUNT NUMBER NOT PROVIDED'.
574              88  WS-PROMPT-FOR-LASTNAME            VALUE
575                  'LAST NAME NOT PROVIDED'.
576              88  WS-NAME-MUST-BE-ALPHA             VALUE
577                  'NAME CAN ONLY CONTAIN ALPHABETS AND SPACES'.
578              88  NO-SEARCH-CRITERIA-RECEIVED       VALUE
579                  'NO INPUT RECEIVED'.
580              88  NO-CHANGES-DETECTED               VALUE
581                  'NO CHANGE DETECTED WITH RESPECT TO VALUES FETCHED.'.
582              88  SEARCHED-ACCT-ZEROES             VALUE
583                  'ACCOUNT NUMBER MUST BE A NON ZERO 11 DIGIT NUMBER'.
584              88  SEARCHED-ACCT-NOT-NUMERIC        VALUE
585                  'ACCOUNT NUMBER MUST BE A NON ZERO 11 DIGIT NUMBER'.
586              88  DID-NOT-FIND-ACCT-IN-CARDXREF      VALUE
587                  'DID NOT FIND THIS ACCOUNT IN ACCOUNT CARD XREF FILE'.
588              88  DID-NOT-FIND-ACCT-IN-ACCTDAT       VALUE
589                  'DID NOT FIND THIS ACCOUNT IN ACCOUNT MASTER FILE'.
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590            88  DID-NOT-FIND-CUST-IN-CUSTDAT         VALUE
591                'DID NOT FIND ASSOCIATED CUSTOMER IN MASTER FILE'.
592            88  ACCT-STATUS-MUST-BE-YES-NO          VALUE
593                'ACCOUNT ACTIVE STATUS MUST BE Y OR N'.
594            88  CRED-LIMIT-IS-BLANK                 VALUE
595                'CREDIT LIMIT MUST BE SUPPLIED'.
596            88  CRED-LIMIT-IS-NOT-VALID             VALUE
597                'CREDIT LIMIT IS NOT VALID'.
598            88  THIS-MONTH-NOT-VALID                VALUE
599                'CARD EXPIRY MONTH MUST BE BETWEEN 1 AND 12'.
600            88  THIS-YEAR-NOT-VALID                 VALUE
601                'INVALID CARD EXPIRY YEAR'.
602            88  DID-NOT-FIND-ACCT-IN-CARDXREF       VALUE
603                'DID NOT FIND THIS ACCOUNT IN CARDS DATABASE'.
604            88  DID-NOT-FIND-ACCTCARD-COMBO         VALUE
605                'DID NOT FIND CARDS FOR THIS SEARCH CONDITION'.
606            88  COULD-NOT-LOCK-ACCT-FOR-UPDATE      VALUE
607                'COULD NOT LOCK ACCOUNT RECORD FOR UPDATE'.
608            88  COULD-NOT-LOCK-CUST-FOR-UPDATE      VALUE
609                'COULD NOT LOCK CUSTOMER RECORD FOR UPDATE'.
610            88  DATA-WAS-CHANGED-BEFORE-UPDATE      VALUE
611                'RECORD CHANGED BY SOME ONE ELSE. PLEASE REVIEW'.
612            88  LOCKED-BUT-UPDATE-FAILED            VALUE
613                'UPDATE OF RECORD FAILED'.
614            88  XREF-READ-ERROR                     VALUE
615                'ERROR READING CARD DATA FILE'.
616            88  CODING-TO-BE-DONE                   VALUE
617                'LOOKS GOOD.... SO FAR'.
618 C    *******************************************************************
619 C    *      LITERALS AND CONSTANTS
620 C    *******************************************************************
621      01 WS-LITERALS.
622         05 LIT-THISPGM                     PIC X(8)
623                                            VALUE 'COACTUPC'.
624         05 LIT-THISTRANID                  PIC X(4)
625                                            VALUE 'CAUP'.
626         05 LIT-THISMAPSET                  PIC X(8)
627                                            VALUE 'COACTUP '.
628         05 LIT-THISMAP                     PIC X(7)
629                                            VALUE 'CACTUPA'.
630         05 LIT-CARDUPDATE-PGM              PIC X(8)
631                                            VALUE 'COCRDUPC'.
632         05 LIT-CARDUPDATE-TRANID           PIC X(4)
633                                            VALUE 'CCUP'.
634         05 LIT-CARDUPDATE-MAPSET           PIC X(8)
635                                            VALUE 'COCRDUP '.
636         05 LIT-CARDUPDATE-MAP              PIC X(7)
637                                            VALUE 'CCRDUPA'.
638         05 LIT-CCLISTPGM                   PIC X(8)
639                                            VALUE 'COCRDLIC'.
640         05 LIT-CCLISTTRANID                PIC X(4)
641                                            VALUE 'CCLI'.
642         05 LIT-CCLISTMAPSET                PIC X(7)
643                                            VALUE 'COCRDLI'.
644         05 LIT-CCLISTMAP                   PIC X(7)
645                                            VALUE 'CCRDSLA'.
646         05 LIT-MENUPGM                     PIC X(8)
647                                            VALUE 'COMEN01C'.
648         05 LIT-MENUTRANID                  PIC X(4)
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649                                                           VALUE 'CM00'.
650            05 LIT-MENUMAPSET                              PIC X(7)
651                                                           VALUE 'COMEN01'.
652            05 LIT-MENUMAP                                 PIC X(7)
653                                                           VALUE 'COMEN1A'.
654            05 LIT-CARDDTLPGM                              PIC X(8)
655                                                           VALUE 'COCRDSLC'.
656            05 LIT-CARDDTLTRANID                           PIC X(4)
657                                                           VALUE 'CCDL'.
658            05 LIT-CARDDTLMAPSET                           PIC X(7)
659                                                           VALUE 'COCRDSL'.
660            05 LIT-CARDDTLMAP                              PIC X(7)
661                                                           VALUE 'CCRDSLA'.
662            05 LIT-ACCTFILENAME                            PIC X(8)
663                                                           VALUE 'ACCTDAT '.
664            05 LIT-CUSTFILENAME                            PIC X(8)
665                                                           VALUE 'CUSTDAT '.
666            05 LIT-CARDFILENAME                            PIC X(8)
667                                                           VALUE 'CARDDAT '.
668            05 LIT-CARDFILENAME-ACCT-PATH                  PIC X(8)
669                                                           VALUE 'CARDAIX '.
670            05 LIT-CARDXREFNAME-ACCT-PATH                  PIC X(8)
671                                                           VALUE 'CXACAIX '.
672 C      *****************************************************************
673 C      * LITERALS FOR USE IN INSPECT STATEMENTS
674 C      *****************************************************************
675            05 LIT-ALL-ALPHANUM-FROM-X.
676               10 LIT-ALL-ALPHA-FROM-X.
677                  15 LIT-UPPER                             PIC X(26)
678                                   VALUE 'ABCDEFGHIJKLMNOPQRSTUVWXYZ'.
679                  15 LIT-LOWER                             PIC X(26)
680                                   VALUE 'ABCDEFGHIJKLMNOPQRSTUVWXYZ'.
681               10 LIT-NUMBERS                              PIC X(10)
682                                   VALUE '0123456789'.
683 C      *****************************************************************
684 C      *OTHER COMMON WORKING STORAGE VARIABLES
685 C      *****************************************************************
686 C      *COPY CVCRD01Y.
687          01  CC-WORK-AREAS.
688            05 CC-WORK-AREA.
689               10 CCARD-AID                                PIC X(5).
690                  88   CCARD-AID-ENTER                     VALUE 'ENTER'.
691                  88   CCARD-AID-CLEAR                     VALUE 'CLEAR'.
692                  88   CCARD-AID-PA1                       VALUE 'PA1  '.
693                  88   CCARD-AID-PA2                       VALUE 'PA2  '.
694                  88   CCARD-AID-PFK01                     VALUE 'PFK01'.
695                  88   CCARD-AID-PFK02                     VALUE 'PFK02'.
696                  88   CCARD-AID-PFK03                     VALUE 'PFK03'.
697                  88   CCARD-AID-PFK04                     VALUE 'PFK04'.
698                  88   CCARD-AID-PFK05                     VALUE 'PFK05'.
699                  88   CCARD-AID-PFK06                     VALUE 'PFK06'.
700                  88   CCARD-AID-PFK07                     VALUE 'PFK07'.
701                  88   CCARD-AID-PFK08                     VALUE 'PFK08'.
702                  88   CCARD-AID-PFK09                     VALUE 'PFK09'.
703                  88   CCARD-AID-PFK10                     VALUE 'PFK10'.
704                  88   CCARD-AID-PFK11                     VALUE 'PFK11'.
705                  88   CCARD-AID-PFK12                     VALUE 'PFK12'.
706 C    *    10  CCARD-LAST-PROG                             PIC X(8).
707               10  CCARD-NEXT-PROG                         PIC X(8).
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708 C       *      10  CCARD-RETURN-TO-PROG         PIC X(8).
709                 10  CCARD-NEXT-MAPSET           PIC X(7).
710                 10  CCARD-NEXT-MAP              PIC X(7).
711 C       *      10  CCARD-RETURN-FLAG            PIC X(1).
712 C       *        88  CCARD-RETURN-FLAG-OFF      VALUE LOW-VALUES.
713 C       *        88  CCARD-RETURN-FLAG-ON       VALUE '1'.
714                 10  CCARD-ERROR-MSG             PIC X(75).
715                 10  CCARD-RETURN-MSG            PIC X(75).
716                   88  CCARD-RETURN-MSG-OFF      VALUE LOW-VALUES.
717 C       *      10  CCARD-FUNCTION               PIC X(1).
718 C       *        88  CCARD-NO-VALUE              VALUE LOW-VALUES.
719 C       *        88  CCARD-GET-DATA              VALUE '1'.
720                 10 CC-ACCT-ID                   PIC X(11)
721                                                 VALUE SPACES.
722                 10 CC-ACCT-ID-N REDEFINES CC-ACCT-ID PIC 9(11).
723                 10 CC-CARD-NUM                  PIC X(16)
724                                                 VALUE SPACES.
725                 10 CC-CARD-NUM-N REDEFINES CC-CARD-NUM PIC 9(16).
726                 10 CC-CUST-ID                   PIC X(09)
727                                                 VALUE SPACES.
728                 10 CC-CUST-ID-N REDEFINES CC-CUST-ID PIC 9(9).
729 B
730 C       *
731 C       * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:16:00 CDT
732 C       *
733 C       ********************************************************************
734 C       *LOOKUPS
735 C       ********************************************************************
736 C       *NORTH AMERICA PHONE AREA CODES
737 C       *COPY CSLKPCDY.
738 C       ********************************************************************
739 C       *LOOKUP CODE REPOSITORY
740 C       *      1) NORTH AMERICA PHONE AREA CODES
741 C       *      2) UNITED STATES - STATE CODES
742 C       *      3) UNITED STATES - STATE + FIRST 2 OF ZIP
743 C       *
744 C       ********************************************************************
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758 C       * LANGUAGE GOVERNING PERMISSIONS AND LIMITATIONS UNDER THE LICENSE
759 C       ********************************************************************
760 B
761          01 WS-US-PHONE-AREA-CODE-TO-EDIT PIC XXX.
762 C       ********************************************************************
763 C       *NORTH AMERICA PHONE AREA CODES LIST OBTAINED FROM NORTH AMERICA
764 C       *NUMBERING PLAN ADMINISTRATOR *NANPA
765 C       *HTTPS://NATIONALNANPA.COM/NANP1/NPA_REPORT.CSV
766 C       ********************************************************************
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767              88 VALID-PHONE-AREA-CODE VALUES '201',
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2051            02 LAST-3-OF-ZIP         PIC X(3).
2052 C      *
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2054 C      *
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2057 C      ******************************************************************
2058 C      * VARIABLES FOR USE IN INSPECT STATEMENTS
2059 C      ******************************************************************
2060          01  LIT-ALL-ALPHA-FROM     PIC X(52) VALUE SPACES.
2061          01  LIT-ALL-ALPHANUM-FROM  PIC X(62) VALUE SPACES.
2062          01  LIT-ALL-NUM-FROM       PIC X(10) VALUE SPACES.
2063          77  LIT-ALPHA-SPACES-TO    PIC X(52) VALUE SPACES.
2064          77  LIT-ALPHANUM-SPACES-TO PIC X(62) VALUE SPACES.
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2065          77  LIT-NUM-SPACES-TO      PIC X(10) VALUE SPACES.
2066 B
2067 C        *IBM SUPPLIED COPYBOOKS
2068 C        *COPY DFHBMSCA.
2069 C        *COPY DFHAID.
2070 B
2071 C        *COMMON COPYBOOKS
2072 C        *SCREEN TITLES
2073 C        *COPY COTTL01Y.
2074 C        ****************************************************************
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2082 C        *    HTTP://WWW.APACHE.ORG/LICENSES/LICENSE-2.0
2083 C        *
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2087 C        * EITHER EXPRESS OR IMPLIED. SEE THE LICENSE FOR THE SPECIFIC
2088 C        * LANGUAGE GOVERNING PERMISSIONS AND LIMITATIONS UNDER THE LICENSE
2089 C        ****************************************************************
2090          01 CCDA-SCREEN-TITLE.
2091            05 CCDA-TITLE01   PIC X(40) VALUE
2092               '      AWS MAINFRAME MODERNIZATION        '.
2093            05 CCDA-TITLE02   PIC X(40) VALUE
2094 C        *     '  CREDIT CARD DEMO APPLICATION (CCDA)   '.
2095               '               CARDDEMO                  '.
2096            05 CCDA-THANK-YOU  PIC X(40) VALUE
2097               'THANK YOU FOR USING CCDA APPLICATION... '.
2098 C        *
2099 C        * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
2100 C        *
2101 B
2102 C        *ACCOUNT UPDATE SCREEN LAYOUT
2103 C        *COPY COACTUP.
2104 C        ****************************************************************
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2119 C        ****************************************************************
2120          01  CACTUPAI.
2121            02  FILLER PIC X(12).
2122            02  TRNNAMEL    COMP  PIC  S9(4).
2123            02  TRNNAMEF    PICTURE X.
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2124                 02  FILLER REDEFINES TRNNAMEF.
2125                   03 TRNNAMEA    PICTURE X.
2126                 02  FILLER  PICTURE X(4).
2127                 02  TRNNAMEI  PIC X(4).
2128                 02  TITLE01L    COMP  PIC  S9(4).
2129                 02  TITLE01F    PICTURE X.
2130                 02  FILLER REDEFINES TITLE01F.
2131                   03 TITLE01A    PICTURE X.
2132                 02  FILLER  PICTURE X(4).
2133                 02  TITLE01I  PIC X(40).
2134                 02  CURDATEL    COMP  PIC  S9(4).
2135                 02  CURDATEF    PICTURE X.
2136                 02  FILLER REDEFINES CURDATEF.
2137                   03 CURDATEA    PICTURE X.
2138                 02  FILLER  PICTURE X(4).
2139                 02  CURDATEI  PIC X(8).
2140                 02  PGMNAMEL    COMP  PIC  S9(4).
2141                 02  PGMNAMEF    PICTURE X.
2142                 02  FILLER REDEFINES PGMNAMEF.
2143                   03 PGMNAMEA    PICTURE X.
2144                 02  FILLER  PICTURE X(4).
2145                 02  PGMNAMEI  PIC X(8).
2146                 02  TITLE02L    COMP  PIC  S9(4).
2147                 02  TITLE02F    PICTURE X.
2148                 02  FILLER REDEFINES TITLE02F.
2149                   03 TITLE02A    PICTURE X.
2150                 02  FILLER  PICTURE X(4).
2151                 02  TITLE02I  PIC X(40).
2152                 02  CURTIMEL    COMP  PIC  S9(4).
2153                 02  CURTIMEF    PICTURE X.
2154                 02  FILLER REDEFINES CURTIMEF.
2155                   03 CURTIMEA    PICTURE X.
2156                 02  FILLER  PICTURE X(4).
2157                 02  CURTIMEI  PIC X(8).
2158                 02  ACCTSIDL    COMP  PIC  S9(4).
2159                 02  ACCTSIDF    PICTURE X.
2160                 02  FILLER REDEFINES ACCTSIDF.
2161                   03 ACCTSIDA    PICTURE X.
2162                 02  FILLER  PICTURE X(4).
2163                 02  ACCTSIDI  PIC X(11).
2164                 02  ACSTTUSL    COMP  PIC  S9(4).
2165                 02  ACSTTUSF    PICTURE X.
2166                 02  FILLER REDEFINES ACSTTUSF.
2167                   03 ACSTTUSA    PICTURE X.
2168                 02  FILLER  PICTURE X(4).
2169                 02  ACSTTUSI  PIC X(1).
2170                 02  OPNYEARL    COMP  PIC  S9(4).
2171                 02  OPNYEARF    PICTURE X.
2172                 02  FILLER REDEFINES OPNYEARF.
2173                   03 OPNYEARA    PICTURE X.
2174                 02  FILLER  PICTURE X(4).
2175                 02  OPNYEARI  PIC X(4).
2176                 02  OPNMONL    COMP  PIC  S9(4).
2177                 02  OPNMONF    PICTURE X.
2178                 02  FILLER REDEFINES OPNMONF.
2179                   03 OPNMONA    PICTURE X.
2180                 02  FILLER  PICTURE X(4).
2181                 02  OPNMONI  PIC X(2).
2182                 02  OPNDAYL    COMP  PIC  S9(4).
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2183              02  OPNDAYF    PICTURE X.
2184              02  FILLER REDEFINES OPNDAYF.
2185                03 OPNDAYA    PICTURE X.
2186              02  FILLER   PICTURE X(4).
2187              02  OPNDAYI  PIC X(2).
2188              02  ACRDLIML    COMP  PIC  S9(4).
2189              02  ACRDLIMF    PICTURE X.
2190              02  FILLER REDEFINES ACRDLIMF.
2191                03 ACRDLIMA    PICTURE X.
2192              02  FILLER   PICTURE X(4).
2193              02  ACRDLIMI  PIC X(15).
2194              02  EXPYEARL    COMP  PIC  S9(4).
2195              02  EXPYEARF    PICTURE X.
2196              02  FILLER REDEFINES EXPYEARF.
2197                03 EXPYEARA    PICTURE X.
2198              02  FILLER   PICTURE X(4).
2199              02  EXPYEARI  PIC X(4).
2200              02  EXPMONL    COMP  PIC  S9(4).
2201              02  EXPMONF    PICTURE X.
2202              02  FILLER REDEFINES EXPMONF.
2203                03 EXPMONA    PICTURE X.
2204              02  FILLER   PICTURE X(4).
2205              02  EXPMONI  PIC X(2).
2206              02  EXPDAYL    COMP  PIC  S9(4).
2207              02  EXPDAYF    PICTURE X.
2208              02  FILLER REDEFINES EXPDAYF.
2209                03 EXPDAYA    PICTURE X.
2210              02  FILLER   PICTURE X(4).
2211              02  EXPDAYI  PIC X(2).
2212              02  ACSHLIML    COMP  PIC  S9(4).
2213              02  ACSHLIMF    PICTURE X.
2214              02  FILLER REDEFINES ACSHLIMF.
2215                03 ACSHLIMA    PICTURE X.
2216              02  FILLER   PICTURE X(4).
2217              02  ACSHLIMI  PIC X(15).
2218              02  RISYEARL    COMP  PIC  S9(4).
2219              02  RISYEARF    PICTURE X.
2220              02  FILLER REDEFINES RISYEARF.
2221                03 RISYEARA    PICTURE X.
2222              02  FILLER   PICTURE X(4).
2223              02  RISYEARI  PIC X(4).
2224              02  RISMONL    COMP  PIC  S9(4).
2225              02  RISMONF    PICTURE X.
2226              02  FILLER REDEFINES RISMONF.
2227                03 RISMONA    PICTURE X.
2228              02  FILLER   PICTURE X(4).
2229              02  RISMONI  PIC X(2).
2230              02  RISDAYL    COMP  PIC  S9(4).
2231              02  RISDAYF    PICTURE X.
2232              02  FILLER REDEFINES RISDAYF.
2233                03 RISDAYA    PICTURE X.
2234              02  FILLER   PICTURE X(4).
2235              02  RISDAYI  PIC X(2).
2236              02  ACURBALL    COMP  PIC  S9(4).
2237              02  ACURBALF    PICTURE X.
2238              02  FILLER REDEFINES ACURBALF.
2239                03 ACURBALA    PICTURE X.
2240              02  FILLER   PICTURE X(4).
2241              02  ACURBALI  PIC X(15).
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2242              02  ACRCYCRL    COMP  PIC  S9(4).
2243              02  ACRCYCRF    PICTURE X.
2244              02  FILLER REDEFINES ACRCYCRF.
2245                03 ACRCYCRA    PICTURE X.
2246              02  FILLER  PICTURE X(4).
2247              02  ACRCYCRI  PIC X(15).
2248              02  AADDGRPL    COMP  PIC  S9(4).
2249              02  AADDGRPF    PICTURE X.
2250              02  FILLER REDEFINES AADDGRPF.
2251                03 AADDGRPA    PICTURE X.
2252              02  FILLER  PICTURE X(4).
2253              02  AADDGRPI  PIC X(10).
2254              02  ACRCYDBL    COMP  PIC  S9(4).
2255              02  ACRCYDBF    PICTURE X.
2256              02  FILLER REDEFINES ACRCYDBF.
2257                03 ACRCYDBA    PICTURE X.
2258              02  FILLER  PICTURE X(4).
2259              02  ACRCYDBI  PIC X(15).
2260              02  ACSTNUML    COMP  PIC  S9(4).
2261              02  ACSTNUMF    PICTURE X.
2262              02  FILLER REDEFINES ACSTNUMF.
2263                03 ACSTNUMA    PICTURE X.
2264              02  FILLER  PICTURE X(4).
2265              02  ACSTNUMI  PIC X(9).
2266              02  ACTSSN1L    COMP  PIC  S9(4).
2267              02  ACTSSN1F    PICTURE X.
2268              02  FILLER REDEFINES ACTSSN1F.
2269                03 ACTSSN1A    PICTURE X.
2270              02  FILLER  PICTURE X(4).
2271              02  ACTSSN1I  PIC X(3).
2272              02  ACTSSN2L    COMP  PIC  S9(4).
2273              02  ACTSSN2F    PICTURE X.
2274              02  FILLER REDEFINES ACTSSN2F.
2275                03 ACTSSN2A    PICTURE X.
2276              02  FILLER  PICTURE X(4).
2277              02  ACTSSN2I  PIC X(2).
2278              02  ACTSSN3L    COMP  PIC  S9(4).
2279              02  ACTSSN3F    PICTURE X.
2280              02  FILLER REDEFINES ACTSSN3F.
2281                03 ACTSSN3A    PICTURE X.
2282              02  FILLER  PICTURE X(4).
2283              02  ACTSSN3I  PIC X(4).
2284              02  DOBYEARL    COMP  PIC  S9(4).
2285              02  DOBYEARF    PICTURE X.
2286              02  FILLER REDEFINES DOBYEARF.
2287                03 DOBYEARA    PICTURE X.
2288              02  FILLER  PICTURE X(4).
2289              02  DOBYEARI  PIC X(4).
2290              02  DOBMONL     COMP  PIC  S9(4).
2291              02  DOBMONF     PICTURE X.
2292              02  FILLER REDEFINES DOBMONF.
2293                03 DOBMONA     PICTURE X.
2294              02  FILLER  PICTURE X(4).
2295              02  DOBMONI  PIC X(2).
2296              02  DOBDAYL     COMP  PIC  S9(4).
2297              02  DOBDAYF     PICTURE X.
2298              02  FILLER REDEFINES DOBDAYF.
2299                03 DOBDAYA     PICTURE X.
2300              02  FILLER  PICTURE X(4).
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2301                02  DOBDAYI  PIC X(2).
2302                02  ACSTFCOL    COMP  PIC  S9(4).
2303                02  ACSTFCOF    PICTURE X.
2304                02  FILLER REDEFINES ACSTFCOF.
2305                  03 ACSTFCOA    PICTURE X.
2306                02  FILLER   PICTURE X(4).
2307                02  ACSTFCOI  PIC X(3).
2308                02  ACSFNAML    COMP  PIC  S9(4).
2309                02  ACSFNAMF    PICTURE X.
2310                02  FILLER REDEFINES ACSFNAMF.
2311                  03 ACSFNAMA    PICTURE X.
2312                02  FILLER   PICTURE X(4).
2313                02  ACSFNAMI  PIC X(25).
2314                02  ACSMNAML    COMP  PIC  S9(4).
2315                02  ACSMNAMF    PICTURE X.
2316                02  FILLER REDEFINES ACSMNAMF.
2317                  03 ACSMNAMA    PICTURE X.
2318                02  FILLER   PICTURE X(4).
2319                02  ACSMNAMI  PIC X(25).
2320                02  ACSLNAML    COMP  PIC  S9(4).
2321                02  ACSLNAMF    PICTURE X.
2322                02  FILLER REDEFINES ACSLNAMF.
2323                  03 ACSLNAMA    PICTURE X.
2324                02  FILLER   PICTURE X(4).
2325                02  ACSLNAMI  PIC X(25).
2326                02  ACSADL1L    COMP  PIC  S9(4).
2327                02  ACSADL1F    PICTURE X.
2328                02  FILLER REDEFINES ACSADL1F.
2329                  03 ACSADL1A    PICTURE X.
2330                02  FILLER   PICTURE X(4).
2331                02  ACSADL1I  PIC X(50).
2332                02  ACSSTTEL    COMP  PIC  S9(4).
2333                02  ACSSTTEF    PICTURE X.
2334                02  FILLER REDEFINES ACSSTTEF.
2335                  03 ACSSTTEA    PICTURE X.
2336                02  FILLER   PICTURE X(4).
2337                02  ACSSTTEI  PIC X(2).
2338                02  ACSADL2L    COMP  PIC  S9(4).
2339                02  ACSADL2F    PICTURE X.
2340                02  FILLER REDEFINES ACSADL2F.
2341                  03 ACSADL2A    PICTURE X.
2342                02  FILLER   PICTURE X(4).
2343                02  ACSADL2I  PIC X(50).
2344                02  ACSZIPCL    COMP  PIC  S9(4).
2345                02  ACSZIPCF    PICTURE X.
2346                02  FILLER REDEFINES ACSZIPCF.
2347                  03 ACSZIPCA    PICTURE X.
2348                02  FILLER   PICTURE X(4).
2349                02  ACSZIPCI  PIC X(5).
2350                02  ACSCITYL    COMP  PIC  S9(4).
2351                02  ACSCITYF    PICTURE X.
2352                02  FILLER REDEFINES ACSCITYF.
2353                  03 ACSCITYA    PICTURE X.
2354                02  FILLER   PICTURE X(4).
2355                02  ACSCITYI  PIC X(50).
2356                02  ACSCTRYL    COMP  PIC  S9(4).
2357                02  ACSCTRYF    PICTURE X.
2358                02  FILLER REDEFINES ACSCTRYF.
2359                  03 ACSCTRYA    PICTURE X.
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2360             02  FILLER   PICTURE X(4).
2361             02  ACSCTRYI  PIC X(3).
2362             02  ACSPH1AL    COMP  PIC  S9(4).
2363             02  ACSPH1AF    PICTURE X.
2364             02  FILLER REDEFINES ACSPH1AF.
2365               03 ACSPH1AA    PICTURE X.
2366             02  FILLER   PICTURE X(4).
2367             02  ACSPH1AI  PIC X(3).
2368             02  ACSPH1BL    COMP  PIC  S9(4).
2369             02  ACSPH1BF    PICTURE X.
2370             02  FILLER REDEFINES ACSPH1BF.
2371               03 ACSPH1BA    PICTURE X.
2372             02  FILLER   PICTURE X(4).
2373             02  ACSPH1BI  PIC X(3).
2374             02  ACSPH1CL    COMP  PIC  S9(4).
2375             02  ACSPH1CF    PICTURE X.
2376             02  FILLER REDEFINES ACSPH1CF.
2377               03 ACSPH1CA    PICTURE X.
2378             02  FILLER   PICTURE X(4).
2379             02  ACSPH1CI  PIC X(4).
2380             02  ACSGOVTL    COMP  PIC  S9(4).
2381             02  ACSGOVTF    PICTURE X.
2382             02  FILLER REDEFINES ACSGOVTF.
2383               03 ACSGOVTA    PICTURE X.
2384             02  FILLER   PICTURE X(4).
2385             02  ACSGOVTI  PIC X(20).
2386             02  ACSPH2AL    COMP  PIC  S9(4).
2387             02  ACSPH2AF    PICTURE X.
2388             02  FILLER REDEFINES ACSPH2AF.
2389               03 ACSPH2AA    PICTURE X.
2390             02  FILLER   PICTURE X(4).
2391             02  ACSPH2AI  PIC X(3).
2392             02  ACSPH2BL    COMP  PIC  S9(4).
2393             02  ACSPH2BF    PICTURE X.
2394             02  FILLER REDEFINES ACSPH2BF.
2395               03 ACSPH2BA    PICTURE X.
2396             02  FILLER   PICTURE X(4).
2397             02  ACSPH2BI  PIC X(3).
2398             02  ACSPH2CL    COMP  PIC  S9(4).
2399             02  ACSPH2CF    PICTURE X.
2400             02  FILLER REDEFINES ACSPH2CF.
2401               03 ACSPH2CA    PICTURE X.
2402             02  FILLER   PICTURE X(4).
2403             02  ACSPH2CI  PIC X(4).
2404             02  ACSEFTCL    COMP  PIC  S9(4).
2405             02  ACSEFTCF    PICTURE X.
2406             02  FILLER REDEFINES ACSEFTCF.
2407               03 ACSEFTCA    PICTURE X.
2408             02  FILLER   PICTURE X(4).
2409             02  ACSEFTCI  PIC X(10).
2410             02  ACSPFLGL    COMP  PIC  S9(4).
2411             02  ACSPFLGF    PICTURE X.
2412             02  FILLER REDEFINES ACSPFLGF.
2413               03 ACSPFLGA    PICTURE X.
2414             02  FILLER   PICTURE X(4).
2415             02  ACSPFLGI  PIC X(1).
2416             02  INFOMSGL    COMP  PIC  S9(4).
2417             02  INFOMSGF    PICTURE X.
2418             02  FILLER REDEFINES INFOMSGF.
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2419           03 INFOMSGA    PICTURE X.
2420        02  FILLER   PICTURE X(4).
2421        02  INFOMSGI  PIC X(45).
2422        02  ERRMSGL   COMP  PIC  S9(4).
2423        02  ERRMSGF   PICTURE X.
2424        02  FILLER REDEFINES ERRMSGF.
2425           03 ERRMSGA    PICTURE X.
2426        02  FILLER   PICTURE X(4).
2427        02  ERRMSGI  PIC X(78).
2428        02  FKEYSL    COMP  PIC  S9(4).
2429        02  FKEYSF    PICTURE X.
2430        02  FILLER REDEFINES FKEYSF.
2431           03 FKEYSA    PICTURE X.
2432        02  FILLER   PICTURE X(4).
2433        02  FKEYSI  PIC X(21).
2434        02  FKEY05L   COMP  PIC  S9(4).
2435        02  FKEY05F   PICTURE X.
2436        02  FILLER REDEFINES FKEY05F.
2437           03 FKEY05A    PICTURE X.
2438        02  FILLER   PICTURE X(4).
2439        02  FKEY05I  PIC X(7).
2440        02  FKEY12L   COMP  PIC  S9(4).
2441        02  FKEY12F   PICTURE X.
2442        02  FILLER REDEFINES FKEY12F.
2443           03 FKEY12A    PICTURE X.
2444        02  FILLER   PICTURE X(4).
2445        02  FKEY12I  PIC X(10).
2446     01  CACTUPAO REDEFINES CACTUPAI.
2447        02  FILLER PIC X(12).
2448        02  FILLER PICTURE X(3).
2449        02  TRNNAMEC   PICTURE X.
2450        02  TRNNAMEP   PICTURE X.
2451        02  TRNNAMEH   PICTURE X.
2452        02  TRNNAMEV   PICTURE X.
2453        02  TRNNAMEO  PIC X(4).
2454        02  FILLER PICTURE X(3).
2455        02  TITLE01C   PICTURE X.
2456        02  TITLE01P   PICTURE X.
2457        02  TITLE01H   PICTURE X.
2458        02  TITLE01V   PICTURE X.
2459        02  TITLE01O  PIC X(40).
2460        02  FILLER PICTURE X(3).
2461        02  CURDATEC   PICTURE X.
2462        02  CURDATEP   PICTURE X.
2463        02  CURDATEH   PICTURE X.
2464        02  CURDATEV   PICTURE X.
2465        02  CURDATEO  PIC X(8).
2466        02  FILLER PICTURE X(3).
2467        02  PGMNAMEC   PICTURE X.
2468        02  PGMNAMEP   PICTURE X.
2469        02  PGMNAMEH   PICTURE X.
2470        02  PGMNAMEV   PICTURE X.
2471        02  PGMNAMEO  PIC X(8).
2472        02  FILLER PICTURE X(3).
2473        02  TITLE02C   PICTURE X.
2474        02  TITLE02P   PICTURE X.
2475        02  TITLE02H   PICTURE X.
2476        02  TITLE02V   PICTURE X.
2477        02  TITLE02O  PIC X(40).
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2478              02  FILLER PICTURE X(3).
2479              02  CURTIMEC    PICTURE X.
2480              02  CURTIMEP    PICTURE X.
2481              02  CURTIMEH    PICTURE X.
2482              02  CURTIMEV    PICTURE X.
2483              02  CURTIMEO  PIC X(8).
2484              02  FILLER PICTURE X(3).
2485              02  ACCTSIDC    PICTURE X.
2486              02  ACCTSIDP    PICTURE X.
2487              02  ACCTSIDH    PICTURE X.
2488              02  ACCTSIDV    PICTURE X.
2489              02  ACCTSIDO  PIC X(11).
2490              02  FILLER PICTURE X(3).
2491              02  ACSTTUSC    PICTURE X.
2492              02  ACSTTUSP    PICTURE X.
2493              02  ACSTTUSH    PICTURE X.
2494              02  ACSTTUSV    PICTURE X.
2495              02  ACSTTUSO  PIC X(1).
2496              02  FILLER PICTURE X(3).
2497              02  OPNYEARC    PICTURE X.
2498              02  OPNYEARP    PICTURE X.
2499              02  OPNYEARH    PICTURE X.
2500              02  OPNYEARV    PICTURE X.
2501              02  OPNYEARO  PIC X(4).
2502              02  FILLER PICTURE X(3).
2503              02  OPNMONC    PICTURE X.
2504              02  OPNMONP    PICTURE X.
2505              02  OPNMONH    PICTURE X.
2506              02  OPNMONV    PICTURE X.
2507              02  OPNMONO  PIC X(2).
2508              02  FILLER PICTURE X(3).
2509              02  OPNDAYC    PICTURE X.
2510              02  OPNDAYP    PICTURE X.
2511              02  OPNDAYH    PICTURE X.
2512              02  OPNDAYV    PICTURE X.
2513              02  OPNDAYO  PIC X(2).
2514              02  FILLER PICTURE X(3).
2515              02  ACRDLIMC    PICTURE X.
2516              02  ACRDLIMP    PICTURE X.
2517              02  ACRDLIMH    PICTURE X.
2518              02  ACRDLIMV    PICTURE X.
2519              02  ACRDLIMO  PIC X(15).
2520              02  FILLER PICTURE X(3).
2521              02  EXPYEARC    PICTURE X.
2522              02  EXPYEARP    PICTURE X.
2523              02  EXPYEARH    PICTURE X.
2524              02  EXPYEARV    PICTURE X.
2525              02  EXPYEARO  PIC X(4).
2526              02  FILLER PICTURE X(3).
2527              02  EXPMONC    PICTURE X.
2528              02  EXPMONP    PICTURE X.
2529              02  EXPMONH    PICTURE X.
2530              02  EXPMONV    PICTURE X.
2531              02  EXPMONO  PIC X(2).
2532              02  FILLER PICTURE X(3).
2533              02  EXPDAYC    PICTURE X.
2534              02  EXPDAYP    PICTURE X.
2535              02  EXPDAYH    PICTURE X.
2536              02  EXPDAYV    PICTURE X.
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2537              02  EXPDAYO  PIC X(2).
2538              02  FILLER PICTURE X(3).
2539              02  ACSHLIMC    PICTURE X.
2540              02  ACSHLIMP    PICTURE X.
2541              02  ACSHLIMH    PICTURE X.
2542              02  ACSHLIMV    PICTURE X.
2543              02  ACSHLIMO  PIC X(15).
2544              02  FILLER PICTURE X(3).
2545              02  RISYEARC    PICTURE X.
2546              02  RISYEARP    PICTURE X.
2547              02  RISYEARH    PICTURE X.
2548              02  RISYEARV    PICTURE X.
2549              02  RISYEARO  PIC X(4).
2550              02  FILLER PICTURE X(3).
2551              02  RISMONC    PICTURE X.
2552              02  RISMONP    PICTURE X.
2553              02  RISMONH    PICTURE X.
2554              02  RISMONV    PICTURE X.
2555              02  RISMONO  PIC X(2).
2556              02  FILLER PICTURE X(3).
2557              02  RISDAYC    PICTURE X.
2558              02  RISDAYP    PICTURE X.
2559              02  RISDAYH    PICTURE X.
2560              02  RISDAYV    PICTURE X.
2561              02  RISDAYO  PIC X(2).
2562              02  FILLER PICTURE X(3).
2563              02  ACURBALC    PICTURE X.
2564              02  ACURBALP    PICTURE X.
2565              02  ACURBALH    PICTURE X.
2566              02  ACURBALV    PICTURE X.
2567              02  ACURBALO  PIC X(15).
2568              02  FILLER PICTURE X(3).
2569              02  ACRCYCRC    PICTURE X.
2570              02  ACRCYCRP    PICTURE X.
2571              02  ACRCYCRH    PICTURE X.
2572              02  ACRCYCRV    PICTURE X.
2573              02  ACRCYCRO  PIC X(15).
2574              02  FILLER PICTURE X(3).
2575              02  AADDGRPC    PICTURE X.
2576              02  AADDGRPP    PICTURE X.
2577              02  AADDGRPH    PICTURE X.
2578              02  AADDGRPV    PICTURE X.
2579              02  AADDGRPO  PIC X(10).
2580              02  FILLER PICTURE X(3).
2581              02  ACRCYDBC    PICTURE X.
2582              02  ACRCYDBP    PICTURE X.
2583              02  ACRCYDBH    PICTURE X.
2584              02  ACRCYDBV    PICTURE X.
2585              02  ACRCYDBO  PIC X(15).
2586              02  FILLER PICTURE X(3).
2587              02  ACSTNUMC    PICTURE X.
2588              02  ACSTNUMP    PICTURE X.
2589              02  ACSTNUMH    PICTURE X.
2590              02  ACSTNUMV    PICTURE X.
2591              02  ACSTNUMO  PIC X(9).
2592              02  FILLER PICTURE X(3).
2593              02  ACTSSN1C    PICTURE X.
2594              02  ACTSSN1P    PICTURE X.
2595              02  ACTSSN1H    PICTURE X.
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2596              02   ACTSSN1V    PICTURE X.
2597              02   ACTSSN1O  PIC X(3).
2598              02   FILLER PICTURE X(3).
2599              02   ACTSSN2C    PICTURE X.
2600              02   ACTSSN2P    PICTURE X.
2601              02   ACTSSN2H    PICTURE X.
2602              02   ACTSSN2V    PICTURE X.
2603              02   ACTSSN2O  PIC X(2).
2604              02   FILLER PICTURE X(3).
2605              02   ACTSSN3C    PICTURE X.
2606              02   ACTSSN3P    PICTURE X.
2607              02   ACTSSN3H    PICTURE X.
2608              02   ACTSSN3V    PICTURE X.
2609              02   ACTSSN3O  PIC X(4).
2610              02   FILLER PICTURE X(3).
2611              02   DOBYEARC    PICTURE X.
2612              02   DOBYEARP    PICTURE X.
2613              02   DOBYEARH    PICTURE X.
2614              02   DOBYEARV    PICTURE X.
2615              02   DOBYEARO  PIC X(4).
2616              02   FILLER PICTURE X(3).
2617              02   DOBMONC     PICTURE X.
2618              02   DOBMONP     PICTURE X.
2619              02   DOBMONH     PICTURE X.
2620              02   DOBMONV     PICTURE X.
2621              02   DOBMONO  PIC X(2).
2622              02   FILLER PICTURE X(3).
2623              02   DOBDAYC     PICTURE X.
2624              02   DOBDAYP     PICTURE X.
2625              02   DOBDAYH     PICTURE X.
2626              02   DOBDAYV     PICTURE X.
2627              02   DOBDAYO  PIC X(2).
2628              02   FILLER PICTURE X(3).
2629              02   ACSTFCOC    PICTURE X.
2630              02   ACSTFCOP    PICTURE X.
2631              02   ACSTFCOH    PICTURE X.
2632              02   ACSTFCOV    PICTURE X.
2633              02   ACSTFCOO  PIC X(3).
2634              02   FILLER PICTURE X(3).
2635              02   ACSFNAMC    PICTURE X.
2636              02   ACSFNAMP    PICTURE X.
2637              02   ACSFNAMH    PICTURE X.
2638              02   ACSFNAMV    PICTURE X.
2639              02   ACSFNAMO  PIC X(25).
2640              02   FILLER PICTURE X(3).
2641              02   ACSMNAMC    PICTURE X.
2642              02   ACSMNAMP    PICTURE X.
2643              02   ACSMNAMH    PICTURE X.
2644              02   ACSMNAMV    PICTURE X.
2645              02   ACSMNAMO  PIC X(25).
2646              02   FILLER PICTURE X(3).
2647              02   ACSLNAMC    PICTURE X.
2648              02   ACSLNAMP    PICTURE X.
2649              02   ACSLNAMH    PICTURE X.
2650              02   ACSLNAMV    PICTURE X.
2651              02   ACSLNAMO  PIC X(25).
2652              02   FILLER PICTURE X(3).
2653              02   ACSADL1C    PICTURE X.
2654              02   ACSADL1P    PICTURE X.
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2655              02   ACSADL1H    PICTURE X.
2656              02   ACSADL1V    PICTURE X.
2657              02   ACSADL1O  PIC X(50).
2658              02   FILLER PICTURE X(3).
2659              02   ACSSTTEC    PICTURE X.
2660              02   ACSSTTEP    PICTURE X.
2661              02   ACSSTTEH    PICTURE X.
2662              02   ACSSTTEV    PICTURE X.
2663              02   ACSSTTEO  PIC X(2).
2664              02   FILLER PICTURE X(3).
2665              02   ACSADL2C    PICTURE X.
2666              02   ACSADL2P    PICTURE X.
2667              02   ACSADL2H    PICTURE X.
2668              02   ACSADL2V    PICTURE X.
2669              02   ACSADL2O  PIC X(50).
2670              02   FILLER PICTURE X(3).
2671              02   ACSZIPCC    PICTURE X.
2672              02   ACSZIPCP    PICTURE X.
2673              02   ACSZIPCH    PICTURE X.
2674              02   ACSZIPCV    PICTURE X.
2675              02   ACSZIPCO  PIC X(5).
2676              02   FILLER PICTURE X(3).
2677              02   ACSCITYC    PICTURE X.
2678              02   ACSCITYP    PICTURE X.
2679              02   ACSCITYH    PICTURE X.
2680              02   ACSCITYV    PICTURE X.
2681              02   ACSCITYO  PIC X(50).
2682              02   FILLER PICTURE X(3).
2683              02   ACSCTRYC    PICTURE X.
2684              02   ACSCTRYP    PICTURE X.
2685              02   ACSCTRYH    PICTURE X.
2686              02   ACSCTRYV    PICTURE X.
2687              02   ACSCTRYO  PIC X(3).
2688              02   FILLER PICTURE X(3).
2689              02   ACSPH1AC    PICTURE X.
2690              02   ACSPH1AP    PICTURE X.
2691              02   ACSPH1AH    PICTURE X.
2692              02   ACSPH1AV    PICTURE X.
2693              02   ACSPH1AO  PIC X(3).
2694              02   FILLER PICTURE X(3).
2695              02   ACSPH1BC    PICTURE X.
2696              02   ACSPH1BP    PICTURE X.
2697              02   ACSPH1BH    PICTURE X.
2698              02   ACSPH1BV    PICTURE X.
2699              02   ACSPH1BO  PIC X(3).
2700              02   FILLER PICTURE X(3).
2701              02   ACSPH1CC    PICTURE X.
2702              02   ACSPH1CP    PICTURE X.
2703              02   ACSPH1CH    PICTURE X.
2704              02   ACSPH1CV    PICTURE X.
2705              02   ACSPH1CO  PIC X(4).
2706              02   FILLER PICTURE X(3).
2707              02   ACSGOVTC    PICTURE X.
2708              02   ACSGOVTP    PICTURE X.
2709              02   ACSGOVTH    PICTURE X.
2710              02   ACSGOVTV    PICTURE X.
2711              02   ACSGOVTO  PIC X(20).
2712              02   FILLER PICTURE X(3).
2713              02   ACSPH2AC    PICTURE X.
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2714          02  ACSPH2AP   PICTURE X.
2715          02  ACSPH2AH   PICTURE X.
2716          02  ACSPH2AV   PICTURE X.
2717          02  ACSPH2AO  PIC X(3).
2718          02  FILLER PICTURE X(3).
2719          02  ACSPH2BC   PICTURE X.
2720          02  ACSPH2BP   PICTURE X.
2721          02  ACSPH2BH   PICTURE X.
2722          02  ACSPH2BV   PICTURE X.
2723          02  ACSPH2BO  PIC X(3).
2724          02  FILLER PICTURE X(3).
2725          02  ACSPH2CC   PICTURE X.
2726          02  ACSPH2CP   PICTURE X.
2727          02  ACSPH2CH   PICTURE X.
2728          02  ACSPH2CV   PICTURE X.
2729          02  ACSPH2CO  PIC X(4).
2730          02  FILLER PICTURE X(3).
2731          02  ACSEFTCC   PICTURE X.
2732          02  ACSEFTCP   PICTURE X.
2733          02  ACSEFTCH   PICTURE X.
2734          02  ACSEFTCV   PICTURE X.
2735          02  ACSEFTCO  PIC X(10).
2736          02  FILLER PICTURE X(3).
2737          02  ACSPFLGC   PICTURE X.
2738          02  ACSPFLGP   PICTURE X.
2739          02  ACSPFLGH   PICTURE X.
2740          02  ACSPFLGV   PICTURE X.
2741          02  ACSPFLGO  PIC X(1).
2742          02  FILLER PICTURE X(3).
2743          02  INFOMSGC   PICTURE X.
2744          02  INFOMSGP   PICTURE X.
2745          02  INFOMSGH   PICTURE X.
2746          02  INFOMSGV   PICTURE X.
2747          02  INFOMSGO  PIC X(45).
2748          02  FILLER PICTURE X(3).
2749          02  ERRMSGC   PICTURE X.
2750          02  ERRMSGP   PICTURE X.
2751          02  ERRMSGH   PICTURE X.
2752          02  ERRMSGV   PICTURE X.
2753          02  ERRMSGO  PIC X(78).
2754          02  FILLER PICTURE X(3).
2755          02  FKEYSC   PICTURE X.
2756          02  FKEYSP   PICTURE X.
2757          02  FKEYSH   PICTURE X.
2758          02  FKEYSV   PICTURE X.
2759          02  FKEYSO  PIC X(21).
2760          02  FILLER PICTURE X(3).
2761          02  FKEY05C   PICTURE X.
2762          02  FKEY05P   PICTURE X.
2763          02  FKEY05H   PICTURE X.
2764          02  FKEY05V   PICTURE X.
2765          02  FKEY05O  PIC X(7).
2766          02  FILLER PICTURE X(3).
2767          02  FKEY12C   PICTURE X.
2768          02  FKEY12P   PICTURE X.
2769          02  FKEY12H   PICTURE X.
2770          02  FKEY12V   PICTURE X.
2771          02  FKEY12O  PIC X(10).
2772 B
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```
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2790 C      ****************************************************************
2791          01 WS-DATE-TIME.
2792            05 WS-CURDATE-DATA.
2793              10  WS-CURDATE.
2794                15  WS-CURDATE-YEAR       PIC 9(04).
2795                15  WS-CURDATE-MONTH      PIC 9(02).
2796                15  WS-CURDATE-DAY        PIC 9(02).
2797              10 WS-CURDATE-N REDEFINES WS-CURDATE PIC 9(08).
2798              10  WS-CURTIME.
2799                15  WS-CURTIME-HOURS      PIC 9(02).
2800                15  WS-CURTIME-MINUTE     PIC 9(02).
2801                15  WS-CURTIME-SECOND     PIC 9(02).
2802                15  WS-CURTIME-MILSEC     PIC 9(02).
2803              10 WS-CURTIME-N REDEFINES WS-CURTIME PIC 9(08).
2804            05 WS-CURDATE-MM-DD-YY.
2805              10  WS-CURDATE-MM           PIC 9(02).
2806              10  FILLER                  PIC X(01) VALUE '/'.
2807              10  WS-CURDATE-DD           PIC 9(02).
2808              10  FILLER                  PIC X(01) VALUE '/'.
2809              10  WS-CURDATE-YY           PIC 9(02).
2810            05 WS-CURTIME-HH-MM-SS.
2811              10  WS-CURTIME-HH           PIC 9(02).
2812              10  FILLER                  PIC X(01) VALUE ':'.
2813              10  WS-CURTIME-MM           PIC 9(02).
2814              10  FILLER                  PIC X(01) VALUE ':'.
2815              10  WS-CURTIME-SS           PIC 9(02).
2816            05 WS-TIMESTAMP.
2817              10  WS-TIMESTAMP-DT-YYYY    PIC 9(04).
2818              10  FILLER                  PIC X(01) VALUE '-'.
2819              10  WS-TIMESTAMP-DT-MM      PIC 9(02).
2820              10  FILLER                  PIC X(01) VALUE '-'.
2821              10  WS-TIMESTAMP-DT-DD      PIC 9(02).
2822              10  FILLER                  PIC X(01) VALUE ' '.
2823              10  WS-TIMESTAMP-TM-HH      PIC 9(02).
2824              10  FILLER                  PIC X(01) VALUE ':'.
2825              10  WS-TIMESTAMP-TM-MM      PIC 9(02).
2826              10  FILLER                  PIC X(01) VALUE ':'.
2827              10  WS-TIMESTAMP-TM-SS      PIC 9(02).
2828              10  FILLER                  PIC X(01) VALUE '.'.
2829              10  WS-TIMESTAMP-TM-MS6     PIC 9(06).
2830 C      *
2831 C      * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
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2832 C       *
2833 B
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2835 C       *COPY CSMSG01Y.
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2851 C       ****************************************************************
2852            01 CCDA-COMMON-MESSAGES.
2853              05 CCDA-MSG-THANK-YOU        PIC X(50) VALUE
2854                  'THANK YOU FOR USING CARDDEMO APPLICATION...     '.
2855              05 CCDA-MSG-INVALID-KEY      PIC X(50) VALUE
2856                  'INVALID KEY PRESSED. PLEASE SEE BELOW...        '.
2857 C       *
2858 C       * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
2859 C       *
2860 B
2861 C       *ABEND VARIABLES
2862 C       *COPY CSMSG02Y.
2863 C       ****************************************************************
2864 C       * CABENDD.CPY                                                  *
2865 C       *------------------------------------------------------------*
2866 C       * WORK AREAS FOR ABEND ROUTINE                                *
2867 C       ****************************************************************
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2882 C       ****************************************************************
2883            01  ABEND-DATA.
2884              05  ABEND-CODE                      PIC X(4)
2885                  VALUE SPACES.
2886              05  ABEND-CULPRIT                   PIC X(8)
2887                  VALUE SPACES.
2888              05  ABEND-REASON                    PIC X(50)
2889                  VALUE SPACES.
2890              05  ABEND-MSG                       PIC X(72)
```

```
2891              VALUE SPACES.
2892 B
2893 B
2894 B
2895 C       *
2896 C       * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
2897 C       *
2898 B
2899 C       *SIGNED ON USER DATA
2900 C       *COPY CSUSR01Y.
2901 C       *******************************************************************
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2916 C       *******************************************************************
2917         01 SEC-USER-DATA.
2918           05 SEC-USR-ID                PIC X(08).
2919           05 SEC-USR-FNAME             PIC X(20).
2920           05 SEC-USR-LNAME             PIC X(20).
2921           05 SEC-USR-PWD               PIC X(08).
2922           05 SEC-USR-TYPE              PIC X(01).
2923           05 SEC-USR-FILLER            PIC X(23).
2924 C       *
2925 C       * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:59 CDT
2926 C       *
2927 B
2928 C       *DATASET LAYOUTS
2929 B
2930 C       *ACCT RECORD LAYOUT
2931 C       *COPY CVACT01Y.
2932 C       *******************************************************************
2933 C       *    DATA-STRUCTURE FOR  ACCOUNT ENTITY (RECLN 300)
2934 C       *******************************************************************
2935         01  ACCOUNT-RECORD.
2936           05  ACCT-ID                      PIC 9(11).
2937           05  ACCT-ACTIVE-STATUS           PIC X(01).
2938           05  ACCT-CURR-BAL                PIC S9(10)V99.
2939           05  ACCT-CREDIT-LIMIT            PIC S9(10)V99.
2940           05  ACCT-CASH-CREDIT-LIMIT       PIC S9(10)V99.
2941           05  ACCT-OPEN-DATE               PIC X(10).
2942           05  ACCT-EXPIRAION-DATE          PIC X(10).
2943           05  ACCT-REISSUE-DATE            PIC X(10).
2944           05  ACCT-CURR-CYC-CREDIT         PIC S9(10)V99.
2945           05  ACCT-CURR-CYC-DEBIT          PIC S9(10)V99.
2946           05  ACCT-ADDR-ZIP                PIC X(10).
2947           05  ACCT-GROUP-ID                PIC X(10).
2948           05  FILLER                       PIC X(178).
2949 C       *
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2950 C       * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:59 CDT
2951 C       *
2952 B
2953 C       *CARD XREF LAYOUT
2954 C       *COPY CVACT03Y.
2955 C       ******************************************************************
2956 C       *    DATA-STRUCTURE FOR CARD XREF (RECLN 50)
2957 C       ******************************************************************
2958           01 CARD-XREF-RECORD.
2959              05  XREF-CARD-NUM                      PIC X(16).
2960              05  XREF-CUST-ID                       PIC 9(09).
2961              05  XREF-ACCT-ID                       PIC 9(11).
2962              05  FILLER                             PIC X(14).
2963 C       *
2964 C       * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:16:00 CDT
2965 C       *
2966 B
2967 C       *CUSTOMER LAYOUT
2968 C       *COPY CVCUS01Y.
2969 C       ******************************************************************
2970 C       *    DATA-STRUCTURE FOR CUSTOMER ENTITY (RECLN 500)
2971 C       ******************************************************************
2972           01  CUSTOMER-RECORD.
2973              05  CUST-ID                            PIC 9(09).
2974              05  CUST-FIRST-NAME                    PIC X(25).
2975              05  CUST-MIDDLE-NAME                   PIC X(25).
2976              05  CUST-LAST-NAME                     PIC X(25).
2977              05  CUST-ADDR-LINE-1                   PIC X(50).
2978              05  CUST-ADDR-LINE-2                   PIC X(50).
2979              05  CUST-ADDR-LINE-3                   PIC X(50).
2980              05  CUST-ADDR-STATE-CD                 PIC X(02).
2981              05  CUST-ADDR-COUNTRY-CD               PIC X(03).
2982              05  CUST-ADDR-ZIP                      PIC X(10).
2983              05  CUST-PHONE-NUM-1                   PIC X(15).
2984              05  CUST-PHONE-NUM-2                   PIC X(15).
2985              05  CUST-SSN                           PIC 9(09).
2986              05  CUST-GOVT-ISSUED-ID                PIC X(20).
2987              05  CUST-DOB-YYYY-MM-DD                PIC X(10).
2988              05  CUST-EFT-ACCOUNT-ID                PIC X(10).
2989              05  CUST-PRI-CARD-HOLDER-IND           PIC X(01).
2990              05  CUST-FICO-CREDIT-SCORE             PIC 9(03).
2991              05  FILLER                             PIC X(168).
2992 C       *
2993 C       * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:16:00 CDT
2994 C       *
2995 B
2996 C       ******************************************************************
2997 C       *APPLICATION COMMMAREA COPYBOOK
2998 C       *COPY COCOM01Y.
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3016 C      *****************************************************************
3017          01 CARDDEMO-COMMAREA.
3018            05 CDEMO-GENERAL-INFO.
3019              10 CDEMO-FROM-TRANID            PIC X(04).
3020              10 CDEMO-FROM-PROGRAM           PIC X(08).
3021              10 CDEMO-TO-TRANID             PIC X(04).
3022              10 CDEMO-TO-PROGRAM            PIC X(08).
3023              10 CDEMO-USER-ID              PIC X(08).
3024              10 CDEMO-USER-TYPE            PIC X(01).
3025                88 CDEMO-USRTYP-ADMIN       VALUE 'A'.
3026                88 CDEMO-USRTYP-USER        VALUE 'U'.
3027              10 CDEMO-PGM-CONTEXT          PIC 9(01).
3028                88 CDEMO-PGM-ENTER          VALUE 0.
3029                88 CDEMO-PGM-REENTER        VALUE 1.
3030            05 CDEMO-CUSTOMER-INFO.
3031              10 CDEMO-CUST-ID             PIC 9(09).
3032              10 CDEMO-CUST-FNAME          PIC X(25).
3033              10 CDEMO-CUST-MNAME          PIC X(25).
3034              10 CDEMO-CUST-LNAME          PIC X(25).
3035            05 CDEMO-ACCOUNT-INFO.
3036              10 CDEMO-ACCT-ID             PIC 9(11).
3037              10 CDEMO-ACCT-STATUS         PIC X(01).
3038            05 CDEMO-CARD-INFO.
3039              10 CDEMO-CARD-NUM            PIC 9(16).
3040            05 CDEMO-MORE-INFO.
3041              10  CDEMO-LAST-MAP           PIC X(7).
3042              10  CDEMO-LAST-MAPSET        PIC X(7).
3043 C      *
3044 C      * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:57 CDT
3045 C      *
3046 B
3047          01 WS-THIS-PROGCOMMAREA.
3048            05 ACCT-UPDATE-SCREEN-DATA.
3049              10 ACUP-CHANGE-ACTION                 PIC X(1)
3050                                                    VALUE LOW-VALUES.
3051                88 ACUP-DETAILS-NOT-FETCHED         VALUES
3052                                                    LOW-VALUES,
3053                                                    SPACES.
3054                88 ACUP-SHOW-DETAILS                VALUE 'S'.
3055                88 ACUP-CHANGES-MADE                VALUES 'E', 'N'
3056                                                      , 'C', 'L'
3057                                                      , 'F'.
3058                88 ACUP-CHANGES-NOT-OK              VALUE 'E'.
3059                88 ACUP-CHANGES-OK-NOT-CONFIRMED    VALUE 'N'.
3060                88 ACUP-CHANGES-OKAYED-AND-DONE     VALUE 'C'.
3061                88 ACUP-CHANGES-FAILED              VALUES 'L', 'F'.
3062                88 ACUP-CHANGES-OKAYED-LOCK-ERROR   VALUE 'L'.
3063                88 ACUP-CHANGES-OKAYED-BUT-FAILED   VALUE 'F'.
3064            05 ACUP-OLD-DETAILS.
3065              10 ACUP-OLD-ACCT-DATA.
3066                15  ACUP-OLD-ACCT-ID-X             PIC X(11).
3067                15  ACUP-OLD-ACCT-ID               REDEFINES
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3068                           ACUP-OLD-ACCT-ID-X                  PIC 9(11).
3069               15  ACUP-OLD-ACTIVE-STATUS             PIC X(01).
3070               15  ACUP-OLD-CURR-BAL                  PIC X(12).
3071               15  ACUP-OLD-CURR-BAL-N REDEFINES
3072                   ACUP-OLD-CURR-BAL                  PIC S9(10)V99.
3073               15  ACUP-OLD-CREDIT-LIMIT              PIC X(12).
3074               15  ACUP-OLD-CREDIT-LIMIT-N            REDEFINES
3075                   ACUP-OLD-CREDIT-LIMIT              PIC S9(10)V99.
3076               15  ACUP-OLD-CASH-CREDIT-LIMIT         PIC X(12).
3077               15  ACUP-OLD-CASH-CREDIT-LIMIT-N       REDEFINES
3078                   ACUP-OLD-CASH-CREDIT-LIMIT         PIC S9(10)V99.
3079               15  ACUP-OLD-OPEN-DATE                 PIC X(08).
3080               15  ACUP-OLD-OPEN-DATE-PARTS           REDEFINES
3081                   ACUP-OLD-OPEN-DATE.
3082                   20 ACUP-OLD-OPEN-YEAR              PIC X(4).
3083                   20 ACUP-OLD-OPEN-MON               PIC X(2).
3084                   20 ACUP-OLD-OPEN-DAY               PIC X(2).
3085               15  ACUP-OLD-EXPIRAION-DATE            PIC X(08).
3086               15  ACUP-OLD-EXPIRAION-DATE-PARTS      REDEFINES
3087                   ACUP-OLD-EXPIRAION-DATE.
3088                   20 ACUP-OLD-EXP-YEAR                PIC X(4).
3089                   20 ACUP-OLD-EXP-MON                 PIC X(2).
3090                   20 ACUP-OLD-EXP-DAY                 PIC X(2).
3091               15  ACUP-OLD-REISSUE-DATE              PIC X(08).
3092               15  ACUP-OLD-REISSUE-DATE-PARTS        REDEFINES
3093                   ACUP-OLD-REISSUE-DATE.
3094                   20 ACUP-OLD-REISSUE-YEAR           PIC X(4).
3095                   20 ACUP-OLD-REISSUE-MON            PIC X(2).
3096                   20 ACUP-OLD-REISSUE-DAY            PIC X(2).
3097               15  ACUP-OLD-CURR-CYC-CREDIT           PIC X(12).
3098               15  ACUP-OLD-CURR-CYC-CREDIT-N         REDEFINES
3099                   ACUP-OLD-CURR-CYC-CREDIT           PIC S9(10)V99.
3100               15  ACUP-OLD-CURR-CYC-DEBIT            PIC X(12).
3101               15  ACUP-OLD-CURR-CYC-DEBIT-N          REDEFINES
3102                   ACUP-OLD-CURR-CYC-DEBIT            PIC S9(10)V99.
3103               15  ACUP-OLD-GROUP-ID                  PIC X(10).
3104           10 ACUP-OLD-CUST-DATA.
3105               15  ACUP-OLD-CUST-ID-X                 PIC X(09).
3106               15  ACUP-OLD-CUST-ID                   REDEFINES
3107                   ACUP-OLD-CUST-ID-X                 PIC 9(09).
3108               15  ACUP-OLD-CUST-FIRST-NAME           PIC X(25).
3109               15  ACUP-OLD-CUST-MIDDLE-NAME          PIC X(25).
3110               15  ACUP-OLD-CUST-LAST-NAME            PIC X(25).
3111               15  ACUP-OLD-CUST-ADDR-LINE-1          PIC X(50).
3112               15  ACUP-OLD-CUST-ADDR-LINE-2          PIC X(50).
3113               15  ACUP-OLD-CUST-ADDR-LINE-3          PIC X(50).
3114               15  ACUP-OLD-CUST-ADDR-STATE-CD        PIC X(02).
3115               15  ACUP-OLD-CUST-ADDR-COUNTRY-CD      PIC X(03).
3116               15  ACUP-OLD-CUST-ADDR-ZIP             PIC X(10).
3117               15  ACUP-OLD-CUST-PHONE-NUM-1          PIC X(15).
3118               15  ACUP-OLD-CUST-PHONE-NUM-1-X REDEFINES
3119                   ACUP-OLD-CUST-PHONE-NUM-1.
3120                   20 FILLER                          PIC X(1).
3121                   20 ACUP-OLD-CUST-PHONE-NUM-1A       PIC X(3).
3122                   20 FILLER                          PIC X(1).
3123                   20 ACUP-OLD-CUST-PHONE-NUM-1B       PIC X(3).
3124                   20 FILLER                          PIC X(1).
3125                   20 ACUP-OLD-CUST-PHONE-NUM-1C       PIC X(4).
3126                   20 FILLER                          PIC X(2).
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3127              15  ACUP-OLD-CUST-PHONE-NUM-2          PIC X(15).
3128              15  ACUP-OLD-CUST-PHONE-NUM-2-X REDEFINES
3129                  ACUP-OLD-CUST-PHONE-NUM-2.
3130                  20 FILLER                          PIC X(1).
3131                  20 ACUP-OLD-CUST-PHONE-NUM-2A       PIC X(3).
3132                  20 FILLER                          PIC X(1).
3133                  20 ACUP-OLD-CUST-PHONE-NUM-2B       PIC X(3).
3134                  20 FILLER                          PIC X(1).
3135                  20 ACUP-OLD-CUST-PHONE-NUM-2C       PIC X(4).
3136                  20 FILLER                          PIC X(2).
3137              15  ACUP-OLD-CUST-SSN-X               PIC X(09).
3138              15  ACUP-OLD-CUST-SSN                REDEFINES
3139                  ACUP-OLD-CUST-SSN-X              PIC 9(09).
3140              15  ACUP-OLD-CUST-GOVT-ISSUED-ID      PIC X(20).
3141              15  ACUP-OLD-CUST-DOB-YYYY-MM-DD      PIC X(08).
3142              15  ACUP-OLD-CUST-DOB-PARTS          REDEFINES
3143                  ACUP-OLD-CUST-DOB-YYYY-MM-DD.
3144                  20 ACUP-OLD-CUST-DOB-YEAR          PIC X(4).
3145                  20 ACUP-OLD-CUST-DOB-MON           PIC X(2).
3146                  20 ACUP-OLD-CUST-DOB-DAY           PIC X(2).
3147              15  ACUP-OLD-CUST-EFT-ACCOUNT-ID      PIC X(10).
3148              15  ACUP-OLD-CUST-PRI-HOLDER-IND      PIC X(01).
3149              15  ACUP-OLD-CUST-FICO-SCORE-X        PIC X(03).
3150              15  ACUP-OLD-CUST-FICO-SCORE         REDEFINES
3151                  ACUP-OLD-CUST-FICO-SCORE-X       PIC 9(03).
3152          05 ACUP-NEW-DETAILS.
3153            10 ACUP-NEW-ACCT-DATA.
3154              15  ACUP-NEW-ACCT-ID-X               PIC X(11).
3155              15  ACUP-NEW-ACCT-ID                 REDEFINES
3156                  ACUP-NEW-ACCT-ID-X               PIC 9(11).
3157              15  ACUP-NEW-ACTIVE-STATUS           PIC X(01).
3158              15  ACUP-NEW-CURR-BAL                PIC X(12).
3159              15  ACUP-NEW-CURR-BAL-N              REDEFINES
3160                  ACUP-NEW-CURR-BAL                PIC S9(10)V99.
3161              15  ACUP-NEW-CREDIT-LIMIT            PIC X(12).
3162              15  ACUP-NEW-CREDIT-LIMIT-N          REDEFINES
3163                  ACUP-NEW-CREDIT-LIMIT            PIC S9(10)V99.
3164              15  ACUP-NEW-CASH-CREDIT-LIMIT       PIC X(12).
3165              15  ACUP-NEW-CASH-CREDIT-LIMIT-N     REDEFINES
3166                  ACUP-NEW-CASH-CREDIT-LIMIT       PIC S9(10)V99.
3167              15  ACUP-NEW-OPEN-DATE               PIC X(08).
3168              15  ACUP-NEW-OPEN-DATE-PARTS         REDEFINES
3169                  ACUP-NEW-OPEN-DATE.
3170                  20 ACUP-NEW-OPEN-YEAR            PIC X(4).
3171                  20 ACUP-NEW-OPEN-MON             PIC X(2).
3172                  20 ACUP-NEW-OPEN-DAY             PIC X(2).
3173              15  ACUP-NEW-EXPIRAION-DATE          PIC X(08).
3174              15  ACUP-NEW-EXPIRAION-DATE-PARTS    REDEFINES
3175                  ACUP-NEW-EXPIRAION-DATE.
3176                  20 ACUP-NEW-EXP-YEAR              PIC X(4).
3177                  20 ACUP-NEW-EXP-MON               PIC X(2).
3178                  20 ACUP-NEW-EXP-DAY               PIC X(2).
3179              15  ACUP-NEW-REISSUE-DATE            PIC X(08).
3180              15  ACUP-NEW-REISSUE-DATE-PARTS      REDEFINES
3181                  ACUP-NEW-REISSUE-DATE.
3182                  20 ACUP-NEW-REISSUE-YEAR         PIC X(4).
3183                  20 ACUP-NEW-REISSUE-MON          PIC X(2).
3184                  20 ACUP-NEW-REISSUE-DAY          PIC X(2).
3185              15  ACUP-NEW-CURR-CYC-CREDIT         PIC X(12).
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3186                 15  ACUP-NEW-CURR-CYC-CREDIT-N          REDEFINES
3187                     ACUP-NEW-CURR-CYC-CREDIT            PIC S9(10)V99.
3188                 15  ACUP-NEW-CURR-CYC-DEBIT             PIC X(12).
3189                 15  ACUP-NEW-CURR-CYC-DEBIT-N           REDEFINES
3190                     ACUP-NEW-CURR-CYC-DEBIT             PIC S9(10)V99.
3191                 15  ACUP-NEW-GROUP-ID                   PIC X(10).
3192            10 ACUP-NEW-CUST-DATA.
3193                 15  ACUP-NEW-CUST-ID-X                  PIC X(09).
3194                 15  ACUP-NEW-CUST-ID                    REDEFINES
3195                     ACUP-NEW-CUST-ID-X                  PIC 9(09).
3196                 15  ACUP-NEW-CUST-FIRST-NAME            PIC X(25).
3197                 15  ACUP-NEW-CUST-MIDDLE-NAME           PIC X(25).
3198                 15  ACUP-NEW-CUST-LAST-NAME             PIC X(25).
3199                 15  ACUP-NEW-CUST-ADDR-LINE-1           PIC X(50).
3200                 15  ACUP-NEW-CUST-ADDR-LINE-2           PIC X(50).
3201                 15  ACUP-NEW-CUST-ADDR-LINE-3           PIC X(50).
3202                 15  ACUP-NEW-CUST-ADDR-STATE-CD         PIC X(02).
3203                 15  ACUP-NEW-CUST-ADDR-COUNTRY-CD       PIC X(03).
3204                 15  ACUP-NEW-CUST-ADDR-ZIP              PIC X(10).
3205                 15  ACUP-NEW-CUST-PHONE-NUM-1           PIC X(15).
3206                 15  ACUP-NEW-CUST-PHONE-NUM-1-X REDEFINES
3207                     ACUP-NEW-CUST-PHONE-NUM-1.
3208                     20 FILLER                           PIC X(1).
3209                     20 ACUP-NEW-CUST-PHONE-NUM-1A       PIC X(3).
3210                     20 FILLER                           PIC X(1).
3211                     20 ACUP-NEW-CUST-PHONE-NUM-1B       PIC X(3).
3212                     20 FILLER                           PIC X(1).
3213                     20 ACUP-NEW-CUST-PHONE-NUM-1C       PIC X(4).
3214                     20 FILLER                           PIC X(2).
3215                 15  ACUP-NEW-CUST-PHONE-NUM-2           PIC X(15).
3216                 15  ACUP-NEW-CUST-PHONE-NUM-2-X REDEFINES
3217                     ACUP-NEW-CUST-PHONE-NUM-2.
3218                     20 FILLER                           PIC X(1).
3219                     20 ACUP-NEW-CUST-PHONE-NUM-2A       PIC X(3).
3220                     20 FILLER                           PIC X(1).
3221                     20 ACUP-NEW-CUST-PHONE-NUM-2B       PIC X(3).
3222                     20 FILLER                           PIC X(1).
3223                     20 ACUP-NEW-CUST-PHONE-NUM-2C       PIC X(4).
3224                     20 FILLER                           PIC X(2).
3225                 15  ACUP-NEW-CUST-SSN-X.
3226                     20 ACUP-NEW-CUST-SSN-1              PIC X(03).
3227                     20 ACUP-NEW-CUST-SSN-2              PIC X(02).
3228                     20 ACUP-NEW-CUST-SSN-3              PIC X(04).
3229                 15  ACUP-NEW-CUST-SSN                   REDEFINES
3230                     ACUP-NEW-CUST-SSN-X                 PIC 9(09).
3231                 15  ACUP-NEW-CUST-GOVT-ISSUED-ID        PIC X(20).
3232                 15  ACUP-NEW-CUST-DOB-YYYY-MM-DD        PIC X(08).
3233                 15  ACUP-NEW-CUST-DOB-PARTS             REDEFINES
3234                     ACUP-NEW-CUST-DOB-YYYY-MM-DD.
3235                     20 ACUP-NEW-CUST-DOB-YEAR           PIC X(4).
3236                     20 ACUP-NEW-CUST-DOB-MON            PIC X(2).
3237                     20 ACUP-NEW-CUST-DOB-DAY            PIC X(2).
3238                 15  ACUP-NEW-CUST-EFT-ACCOUNT-ID        PIC X(10).
3239                 15  ACUP-NEW-CUST-PRI-HOLDER-IND        PIC X(01).
3240                 15  ACUP-NEW-CUST-FICO-SCORE-X          PIC X(03).
3241                 15  ACUP-NEW-CUST-FICO-SCORE            REDEFINES
3242                     ACUP-NEW-CUST-FICO-SCORE-X          PIC 9(03).
3243                     88 FICO-RANGE-IS-VALID              VALUES 300
3244                                                        THROUGH 850.
```

```
3245             01  WS-COMMAREA                                PIC X(2000).
3246 B
3247 B
3248          LINKAGE SECTION.
3249          01  DFHCOMMAREA.
3250            05  FILLER                               PIC X(1)
3251               OCCURS 1 TO 32767 TIMES DEPENDING ON EIBCALEN.
3252 B
3253          PROCEDURE DIVISION.
3254          0000-MAIN.
3255 B
3256 B
3257             EXEC CICS HANDLE ABEND
3258                     LABEL(ABEND-ROUTINE)
3259             END-EXEC
3260 B
3261             INITIALIZE CC-WORK-AREA
3262                        WS-MISC-STORAGE
3263                        WS-COMMAREA
3264 C       ****************************************************************
3265 C       * STORE OUR CONTEXT
3266 C       ****************************************************************
3267             MOVE LIT-THISTRANID      TO WS-TRANID
3268 C       ****************************************************************
3269 C       * ENSURE ERROR MESSAGE IS CLEARED                             *
3270 C       ****************************************************************
3271             SET WS-RETURN-MSG-OFF  TO TRUE
3272 C       ****************************************************************
3273 C       * STORE PASSED DATA IF  ANY                     *
3274 C       ****************************************************************
3275             IF EIBCALEN IS EQUAL TO 0
3276                OR (CDEMO-FROM-PROGRAM = LIT-MENUPGM
3277                AND NOT CDEMO-PGM-REENTER)
3278                INITIALIZE CARDDEMO-COMMAREA
3279                           WS-THIS-PROGCOMMAREA
3280                SET CDEMO-PGM-ENTER TO TRUE
3281                SET ACUP-DETAILS-NOT-FETCHED TO TRUE
3282             ELSE
3283                MOVE DFHCOMMAREA (1:LENGTH OF CARDDEMO-COMMAREA)  TO
3284                                 CARDDEMO-COMMAREA
3285                MOVE DFHCOMMAREA(LENGTH OF CARDDEMO-COMMAREA + 1:
3286                                 LENGTH OF WS-THIS-PROGCOMMAREA ) TO
3287                                 WS-THIS-PROGCOMMAREA
3288             END-IF
3289 C       ****************************************************************
3290 C       * REMAP PFKEYS AS NEEDED.
3291 C       * STORE THE MAPPED PF KEY
3292 C       ****************************************************************
3293             PERFORM YYYY-STORE-PFKEY
3294                 THRU YYYY-STORE-PFKEY-EXIT
3295 C       ****************************************************************
3296 C       * CHECK THE AID TO SEE IF ITS VALID AT THIS POINT             *
3297 C       * F3 - EXIT
3298 C       * ENTER SHOW SCREEN AGAIN
3299 C       ****************************************************************
3300             SET PFK-INVALID TO TRUE
3301             IF CCARD-AID-ENTER OR
3302                CCARD-AID-PFK03 OR
3303                (CCARD-AID-PFK05 AND ACUP-CHANGES-OK-NOT-CONFIRMED)
```

```
3304                             OR
3305                 (CCARD-AID-PFK12 AND NOT ACUP-DETAILS-NOT-FETCHED)
3306                 SET PFK-VALID TO TRUE
3307             END-IF
3308 B
3309         IF PFK-INVALID
3310             SET CCARD-AID-ENTER TO TRUE
3311         END-IF
3312 B
3313 C     ******************************************************************
3314 C     * DECIDE WHAT TO DO BASED ON INPUTS RECEIVED
3315 C     ******************************************************************
3316         EVALUATE TRUE
3317 C     ******************************************************************
3318 C     *       USER PRESSES PF03 TO EXIT
3319 C     *  OR   USER IS DONE WITH UPDATE
3320 C     *          XCTL TO CALLING PROGRAM OR MAIN MENU
3321 C     ******************************************************************
3322             WHEN CCARD-AID-PFK03
3323                 SET CCARD-AID-PFK03     TO TRUE
3324 B
3325                 IF CDEMO-FROM-TRANID    EQUAL LOW-VALUES
3326                 OR CDEMO-FROM-TRANID    EQUAL SPACES
3327                    MOVE LIT-MENUTRANID  TO CDEMO-TO-TRANID
3328                 ELSE
3329                    MOVE CDEMO-FROM-TRANID  TO CDEMO-TO-TRANID
3330                 END-IF
3331 B
3332                 IF CDEMO-FROM-PROGRAM   EQUAL LOW-VALUES
3333                 OR CDEMO-FROM-PROGRAM   EQUAL SPACES
3334                    MOVE LIT-MENUPGM     TO CDEMO-TO-PROGRAM
3335                 ELSE
3336                    MOVE CDEMO-FROM-PROGRAM TO CDEMO-TO-PROGRAM
3337                 END-IF
3338 B
3339                 MOVE LIT-THISTRANID    TO CDEMO-FROM-TRANID
3340                 MOVE LIT-THISPGM       TO CDEMO-FROM-PROGRAM
3341 B
3342                 SET  CDEMO-USRTYP-USER  TO TRUE
3343                 SET  CDEMO-PGM-ENTER    TO TRUE
3344                 MOVE LIT-THISMAPSET    TO CDEMO-LAST-MAPSET
3345                 MOVE LIT-THISMAP       TO CDEMO-LAST-MAP
3346 B
3347                 EXEC CICS
3348                     SYNCPOINT
3349                 END-EXEC
3350 C     *
3351                 EXEC CICS XCTL
3352                     PROGRAM (CDEMO-TO-PROGRAM)
3353                     COMMAREA(CARDDEMO-COMMAREA)
3354                 END-EXEC
3355 C     ******************************************************************
3356 C     *       FRESH ENTRY INTO PROGRAM
3357 C     *          ASK THE USER FOR THE KEYS TO FETCH CARD TO BE UPDATED
3358 C     ******************************************************************
3359             WHEN ACUP-DETAILS-NOT-FETCHED
3360              AND CDEMO-PGM-ENTER
3361             WHEN CDEMO-FROM-PROGRAM    EQUAL LIT-MENUPGM
3362              AND NOT CDEMO-PGM-REENTER
```

```
3363                    INITIALIZE WS-THIS-PROGCOMMAREA
3364                    PERFORM 3000-SEND-MAP THRU
3365                        3000-SEND-MAP-EXIT
3366                    SET CDEMO-PGM-REENTER        TO TRUE
3367                    SET ACUP-DETAILS-NOT-FETCHED TO TRUE
3368                    GO TO COMMON-RETURN
3369 C       ****************************************************************
3370 C       *      ACCT DATA CHANGES REVIEWED, OKAYED AND DONE SUCESSFULLY
3371 C       *         RESET THE SEARCH KEYS
3372 C       *         ASK THE USER FOR FRESH SEARCH CRITERIA
3373 C       ****************************************************************
3374              WHEN ACUP-CHANGES-OKAYED-AND-DONE
3375              WHEN ACUP-CHANGES-FAILED
3376                    INITIALIZE WS-THIS-PROGCOMMAREA
3377                             WS-MISC-STORAGE
3378                             CDEMO-ACCT-ID
3379                    SET CDEMO-PGM-ENTER           TO TRUE
3380                    PERFORM 3000-SEND-MAP THRU
3381                        3000-SEND-MAP-EXIT
3382                    SET CDEMO-PGM-REENTER         TO TRUE
3383                    SET ACUP-DETAILS-NOT-FETCHED  TO TRUE
3384                    GO TO COMMON-RETURN
3385 C       ****************************************************************
3386 C       *      ACCT DATA HAS BEEN PRESENTED TO USER
3387 C       *         CHECK THE USER INPUTS
3388 C       *         DECIDE WHAT TO DO
3389 C       *         PRESENT NEXT STEPS TO USER
3390 C       ****************************************************************
3391              WHEN OTHER
3392                    PERFORM 1000-PROCESS-INPUTS
3393                        THRU 1000-PROCESS-INPUTS-EXIT
3394                    PERFORM 2000-DECIDE-ACTION
3395                        THRU 2000-DECIDE-ACTION-EXIT
3396                    PERFORM 3000-SEND-MAP
3397                        THRU 3000-SEND-MAP-EXIT
3398                    GO TO COMMON-RETURN
3399          END-EVALUATE
3400          .
3401 B
3402       COMMON-RETURN.
3403          MOVE WS-RETURN-MSG     TO CCARD-ERROR-MSG
3404 B
3405          MOVE  CARDDEMO-COMMAREA    TO WS-COMMAREA
3406          MOVE  WS-THIS-PROGCOMMAREA TO
3407                WS-COMMAREA(LENGTH OF CARDDEMO-COMMAREA + 1:
3408                            LENGTH OF WS-THIS-PROGCOMMAREA )
3409 B
3410          EXEC CICS RETURN
3411              TRANSID (LIT-THISTRANID)
3412              COMMAREA (WS-COMMAREA)
3413              LENGTH(LENGTH OF WS-COMMAREA)
3414          END-EXEC
3415          .
3416       0000-MAIN-EXIT.
3417          EXIT
3418          .
3419 B
3420       1000-PROCESS-INPUTS.
3421          PERFORM 1100-RECEIVE-MAP
```

```
3422                   THRU 1100-RECEIVE-MAP-EXIT
3423              PERFORM 1200-EDIT-MAP-INPUTS
3424                   THRU 1200-EDIT-MAP-INPUTS-EXIT
3425             MOVE WS-RETURN-MSG  TO CCARD-ERROR-MSG
3426             MOVE LIT-THISPGM    TO CCARD-NEXT-PROG
3427             MOVE LIT-THISMAPSET TO CCARD-NEXT-MAPSET
3428             MOVE LIT-THISMAP    TO CCARD-NEXT-MAP
3429                .
3430 C      *
3431       1000-PROCESS-INPUTS-EXIT.
3432          EXIT
3433             .
3434       1100-RECEIVE-MAP.
3435          EXEC CICS RECEIVE MAP(LIT-THISMAP)
3436                    MAPSET(LIT-THISMAPSET)
3437                    INTO(CACTUPAI)
3438                    RESP(WS-RESP-CD)
3439                    RESP2(WS-REAS-CD)
3440          END-EXEC
3441 C      *
3442             INITIALIZE ACUP-NEW-DETAILS
3443 C      ********************************************************************
3444 C      *    ACCOUNT MASTER DATA
3445 C      ********************************************************************
3446          IF  ACCTSIDI OF CACTUPAI = '*'
3447          OR  ACCTSIDI OF CACTUPAI = SPACES
3448             MOVE LOW-VALUES            TO CC-ACCT-ID
3449                                           ACUP-NEW-ACCT-ID-X
3450          ELSE
3451             MOVE ACCTSIDI OF CACTUPAI TO CC-ACCT-ID
3452                                           ACUP-NEW-ACCT-ID-X
3453          END-IF
3454 B
3455          IF ACUP-DETAILS-NOT-FETCHED
3456             GO TO 1100-RECEIVE-MAP-EXIT
3457          END-IF
3458 B
3459 C      * ACTIVE STATUS
3460          IF  ACSTTUSI OF CACTUPAI = '*'
3461          OR  ACSTTUSI OF CACTUPAI = SPACES
3462             MOVE LOW-VALUES            TO ACUP-NEW-ACTIVE-STATUS
3463          ELSE
3464             MOVE ACSTTUSI OF CACTUPAI TO ACUP-NEW-ACTIVE-STATUS
3465          END-IF
3466 B
3467 C      * CREDIT LIMIT
3468          IF  ACRDLIMI OF CACTUPAI = '*'
3469          OR  ACRDLIMI OF CACTUPAI = SPACES
3470             MOVE LOW-VALUES            TO ACUP-NEW-CREDIT-LIMIT-X
3471          ELSE
3472             MOVE ACRDLIMI OF CACTUPAI TO ACUP-NEW-CREDIT-LIMIT-X
3473             IF FUNCTION TEST-NUMVAL-C(ACUP-NEW-CREDIT-LIMIT-X) = 0
3474                COMPUTE ACUP-NEW-CREDIT-LIMIT-N =
3475                    FUNCTION NUMVAL-C(ACRDLIMI OF CACTUPAI)
3476             ELSE
3477                CONTINUE
3478             END-IF
3479          END-IF
3480 B
```

```
3481 C      * CASH LIMIT
3482            IF  ACSHLIMI OF CACTUPAI = '*'
3483            OR  ACSHLIMI OF CACTUPAI = SPACES
3484              MOVE LOW-VALUES          TO ACUP-NEW-CASH-CREDIT-LIMIT-X
3485            ELSE
3486              MOVE ACSHLIMI OF CACTUPAI TO ACUP-NEW-CASH-CREDIT-LIMIT-X
3487              IF FUNCTION TEST-NUMVAL-C(ACUP-NEW-CASH-CREDIT-LIMIT-X) = 0
3488                COMPUTE ACUP-NEW-CASH-CREDIT-LIMIT-N =
3489                     FUNCTION NUMVAL-C(ACSHLIMI OF CACTUPAI)
3490              ELSE
3491                 CONTINUE
3492              END-IF
3493            END-IF
3494 B
3495 C      * CURRENT BALANCE
3496            IF  ACURBALI OF CACTUPAI = '*'
3497            OR  ACURBALI OF CACTUPAI = SPACES
3498              MOVE LOW-VALUES          TO ACUP-NEW-CURR-BAL-X
3499            ELSE
3500              MOVE ACURBALI OF CACTUPAI TO ACUP-NEW-CURR-BAL-X
3501              IF  FUNCTION TEST-NUMVAL-C(ACUP-NEW-CURR-BAL-X) = 0
3502                COMPUTE ACUP-NEW-CURR-BAL-N =
3503                   FUNCTION NUMVAL-C(ACUP-NEW-CURR-BAL-X)
3504              ELSE
3505                 CONTINUE
3506              END-IF
3507            END-IF
3508 B
3509 C      *CURRENT CYCLE CREDIT
3510            IF  ACRCYCRI OF CACTUPAI = '*'
3511            OR  ACRCYCRI OF CACTUPAI = SPACES
3512              MOVE LOW-VALUES          TO ACUP-NEW-CURR-CYC-CREDIT-X
3513            ELSE
3514              MOVE ACRCYCRI OF CACTUPAI TO ACUP-NEW-CURR-CYC-CREDIT-X
3515              IF FUNCTION TEST-NUMVAL-C(ACUP-NEW-CURR-CYC-CREDIT-X) = 0
3516                COMPUTE ACUP-NEW-CURR-CYC-CREDIT-N =
3517                   FUNCTION NUMVAL-C(ACRCYCRI OF CACTUPAI)
3518              ELSE
3519                 CONTINUE
3520              END-IF
3521            END-IF
3522 B
3523 C      *CURRENT CYCLE DEBIT
3524            IF  ACRCYDBI OF CACTUPAI = '*'
3525            OR  ACRCYDBI OF CACTUPAI = SPACES
3526              MOVE LOW-VALUES          TO ACUP-NEW-CURR-CYC-DEBIT-X
3527            ELSE
3528              MOVE ACRCYDBI OF CACTUPAI TO ACUP-NEW-CURR-CYC-DEBIT-X
3529              IF  FUNCTION TEST-NUMVAL-C(ACUP-NEW-CURR-CYC-DEBIT-X) = 0
3530                COMPUTE ACUP-NEW-CURR-CYC-DEBIT-N =
3531                   FUNCTION NUMVAL-C(ACRCYDBI OF CACTUPAI)
3532              ELSE
3533                 CONTINUE
3534              END-IF
3535            END-IF
3536 B
3537 C      *OPEN DATE
3538 C      *
3539            IF  OPNYEARI OF CACTUPAI = '*'
```

```
3540                OR  OPNYEARI OF CACTUPAI = SPACES
3541                    MOVE LOW-VALUES          TO ACUP-NEW-OPEN-YEAR
3542                ELSE
3543                    MOVE OPNYEARI OF CACTUPAI TO ACUP-NEW-OPEN-YEAR
3544                END-IF
3545 B
3546                IF  OPNMONI OF CACTUPAI = '*'
3547                OR  OPNMONI OF CACTUPAI = SPACES
3548                    MOVE LOW-VALUES          TO ACUP-NEW-OPEN-MON
3549                ELSE
3550                    MOVE OPNMONI OF CACTUPAI TO  ACUP-NEW-OPEN-MON
3551                END-IF
3552 B
3553                IF  OPNDAYI OF CACTUPAI = '*'
3554                OR  OPNDAYI OF CACTUPAI = SPACES
3555                    MOVE LOW-VALUES          TO ACUP-NEW-OPEN-DAY
3556                ELSE
3557                    MOVE OPNDAYI OF CACTUPAI TO  ACUP-NEW-OPEN-DAY
3558                END-IF
3559 B
3560 C      *EXPIRY DATE
3561 C      *
3562                IF  EXPYEARI OF CACTUPAI = '*'
3563                OR  EXPYEARI OF CACTUPAI = SPACES
3564                    MOVE LOW-VALUES          TO ACUP-NEW-EXP-YEAR
3565                ELSE
3566                    MOVE EXPYEARI OF CACTUPAI TO ACUP-NEW-EXP-YEAR
3567                END-IF
3568 B
3569                IF  EXPMONI OF CACTUPAI = '*'
3570                OR  EXPMONI OF CACTUPAI = SPACES
3571                    MOVE LOW-VALUES          TO ACUP-NEW-EXP-MON
3572                ELSE
3573                    MOVE EXPMONI OF CACTUPAI TO  ACUP-NEW-EXP-MON
3574                END-IF
3575 B
3576                IF  EXPDAYI OF CACTUPAI = '*'
3577                OR  EXPDAYI OF CACTUPAI = SPACES
3578                    MOVE LOW-VALUES          TO ACUP-NEW-EXP-DAY
3579                ELSE
3580                    MOVE EXPDAYI OF CACTUPAI TO  ACUP-NEW-EXP-DAY
3581                END-IF
3582 B
3583 C      *REISSUE DATE
3584 C      *
3585                IF  RISYEARI OF CACTUPAI = '*'
3586                OR  RISYEARI OF CACTUPAI = SPACES
3587                    MOVE LOW-VALUES          TO ACUP-NEW-REISSUE-YEAR
3588                ELSE
3589                    MOVE RISYEARI OF CACTUPAI TO ACUP-NEW-REISSUE-YEAR
3590                END-IF
3591 B
3592                IF  RISMONI OF CACTUPAI = '*'
3593                OR  RISMONI OF CACTUPAI = SPACES
3594                    MOVE LOW-VALUES          TO ACUP-NEW-REISSUE-MON
3595                ELSE
3596                    MOVE RISMONI OF CACTUPAI TO  ACUP-NEW-REISSUE-MON
3597                END-IF
3598 B
```

```
3599              IF  RISDAYI OF CACTUPAI = '*'
3600              OR  RISDAYI OF CACTUPAI = SPACES
3601                  MOVE LOW-VALUES          TO ACUP-NEW-REISSUE-DAY
3602              ELSE
3603                  MOVE RISDAYI OF CACTUPAI TO  ACUP-NEW-REISSUE-DAY
3604              END-IF
3605 B
3606 C      *ACCOUNT GROUP
3607 C      *
3608              IF  AADDGRPI OF CACTUPAI = '*'
3609              OR  AADDGRPI OF CACTUPAI = SPACES
3610                  MOVE LOW-VALUES          TO ACUP-NEW-GROUP-ID
3611              ELSE
3612                  MOVE AADDGRPI OF CACTUPAI TO ACUP-NEW-GROUP-ID
3613              END-IF
3614 C      *****************************************************************
3615 C      *    CUSTOMER MASTER DATA
3616 C      *****************************************************************
3617 C      *CUSTOMER ID (ACTUALLY NOT EDITABLE)
3618 C      *
3619              IF  ACSTNUMI OF CACTUPAI = '*'
3620              OR  ACSTNUMI OF CACTUPAI = SPACES
3621                  MOVE LOW-VALUES          TO ACUP-NEW-CUST-ID-X
3622              ELSE
3623                  MOVE ACSTNUMI OF CACTUPAI TO ACUP-NEW-CUST-ID-X
3624              END-IF
3625 B
3626 C      *SOCIAL SECURITY NUMBER
3627 C      *
3628              IF  ACTSSN1I OF CACTUPAI = '*'
3629              OR  ACTSSN1I OF CACTUPAI = SPACES
3630                  MOVE LOW-VALUES          TO ACUP-NEW-CUST-SSN-1
3631              ELSE
3632                  MOVE ACTSSN1I OF CACTUPAI TO ACUP-NEW-CUST-SSN-1
3633              END-IF
3634 B
3635              IF  ACTSSN2I OF CACTUPAI = '*'
3636              OR  ACTSSN2I OF CACTUPAI = SPACES
3637                  MOVE LOW-VALUES          TO ACUP-NEW-CUST-SSN-2
3638              ELSE
3639                  MOVE ACTSSN2I OF CACTUPAI TO ACUP-NEW-CUST-SSN-2
3640              END-IF
3641 B
3642              IF  ACTSSN3I OF CACTUPAI = '*'
3643              OR  ACTSSN3I OF CACTUPAI = SPACES
3644                  MOVE LOW-VALUES          TO ACUP-NEW-CUST-SSN-3
3645              ELSE
3646                  MOVE ACTSSN3I OF CACTUPAI TO ACUP-NEW-CUST-SSN-3
3647              END-IF
3648 C      *
3649 C      *DATE OF BIRTH
3650 C      *
3651              IF  DOBYEARI OF CACTUPAI = '*'
3652              OR  DOBYEARI OF CACTUPAI = SPACES
3653                  MOVE LOW-VALUES          TO ACUP-NEW-CUST-DOB-YEAR
3654              ELSE
3655                  MOVE DOBYEARI OF CACTUPAI TO ACUP-NEW-CUST-DOB-YEAR
3656              END-IF
3657 B
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3658              IF  DOBMONI OF CACTUPAI = '*'
3659              OR  DOBMONI OF CACTUPAI = SPACES
3660                  MOVE LOW-VALUES          TO ACUP-NEW-CUST-DOB-MON
3661              ELSE
3662                  MOVE DOBMONI OF CACTUPAI  TO ACUP-NEW-CUST-DOB-MON
3663              END-IF
3664 B
3665              IF  DOBDAYI OF CACTUPAI = '*'
3666              OR  DOBDAYI OF CACTUPAI = SPACES
3667                  MOVE LOW-VALUES          TO ACUP-NEW-CUST-DOB-DAY
3668              ELSE
3669                  MOVE DOBDAYI OF CACTUPAI  TO ACUP-NEW-CUST-DOB-DAY
3670              END-IF
3671 C       *
3672 C       *FICO
3673 C       *
3674              IF  ACSTFCOI OF CACTUPAI = '*'
3675              OR  ACSTFCOI OF CACTUPAI = SPACES
3676                  MOVE LOW-VALUES          TO ACUP-NEW-CUST-FICO-SCORE-X
3677              ELSE
3678                  MOVE ACSTFCOI OF CACTUPAI TO ACUP-NEW-CUST-FICO-SCORE-X
3679              END-IF
3680 C       *
3681 C       *FIRST NAME
3682 C       *
3683              IF  ACSFNAMI OF CACTUPAI = '*'
3684              OR  ACSFNAMI OF CACTUPAI = SPACES
3685                  MOVE LOW-VALUES          TO ACUP-NEW-CUST-FIRST-NAME
3686              ELSE
3687                  MOVE ACSFNAMI OF CACTUPAI TO ACUP-NEW-CUST-FIRST-NAME
3688              END-IF
3689 C       *
3690 C       *MIDDLE NAME
3691 C       *
3692              IF  ACSMNAMI OF CACTUPAI = '*'
3693              OR  ACSMNAMI OF CACTUPAI = SPACES
3694                  MOVE LOW-VALUES          TO ACUP-NEW-CUST-MIDDLE-NAME
3695              ELSE
3696                  MOVE ACSMNAMI OF CACTUPAI TO ACUP-NEW-CUST-MIDDLE-NAME
3697              END-IF
3698 C       *
3699 C       *LAST NAME
3700 C       *
3701              IF  ACSLNAMI OF CACTUPAI = '*'
3702              OR  ACSLNAMI OF CACTUPAI = SPACES
3703                  MOVE LOW-VALUES          TO ACUP-NEW-CUST-LAST-NAME
3704              ELSE
3705                  MOVE ACSLNAMI OF CACTUPAI TO ACUP-NEW-CUST-LAST-NAME
3706              END-IF
3707 C       *
3708 C       *ADDRESS
3709 C       *
3710              IF  ACSADL1I OF CACTUPAI = '*'
3711              OR  ACSADL1I OF CACTUPAI = SPACES
3712                  MOVE LOW-VALUES          TO ACUP-NEW-CUST-ADDR-LINE-1
3713              ELSE
3714                  MOVE ACSADL1I OF CACTUPAI TO ACUP-NEW-CUST-ADDR-LINE-1
3715              END-IF
3716 B
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3717                IF  ACSADL2I OF CACTUPAI = '*'
3718                OR  ACSADL2I OF CACTUPAI = SPACES
3719                    MOVE LOW-VALUES          TO ACUP-NEW-CUST-ADDR-LINE-2
3720                ELSE
3721                    MOVE ACSADL2I OF CACTUPAI TO ACUP-NEW-CUST-ADDR-LINE-2
3722                END-IF
3723 B
3724                IF  ACSCITYI OF CACTUPAI = '*'
3725                OR  ACSCITYI OF CACTUPAI = SPACES
3726                    MOVE LOW-VALUES          TO ACUP-NEW-CUST-ADDR-LINE-3
3727                ELSE
3728                    MOVE ACSCITYI OF CACTUPAI TO ACUP-NEW-CUST-ADDR-LINE-3
3729                END-IF
3730 B
3731                IF  ACSSTTEI OF CACTUPAI = '*'
3732                OR  ACSSTTEI OF CACTUPAI = SPACES
3733                    MOVE LOW-VALUES          TO ACUP-NEW-CUST-ADDR-STATE-CD
3734                ELSE
3735                    MOVE ACSSTTEI OF CACTUPAI TO ACUP-NEW-CUST-ADDR-STATE-CD
3736                END-IF
3737 B
3738                IF  ACSCTRYI OF CACTUPAI = '*'
3739                OR  ACSCTRYI OF CACTUPAI = SPACES
3740                 MOVE LOW-VALUES          TO ACUP-NEW-CUST-ADDR-COUNTRY-CD
3741                ELSE
3742                 MOVE ACSCTRYI OF CACTUPAI TO ACUP-NEW-CUST-ADDR-COUNTRY-CD
3743                END-IF
3744 B
3745                IF  ACSZIPCI OF CACTUPAI = '*'
3746                OR  ACSZIPCI OF CACTUPAI = SPACES
3747                    MOVE LOW-VALUES          TO ACUP-NEW-CUST-ADDR-ZIP
3748                ELSE
3749                    MOVE ACSZIPCI OF CACTUPAI TO ACUP-NEW-CUST-ADDR-ZIP
3750                END-IF
3751 B
3752                IF  ACSPH1AI OF CACTUPAI = '*'
3753                OR  ACSPH1AI OF CACTUPAI = SPACES
3754                    MOVE LOW-VALUES          TO ACUP-NEW-CUST-PHONE-NUM-1A
3755                ELSE
3756                    MOVE ACSPH1AI OF CACTUPAI TO ACUP-NEW-CUST-PHONE-NUM-1A
3757                END-IF
3758 B
3759                IF  ACSPH1BI OF CACTUPAI = '*'
3760                OR  ACSPH1BI OF CACTUPAI = SPACES
3761                    MOVE LOW-VALUES          TO ACUP-NEW-CUST-PHONE-NUM-1B
3762                ELSE
3763                    MOVE ACSPH1BI OF CACTUPAI TO ACUP-NEW-CUST-PHONE-NUM-1B
3764                END-IF
3765 B
3766                IF  ACSPH1CI OF CACTUPAI = '*'
3767                OR  ACSPH1CI OF CACTUPAI = SPACES
3768                    MOVE LOW-VALUES          TO ACUP-NEW-CUST-PHONE-NUM-1C
3769                ELSE
3770                    MOVE ACSPH1CI OF CACTUPAI TO ACUP-NEW-CUST-PHONE-NUM-1C
3771                END-IF
3772 B
3773                IF  ACSPH2AI OF CACTUPAI = '*'
3774                OR  ACSPH2AI OF CACTUPAI = SPACES
3775                    MOVE LOW-VALUES          TO ACUP-NEW-CUST-PHONE-NUM-2A
```

```
3776                ELSE
3777                    MOVE ACSPH2AI OF CACTUPAI TO ACUP-NEW-CUST-PHONE-NUM-2A
3778                END-IF
3779 B
3780                IF  ACSPH2BI OF CACTUPAI = '*'
3781                OR  ACSPH2BI OF CACTUPAI = SPACES
3782                    MOVE LOW-VALUES           TO ACUP-NEW-CUST-PHONE-NUM-2B
3783                ELSE
3784                    MOVE ACSPH2BI OF CACTUPAI TO ACUP-NEW-CUST-PHONE-NUM-2B
3785                END-IF
3786 B
3787                IF  ACSPH2CI OF CACTUPAI = '*'
3788                OR  ACSPH2CI OF CACTUPAI = SPACES
3789                    MOVE LOW-VALUES           TO ACUP-NEW-CUST-PHONE-NUM-2C
3790                ELSE
3791                    MOVE ACSPH2CI OF CACTUPAI TO ACUP-NEW-CUST-PHONE-NUM-2C
3792                END-IF
3793 C      *
3794 C      *GOVERNMENT ID
3795 C      *
3796                IF  ACSGOVTI OF CACTUPAI = '*'
3797                OR  ACSGOVTI OF CACTUPAI = SPACES
3798                    MOVE LOW-VALUES           TO ACUP-NEW-CUST-GOVT-ISSUED-ID
3799                ELSE
3800                    MOVE ACSGOVTI OF CACTUPAI TO ACUP-NEW-CUST-GOVT-ISSUED-ID
3801                END-IF
3802 C      *
3803 C      *EFT CODE
3804 C      *
3805                IF  ACSEFTCI OF CACTUPAI = '*'
3806                OR  ACSEFTCI OF CACTUPAI = SPACES
3807                    MOVE LOW-VALUES           TO ACUP-NEW-CUST-EFT-ACCOUNT-ID
3808                ELSE
3809                    MOVE ACSEFTCI OF CACTUPAI TO ACUP-NEW-CUST-EFT-ACCOUNT-ID
3810                END-IF
3811 C      *
3812 C      *PRIMARY HOLDER INDICATOR
3813 C      *
3814                IF  ACSPFLGI OF CACTUPAI = '*'
3815                OR  ACSPFLGI OF CACTUPAI = SPACES
3816                    MOVE LOW-VALUES           TO ACUP-NEW-CUST-PRI-HOLDER-IND
3817                ELSE
3818                    MOVE ACSPFLGI OF CACTUPAI  TO ACUP-NEW-CUST-PRI-HOLDER-IND
3819                END-IF
3820                .
3821            1100-RECEIVE-MAP-EXIT.
3822                EXIT
3823                .
3824            1200-EDIT-MAP-INPUTS.
3825 B
3826                SET INPUT-OK                 TO TRUE
3827 B
3828                IF  ACUP-DETAILS-NOT-FETCHED
3829 C      *        VALIDATE THE SEARCH KEYS
3830                    PERFORM 1210-EDIT-ACCOUNT
3831                        THRU 1210-EDIT-ACCOUNT-EXIT
3832 B
3833                    MOVE LOW-VALUES           TO ACUP-OLD-ACCT-DATA
3834 B
```

```
3835 C       *        IF THE SEARCH CONDITIONS HAVE PROBLEMS FLAG THEM
3836                  IF  FLG-ACCTFILTER-BLANK
3837                      SET NO-SEARCH-CRITERIA-RECEIVED TO TRUE
3838                  END-IF
3839 B
3840 C       *        AT THIS STAGE. NO DETAILS FETCHED. NOTHING MORE TO EDIT.
3841                      GO TO 1200-EDIT-MAP-INPUTS-EXIT
3842                  ELSE
3843                      CONTINUE
3844                  END-IF
3845 C       *
3846 C       *        SEARCH KEYS ALREADY VALIDATED AND DATA FETCHED
3847              SET FOUND-ACCOUNT-DATA        TO TRUE
3848              SET FOUND-ACCT-IN-MASTER      TO TRUE
3849              SET FLG-ACCTFILTER-ISVALID    TO TRUE
3850 B
3851              SET FOUND-CUST-IN-MASTER      TO TRUE
3852              SET FLG-CUSTFILTER-ISVALID    TO TRUE
3853 B
3854 C       *
3855              PERFORM 1205-COMPARE-OLD-NEW
3856                  THRU 1205-COMPARE-OLD-NEW-EXIT
3857 B
3858              IF  NO-CHANGES-FOUND
3859              OR  ACUP-CHANGES-OK-NOT-CONFIRMED
3860              OR  ACUP-CHANGES-OKAYED-AND-DONE
3861                  MOVE LOW-VALUES            TO WS-NON-KEY-FLAGS
3862                  GO TO 1200-EDIT-MAP-INPUTS-EXIT
3863              END-IF
3864 B
3865              SET ACUP-CHANGES-NOT-OK       TO TRUE
3866 B
3867              MOVE 'ACCOUNT STATUS'         TO WS-EDIT-VARIABLE-NAME
3868              MOVE ACUP-NEW-ACTIVE-STATUS   TO WS-EDIT-YES-NO
3869              PERFORM 1220-EDIT-YESNO
3870                  THRU 1220-EDIT-YESNO-EXIT
3871              MOVE WS-EDIT-YES-NO           TO WS-EDIT-ACCT-STATUS
3872 B
3873              MOVE 'OPEN DATE'              TO WS-EDIT-VARIABLE-NAME
3874              MOVE ACUP-NEW-OPEN-DATE       TO WS-EDIT-DATE-CCYYMMDD
3875              PERFORM EDIT-DATE-CCYYMMDD
3876                  THRU EDIT-DATE-CCYYMMDD-EXIT
3877              MOVE WS-EDIT-DATE-FLGS        TO WS-EDIT-OPEN-DATE-FLGS
3878 B
3879              MOVE 'CREDIT LIMIT'           TO WS-EDIT-VARIABLE-NAME
3880              MOVE ACUP-NEW-CREDIT-LIMIT-X  TO WS-EDIT-SIGNED-NUMBER-9V2-X
3881              PERFORM 1250-EDIT-SIGNED-9V2
3882                  THRU 1250-EDIT-SIGNED-9V2-EXIT
3883              MOVE WS-FLG-SIGNED-NUMBER-EDIT  TO WS-EDIT-CREDIT-LIMIT
3884 B
3885              MOVE 'EXPIRY DATE'            TO WS-EDIT-VARIABLE-NAME
3886              MOVE ACUP-NEW-EXPIRAION-DATE  TO WS-EDIT-DATE-CCYYMMDD
3887              PERFORM EDIT-DATE-CCYYMMDD
3888                  THRU EDIT-DATE-CCYYMMDD-EXIT
3889              MOVE WS-EDIT-DATE-FLGS        TO WS-EXPIRY-DATE-FLGS
3890 B
3891              MOVE 'CASH CREDIT LIMIT'      TO WS-EDIT-VARIABLE-NAME
3892              MOVE ACUP-NEW-CASH-CREDIT-LIMIT-X
3893                                            TO WS-EDIT-SIGNED-NUMBER-9V2-X
```

```
3894                 PERFORM 1250-EDIT-SIGNED-9V2
3895                     THRU 1250-EDIT-SIGNED-9V2-EXIT
3896                 MOVE WS-FLG-SIGNED-NUMBER-EDIT TO WS-EDIT-CASH-CREDIT-LIMIT
3897 B
3898                 MOVE 'REISSUE DATE'            TO WS-EDIT-VARIABLE-NAME
3899                 MOVE ACUP-NEW-REISSUE-DATE     TO WS-EDIT-DATE-CCYYMMDD
3900                 PERFORM EDIT-DATE-CCYYMMDD
3901                     THRU EDIT-DATE-CCYYMMDD-EXIT
3902                 MOVE WS-EDIT-DATE-FLGS         TO WS-EDIT-REISSUE-DATE-FLGS
3903 B
3904                 MOVE 'CURRENT BALANCE'         TO WS-EDIT-VARIABLE-NAME
3905                 MOVE ACUP-NEW-CURR-BAL-X       TO WS-EDIT-SIGNED-NUMBER-9V2-X
3906                 PERFORM 1250-EDIT-SIGNED-9V2
3907                     THRU 1250-EDIT-SIGNED-9V2-EXIT
3908                 MOVE WS-FLG-SIGNED-NUMBER-EDIT  TO WS-EDIT-CURR-BAL
3909 B
3910                 MOVE 'CURRENT CYCLE CREDIT LIMIT' TO WS-EDIT-VARIABLE-NAME
3911                 MOVE ACUP-NEW-CURR-CYC-CREDIT-X
3912                                                TO WS-EDIT-SIGNED-NUMBER-9V2-X
3913                 PERFORM 1250-EDIT-SIGNED-9V2
3914                     THRU 1250-EDIT-SIGNED-9V2-EXIT
3915                 MOVE WS-FLG-SIGNED-NUMBER-EDIT  TO WS-EDIT-CURR-CYC-CREDIT
3916 B
3917                 MOVE 'CURRENT CYCLE DEBIT LIMIT' TO WS-EDIT-VARIABLE-NAME
3918                 MOVE ACUP-NEW-CURR-CYC-DEBIT-X
3919                                                TO WS-EDIT-SIGNED-NUMBER-9V2-X
3920                 PERFORM 1250-EDIT-SIGNED-9V2
3921                     THRU 1250-EDIT-SIGNED-9V2-EXIT
3922                 MOVE WS-FLG-SIGNED-NUMBER-EDIT  TO WS-EDIT-CURR-CYC-DEBIT
3923 B
3924                 MOVE 'SSN'                     TO WS-EDIT-VARIABLE-NAME
3925                 PERFORM 1265-EDIT-US-SSN
3926                     THRU 1265-EDIT-US-SSN-EXIT
3927 B
3928                 MOVE 'DATE OF BIRTH'           TO WS-EDIT-VARIABLE-NAME
3929                 MOVE   ACUP-NEW-CUST-DOB-YYYY-MM-DD
3930                                                TO WS-EDIT-DATE-CCYYMMDD
3931                 PERFORM EDIT-DATE-CCYYMMDD
3932                     THRU EDIT-DATE-CCYYMMDD-EXIT
3933                 MOVE WS-EDIT-DATE-FLGS         TO WS-EDIT-DT-OF-BIRTH-FLGS
3934                 IF WS-EDIT-DT-OF-BIRTH-ISVALID
3935                     PERFORM  EDIT-DATE-OF-BIRTH
3936                         THRU  EDIT-DATE-OF-BIRTH-EXIT
3937                     MOVE WS-EDIT-DATE-FLGS     TO WS-EDIT-DT-OF-BIRTH-FLGS
3938                 END-IF
3939 B
3940                 MOVE 'FICO SCORE'              TO WS-EDIT-VARIABLE-NAME
3941                 MOVE ACUP-NEW-CUST-FICO-SCORE-X
3942                                                TO WS-EDIT-ALPHANUM-ONLY
3943                 MOVE 3                         TO WS-EDIT-ALPHANUM-LENGTH
3944                 PERFORM 1245-EDIT-NUM-REQD
3945                     THRU 1245-EDIT-NUM-REQD-EXIT
3946                 MOVE WS-EDIT-ALPHANUM-ONLY-FLAGS
3947                                                TO WS-EDIT-FICO-SCORE-FLGS
3948                 IF FLG-FICO-SCORE-ISVALID
3949                     PERFORM  1275-EDIT-FICO-SCORE
3950                         THRU  1275-EDIT-FICO-SCORE-EXIT
3951                 END-IF
3952 C       ***************************************************************
```

```
3953 C       *     EDIT NAMES
3954 C       ****************************************************************
3955              MOVE 'FIRST NAME'              TO WS-EDIT-VARIABLE-NAME
3956              MOVE ACUP-NEW-CUST-FIRST-NAME TO WS-EDIT-ALPHANUM-ONLY
3957              MOVE 25                        TO WS-EDIT-ALPHANUM-LENGTH
3958              PERFORM 1225-EDIT-ALPHA-REQD
3959                  THRU 1225-EDIT-ALPHA-REQD-EXIT
3960              MOVE WS-EDIT-ALPHA-ONLY-FLAGS
3961                                             TO WS-EDIT-FIRST-NAME-FLGS
3962 B
3963              MOVE 'MIDDLE NAME'             TO WS-EDIT-VARIABLE-NAME
3964              MOVE ACUP-NEW-CUST-MIDDLE-NAME TO WS-EDIT-ALPHANUM-ONLY
3965              MOVE 25                        TO WS-EDIT-ALPHANUM-LENGTH
3966              PERFORM 1235-EDIT-ALPHA-OPT
3967                  THRU 1235-EDIT-ALPHA-OPT-EXIT
3968              MOVE WS-EDIT-ALPHA-ONLY-FLAGS
3969                                             TO WS-EDIT-MIDDLE-NAME-FLGS
3970 B
3971              MOVE 'LAST NAME'               TO WS-EDIT-VARIABLE-NAME
3972              MOVE ACUP-NEW-CUST-LAST-NAME   TO WS-EDIT-ALPHANUM-ONLY
3973              MOVE 25                        TO WS-EDIT-ALPHANUM-LENGTH
3974              PERFORM 1225-EDIT-ALPHA-REQD
3975                  THRU 1225-EDIT-ALPHA-REQD-EXIT
3976              MOVE WS-EDIT-ALPHA-ONLY-FLAGS
3977                                             TO WS-EDIT-LAST-NAME-FLGS
3978 B
3979              MOVE 'ADDRESS LINE 1'          TO WS-EDIT-VARIABLE-NAME
3980              MOVE ACUP-NEW-CUST-ADDR-LINE-1 TO WS-EDIT-ALPHANUM-ONLY
3981              MOVE 50                        TO WS-EDIT-ALPHANUM-LENGTH
3982              PERFORM 1215-EDIT-MANDATORY
3983                  THRU 1215-EDIT-MANDATORY-EXIT
3984              MOVE WS-EDIT-MANDATORY-FLAGS
3985                                             TO WS-EDIT-ADDRESS-LINE-1-FLGS
3986 B
3987              MOVE 'STATE'                   TO WS-EDIT-VARIABLE-NAME
3988              MOVE ACUP-NEW-CUST-ADDR-STATE-CD TO WS-EDIT-ALPHANUM-ONLY
3989              MOVE 2                         TO WS-EDIT-ALPHANUM-LENGTH
3990              PERFORM 1225-EDIT-ALPHA-REQD
3991                  THRU 1225-EDIT-ALPHA-REQD-EXIT
3992              MOVE WS-EDIT-ALPHA-ONLY-FLAGS
3993                                             TO WS-EDIT-STATE-FLGS
3994              IF FLG-ALPHA-ISVALID
3995              PERFORM 1270-EDIT-US-STATE-CD
3996                  THRU 1270-EDIT-US-STATE-CD-EXIT
3997              END-IF
3998 B
3999 B
4000              MOVE 'ZIP'                     TO WS-EDIT-VARIABLE-NAME
4001              MOVE ACUP-NEW-CUST-ADDR-ZIP    TO WS-EDIT-ALPHANUM-ONLY
4002              MOVE 5                         TO WS-EDIT-ALPHANUM-LENGTH
4003              PERFORM 1245-EDIT-NUM-REQD
4004                  THRU 1245-EDIT-NUM-REQD-EXIT
4005              MOVE WS-EDIT-ALPHANUM-ONLY-FLAGS
4006                                             TO WS-EDIT-ZIPCODE-FLGS
4007 B
4008 C       *     ADDRESS LINE 2 IS OPTIONAL
4009 C       *     MOVE 'ADDRESS LINE 2'         TO WS-EDIT-VARIABLE-NAME
4010              MOVE 'CITY'                    TO WS-EDIT-VARIABLE-NAME
4011              MOVE ACUP-NEW-CUST-ADDR-LINE-3 TO WS-EDIT-ALPHANUM-ONLY
```

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4012                    MOVE 50                          TO WS-EDIT-ALPHANUM-LENGTH
4013                    PERFORM 1225-EDIT-ALPHA-REQD
4014                        THRU 1225-EDIT-ALPHA-REQD-EXIT
4015                    MOVE WS-EDIT-ALPHA-ONLY-FLAGS
4016                                                     TO WS-EDIT-CITY-FLGS
4017 B
4018                    MOVE 'COUNTRY'                   TO WS-EDIT-VARIABLE-NAME
4019                    MOVE ACUP-NEW-CUST-ADDR-COUNTRY-CD
4020                                                     TO WS-EDIT-ALPHANUM-ONLY
4021                    MOVE 3                           TO WS-EDIT-ALPHANUM-LENGTH
4022                    PERFORM 1225-EDIT-ALPHA-REQD
4023                        THRU 1225-EDIT-ALPHA-REQD-EXIT
4024                    MOVE WS-EDIT-ALPHA-ONLY-FLAGS
4025                                                     TO WS-EDIT-COUNTRY-FLGS
4026 B
4027                    MOVE 'PHONE NUMBER 1'            TO WS-EDIT-VARIABLE-NAME
4028                    MOVE ACUP-NEW-CUST-PHONE-NUM-1
4029                                                     TO WS-EDIT-US-PHONE-NUM
4030                    PERFORM 1260-EDIT-US-PHONE-NUM
4031                        THRU 1260-EDIT-US-PHONE-NUM-EXIT
4032                    MOVE WS-EDIT-US-PHONE-NUM-FLGS
4033                                                     TO  WS-EDIT-PHONE-NUM-1-FLGS
4034 B
4035                    MOVE 'PHONE NUMBER 2'            TO WS-EDIT-VARIABLE-NAME
4036                    MOVE ACUP-NEW-CUST-PHONE-NUM-2
4037                                                     TO WS-EDIT-US-PHONE-NUM
4038                    PERFORM 1260-EDIT-US-PHONE-NUM
4039                        THRU 1260-EDIT-US-PHONE-NUM-EXIT
4040                    MOVE WS-EDIT-US-PHONE-NUM-FLGS
4041                                                     TO WS-EDIT-PHONE-NUM-2-FLGS
4042 B
4043                    MOVE 'EFT ACCOUNT ID'            TO WS-EDIT-VARIABLE-NAME
4044                    MOVE ACUP-NEW-CUST-EFT-ACCOUNT-ID
4045                                                     TO WS-EDIT-ALPHANUM-ONLY
4046                    MOVE 10                          TO WS-EDIT-ALPHANUM-LENGTH
4047                    PERFORM 1245-EDIT-NUM-REQD
4048                        THRU 1245-EDIT-NUM-REQD-EXIT
4049                    MOVE WS-EDIT-ALPHANUM-ONLY-FLAGS
4050                                                     TO WS-EFT-ACCOUNT-ID-FLGS
4051 B
4052                    MOVE 'PRIMARY CARD HOLDER'    TO WS-EDIT-VARIABLE-NAME
4053                    MOVE ACUP-NEW-CUST-PRI-HOLDER-IND
4054                                                     TO WS-EDIT-YES-NO
4055                    PERFORM 1220-EDIT-YESNO
4056                        THRU 1220-EDIT-YESNO-EXIT
4057                    MOVE WS-EDIT-YES-NO              TO WS-EDIT-PRI-CARDHOLDER
4058 B
4059 C      *    CROSS FIELD EDITS BEGIN HERE
4060                    IF  FLG-STATE-ISVALID
4061                    AND FLG-ZIPCODE-ISVALID
4062                        PERFORM 1280-EDIT-US-STATE-ZIP-CD
4063                            THRU 1280-EDIT-US-STATE-ZIP-CD-EXIT
4064                    END-IF
4065 B
4066                    IF INPUT-ERROR
4067                        CONTINUE
4068                    ELSE
4069                        SET ACUP-CHANGES-OK-NOT-CONFIRMED TO TRUE
4070                    END-IF
```

```
4071                 .
4072 B
4073          1200-EDIT-MAP-INPUTS-EXIT.
4074              EXIT
4075                 .
4076          1205-COMPARE-OLD-NEW.
4077              SET NO-CHANGES-FOUND            TO TRUE
4078 B
4079              IF  ACUP-NEW-ACCT-ID-X          = ACUP-OLD-ACCT-ID-X
4080              AND FUNCTION UPPER-CASE (
4081                  ACUP-NEW-ACTIVE-STATUS)     =
4082                  FUNCTION UPPER-CASE (
4083                  ACUP-OLD-ACTIVE-STATUS)
4084              AND ACUP-NEW-CURR-BAL           = ACUP-OLD-CURR-BAL
4085              AND ACUP-NEW-CREDIT-LIMIT       = ACUP-OLD-CREDIT-LIMIT
4086              AND ACUP-NEW-CASH-CREDIT-LIMIT = ACUP-OLD-CASH-CREDIT-LIMIT
4087              AND ACUP-NEW-OPEN-DATE          = ACUP-OLD-OPEN-DATE
4088              AND ACUP-NEW-EXPIRAION-DATE     = ACUP-OLD-EXPIRAION-DATE
4089              AND ACUP-NEW-REISSUE-DATE       = ACUP-OLD-REISSUE-DATE
4090              AND ACUP-NEW-CURR-CYC-CREDIT    = ACUP-OLD-CURR-CYC-CREDIT
4091              AND ACUP-NEW-CURR-CYC-DEBIT     = ACUP-OLD-CURR-CYC-DEBIT
4092              AND FUNCTION UPPER-CASE (
4093                  FUNCTION TRIM (ACUP-NEW-GROUP-ID))=
4094                  FUNCTION UPPER-CASE (
4095                  FUNCTION TRIM (ACUP-OLD-GROUP-ID))
4096                  CONTINUE
4097              ELSE
4098                  SET CHANGE-HAS-OCCURRED   TO TRUE
4099                  GO TO 1205-COMPARE-OLD-NEW-EXIT
4100              END-IF
4101 B
4102 B
4103              IF  FUNCTION UPPER-CASE (
4104                  FUNCTION TRIM (ACUP-NEW-CUST-ID-X))=
4105                  FUNCTION UPPER-CASE (
4106                  FUNCTION TRIM (ACUP-OLD-CUST-ID-X))
4107              AND FUNCTION UPPER-CASE (
4108                  FUNCTION TRIM (ACUP-NEW-CUST-FIRST-NAME))=
4109                  FUNCTION UPPER-CASE (
4110                  FUNCTION TRIM (ACUP-OLD-CUST-FIRST-NAME))
4111              AND FUNCTION UPPER-CASE (
4112                  FUNCTION TRIM (ACUP-NEW-CUST-MIDDLE-NAME))=
4113                  FUNCTION UPPER-CASE (
4114                  FUNCTION TRIM (ACUP-OLD-CUST-MIDDLE-NAME))
4115              AND FUNCTION UPPER-CASE (
4116                  FUNCTION TRIM (ACUP-NEW-CUST-LAST-NAME))=
4117                  FUNCTION UPPER-CASE (
4118                  FUNCTION TRIM (ACUP-OLD-CUST-LAST-NAME))
4119              AND FUNCTION UPPER-CASE (
4120                  FUNCTION TRIM (ACUP-NEW-CUST-ADDR-LINE-1))=
4121                  FUNCTION UPPER-CASE (
4122                  FUNCTION TRIM (ACUP-OLD-CUST-ADDR-LINE-1))
4123              AND FUNCTION UPPER-CASE (
4124                  FUNCTION TRIM (ACUP-NEW-CUST-ADDR-LINE-2))=
4125                  FUNCTION UPPER-CASE (
4126                  FUNCTION TRIM (ACUP-OLD-CUST-ADDR-LINE-2))
4127              AND FUNCTION UPPER-CASE (
4128                  FUNCTION TRIM (ACUP-NEW-CUST-ADDR-LINE-3))=
4129                  FUNCTION UPPER-CASE (
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4130                      FUNCTION TRIM (ACUP-OLD-CUST-ADDR-LINE-3))
4131                  AND FUNCTION UPPER-CASE (
4132                      FUNCTION TRIM (ACUP-NEW-CUST-ADDR-STATE-CD))=
4133                      FUNCTION UPPER-CASE (
4134                      FUNCTION TRIM (ACUP-OLD-CUST-ADDR-STATE-CD))
4135                  AND FUNCTION UPPER-CASE (
4136                      FUNCTION TRIM (ACUP-NEW-CUST-ADDR-COUNTRY-CD))=
4137                      FUNCTION UPPER-CASE (
4138                      FUNCTION TRIM (ACUP-OLD-CUST-ADDR-COUNTRY-CD))
4139                  AND FUNCTION UPPER-CASE (
4140                      FUNCTION TRIM (ACUP-NEW-CUST-ADDR-ZIP))=
4141                      FUNCTION UPPER-CASE (
4142                      FUNCTION TRIM (ACUP-OLD-CUST-ADDR-ZIP))
4143                  AND ACUP-NEW-CUST-PHONE-NUM-1A = ACUP-OLD-CUST-PHONE-NUM-1A
4144                  AND ACUP-NEW-CUST-PHONE-NUM-1B = ACUP-OLD-CUST-PHONE-NUM-1B
4145                  AND ACUP-NEW-CUST-PHONE-NUM-1C = ACUP-OLD-CUST-PHONE-NUM-1C
4146                  AND ACUP-NEW-CUST-PHONE-NUM-2A = ACUP-OLD-CUST-PHONE-NUM-2A
4147                  AND ACUP-NEW-CUST-PHONE-NUM-2B = ACUP-OLD-CUST-PHONE-NUM-2B
4148                  AND ACUP-NEW-CUST-PHONE-NUM-2C = ACUP-OLD-CUST-PHONE-NUM-2C
4149                  AND ACUP-NEW-CUST-SSN-X        = ACUP-OLD-CUST-SSN-X
4150                  AND FUNCTION UPPER-CASE (
4151                      FUNCTION TRIM (ACUP-NEW-CUST-GOVT-ISSUED-ID ))=
4152                      FUNCTION UPPER-CASE (
4153                      FUNCTION TRIM (ACUP-OLD-CUST-GOVT-ISSUED-ID))
4154                  AND ACUP-NEW-CUST-DOB-YYYY-MM-DD
4155                                      = ACUP-OLD-CUST-DOB-YYYY-MM-DD
4156                  AND ACUP-NEW-CUST-EFT-ACCOUNT-ID
4157                                      = ACUP-OLD-CUST-EFT-ACCOUNT-ID
4158                  AND FUNCTION UPPER-CASE (
4159                      FUNCTION TRIM (ACUP-NEW-CUST-PRI-HOLDER-IND))=
4160                      FUNCTION UPPER-CASE (
4161                      FUNCTION TRIM (ACUP-OLD-CUST-PRI-HOLDER-IND))
4162                  AND ACUP-NEW-CUST-FICO-SCORE-X
4163                                      = ACUP-OLD-CUST-FICO-SCORE-X
4164                      SET NO-CHANGES-DETECTED   TO TRUE
4165                  ELSE
4166                      SET CHANGE-HAS-OCCURRED   TO TRUE
4167                      GO TO 1205-COMPARE-OLD-NEW-EXIT
4168                  END-IF
4169 B
4170                  .
4171 B
4172        1205-COMPARE-OLD-NEW-EXIT.
4173            EXIT
4174                  .
4175 B
4176 B
4177 C      *
4178        1210-EDIT-ACCOUNT.
4179            SET FLG-ACCTFILTER-NOT-OK   TO TRUE
4180 B
4181 C      *    NOT SUPPLIED
4182            IF CC-ACCT-ID   EQUAL LOW-VALUES
4183            OR CC-ACCT-ID   EQUAL SPACES
4184                SET INPUT-ERROR          TO TRUE
4185                SET FLG-ACCTFILTER-BLANK  TO TRUE
4186                IF WS-RETURN-MSG-OFF
4187                    SET WS-PROMPT-FOR-ACCT TO TRUE
4188                END-IF
```

```
4189                     MOVE ZEROES                     TO CDEMO-ACCT-ID
4190                                                        ACUP-NEW-ACCT-ID
4191                 GO TO  1210-EDIT-ACCOUNT-EXIT
4192             END-IF
4193 B
4194 C      *    NOT NUMERIC
4195 C      *    NOT 11 CHARACTERS
4196             MOVE CC-ACCT-ID                 TO ACUP-NEW-ACCT-ID
4197             IF CC-ACCT-ID   IS NOT NUMERIC
4198             OR CC-ACCT-ID-N EQUAL ZEROS
4199                 SET INPUT-ERROR TO TRUE
4200                 IF WS-RETURN-MSG-OFF
4201                    STRING
4202 C                    'ACCOUNT NUMBER IF SUPPLIED MUST BE A 11 DIGIT'
4203 C                    ' NON-ZERO NUMBER'
4204                     DELIMITED BY SIZE
4205                     INTO WS-RETURN-MSG
4206                 END-IF
4207                 MOVE ZEROES                     TO CDEMO-ACCT-ID
4208                 GO TO 1210-EDIT-ACCOUNT-EXIT
4209             ELSE
4210                 MOVE CC-ACCT-ID TO CDEMO-ACCT-ID
4211                 SET FLG-ACCTFILTER-ISVALID TO TRUE
4212             END-IF
4213                 .
4214 B
4215        1210-EDIT-ACCOUNT-EXIT.
4216             EXIT
4217                 .
4218 B
4219        1215-EDIT-MANDATORY.
4220 C      *    INITIALIZE
4221             SET FLG-MANDATORY-NOT-OK    TO TRUE
4222 B
4223 C      *    NOT SUPPLIED
4224             IF WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
4225                                         EQUAL LOW-VALUES
4226             OR WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
4227                                         EQUAL SPACES
4228             OR FUNCTION LENGTH(FUNCTION TRIM(
4229                WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH))) = 0
4230 B
4231                 SET INPUT-ERROR         TO TRUE
4232                 SET FLG-MANDATORY-BLANK  TO TRUE
4233                 IF WS-RETURN-MSG-OFF
4234                    STRING
4235                       FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4236 C                     ' MUST BE SUPPLIED.'
4237                     DELIMITED BY SIZE
4238                     INTO WS-RETURN-MSG
4239                    END-STRING
4240                 END-IF
4241 B
4242                 GO TO  1215-EDIT-MANDATORY-EXIT
4243             END-IF
4244 B
4245             SET FLG-MANDATORY-ISVALID   TO TRUE
4246                 .
4247        1215-EDIT-MANDATORY-EXIT.
```

```
4248              EXIT
4249              .
4250 B
4251         1220-EDIT-YESNO.
4252 C      *    MUST BE Y OR N
4253 C      *    SET FLG-YES-NO-NOT-OK          TO TRUE
4254 C      *
4255 C      *    NOT SUPPLIED
4256              IF WS-EDIT-YES-NO             EQUAL LOW-VALUES
4257              OR WS-EDIT-YES-NO             EQUAL SPACES
4258              OR WS-EDIT-YES-NO             EQUAL ZEROS
4259                 SET INPUT-ERROR           TO TRUE
4260                 SET FLG-YES-NO-BLANK       TO TRUE
4261                 IF WS-RETURN-MSG-OFF
4262                    STRING
4263                       FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4264 C                     ' MUST BE SUPPLIED.'
4265                       DELIMITED BY SIZE
4266                       INTO WS-RETURN-MSG
4267                    END-STRING
4268                 END-IF
4269                 GO TO  1220-EDIT-YESNO-EXIT
4270              END-IF
4271 B
4272 B
4273              IF FLG-YES-NO-ISVALID
4274                 CONTINUE
4275              ELSE
4276                 SET INPUT-ERROR            TO TRUE
4277                 SET FLG-YES-NO-NOT-OK      TO TRUE
4278                 IF WS-RETURN-MSG-OFF
4279                    STRING
4280                       FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4281 C                     ' MUST BE Y OR N.'
4282                       DELIMITED BY SIZE
4283                       INTO WS-RETURN-MSG
4284                    END-STRING
4285                 END-IF
4286                 GO TO  1220-EDIT-YESNO-EXIT
4287              END-IF
4288              .
4289         1220-EDIT-YESNO-EXIT.
4290              EXIT
4291              .
4292 B
4293         1225-EDIT-ALPHA-REQD.
4294 C      *    INITIALIZE
4295              SET FLG-ALPHA-NOT-OK             TO TRUE
4296 B
4297 C      *    NOT SUPPLIED
4298              IF WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
4299                                              EQUAL LOW-VALUES
4300              OR WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
4301                 EQUAL SPACES
4302              OR FUNCTION LENGTH(FUNCTION TRIM(
4303                 WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH))) = 0
4304 B
4305                 SET INPUT-ERROR             TO TRUE
4306                 SET FLG-ALPHA-BLANK         TO TRUE
```

```
4307              IF WS-RETURN-MSG-OFF
4308                  STRING
4309                      FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4310 C                   ' MUST BE SUPPLIED.'
4311                      DELIMITED BY SIZE
4312                      INTO WS-RETURN-MSG
4313                  END-STRING
4314              END-IF
4315 B
4316              GO TO  1225-EDIT-ALPHA-REQD-EXIT
4317          END-IF
4318 B
4319 C     *    ONLY ALPHABETS AND SPACE ALLOWED
4320          MOVE LIT-ALL-ALPHA-FROM-X   TO LIT-ALL-ALPHA-FROM
4321          INSPECT WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
4322            CONVERTING LIT-ALL-ALPHA-FROM
4323                    TO LIT-ALPHA-SPACES-TO
4324 B
4325          IF FUNCTION LENGTH(
4326                  FUNCTION TRIM(
4327                  WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
4328                            )) = 0
4329              CONTINUE
4330          ELSE
4331              SET INPUT-ERROR          TO TRUE
4332              SET FLG-ALPHA-NOT-OK     TO TRUE
4333              IF WS-RETURN-MSG-OFF
4334                  STRING
4335                      FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4336 C                   ' CAN HAVE ALPHABETS ONLY.'
4337                      DELIMITED BY SIZE
4338                      INTO WS-RETURN-MSG
4339                  END-STRING
4340              END-IF
4341              GO TO  1225-EDIT-ALPHA-REQD-EXIT
4342          END-IF
4343 B
4344          SET FLG-ALPHA-ISVALID       TO TRUE
4345              .
4346       1225-EDIT-ALPHA-REQD-EXIT.
4347          EXIT
4348              .
4349 B
4350 D     1230-EDIT-ALPHANUM-REQD.
4351 C     *    INITIALIZE
4352 D        SET FLG-ALPHNANUM-NOT-OK          TO TRUE
4353 B
4354 C     *    NOT SUPPLIED
4355 D        IF WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
4356 D                                     EQUAL LOW-VALUES
4357 D        OR WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
4358 D           EQUAL SPACES
4359 D        OR FUNCTION LENGTH(FUNCTION TRIM(
4360 D           WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH))) = 0
4361 B
4362 D            SET INPUT-ERROR               TO TRUE
4363 D            SET FLG-ALPHNANUM-BLANK       TO TRUE
4364 D            IF WS-RETURN-MSG-OFF
4365 D                STRING
```

```
4366 D                    FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4367 C                    ' MUST BE SUPPLIED.'
4368 D                    DELIMITED BY SIZE
4369 D                    INTO WS-RETURN-MSG
4370 D                 END-STRING
4371 D              END-IF
4372 B
4373 D           GO TO  1230-EDIT-ALPHANUM-REQD-EXIT
4374 D        END-IF
4375 B
4376 C     *    ONLY ALPHABETS,NUMBERS AND SPACE ALLOWED
4377 D        MOVE LIT-ALL-ALPHANUM-FROM-X TO LIT-ALL-ALPHANUM-FROM
4378 B
4379 D        INSPECT WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
4380 D          CONVERTING LIT-ALL-ALPHANUM-FROM
4381 D                 TO LIT-ALPHANUM-SPACES-TO
4382 B
4383 D        IF FUNCTION LENGTH(
4384 D              FUNCTION TRIM(
4385 D              WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
4386 D                          )) = 0
4387 D           CONTINUE
4388 D        ELSE
4389 D           SET INPUT-ERROR         TO TRUE
4390 D           SET FLG-ALPHNANUM-NOT-OK  TO TRUE
4391 D           IF WS-RETURN-MSG-OFF
4392 D              STRING
4393 D                 FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4394 C                 ' CAN HAVE NUMBERS OR ALPHABETS ONLY.'
4395 D                 DELIMITED BY SIZE
4396 D                 INTO WS-RETURN-MSG
4397 D              END-STRING
4398 D           END-IF
4399 D           GO TO  1230-EDIT-ALPHANUM-REQD-EXIT
4400 D        END-IF
4401 B
4402 D        SET FLG-ALPHNANUM-ISVALID   TO TRUE
4403 D          .
4404 D      1230-EDIT-ALPHANUM-REQD-EXIT.
4405 D        EXIT
4406 D          .
4407       1235-EDIT-ALPHA-OPT.
4408 C     *    INITIALIZE
4409         SET FLG-ALPHA-NOT-OK              TO TRUE
4410 B
4411 C     *    NOT SUPPLIED
4412         IF WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
4413                                      EQUAL LOW-VALUES
4414         OR WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
4415            EQUAL SPACES
4416         OR FUNCTION LENGTH(FUNCTION TRIM(
4417            WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH))) = 0
4418 B
4419            SET FLG-ALPHA-ISVALID         TO TRUE
4420            GO TO  1235-EDIT-ALPHA-OPT-EXIT
4421         ELSE
4422            CONTINUE
4423         END-IF
4424 B
```

```
4425 C       *     ONLY ALPHABETS AND SPACE ALLOWED
4426               MOVE LIT-ALL-ALPHA-FROM-X    TO LIT-ALL-ALPHA-FROM
4427               INSPECT WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
4428                 CONVERTING LIT-ALL-ALPHA-FROM
4429                         TO LIT-ALPHA-SPACES-TO
4430 B
4431               IF FUNCTION LENGTH(
4432                     FUNCTION TRIM(
4433                     WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
4434                              )) = 0
4435                  CONTINUE
4436               ELSE
4437                  SET INPUT-ERROR        TO TRUE
4438                  SET FLG-ALPHA-NOT-OK    TO TRUE
4439                  IF WS-RETURN-MSG-OFF
4440                     STRING
4441                        FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4442 C                     ' CAN HAVE ALPHABETS ONLY.'
4443                        DELIMITED BY SIZE
4444                        INTO WS-RETURN-MSG
4445                     END-STRING
4446                  END-IF
4447                  GO TO  1235-EDIT-ALPHA-OPT-EXIT
4448               END-IF
4449 B
4450               SET FLG-ALPHA-ISVALID      TO TRUE
4451                  .
4452          1235-EDIT-ALPHA-OPT-EXIT.
4453               EXIT
4454                  .
4455 B
4456 D       1240-EDIT-ALPHANUM-OPT.
4457 C       *     INITIALIZE
4458 D               SET FLG-ALPHNANUM-NOT-OK         TO TRUE
4459 B
4460 C       *     NOT SUPPLIED, BUT OK AS OPTIONAL
4461 D               IF WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
4462 D                                            EQUAL LOW-VALUES
4463 D               OR WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
4464 D                  EQUAL SPACES
4465 D               OR FUNCTION LENGTH(FUNCTION TRIM(
4466 D                  WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH))) = 0
4467 D                  SET FLG-ALPHNANUM-ISVALID    TO TRUE
4468 D                  GO TO  1240-EDIT-ALPHANUM-OPT-EXIT
4469 D               ELSE
4470 D                  CONTINUE
4471 D               END-IF
4472 B
4473 C       *     ONLY ALPHABETS AND SPACE ALLOWED
4474 D               MOVE LIT-ALL-ALPHANUM-FROM-X TO LIT-ALL-ALPHANUM-FROM
4475 D               INSPECT WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
4476 D                 CONVERTING LIT-ALL-ALPHANUM-FROM
4477 D                         TO LIT-ALPHANUM-SPACES-TO
4478 B
4479 D               IF FUNCTION LENGTH(
4480 D                     FUNCTION TRIM(
4481 D                     WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
4482 D                              )) = 0
4483 D                  CONTINUE
```

```
4484 D              ELSE
4485 D                  SET INPUT-ERROR           TO TRUE
4486 D                  SET FLG-ALPHNANUM-NOT-OK  TO TRUE
4487 D                  IF WS-RETURN-MSG-OFF
4488 D                      STRING
4489 D                        FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4490 C                        ' CAN HAVE NUMBERS OR ALPHABETS ONLY.'
4491 D                        DELIMITED BY SIZE
4492 D                        INTO WS-RETURN-MSG
4493 D                      END-STRING
4494 D                  END-IF
4495 D                  GO TO  1240-EDIT-ALPHANUM-OPT-EXIT
4496 D              END-IF
4497 B
4498 D              SET FLG-ALPHNANUM-ISVALID    TO TRUE
4499 D              .
4500 D          1240-EDIT-ALPHANUM-OPT-EXIT.
4501 D              EXIT
4502 D              .
4503 B
4504            1245-EDIT-NUM-REQD.
4505 C      *    INITIALIZE
4506            SET FLG-ALPHNANUM-NOT-OK         TO TRUE
4507 B
4508 C      *    NOT SUPPLIED
4509            IF WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
4510                                         EQUAL LOW-VALUES
4511            OR WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
4512             EQUAL SPACES
4513            OR FUNCTION LENGTH(FUNCTION TRIM(
4514              WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH))) = 0
4515 B
4516                SET INPUT-ERROR              TO TRUE
4517                SET FLG-ALPHNANUM-BLANK       TO TRUE
4518                IF WS-RETURN-MSG-OFF
4519                    STRING
4520                      FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4521 C                    ' MUST BE SUPPLIED.'
4522                      DELIMITED BY SIZE
4523                      INTO WS-RETURN-MSG
4524                    END-STRING
4525                END-IF
4526 B
4527                GO TO  1245-EDIT-NUM-REQD-EXIT
4528            END-IF
4529 B
4530 C      *    ONLY ALL NUMERIC ALLOWED
4531 B
4532            IF WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
4533                IS NUMERIC
4534            CONTINUE
4535            ELSE
4536                SET INPUT-ERROR           TO TRUE
4537                SET FLG-ALPHNANUM-NOT-OK  TO TRUE
4538                IF WS-RETURN-MSG-OFF
4539                    STRING
4540                      FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4541 C                    ' MUST BE ALL NUMERIC.'
4542                      DELIMITED BY SIZE
```

```
4543                     INTO WS-RETURN-MSG
4544                 END-STRING
4545             END-IF
4546             GO TO  1245-EDIT-NUM-REQD-EXIT
4547         END-IF
4548 B
4549 C      *    MUST NOT BE ZERO
4550 B
4551         IF FUNCTION NUMVAL(WS-EDIT-ALPHANUM-ONLY(1:
4552                         WS-EDIT-ALPHANUM-LENGTH)) = 0
4553             SET INPUT-ERROR            TO TRUE
4554             SET FLG-ALPHNANUM-NOT-OK   TO TRUE
4555             IF WS-RETURN-MSG-OFF
4556                 STRING
4557                     FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4558 C                   ' MUST NOT BE ZERO.'
4559                     DELIMITED BY SIZE
4560                     INTO WS-RETURN-MSG
4561                 END-STRING
4562             END-IF
4563             GO TO  1245-EDIT-NUM-REQD-EXIT
4564         ELSE
4565             CONTINUE
4566         END-IF
4567 B
4568 B
4569         SET FLG-ALPHNANUM-ISVALID   TO TRUE
4570             .
4571      1245-EDIT-NUM-REQD-EXIT.
4572         EXIT
4573             .
4574 B
4575      1250-EDIT-SIGNED-9V2.
4576         SET FLG-SIGNED-NUMBER-NOT-OK   TO TRUE
4577 B
4578 C      *    NOT SUPPLIED
4579         IF WS-EDIT-SIGNED-NUMBER-9V2-X  EQUAL LOW-VALUES
4580         OR WS-EDIT-SIGNED-NUMBER-9V2-X  EQUAL SPACES
4581             SET INPUT-ERROR            TO TRUE
4582             SET FLG-SIGNED-NUMBER-BLANK  TO TRUE
4583             IF WS-RETURN-MSG-OFF
4584                 STRING
4585                     FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4586 C                   ' MUST BE SUPPLIED.'
4587                     DELIMITED BY SIZE
4588                     INTO WS-RETURN-MSG
4589                 END-STRING
4590             END-IF
4591             GO TO  1250-EDIT-SIGNED-9V2-EXIT
4592         ELSE
4593             CONTINUE
4594         END-IF
4595 B
4596         IF FUNCTION TEST-NUMVAL-C(WS-EDIT-SIGNED-NUMBER-9V2-X) = 0
4597             CONTINUE
4598         ELSE
4599             SET INPUT-ERROR            TO TRUE
4600             SET FLG-SIGNED-NUMBER-NOT-OK   TO TRUE
4601             IF WS-RETURN-MSG-OFF
```

```
4602                    STRING
4603                        FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4604 C                      ' IS NOT VALID'
4605                        DELIMITED BY SIZE
4606                        INTO WS-RETURN-MSG
4607                    END-IF
4608                    GO TO  1250-EDIT-SIGNED-9V2-EXIT
4609 B
4610            END-IF
4611 B
4612 C      *    IF WE GOT HERE ALL EDITS WERE CLEARED
4613            SET FLG-SIGNED-NUMBER-ISVALID  TO TRUE
4614                .
4615 B
4616        1250-EDIT-SIGNED-9V2-EXIT.
4617            EXIT
4618                .
4619 B
4620        1260-EDIT-US-PHONE-NUM.
4621 B
4622 C      *    THE DATABASE STORES DATE IN X(15) FORMAT (999)999-9999
4623 C      *                                          1234567890123
4624 C      *    SO WE TAKE THE X(15) INPUT INTO WS-EDIT-US-PHONE-NUM
4625 C      *    AND EDIT IT
4626 B
4627            SET WS-EDIT-US-PHONE-IS-INVALID TO TRUE
4628 C      *    NOT MANDATORY TO ENTER A PHONE NUMBER
4629            IF  (WS-EDIT-US-PHONE-NUMA EQUAL SPACES
4630            OR   WS-EDIT-US-PHONE-NUMA EQUAL LOW-VALUES)
4631            AND (WS-EDIT-US-PHONE-NUMB EQUAL SPACES
4632            OR   WS-EDIT-US-PHONE-NUMB EQUAL LOW-VALUES)
4633            AND (WS-EDIT-US-PHONE-NUMA EQUAL SPACES
4634            OR   WS-EDIT-US-PHONE-NUMC EQUAL LOW-VALUES)
4635                SET WS-EDIT-US-PHONE-IS-VALID TO TRUE
4636                GO TO EDIT-US-PHONE-EXIT
4637            ELSE
4638                CONTINUE
4639            END-IF
4640                .
4641        EDIT-AREA-CODE.
4642            IF WS-EDIT-US-PHONE-NUMA EQUAL SPACES
4643            OR WS-EDIT-US-PHONE-NUMA EQUAL LOW-VALUES
4644                SET INPUT-ERROR            TO TRUE
4645                SET FLG-EDIT-US-PHONEA-BLANK    TO TRUE
4646                IF WS-RETURN-MSG-OFF
4647                    STRING
4648                        FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4649 C                      ': AREA CODE MUST BE SUPPLIED.'
4650                        DELIMITED BY SIZE
4651                        INTO WS-RETURN-MSG
4652                    END-STRING
4653                END-IF
4654                GO TO  EDIT-US-PHONE-PREFIX
4655            ELSE
4656                CONTINUE
4657            END-IF
4658 B
4659            IF  WS-EDIT-US-PHONE-NUMA      IS NUMERIC
4660                CONTINUE
```

```
4661                 ELSE
4662                     SET INPUT-ERROR                TO TRUE
4663                     SET  FLG-EDIT-US-PHONEA-NOT-OK  TO TRUE
4664                     IF WS-RETURN-MSG-OFF
4665                         STRING
4666                             FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4667 C                           ': AREA CODE MUST BE A 3 DIGIT NUMBER.'
4668                             DELIMITED BY SIZE
4669                             INTO WS-RETURN-MSG
4670                         END-STRING
4671                     END-IF
4672                     GO TO  EDIT-US-PHONE-PREFIX
4673                 END-IF
4674 B
4675             IF  WS-EDIT-US-PHONE-NUMA-N = 0
4676                     SET INPUT-ERROR                TO TRUE
4677                     SET  FLG-EDIT-US-PHONEA-NOT-OK  TO TRUE
4678                     IF WS-RETURN-MSG-OFF
4679                         STRING
4680                             FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4681 C                           ': AREA CODE CANNOT BE ZERO'
4682                             DELIMITED BY SIZE
4683                             INTO WS-RETURN-MSG
4684                         END-STRING
4685                     END-IF
4686                     GO TO  EDIT-US-PHONE-PREFIX
4687                 ELSE
4688                     CONTINUE
4689                 END-IF
4690 B
4691             MOVE FUNCTION TRIM (WS-EDIT-US-PHONE-NUMA)
4692               TO WS-US-PHONE-AREA-CODE-TO-EDIT
4693             IF VALID-GENERAL-PURP-CODE
4694                 CONTINUE
4695             ELSE
4696                     SET INPUT-ERROR                TO TRUE
4697                     SET  FLG-EDIT-US-PHONEA-NOT-OK  TO TRUE
4698                     IF WS-RETURN-MSG-OFF
4699                         STRING
4700                             FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4701 C                           ': NOT VALID NORTH AMERICA GENERAL PURPOSE AREA CODE'
4702                             DELIMITED BY SIZE
4703                             INTO WS-RETURN-MSG
4704                         END-STRING
4705                     END-IF
4706                     GO TO  EDIT-US-PHONE-PREFIX
4707             END-IF
4708 B
4709             SET FLG-EDIT-US-PHONEA-ISVALID    TO TRUE
4710                 .
4711         EDIT-US-PHONE-PREFIX.
4712 B
4713             IF WS-EDIT-US-PHONE-NUMB EQUAL SPACES
4714             OR WS-EDIT-US-PHONE-NUMB EQUAL LOW-VALUES
4715                 SET INPUT-ERROR                TO TRUE
4716                 SET FLG-EDIT-US-PHONEB-BLANK    TO TRUE
4717                 IF WS-RETURN-MSG-OFF
4718                     STRING
4719                         FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
```

```
4720 C                        ': PREFIX CODE MUST BE SUPPLIED.'
4721                            DELIMITED BY SIZE
4722                            INTO WS-RETURN-MSG
4723                        END-STRING
4724                    END-IF
4725                    GO TO  EDIT-US-PHONE-LINENUM
4726              ELSE
4727                    CONTINUE
4728              END-IF
4729 B
4730          IF  WS-EDIT-US-PHONE-NUMB        IS NUMERIC
4731              CONTINUE
4732          ELSE
4733              SET INPUT-ERROR                 TO TRUE
4734              SET  FLG-EDIT-US-PHONEB-NOT-OK  TO TRUE
4735              IF WS-RETURN-MSG-OFF
4736                  STRING
4737                    FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4738 C                    ': PREFIX CODE MUST BE A 3 DIGIT NUMBER.'
4739                        DELIMITED BY SIZE
4740                        INTO WS-RETURN-MSG
4741                    END-STRING
4742              END-IF
4743              GO TO  EDIT-US-PHONE-LINENUM
4744          END-IF
4745 B
4746          IF  WS-EDIT-US-PHONE-NUMB-N = 0
4747              SET INPUT-ERROR             TO TRUE
4748              SET  FLG-EDIT-US-PHONEB-NOT-OK  TO TRUE
4749              IF WS-RETURN-MSG-OFF
4750                  STRING
4751                    FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4752 C                    ': PREFIX CODE CANNOT BE ZERO'
4753                        DELIMITED BY SIZE
4754                        INTO WS-RETURN-MSG
4755                    END-STRING
4756              END-IF
4757              GO TO  EDIT-US-PHONE-LINENUM
4758          ELSE
4759              CONTINUE
4760          END-IF
4761 B
4762          SET FLG-EDIT-US-PHONEB-ISVALID    TO TRUE
4763              .
4764 B
4765      EDIT-US-PHONE-LINENUM.
4766          IF WS-EDIT-US-PHONE-NUMC EQUAL SPACES
4767          OR WS-EDIT-US-PHONE-NUMC EQUAL LOW-VALUES
4768              SET INPUT-ERROR             TO TRUE
4769              SET FLG-EDIT-US-PHONEC-BLANK    TO TRUE
4770              IF WS-RETURN-MSG-OFF
4771                  STRING
4772                    FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4773 C                    ': LINE NUMBER CODE MUST BE SUPPLIED.'
4774                        DELIMITED BY SIZE
4775                        INTO WS-RETURN-MSG
4776                    END-STRING
4777              END-IF
4778              GO TO EDIT-US-PHONE-EXIT
```

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4779              ELSE
4780                 CONTINUE
4781              END-IF
4782 B
4783              IF  WS-EDIT-US-PHONE-NUMC          IS NUMERIC
4784                 CONTINUE
4785              ELSE
4786                 SET INPUT-ERROR                   TO TRUE
4787                 SET  FLG-EDIT-US-PHONEC-NOT-OK  TO TRUE
4788                 IF WS-RETURN-MSG-OFF
4789                    STRING
4790                       FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4791 C                    ': LINE NUMBER CODE MUST BE A 4 DIGIT NUMBER.'
4792                       DELIMITED BY SIZE
4793                       INTO WS-RETURN-MSG
4794                    END-STRING
4795                 END-IF
4796                 GO TO  EDIT-US-PHONE-EXIT
4797              END-IF
4798 B
4799              IF  WS-EDIT-US-PHONE-NUMC-N = 0
4800                 SET INPUT-ERROR              TO TRUE
4801                 SET  FLG-EDIT-US-PHONEC-NOT-OK  TO TRUE
4802                 IF WS-RETURN-MSG-OFF
4803                    STRING
4804                       FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4805 C                    ': LINE NUMBER CODE CANNOT BE ZERO'
4806                       DELIMITED BY SIZE
4807                       INTO WS-RETURN-MSG
4808                    END-STRING
4809                 END-IF
4810                 GO TO  EDIT-US-PHONE-EXIT
4811              ELSE
4812                  CONTINUE
4813              END-IF
4814 B
4815 B
4816              SET FLG-EDIT-US-PHONEC-ISVALID    TO TRUE
4817              .
4818 B
4819          EDIT-US-PHONE-EXIT.
4820              EXIT
4821              .
4822          1260-EDIT-US-PHONE-NUM-EXIT.
4823              EXIT
4824              .
4825 B
4826          1265-EDIT-US-SSN.
4827 C     *FORMAT XXX-XX-XXXX
4828 C     *PART1 :SHOULD HAVE 3 DIGITS
4829 C     *PART2 :SHOULD HAVE 2 DIGITS AND IT SHOULD BE FROM 01 TO 99
4830 C     *PART3 SHOULD HAVE 4 DIGITS FROM 0001 TO 9999.
4831 C     ******************************************************************
4832 C     *    EDIT SSN PART 1
4833 C     ******************************************************************
4834              MOVE 'SSN: FIRST 3 CHARS'     TO WS-EDIT-VARIABLE-NAME
4835              MOVE ACUP-NEW-CUST-SSN-1      TO WS-EDIT-ALPHANUM-ONLY
4836              MOVE 3                        TO WS-EDIT-ALPHANUM-LENGTH
4837              PERFORM 1245-EDIT-NUM-REQD
```

```
4838                 THRU 1245-EDIT-NUM-REQD-EXIT
4839             MOVE WS-EDIT-ALPHANUM-ONLY-FLAGS
4840                               TO WS-EDIT-US-SSN-PART1-FLGS
4841 B
4842 C       *PART1 :SHOULD NOT BE 000, 666, OR BETWEEN 900 AND 999
4843           IF FLG-EDIT-US-SSN-PART1-ISVALID
4844             MOVE ACUP-NEW-CUST-SSN-1   TO WS-EDIT-US-SSN-PART1
4845             IF INVALID-SSN-PART1
4846             SET INPUT-ERROR            TO TRUE
4847             SET FLG-EDIT-US-SSN-PART1-NOT-OK
4848                             TO TRUE
4849             IF WS-RETURN-MSG-OFF
4850                STRING
4851                  FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4852 C                ': SHOULD NOT BE 000, 666, OR BETWEEN 900 AND 999'
4853                  DELIMITED BY SIZE
4854                  INTO WS-RETURN-MSG
4855                END-STRING
4856             ELSE
4857                CONTINUE
4858             END-IF
4859           END-IF
4860 B
4861 C       ********************************************************************
4862 C       *    EDIT SSN PART 2
4863 C       ********************************************************************
4864           MOVE 'SSN 4TH & 5TH CHARS'   TO WS-EDIT-VARIABLE-NAME
4865           MOVE ACUP-NEW-CUST-SSN-2     TO WS-EDIT-ALPHANUM-ONLY
4866           MOVE 2                       TO WS-EDIT-ALPHANUM-LENGTH
4867           PERFORM 1245-EDIT-NUM-REQD
4868               THRU 1245-EDIT-NUM-REQD-EXIT
4869           MOVE WS-EDIT-ALPHANUM-ONLY-FLAGS
4870                               TO WS-EDIT-US-SSN-PART2-FLGS
4871 B
4872 B
4873 C       ********************************************************************
4874 C       *    EDIT SSN PART 3
4875 C       ********************************************************************
4876           MOVE 'SSN LAST 4 CHARS'      TO WS-EDIT-VARIABLE-NAME
4877           MOVE ACUP-NEW-CUST-SSN-3     TO WS-EDIT-ALPHANUM-ONLY
4878           MOVE 4                       TO WS-EDIT-ALPHANUM-LENGTH
4879           PERFORM 1245-EDIT-NUM-REQD
4880               THRU 1245-EDIT-NUM-REQD-EXIT
4881           MOVE WS-EDIT-ALPHANUM-ONLY-FLAGS
4882                               TO WS-EDIT-US-SSN-PART3-FLGS
4883           .
4884        1265-EDIT-US-SSN-EXIT.
4885           EXIT
4886           .
4887 B
4888        1270-EDIT-US-STATE-CD.
4889           MOVE ACUP-NEW-CUST-ADDR-STATE-CD TO US-STATE-CODE-TO-EDIT
4890           IF VALID-US-STATE-CODE
4891              CONTINUE
4892           ELSE
4893             SET INPUT-ERROR            TO TRUE
4894             SET FLG-STATE-NOT-OK       TO TRUE
4895             IF WS-RETURN-MSG-OFF
4896                STRING
```

```
4897                     FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4898 C                      ': IS NOT A VALID STATE CODE'
4899                        DELIMITED BY SIZE
4900                        INTO WS-RETURN-MSG
4901                     END-STRING
4902                 END-IF
4903                 GO TO  1270-EDIT-US-STATE-CD-EXIT
4904             END-IF
4905             .
4906         1270-EDIT-US-STATE-CD-EXIT.
4907             EXIT
4908             .
4909         1275-EDIT-FICO-SCORE.
4910             IF FICO-RANGE-IS-VALID
4911                 CONTINUE
4912             ELSE
4913                 SET INPUT-ERROR             TO TRUE
4914                 SET FLG-FICO-SCORE-NOT-OK   TO TRUE
4915                 IF WS-RETURN-MSG-OFF
4916                     STRING
4917                        FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4918 C                      ': SHOULD BE BETWEEN 300 AND 850'
4919                        DELIMITED BY SIZE
4920                        INTO WS-RETURN-MSG
4921                     END-STRING
4922                 END-IF
4923                 GO TO  1275-EDIT-FICO-SCORE-EXIT
4924             END-IF
4925             .
4926         1275-EDIT-FICO-SCORE-EXIT.
4927             EXIT
4928             .
4929 B
4930 C     *A CRUDE ZIP CODE EDIT BASED ON DATA FROM USPS WEB SITE
4931         1280-EDIT-US-STATE-ZIP-CD.
4932             STRING ACUP-NEW-CUST-ADDR-STATE-CD
4933                    ACUP-NEW-CUST-ADDR-ZIP(1:2)
4934               DELIMITED BY SIZE
4935               INTO US-STATE-AND-FIRST-ZIP2
4936 B
4937             IF VALID-US-STATE-ZIP-CD2-COMBO
4938                 CONTINUE
4939             ELSE
4940                 SET INPUT-ERROR             TO TRUE
4941                 SET FLG-STATE-NOT-OK        TO TRUE
4942                 SET FLG-ZIPCODE-NOT-OK      TO TRUE
4943                 IF WS-RETURN-MSG-OFF
4944                     STRING
4945 C                      'INVALID ZIP CODE FOR STATE'
4946                        DELIMITED BY SIZE
4947                        INTO WS-RETURN-MSG
4948                     END-STRING
4949                 END-IF
4950                 GO TO  1280-EDIT-US-STATE-ZIP-CD-EXIT
4951             END-IF
4952             .
4953         1280-EDIT-US-STATE-ZIP-CD-EXIT.
4954             EXIT
4955             .
```

```
4956 B
4957           2000-DECIDE-ACTION.
4958               EVALUATE TRUE
4959 C     ***********************************************************
4960 C     *       NO DETAILS SHOWN.
4961 C     *       SO GET THEM AND SETUP DETAIL EDIT SCREEN
4962 C     ***********************************************************
4963               WHEN ACUP-DETAILS-NOT-FETCHED
4964 C     ***********************************************************
4965 C     *       CHANGES MADE. BUT USER CANCELS
4966 C     ***********************************************************
4967               WHEN CCARD-AID-PFK12
4968                   IF  FLG-ACCTFILTER-ISVALID
4969                       SET WS-RETURN-MSG-OFF       TO TRUE
4970                       PERFORM 9000-READ-ACCT
4971                          THRU 9000-READ-ACCT-EXIT
4972                       IF FOUND-CUST-IN-MASTER
4973                           SET ACUP-SHOW-DETAILS    TO TRUE
4974                       END-IF
4975                   END-IF
4976 C     ***********************************************************
4977 C     *       DETAILS SHOWN
4978 C     *       CHECK CHANGES AND ASK CONFIRMATION IF GOOD
4979 C     ***********************************************************
4980               WHEN ACUP-SHOW-DETAILS
4981                   IF INPUT-ERROR
4982                   OR NO-CHANGES-DETECTED
4983                       CONTINUE
4984                   ELSE
4985                       SET ACUP-CHANGES-OK-NOT-CONFIRMED TO TRUE
4986                   END-IF
4987 C     ***********************************************************
4988 C     *       DETAILS SHOWN
4989 C     *       BUT INPUT EDIT ERRORS FOUND
4990 C     ***********************************************************
4991               WHEN ACUP-CHANGES-NOT-OK
4992                   CONTINUE
4993 C     ***********************************************************
4994 C     *       DETAILS EDITED , FOUND OK, CONFIRM SAVE REQUESTED
4995 C     *       CONFIRMATION GIVEN.SO SAVE THE CHANGES
4996 C     ***********************************************************
4997               WHEN ACUP-CHANGES-OK-NOT-CONFIRMED
4998                AND CCARD-AID-PFK05
4999                   PERFORM 9600-WRITE-PROCESSING
5000                      THRU 9600-WRITE-PROCESSING-EXIT
5001                   EVALUATE TRUE
5002                       WHEN COULD-NOT-LOCK-ACCT-FOR-UPDATE
5003                           SET ACUP-CHANGES-OKAYED-LOCK-ERROR TO TRUE
5004                       WHEN LOCKED-BUT-UPDATE-FAILED
5005                           SET ACUP-CHANGES-OKAYED-BUT-FAILED TO TRUE
5006                       WHEN DATA-WAS-CHANGED-BEFORE-UPDATE
5007                           SET ACUP-SHOW-DETAILS            TO TRUE
5008                       WHEN OTHER
5009                           SET ACUP-CHANGES-OKAYED-AND-DONE  TO TRUE
5010                   END-EVALUATE
5011 C     ***********************************************************
5012 C     *       DETAILS EDITED , FOUND OK, CONFIRM SAVE REQUESTED
5013 C     *       CONFIRMATION NOT GIVEN. SO SHOW DETAILS AGAIN
5014 C     ***********************************************************
```

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5015                    WHEN ACUP-CHANGES-OK-NOT-CONFIRMED
5016                        CONTINUE
5017 C          ****************************************************************
5018 C          *        SHOW CONFIRMATION. GO BACK TO SQUARE 1
5019 C          ****************************************************************
5020                    WHEN ACUP-CHANGES-OKAYED-AND-DONE
5021                        SET ACUP-SHOW-DETAILS TO TRUE
5022                        IF CDEMO-FROM-TRANID    EQUAL LOW-VALUES
5023                        OR CDEMO-FROM-TRANID    EQUAL SPACES
5024                           MOVE ZEROES          TO CDEMO-ACCT-ID
5025                                                   CDEMO-CARD-NUM
5026                           MOVE LOW-VALUES   TO CDEMO-ACCT-STATUS
5027                        END-IF
5028                    WHEN OTHER
5029                        MOVE LIT-THISPGM     TO ABEND-CULPRIT
5030                        MOVE '0001'          TO ABEND-CODE
5031                        MOVE SPACES          TO ABEND-REASON
5032                        MOVE 'UNEXPECTED DATA SCENARIO'
5033                                             TO ABEND-MSG
5034                        PERFORM ABEND-ROUTINE
5035                            THRU ABEND-ROUTINE-EXIT
5036              END-EVALUATE
5037              .
5038         2000-DECIDE-ACTION-EXIT.
5039              EXIT
5040              .
5041 B
5042 B
5043 B
5044         3000-SEND-MAP.
5045              PERFORM 3100-SCREEN-INIT
5046                  THRU 3100-SCREEN-INIT-EXIT
5047              PERFORM 3200-SETUP-SCREEN-VARS
5048                  THRU 3200-SETUP-SCREEN-VARS-EXIT
5049              PERFORM 3250-SETUP-INFOMSG
5050                  THRU 3250-SETUP-INFOMSG-EXIT
5051              PERFORM 3300-SETUP-SCREEN-ATTRS
5052                  THRU 3300-SETUP-SCREEN-ATTRS-EXIT
5053              PERFORM 3390-SETUP-INFOMSG-ATTRS
5054                  THRU 3390-SETUP-INFOMSG-ATTRS-EXIT
5055              PERFORM 3400-SEND-SCREEN
5056                  THRU 3400-SEND-SCREEN-EXIT
5057              .
5058 B
5059         3000-SEND-MAP-EXIT.
5060              EXIT
5061              .
5062 B
5063         3100-SCREEN-INIT.
5064              MOVE LOW-VALUES TO CACTUPAO
5065 B
5066              MOVE FUNCTION CURRENT-DATE     TO WS-CURDATE-DATA
5067 B
5068              MOVE CCDA-TITLE01             TO TITLE01O OF CACTUPAO
5069              MOVE CCDA-TITLE02             TO TITLE02O OF CACTUPAO
5070              MOVE LIT-THISTRANID           TO TRNNAMEO OF CACTUPAO
5071              MOVE LIT-THISPGM              TO PGMNAMEO OF CACTUPAO
5072 B
5073              MOVE FUNCTION CURRENT-DATE     TO WS-CURDATE-DATA
```

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5074 B
5075            MOVE WS-CURDATE-MONTH          TO WS-CURDATE-MM
5076            MOVE WS-CURDATE-DAY            TO WS-CURDATE-DD
5077            MOVE WS-CURDATE-YEAR(3:2)      TO WS-CURDATE-YY
5078 B
5079            MOVE WS-CURDATE-MM-DD-YY       TO CURDATEO OF CACTUPAO
5080 B
5081            MOVE WS-CURTIME-HOURS          TO WS-CURTIME-HH
5082            MOVE WS-CURTIME-MINUTE         TO WS-CURTIME-MM
5083            MOVE WS-CURTIME-SECOND         TO WS-CURTIME-SS
5084 B
5085            MOVE WS-CURTIME-HH-MM-SS       TO CURTIMEO OF CACTUPAO
5086 B
5087            .
5088 B
5089        3100-SCREEN-INIT-EXIT.
5090            EXIT
5091            .
5092 B
5093        3200-SETUP-SCREEN-VARS.
5094 C     *    INITIALIZE SEARCH CRITERIA
5095            IF CDEMO-PGM-ENTER
5096               CONTINUE
5097            ELSE
5098               IF CC-ACCT-ID-N = 0
5099               AND FLG-ACCTFILTER-ISVALID
5100                  MOVE LOW-VALUES              TO ACCTSIDO OF CACTUPAO
5101               ELSE
5102                  MOVE CC-ACCT-ID             TO ACCTSIDO OF CACTUPAO
5103               END-IF
5104 B
5105               EVALUATE TRUE
5106                 WHEN ACUP-DETAILS-NOT-FETCHED
5107                 WHEN CC-ACCT-ID-N =   0
5108                    PERFORM 3201-SHOW-INITIAL-VALUES
5109                       THRU 3201-SHOW-INITIAL-VALUES-EXIT
5110                  WHEN ACUP-SHOW-DETAILS
5111                    PERFORM 3202-SHOW-ORIGINAL-VALUES
5112                       THRU 3202-SHOW-ORIGINAL-VALUES-EXIT
5113                  WHEN ACUP-CHANGES-MADE
5114                    PERFORM 3203-SHOW-UPDATED-VALUES
5115                       THRU 3203-SHOW-UPDATED-VALUES-EXIT
5116                  WHEN OTHER
5117                    PERFORM 3202-SHOW-ORIGINAL-VALUES
5118                       THRU 3202-SHOW-ORIGINAL-VALUES-EXIT
5119                END-EVALUATE
5120             END-IF
5121            .
5122        3200-SETUP-SCREEN-VARS-EXIT.
5123            EXIT
5124            .
5125 B
5126        3201-SHOW-INITIAL-VALUES.
5127            MOVE LOW-VALUES                  TO  ACSTTUSO OF CACTUPAO
5128                                                 ACRDLIMO OF CACTUPAO
5129 C     *ACCOUNT LIMITS
5130                                                 ACURBALO OF CACTUPAO
5131                                                 ACSHLIMO OF CACTUPAO
5132                                                 ACRCYCRO OF CACTUPAO
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5133                                                        ACRCYDBO OF CACTUPAO
5134 C        *ACCOUNT DATES
5135                                                        OPNYEARO OF CACTUPAO
5136                                                        OPNMONO  OF CACTUPAO
5137                                                        OPNDAYO  OF CACTUPAO
5138                                                        EXPYEARO OF CACTUPAO
5139                                                        EXPMONO  OF CACTUPAO
5140                                                        EXPDAYO  OF CACTUPAO
5141                                                        RISYEARO OF CACTUPAO
5142                                                        RISMONO  OF CACTUPAO
5143                                                        RISDAYO  OF CACTUPAO
5144                                                        AADDGRPO OF CACTUPAO
5145 C        *CUSTOMER DATA
5146                                                        ACSTNUMO OF CACTUPAO
5147                                                        ACTSSN1O OF CACTUPAO
5148                                                        ACTSSN2O OF CACTUPAO
5149                                                        ACTSSN3O OF CACTUPAO
5150                                                        ACSTFCOO OF CACTUPAO
5151                                                        DOBYEARO OF CACTUPAO
5152                                                        DOBMONO  OF CACTUPAO
5153                                                        DOBDAYO  OF CACTUPAO
5154                                                        ACSFNAMO OF CACTUPAO
5155                                                        ACSMNAMO OF CACTUPAO
5156                                                        ACSLNAMO OF CACTUPAO
5157 C        *CUSTOMER ADDRESS AND CONTACT INFO
5158                                                        ACSADL1O OF CACTUPAO
5159                                                        ACSADL2O OF CACTUPAO
5160                                                        ACSCITYO OF CACTUPAO
5161                                                        ACSSTTEO OF CACTUPAO
5162                                                        ACSZIPCO OF CACTUPAO
5163                                                        ACSCTRYO OF CACTUPAO
5164 B
5165                                                        ACSPH1AO OF CACTUPAO
5166                                                        ACSPH1BO OF CACTUPAO
5167                                                        ACSPH1CO OF CACTUPAO
5168                                                        ACSPH2AO OF CACTUPAO
5169                                                        ACSPH2BO OF CACTUPAO
5170                                                        ACSPH2CO OF CACTUPAO
5171 B
5172 C        *CUSTOMER OTHER GOOD STUFF
5173                                                        ACSGOVTO OF CACTUPAO
5174                                                        ACSEFTCO OF CACTUPAO
5175                                                        ACSPFLGO OF CACTUPAO
5176                 .
5177 B
5178          3201-SHOW-INITIAL-VALUES-EXIT.
5179              EXIT
5180                 .
5181 B
5182          3202-SHOW-ORIGINAL-VALUES.
5183 B
5184              MOVE LOW-VALUES                 TO WS-NON-KEY-FLAGS
5185 B
5186              SET PROMPT-FOR-CHANGES          TO TRUE
5187 B
5188              IF FOUND-ACCT-IN-MASTER
5189              OR FOUND-CUST-IN-MASTER
5190                  MOVE ACUP-OLD-ACTIVE-STATUS   TO ACSTTUSO OF CACTUPAO
5191 B
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5192                    MOVE ACUP-OLD-CURR-BAL-N         TO WS-EDIT-CURRENCY-9-2-F
5193                    MOVE WS-EDIT-CURRENCY-9-2-F      TO ACURBALO OF CACTUPAO
5194 B
5195                    MOVE ACUP-OLD-CREDIT-LIMIT-N     TO WS-EDIT-CURRENCY-9-2-F
5196                    MOVE WS-EDIT-CURRENCY-9-2-F      TO ACRDLIMO OF CACTUPAO
5197 B
5198                    MOVE ACUP-OLD-CASH-CREDIT-LIMIT-N
5199                                                    TO WS-EDIT-CURRENCY-9-2-F
5200                    MOVE WS-EDIT-CURRENCY-9-2-F      TO ACSHLIMO OF CACTUPAO
5201 B
5202                    MOVE ACUP-OLD-CURR-CYC-CREDIT-N  TO WS-EDIT-CURRENCY-9-2-F
5203                    MOVE WS-EDIT-CURRENCY-9-2-F      TO ACRCYCRO OF CACTUPAO
5204 B
5205                    MOVE ACUP-OLD-CURR-CYC-DEBIT-N   TO WS-EDIT-CURRENCY-9-2-F
5206                    MOVE WS-EDIT-CURRENCY-9-2-F      TO ACRCYDBO OF CACTUPAO
5207 B
5208                    MOVE ACUP-OLD-OPEN-YEAR          TO OPNYEARO OF CACTUPAO
5209                    MOVE ACUP-OLD-OPEN-MON           TO OPNMONO  OF CACTUPAO
5210                    MOVE ACUP-OLD-OPEN-DAY           TO OPNDAYO  OF CACTUPAO
5211 B
5212                    MOVE ACUP-OLD-EXP-YEAR           TO EXPYEARO OF CACTUPAO
5213                    MOVE ACUP-OLD-EXP-MON            TO EXPMONO  OF CACTUPAO
5214                    MOVE ACUP-OLD-EXP-DAY            TO EXPDAYO  OF CACTUPAO
5215 B
5216                    MOVE ACUP-OLD-REISSUE-YEAR       TO RISYEARO OF CACTUPAO
5217                    MOVE ACUP-OLD-REISSUE-MON        TO RISMONO  OF CACTUPAO
5218                    MOVE ACUP-OLD-REISSUE-DAY        TO RISDAYO  OF CACTUPAO
5219                    MOVE ACUP-OLD-GROUP-ID           TO AADDGRPO OF CACTUPAO
5220           END-IF
5221 B
5222           IF FOUND-CUST-IN-MASTER
5223               MOVE ACUP-OLD-CUST-ID-X          TO ACSTNUMO OF CACTUPAO
5224               MOVE ACUP-OLD-CUST-SSN-X(1:3)    TO ACTSSN1O OF CACTUPAO
5225               MOVE ACUP-OLD-CUST-SSN-X(4:2)    TO ACTSSN2O OF CACTUPAO
5226               MOVE ACUP-OLD-CUST-SSN-X(6:4)    TO ACTSSN3O OF CACTUPAO
5227               MOVE ACUP-OLD-CUST-FICO-SCORE-X  TO ACSTFCOO OF CACTUPAO
5228               MOVE ACUP-OLD-CUST-DOB-YEAR      TO DOBYEARO OF CACTUPAO
5229               MOVE ACUP-OLD-CUST-DOB-MON       TO DOBMONO  OF CACTUPAO
5230               MOVE ACUP-OLD-CUST-DOB-DAY       TO DOBDAYO  OF CACTUPAO
5231               MOVE ACUP-OLD-CUST-FIRST-NAME    TO ACSFNAMO OF CACTUPAO
5232               MOVE ACUP-OLD-CUST-MIDDLE-NAME   TO ACSMNAMO OF CACTUPAO
5233               MOVE ACUP-OLD-CUST-LAST-NAME     TO ACSLNAMO OF CACTUPAO
5234               MOVE ACUP-OLD-CUST-ADDR-LINE-1   TO ACSADL1O OF CACTUPAO
5235               MOVE ACUP-OLD-CUST-ADDR-LINE-2   TO ACSADL2O OF CACTUPAO
5236               MOVE ACUP-OLD-CUST-ADDR-LINE-3   TO ACSCITYO OF CACTUPAO
5237               MOVE ACUP-OLD-CUST-ADDR-STATE-CD TO ACSSTTEO OF CACTUPAO
5238               MOVE ACUP-OLD-CUST-ADDR-ZIP      TO ACSZIPCO OF CACTUPAO
5239               MOVE ACUP-OLD-CUST-ADDR-COUNTRY-CD
5240                                                TO ACSCTRYO OF CACTUPAO
5241               MOVE ACUP-OLD-CUST-PHONE-NUM-1(2:3)
5242                                                TO ACSPH1AO OF CACTUPAO
5243               MOVE ACUP-OLD-CUST-PHONE-NUM-1(6:3)
5244                                                TO ACSPH1BO OF CACTUPAO
5245               MOVE ACUP-OLD-CUST-PHONE-NUM-1(10:4)
5246                                                TO ACSPH1CO OF CACTUPAO
5247               MOVE ACUP-OLD-CUST-PHONE-NUM-2(2:3)
5248                                                TO ACSPH2AO OF CACTUPAO
5249               MOVE ACUP-OLD-CUST-PHONE-NUM-2(6:3)
5250                                                TO ACSPH2BO OF CACTUPAO
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5251                         MOVE ACUP-OLD-CUST-PHONE-NUM-2(10:4)
5252                                                 TO ACSPH2CO OF CACTUPAO
5253                     MOVE ACUP-OLD-CUST-GOVT-ISSUED-ID
5254                                                 TO ACSGOVTO OF CACTUPAO
5255                     MOVE ACUP-OLD-CUST-EFT-ACCOUNT-ID
5256                                                 TO ACSEFTCO OF CACTUPAO
5257                     MOVE ACUP-OLD-CUST-PRI-HOLDER-IND
5258                                                 TO ACSPFLGO OF CACTUPAO
5259                 END-IF
5260                 .
5261 B
5262         3202-SHOW-ORIGINAL-VALUES-EXIT.
5263             EXIT
5264             .
5265         3203-SHOW-UPDATED-VALUES.
5266 B
5267             MOVE ACUP-NEW-ACTIVE-STATUS        TO ACSTTUSO OF CACTUPAO
5268 B
5269             IF FLG-CRED-LIMIT-ISVALID
5270                 MOVE ACUP-NEW-CREDIT-LIMIT-N     TO WS-EDIT-CURRENCY-9-2-F
5271                 MOVE WS-EDIT-CURRENCY-9-2-F      TO ACRDLIMO OF CACTUPAO
5272             ELSE
5273                 MOVE ACUP-NEW-CREDIT-LIMIT-X     TO ACRDLIMO OF CACTUPAO
5274             END-IF
5275 B
5276             IF FLG-CASH-CREDIT-LIMIT-ISVALID
5277                 MOVE ACUP-NEW-CASH-CREDIT-LIMIT-N
5278                                                 TO WS-EDIT-CURRENCY-9-2-F
5279                 MOVE WS-EDIT-CURRENCY-9-2-F      TO ACSHLIMO OF CACTUPAO
5280             ELSE
5281                 MOVE ACUP-NEW-CASH-CREDIT-LIMIT-X
5282                                                 TO ACSHLIMO OF CACTUPAO
5283             END-IF
5284 B
5285             IF FLG-CURR-BAL-ISVALID
5286                 MOVE ACUP-NEW-CURR-BAL-N         TO WS-EDIT-CURRENCY-9-2-F
5287                 MOVE WS-EDIT-CURRENCY-9-2-F      TO ACURBALO OF CACTUPAO
5288             ELSE
5289                 MOVE ACUP-NEW-CURR-BAL-X         TO ACURBALO OF CACTUPAO
5290             END-IF
5291 B
5292             IF FLG-CURR-CYC-CREDIT-ISVALID
5293                 MOVE ACUP-NEW-CURR-CYC-CREDIT-N  TO WS-EDIT-CURRENCY-9-2-F
5294                 MOVE WS-EDIT-CURRENCY-9-2-F      TO ACRCYCRO OF CACTUPAO
5295             ELSE
5296                 MOVE ACUP-NEW-CURR-CYC-CREDIT-X  TO ACRCYCRO OF CACTUPAO
5297             END-IF
5298 B
5299             IF FLG-CURR-CYC-DEBIT-ISVALID
5300                 MOVE ACUP-NEW-CURR-CYC-DEBIT-N   TO WS-EDIT-CURRENCY-9-2-F
5301                 MOVE WS-EDIT-CURRENCY-9-2-F      TO ACRCYDBO OF CACTUPAO
5302             ELSE
5303                 MOVE ACUP-NEW-CURR-CYC-DEBIT-X   TO ACRCYDBO OF CACTUPAO
5304             END-IF
5305 B
5306             MOVE ACUP-NEW-OPEN-YEAR             TO OPNYEARO OF CACTUPAO
5307             MOVE ACUP-NEW-OPEN-MON              TO OPNMONO  OF CACTUPAO
5308             MOVE ACUP-NEW-OPEN-DAY              TO OPNDAYO  OF CACTUPAO
5309 B
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5310                 MOVE ACUP-NEW-EXP-YEAR               TO EXPYEARO OF CACTUPAO
5311                 MOVE ACUP-NEW-EXP-MON                TO EXPMONO  OF CACTUPAO
5312                 MOVE ACUP-NEW-EXP-DAY                TO EXPDAYO  OF CACTUPAO
5313                 MOVE ACUP-NEW-REISSUE-YEAR           TO RISYEARO OF CACTUPAO
5314                 MOVE ACUP-NEW-REISSUE-MON            TO RISMONO  OF CACTUPAO
5315                 MOVE ACUP-NEW-REISSUE-DAY            TO RISDAYO  OF CACTUPAO
5316                 MOVE ACUP-NEW-GROUP-ID               TO AADDGRPO OF CACTUPAO
5317                 MOVE ACUP-NEW-CUST-ID-X              TO ACSTNUMO OF CACTUPAO
5318                 MOVE ACUP-NEW-CUST-SSN-1             TO ACTSSN1O OF CACTUPAO
5319                 MOVE ACUP-NEW-CUST-SSN-2             TO ACTSSN2O OF CACTUPAO
5320                 MOVE ACUP-NEW-CUST-SSN-3             TO ACTSSN3O OF CACTUPAO
5321                 MOVE ACUP-NEW-CUST-FICO-SCORE-X      TO ACSTFCOO OF CACTUPAO
5322                 MOVE ACUP-NEW-CUST-DOB-YEAR          TO DOBYEARO OF CACTUPAO
5323                 MOVE ACUP-NEW-CUST-DOB-MON           TO DOBMONO  OF CACTUPAO
5324                 MOVE ACUP-NEW-CUST-DOB-DAY           TO DOBDAYO  OF CACTUPAO
5325                 MOVE ACUP-NEW-CUST-FIRST-NAME        TO ACSFNAMO OF CACTUPAO
5326                 MOVE ACUP-NEW-CUST-MIDDLE-NAME       TO ACSMNAMO OF CACTUPAO
5327                 MOVE ACUP-NEW-CUST-LAST-NAME         TO ACSLNAMO OF CACTUPAO
5328                 MOVE ACUP-NEW-CUST-ADDR-LINE-1       TO ACSADL1O OF CACTUPAO
5329                 MOVE ACUP-NEW-CUST-ADDR-LINE-2       TO ACSADL2O OF CACTUPAO
5330                 MOVE ACUP-NEW-CUST-ADDR-LINE-3       TO ACSCITYO OF CACTUPAO
5331                 MOVE ACUP-NEW-CUST-ADDR-STATE-CD     TO ACSSTTEO OF CACTUPAO
5332                 MOVE ACUP-NEW-CUST-ADDR-ZIP          TO ACSZIPCO OF CACTUPAO
5333                 MOVE ACUP-NEW-CUST-ADDR-COUNTRY-CD   TO ACSCTRYO OF CACTUPAO
5334                 MOVE ACUP-NEW-CUST-PHONE-NUM-1A      TO ACSPH1AO OF CACTUPAO
5335                 MOVE ACUP-NEW-CUST-PHONE-NUM-1B      TO ACSPH1BO OF CACTUPAO
5336                 MOVE ACUP-NEW-CUST-PHONE-NUM-1C      TO ACSPH1CO OF CACTUPAO
5337                 MOVE ACUP-NEW-CUST-PHONE-NUM-2A      TO ACSPH2AO OF CACTUPAO
5338                 MOVE ACUP-NEW-CUST-PHONE-NUM-2B      TO ACSPH2BO OF CACTUPAO
5339                 MOVE ACUP-NEW-CUST-PHONE-NUM-2C      TO ACSPH2CO OF CACTUPAO
5340                 MOVE ACUP-NEW-CUST-GOVT-ISSUED-ID    TO ACSGOVTO OF CACTUPAO
5341                 MOVE ACUP-NEW-CUST-EFT-ACCOUNT-ID    TO ACSEFTCO OF CACTUPAO
5342                 MOVE ACUP-NEW-CUST-PRI-HOLDER-IND    TO ACSPFLGO OF CACTUPAO
5343 B
5344                 .
5345 B
5346         3203-SHOW-UPDATED-VALUES-EXIT.
5347             EXIT
5348             .
5349 B
5350         3250-SETUP-INFOMSG.
5351 C       *    SETUP INFORMATION MESSAGE
5352             EVALUATE TRUE
5353                 WHEN CDEMO-PGM-ENTER
5354                     SET  PROMPT-FOR-SEARCH-KEYS TO TRUE
5355                 WHEN ACUP-DETAILS-NOT-FETCHED
5356                     SET PROMPT-FOR-SEARCH-KEYS      TO TRUE
5357                 WHEN ACUP-SHOW-DETAILS
5358                     SET PROMPT-FOR-CHANGES          TO TRUE
5359                 WHEN ACUP-CHANGES-NOT-OK
5360                     SET PROMPT-FOR-CHANGES          TO TRUE
5361                 WHEN ACUP-CHANGES-OK-NOT-CONFIRMED
5362                     SET PROMPT-FOR-CONFIRMATION     TO TRUE
5363                 WHEN ACUP-CHANGES-OKAYED-AND-DONE
5364                     SET CONFIRM-UPDATE-SUCCESS      TO TRUE
5365 B
5366                 WHEN ACUP-CHANGES-OKAYED-LOCK-ERROR
5367                     SET INFORM-FAILURE              TO TRUE
5368                 WHEN ACUP-CHANGES-OKAYED-BUT-FAILED
```

```
5369                       SET INFORM-FAILURE              TO TRUE
5370                   WHEN WS-NO-INFO-MESSAGE
5371                       SET PROMPT-FOR-SEARCH-KEYS     TO TRUE
5372               END-EVALUATE
5373 B
5374               MOVE WS-INFO-MSG                       TO INFOMSGO OF CACTUPAO
5375 B
5376               MOVE WS-RETURN-MSG                     TO ERRMSGO OF CACTUPAO
5377               .
5378          3250-SETUP-INFOMSG-EXIT.
5379               EXIT
5380               .
5381          3300-SETUP-SCREEN-ATTRS.
5382 B
5383 C      *     PROTECT ALL FIELDS
5384               PERFORM 3310-PROTECT-ALL-ATTRS
5385                  THRU 3310-PROTECT-ALL-ATTRS-EXIT
5386 B
5387 C      *     UNPROTECT BASED ON CONTEXT
5388               EVALUATE TRUE
5389                   WHEN ACUP-DETAILS-NOT-FETCHED
5390 C      *            MAKE ACCOUNT ID EDITABLE
5391                       MOVE DFHBMFSE     TO ACCTSIDA OF CACTUPAI
5392                   WHEN  ACUP-SHOW-DETAILS
5393                   WHEN  ACUP-CHANGES-NOT-OK
5394                       PERFORM 3320-UNPROTECT-FEW-ATTRS
5395                          THRU 3320-UNPROTECT-FEW-ATTRS-EXIT
5396                   WHEN ACUP-CHANGES-OK-NOT-CONFIRMED
5397                   WHEN ACUP-CHANGES-OKAYED-AND-DONE
5398                       CONTINUE
5399                   WHEN OTHER
5400                       MOVE DFHBMFSE     TO ACCTSIDA OF CACTUPAI
5401               END-EVALUATE
5402 B
5403 C      *     POSITION CURSOR - ORDER BASED ON SCREEN LOCATION
5404               EVALUATE TRUE
5405                   WHEN FOUND-ACCOUNT-DATA
5406                   WHEN NO-CHANGES-DETECTED
5407                       MOVE -1            TO ACSTTUSL OF CACTUPAI
5408                   WHEN FLG-ACCTFILTER-NOT-OK
5409                   WHEN FLG-ACCTFILTER-BLANK
5410                       MOVE -1            TO ACCTSIDL OF CACTUPAI
5411 C      *     ACCOUNT STATUS
5412                   WHEN FLG-ACCT-STATUS-NOT-OK
5413                   WHEN FLG-ACCT-STATUS-BLANK
5414                       MOVE -1            TO ACSTTUSL OF CACTUPAI
5415 C      *     OPEN YEAR
5416                   WHEN FLG-OPEN-YEAR-NOT-OK
5417                   WHEN FLG-OPEN-YEAR-BLANK
5418                       MOVE -1            TO OPNYEARL OF CACTUPAI
5419 C      *     OPEN MONTH
5420                   WHEN FLG-OPEN-MONTH-NOT-OK
5421                   WHEN FLG-OPEN-MONTH-BLANK
5422                       MOVE -1            TO OPNMONL  OF CACTUPAI
5423 C      *     OPEN DAY
5424                   WHEN FLG-OPEN-DAY-NOT-OK
5425                   WHEN FLG-OPEN-DAY-BLANK
5426                       MOVE -1            TO OPNDAYL  OF CACTUPAI
5427 C      *     CREDIT LIMIT
```

```
5428                     WHEN FLG-CRED-LIMIT-NOT-OK
5429                     WHEN FLG-CRED-LIMIT-BLANK
5430                         MOVE -1              TO ACRDLIML OF CACTUPAI
5431 C        *    EXPIRY YEAR
5432                     WHEN FLG-EXPIRY-YEAR-NOT-OK
5433                     WHEN FLG-EXPIRY-YEAR-BLANK
5434                         MOVE -1              TO EXPYEARL OF CACTUPAI
5435 C        *    EXPIRY MONTH
5436                     WHEN FLG-EXPIRY-MONTH-NOT-OK
5437                     WHEN FLG-EXPIRY-MONTH-BLANK
5438                         MOVE -1              TO EXPMONL  OF CACTUPAI
5439 C        *    EXPIRY DAY
5440                     WHEN FLG-EXPIRY-DAY-NOT-OK
5441                     WHEN FLG-EXPIRY-DAY-BLANK
5442                         MOVE -1              TO EXPDAYL  OF CACTUPAI
5443 C        *    CASH CREDIT LIMIT
5444                     WHEN FLG-CASH-CREDIT-LIMIT-NOT-OK
5445                     WHEN FLG-CASH-CREDIT-LIMIT-BLANK
5446                         MOVE -1              TO ACSHLIML OF CACTUPAI
5447 C        *    REISSUE YEAR
5448                     WHEN FLG-REISSUE-YEAR-NOT-OK
5449                     WHEN FLG-REISSUE-YEAR-BLANK
5450                         MOVE -1              TO RISYEARL OF CACTUPAI
5451 C        *    EXPIRY MONTH
5452                     WHEN FLG-REISSUE-MONTH-NOT-OK
5453                     WHEN FLG-REISSUE-MONTH-BLANK
5454                         MOVE -1              TO RISMONL  OF CACTUPAI
5455 C        *    EXPIRY DAY
5456                     WHEN FLG-REISSUE-DAY-NOT-OK
5457                     WHEN FLG-REISSUE-DAY-BLANK
5458                         MOVE -1              TO RISDAYL  OF CACTUPAI
5459 B
5460 C        *    CURRENT BALANCE
5461                     WHEN FLG-CURR-BAL-NOT-OK
5462                     WHEN FLG-CURR-BAL-BLANK
5463                         MOVE -1              TO ACURBALL OF CACTUPAI
5464 C        *    CURRENT CYCLE CREDIT
5465                     WHEN FLG-CURR-CYC-CREDIT-NOT-OK
5466                     WHEN FLG-CURR-CYC-CREDIT-BLANK
5467                         MOVE -1              TO ACRCYCRL OF CACTUPAI
5468 C        *    CURRENT CYCLE DEBIT
5469                     WHEN FLG-CURR-CYC-DEBIT-NOT-OK
5470                     WHEN FLG-CURR-CYC-DEBIT-BLANK
5471                         MOVE -1              TO ACRCYDBL OF CACTUPAI
5472 C        *    SSN PART 1
5473                     WHEN FLG-EDIT-US-SSN-PART1-NOT-OK
5474                     WHEN FLG-EDIT-US-SSN-PART1-BLANK
5475                         MOVE -1              TO ACTSSN1L OF CACTUPAI
5476 C        *    SSN PART 2
5477                     WHEN FLG-EDIT-US-SSN-PART2-NOT-OK
5478                     WHEN FLG-EDIT-US-SSN-PART2-BLANK
5479                         MOVE -1              TO ACTSSN2L  OF CACTUPAI
5480 C        *    SSN PART 3
5481                     WHEN FLG-EDIT-US-SSN-PART3-NOT-OK
5482                     WHEN FLG-EDIT-US-SSN-PART3-BLANK
5483                         MOVE -1              TO ACTSSN3L  OF CACTUPAI
5484 C        *    DATE OF BIRTH YEAR
5485                     WHEN FLG-DT-OF-BIRTH-YEAR-NOT-OK
5486                     WHEN FLG-DT-OF-BIRTH-YEAR-BLANK
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5487                         MOVE -1              TO DOBYEARL OF CACTUPAI
5488 C       *     DATE OF BIRTH MONTH
5489                   WHEN FLG-DT-OF-BIRTH-MONTH-NOT-OK
5490                   WHEN FLG-DT-OF-BIRTH-MONTH-BLANK
5491                         MOVE -1              TO DOBMONL  OF CACTUPAI
5492 C       *     DATE OF BIRTH DAY
5493                   WHEN FLG-DT-OF-BIRTH-DAY-NOT-OK
5494                   WHEN FLG-DT-OF-BIRTH-DAY-BLANK
5495                         MOVE -1              TO DOBDAYL  OF CACTUPAI
5496 C       *     FICO SCORE
5497                   WHEN FLG-FICO-SCORE-NOT-OK
5498                   WHEN FLG-FICO-SCORE-BLANK
5499                         MOVE -1              TO ACSTFCOL OF CACTUPAI
5500 C       *     FIRST NAME
5501                   WHEN FLG-FIRST-NAME-NOT-OK
5502                   WHEN FLG-FIRST-NAME-BLANK
5503                         MOVE -1              TO ACSFNAML OF CACTUPAI
5504 C       *     MIDDLE NAME
5505                   WHEN FLG-MIDDLE-NAME-NOT-OK
5506                         MOVE -1              TO ACSMNAML OF CACTUPAI
5507 C       *     LAST NAME
5508                   WHEN FLG-LAST-NAME-NOT-OK
5509                   WHEN FLG-LAST-NAME-BLANK
5510                         MOVE -1              TO ACSLNAML OF CACTUPAI
5511 C       *     ADDRESS LINE 1
5512                   WHEN FLG-ADDRESS-LINE-1-NOT-OK
5513                   WHEN FLG-ADDRESS-LINE-1-BLANK
5514                         MOVE -1              TO ACSADL1L OF CACTUPAI
5515 C       *     STATE (APPEARS NEXT TO LINE 2 ON SCREEN BEFORE CITY)
5516                   WHEN FLG-STATE-NOT-OK
5517                   WHEN FLG-STATE-BLANK
5518                         MOVE -1              TO ACSSTTEL OF CACTUPAI
5519 C       *     ADDRESS LINE 2 HAS NO EDITS
5520 C       *     ZIP CODE
5521                   WHEN FLG-ZIPCODE-NOT-OK
5522                   WHEN FLG-ZIPCODE-BLANK
5523                         MOVE -1              TO ACSZIPCL OF CACTUPAI
5524 C       *     ADDRESS LINE 3 (CITY)
5525                   WHEN FLG-CITY-NOT-OK
5526                   WHEN FLG-CITY-BLANK
5527                         MOVE -1              TO ACSCITYL OF CACTUPAI
5528 C       *     COUNTRY EDITS.
5529                   WHEN FLG-COUNTRY-NOT-OK
5530                   WHEN FLG-COUNTRY-BLANK
5531                         MOVE -1              TO ACSCTRYL OF CACTUPAI
5532 C       *     PHONE 1
5533                   WHEN FLG-PHONE-NUM-1A-NOT-OK
5534                   WHEN FLG-PHONE-NUM-1A-BLANK
5535                         MOVE -1              TO ACSPH1AL OF CACTUPAI
5536                   WHEN FLG-PHONE-NUM-1B-NOT-OK
5537                   WHEN FLG-PHONE-NUM-1B-BLANK
5538                         MOVE -1              TO ACSPH1BL OF CACTUPAI
5539                   WHEN FLG-PHONE-NUM-1C-NOT-OK
5540                   WHEN FLG-PHONE-NUM-1C-BLANK
5541                         MOVE -1              TO ACSPH1CL OF CACTUPAI
5542 C       *     PHONE 2
5543                   WHEN FLG-PHONE-NUM-2A-NOT-OK
5544                   WHEN FLG-PHONE-NUM-2A-BLANK
5545                         MOVE -1              TO ACSPH2AL OF CACTUPAI
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```
5546                  WHEN FLG-PHONE-NUM-2B-NOT-OK
5547                  WHEN FLG-PHONE-NUM-2B-BLANK
5548                      MOVE -1                TO ACSPH2BL OF CACTUPAI
5549                  WHEN FLG-PHONE-NUM-2C-NOT-OK
5550                  WHEN FLG-PHONE-NUM-2C-BLANK
5551                      MOVE -1                TO ACSPH2CL OF CACTUPAI
5552 C        *    EFT ACCOUNT ID
5553                  WHEN FLG-EFT-ACCOUNT-ID-NOT-OK
5554                  WHEN FLG-EFT-ACCOUNT-ID-BLANK
5555                      MOVE -1                TO ACSEFTCL OF CACTUPAI
5556 C        *    PRIMARY CARD HOLDER
5557                  WHEN FLG-PRI-CARDHOLDER-NOT-OK
5558                  WHEN FLG-PRI-CARDHOLDER-BLANK
5559                      MOVE -1                TO ACSPFLGL OF CACTUPAI
5560                  WHEN OTHER
5561                      MOVE -1                TO ACCTSIDL OF CACTUPAI
5562                END-EVALUATE
5563 B
5564 B
5565 C        *    SETUP COLOR
5566              IF CDEMO-LAST-MAPSET   EQUAL LIT-CCLISTMAPSET
5567                  MOVE DFHDFCOL          TO ACCTSIDC OF CACTUPAO
5568              END-IF
5569 B
5570 C        *    ACCOUNT FILTER
5571              IF FLG-ACCTFILTER-NOT-OK
5572                  MOVE DFHRED            TO ACCTSIDC OF CACTUPAO
5573              END-IF
5574 B
5575              IF  FLG-ACCTFILTER-BLANK
5576              AND CDEMO-PGM-REENTER
5577                  MOVE '*'               TO ACCTSIDO OF CACTUPAO
5578                  MOVE DFHRED            TO ACCTSIDC OF CACTUPAO
5579              END-IF
5580 B
5581              IF ACUP-DETAILS-NOT-FETCHED
5582              OR FLG-ACCTFILTER-BLANK
5583              OR FLG-ACCTFILTER-NOT-OK
5584                  GO TO 3300-SETUP-SCREEN-ATTRS-EXIT
5585              ELSE
5586                  CONTINUE
5587              END-IF
5588 B
5589 C        ********************************************************************
5590 C        *    USING COPY REPLACING TO SET ATTRIBS FOR REMAINING VARS
5591 C        *    WRITE SPECIFIC CODE ONLY IF RULES DIFFER
5592 C        ********************************************************************
5593 C        *    IF (FLG-ACCT-STATUS-NOT-OK
5594 C        *    OR  FLG-ACCT-STATUS-BLANK)
5595 C        *    AND CDEMO-PGM-REENTER
5596 C        *        MOVE DFHRED                TO ACSTTUSC OF CACTUPAO
5597 C        *        IF  FLG-ACCT-STATUS-BLANK
5598 C        *            MOVE '*'               TO ACSTTUSO OF CACTUPAO
5599 C        *        END-IF
5600 C        *    END-IF
5601 B
5602 C        *    ACCOUNT STATUS
5603 C        *COPY CSSETATY REPLACING
5604 C        ********************************************************************
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5619 C      ********************************************************************
5620 C      *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
5621            IF (FLG-(TESTVAR1)-NOT-OK
5622            OR  FLG-(TESTVAR1)-BLANK)
5623            AND CDEMO-PGM-REENTER
5624                MOVE DFHRED           TO
5625                    (SCRNVAR2)C OF (MAPNAME3)O
5626                IF  FLG-(TESTVAR1)-BLANK
5627                    MOVE '*'          TO
5628                    (SCRNVAR2)O OF (MAPNAME3)O
5629                END-IF
5630            END-IF
5631 C      *
5632 C      * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
5633 C      *
5634            ==(TESTVAR1)== BY ==ACCT-STATUS==
5635            ==(SCRNVAR2)== BY ==ACSTTUS==
5636            ==(MAPNAME3)== BY ==CACTUPA== .
5637 B
5638 C      *    OPEN YEAR
5639 C      *COPY CSSETATY REPLACING
5640 C      ********************************************************************
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5655 C      ********************************************************************
5656 C      *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
5657            IF (FLG-(TESTVAR1)-NOT-OK
5658            OR  FLG-(TESTVAR1)-BLANK)
5659            AND CDEMO-PGM-REENTER
5660                MOVE DFHRED           TO
5661                    (SCRNVAR2)C OF (MAPNAME3)O
5662                IF  FLG-(TESTVAR1)-BLANK
5663                    MOVE '*'          TO
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5664                    (SCRNVAR2)O OF (MAPNAME3)O
5665                 END-IF
5666              END-IF
5667 C        *
5668 C        * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
5669 C        *
5670                 ==(TESTVAR1)== BY ==OPEN-YEAR==
5671                 ==(SCRNVAR2)== BY ==OPNYEAR==
5672                 ==(MAPNAME3)== BY ==CACTUPA== .
5673 B
5674 C        *    OPEN MONTH
5675 C        *COPY CSSETATY REPLACING
5676 C        *****************************************************************
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5691 C        *****************************************************************
5692 C        *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
5693              IF (FLG-(TESTVAR1)-NOT-OK
5694              OR  FLG-(TESTVAR1)-BLANK)
5695              AND CDEMO-PGM-REENTER
5696                 MOVE DFHRED         TO
5697                    (SCRNVAR2)C OF (MAPNAME3)O
5698                 IF  FLG-(TESTVAR1)-BLANK
5699                    MOVE '*'          TO
5700                    (SCRNVAR2)O OF (MAPNAME3)O
5701                 END-IF
5702              END-IF
5703 C        *
5704 C        * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
5705 C        *
5706                 ==(TESTVAR1)== BY ==OPEN-MONTH==
5707                 ==(SCRNVAR2)== BY ==OPNMON==
5708                 ==(MAPNAME3)== BY ==CACTUPA== .
5709 B
5710 C        *    OPEN DAY
5711 C        *COPY CSSETATY REPLACING
5712 C        *****************************************************************
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5727 C       *****************************************************************
5728 C       *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
5729              IF (FLG-(TESTVAR1)-NOT-OK
5730              OR  FLG-(TESTVAR1)-BLANK)
5731              AND CDEMO-PGM-REENTER
5732                  MOVE DFHRED            TO
5733                      (SCRNVAR2)C OF (MAPNAME3)O
5734                  IF  FLG-(TESTVAR1)-BLANK
5735                      MOVE '*'            TO
5736                      (SCRNVAR2)O OF (MAPNAME3)O
5737                  END-IF
5738              END-IF
5739 C       *
5740 C       * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
5741 C       *
5742              ==(TESTVAR1)== BY ==OPEN-DAY==
5743              ==(SCRNVAR2)== BY ==OPNDAY==
5744              ==(MAPNAME3)== BY ==CACTUPA== .
5745 B
5746 C       *    CREDIT LIMIT
5747 C       *COPY CSSETATY REPLACING
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5763 C       *****************************************************************
5764 C       *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
5765              IF (FLG-(TESTVAR1)-NOT-OK
5766              OR  FLG-(TESTVAR1)-BLANK)
5767              AND CDEMO-PGM-REENTER
5768                  MOVE DFHRED            TO
5769                      (SCRNVAR2)C OF (MAPNAME3)O
5770                  IF  FLG-(TESTVAR1)-BLANK
5771                      MOVE '*'            TO
5772                      (SCRNVAR2)O OF (MAPNAME3)O
5773                  END-IF
5774              END-IF
5775 C       *
5776 C       * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
5777 C       *
5778              ==(TESTVAR1)== BY ==CRED-LIMIT==
5779              ==(SCRNVAR2)== BY ==ACRDLIM==
5780              ==(MAPNAME3)== BY ==CACTUPA== .
5781 B
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5782 C      *    EXPIRY YEAR
5783 C     *COPY CSSETATY REPLACING
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5799 C     ******************************************************************
5800 C     *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
5801           IF (FLG-(TESTVAR1)-NOT-OK
5802           OR  FLG-(TESTVAR1)-BLANK)
5803           AND CDEMO-PGM-REENTER
5804               MOVE DFHRED          TO
5805                   (SCRNVAR2)C OF (MAPNAME3)O
5806           IF  FLG-(TESTVAR1)-BLANK
5807               MOVE '*'             TO
5808                   (SCRNVAR2)O OF (MAPNAME3)O
5809           END-IF
5810           END-IF
5811 C     *
5812 C     * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
5813 C     *
5814               ==(TESTVAR1)== BY ==EXPIRY-YEAR==
5815               ==(SCRNVAR2)== BY ==EXPYEAR==
5816               ==(MAPNAME3)== BY ==CACTUPA== .
5817 B
5818 C     *    EXPIRY MONTH
5819 C     *COPY CSSETATY REPLACING
5820 C     ******************************************************************
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5835 C     ******************************************************************
5836 C     *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
5837           IF (FLG-(TESTVAR1)-NOT-OK
5838           OR  FLG-(TESTVAR1)-BLANK)
5839           AND CDEMO-PGM-REENTER
5840               MOVE DFHRED          TO
```

```
5841                     (SCRNVAR2)C OF (MAPNAME3)O
5842                 IF  FLG-(TESTVAR1)-BLANK
5843                     MOVE '*'          TO
5844                         (SCRNVAR2)O OF (MAPNAME3)O
5845                 END-IF
5846             END-IF
5847 C       *
5848 C       * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
5849 C       *
5850                 ==(TESTVAR1)== BY ==EXPIRY-MONTH==
5851                 ==(SCRNVAR2)== BY ==EXPMON==
5852                 ==(MAPNAME3)== BY ==CACTUPA== .
5853 B
5854 C       *    EXPIRY DAY
5855 C       *COPY CSSETATY REPLACING
5856 C       ****************************************************************
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5871 C       ****************************************************************
5872 C       *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
5873             IF (FLG-(TESTVAR1)-NOT-OK
5874             OR  FLG-(TESTVAR1)-BLANK)
5875             AND CDEMO-PGM-REENTER
5876                 MOVE DFHRED          TO
5877                     (SCRNVAR2)C OF (MAPNAME3)O
5878                 IF  FLG-(TESTVAR1)-BLANK
5879                     MOVE '*'          TO
5880                         (SCRNVAR2)O OF (MAPNAME3)O
5881                 END-IF
5882             END-IF
5883 C       *
5884 C       * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
5885 C       *
5886                 ==(TESTVAR1)== BY ==EXPIRY-DAY==
5887                 ==(SCRNVAR2)== BY ==EXPDAY==
5888                 ==(MAPNAME3)== BY ==CACTUPA== .
5889 B
5890 C       *    CASH CREDIT LIMIT
5891 C       *COPY CSSETATY REPLACING
5892 C       ****************************************************************
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5907 C       * ******************************************************************
5908 C       *      SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
5909              IF (FLG-(TESTVAR1)-NOT-OK
5910              OR  FLG-(TESTVAR1)-BLANK)
5911              AND CDEMO-PGM-REENTER
5912                  MOVE DFHRED           TO
5913                      (SCRNVAR2)C OF (MAPNAME3)O
5914                  IF  FLG-(TESTVAR1)-BLANK
5915                      MOVE '*'          TO
5916                      (SCRNVAR2)O OF (MAPNAME3)O
5917                  END-IF
5918              END-IF
5919 C       *
5920 C       * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
5921 C       *
5922                  ==(TESTVAR1)== BY ==CASH-CREDIT-LIMIT==
5923                  ==(SCRNVAR2)== BY ==ACSHLIM==
5924                  ==(MAPNAME3)== BY ==CACTUPA== .
5925 B
5926 C       *      REISSUE YEAR
5927 C       *COPY CSSETATY REPLACING
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5943 C       * ******************************************************************
5944 C       *      SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
5945              IF (FLG-(TESTVAR1)-NOT-OK
5946              OR  FLG-(TESTVAR1)-BLANK)
5947              AND CDEMO-PGM-REENTER
5948                  MOVE DFHRED           TO
5949                      (SCRNVAR2)C OF (MAPNAME3)O
5950                  IF  FLG-(TESTVAR1)-BLANK
5951                      MOVE '*'          TO
5952                      (SCRNVAR2)O OF (MAPNAME3)O
5953                  END-IF
5954              END-IF
5955 C       *
5956 C       * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
5957 C       *
5958                  ==(TESTVAR1)== BY ==REISSUE-YEAR==
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5959              ==(SCRNVAR2)== BY ==RISYEAR==
5960              ==(MAPNAME3)== BY ==CACTUPA== .
5961 B
5962 C      *    REISSUE MONTH
5963 C      *COPY CSSETATY REPLACING
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5979 C      *******************************************************************
5980 C      *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
5981              IF (FLG-(TESTVAR1)-NOT-OK
5982              OR  FLG-(TESTVAR1)-BLANK)
5983              AND CDEMO-PGM-REENTER
5984                 MOVE DFHRED           TO
5985                      (SCRNVAR2)C OF (MAPNAME3)O
5986              IF  FLG-(TESTVAR1)-BLANK
5987                 MOVE '*'              TO
5988                      (SCRNVAR2)O OF (MAPNAME3)O
5989              END-IF
5990              END-IF
5991 C      *
5992 C      * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
5993 C      *
5994              ==(TESTVAR1)== BY ==REISSUE-MONTH==
5995              ==(SCRNVAR2)== BY ==RISMON==
5996              ==(MAPNAME3)== BY ==CACTUPA== .
5997 B
5998 C      *    REISSUE DAY
5999 C      *COPY CSSETATY REPLACING
6000 C      *******************************************************************
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6015 C      *******************************************************************
6016 C      *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
6017              IF (FLG-(TESTVAR1)-NOT-OK
```

```
6018              OR  FLG-(TESTVAR1)-BLANK)
6019              AND CDEMO-PGM-REENTER
6020                  MOVE DFHRED           TO
6021                      (SCRNVAR2)C OF (MAPNAME3)O
6022                  IF  FLG-(TESTVAR1)-BLANK
6023                      MOVE '*'            TO
6024                          (SCRNVAR2)O OF (MAPNAME3)O
6025                  END-IF
6026              END-IF
6027 C        *
6028 C        * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
6029 C        *
6030                  ==(TESTVAR1)== BY ==REISSUE-DAY==
6031                  ==(SCRNVAR2)== BY ==RISDAY==
6032                  ==(MAPNAME3)== BY ==CACTUPA== .
6033 B
6034 C        *    CURRENT BALANCE
6035 C       *COPY CSSETATY REPLACING
6036 C        ********************************************************************
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6051 C        ********************************************************************
6052 C        *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
6053              IF (FLG-(TESTVAR1)-NOT-OK
6054              OR  FLG-(TESTVAR1)-BLANK)
6055              AND CDEMO-PGM-REENTER
6056                  MOVE DFHRED           TO
6057                      (SCRNVAR2)C OF (MAPNAME3)O
6058                  IF  FLG-(TESTVAR1)-BLANK
6059                      MOVE '*'            TO
6060                          (SCRNVAR2)O OF (MAPNAME3)O
6061                  END-IF
6062              END-IF
6063 C        *
6064 C        * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
6065 C        *
6066                  ==(TESTVAR1)== BY ==CURR-BAL==
6067                  ==(SCRNVAR2)== BY ==ACURBAL==
6068                  ==(MAPNAME3)== BY ==CACTUPA== .
6069 B
6070 C        *    CURRENT CYCLE CREDIT
6071 C       *COPY CSSETATY REPLACING
6072 C        ********************************************************************
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6087 C      ********************************************************************
6088 C      *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
6089            IF (FLG-(TESTVAR1)-NOT-OK
6090            OR  FLG-(TESTVAR1)-BLANK)
6091            AND CDEMO-PGM-REENTER
6092                MOVE DFHRED          TO
6093                    (SCRNVAR2)C OF (MAPNAME3)O
6094                IF  FLG-(TESTVAR1)-BLANK
6095                    MOVE '*'         TO
6096                    (SCRNVAR2)O OF (MAPNAME3)O
6097                END-IF
6098            END-IF
6099 C      *
6100 C      * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
6101 C      *
6102            ==(TESTVAR1)== BY ==CURR-CYC-CREDIT==
6103            ==(SCRNVAR2)== BY ==ACRCYCR==
6104            ==(MAPNAME3)== BY ==CACTUPA== .
6105 B
6106 C      *    CURRENT CYCLE DEBIT
6107 C      *COPY CSSETATY REPLACING
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6123 C      ********************************************************************
6124 C      *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
6125            IF (FLG-(TESTVAR1)-NOT-OK
6126            OR  FLG-(TESTVAR1)-BLANK)
6127            AND CDEMO-PGM-REENTER
6128                MOVE DFHRED          TO
6129                    (SCRNVAR2)C OF (MAPNAME3)O
6130                IF  FLG-(TESTVAR1)-BLANK
6131                    MOVE '*'         TO
6132                    (SCRNVAR2)O OF (MAPNAME3)O
6133                END-IF
6134            END-IF
6135 C      *
```

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6136 C       *  VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
6137 C       *
6138             ==(TESTVAR1)== BY ==CURR-CYC-DEBIT==
6139             ==(SCRNVAR2)== BY ==ACRCYDB==
6140             ==(MAPNAME3)== BY ==CACTUPA== .
6141 B
6142 C       *    SSN PART 1
6143 C       *COPY CSSETATY REPLACING
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6159 C       ******************************************************************
6160 C       *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
6161             IF (FLG-(TESTVAR1)-NOT-OK
6162             OR  FLG-(TESTVAR1)-BLANK)
6163             AND CDEMO-PGM-REENTER
6164                MOVE DFHRED           TO
6165                   (SCRNVAR2)C OF (MAPNAME3)O
6166                IF  FLG-(TESTVAR1)-BLANK
6167                   MOVE '*'          TO
6168                   (SCRNVAR2)O OF (MAPNAME3)O
6169                END-IF
6170             END-IF
6171 C       *
6172 C       *  VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
6173 C       *
6174             ==(TESTVAR1)== BY ==EDIT-US-SSN-PART1==
6175             ==(SCRNVAR2)== BY ==ACTSSN1==
6176             ==(MAPNAME3)== BY ==CACTUPA== .
6177 B
6178 C       *    SSN PART 2
6179 C       *COPY CSSETATY REPLACING
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6195 C        ********************************************************************
6196 C        *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
6197              IF (FLG-(TESTVAR1)-NOT-OK
6198              OR  FLG-(TESTVAR1)-BLANK)
6199              AND CDEMO-PGM-REENTER
6200                 MOVE DFHRED              TO
6201                    (SCRNVAR2)C OF (MAPNAME3)O
6202                 IF  FLG-(TESTVAR1)-BLANK
6203                    MOVE '*'              TO
6204                       (SCRNVAR2)O OF (MAPNAME3)O
6205                 END-IF
6206              END-IF
6207 C        *
6208 C        * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
6209 C        *
6210                 ==(TESTVAR1)== BY ==EDIT-US-SSN-PART2==
6211                 ==(SCRNVAR2)== BY ==ACTSSN2==
6212                 ==(MAPNAME3)== BY ==CACTUPA== .
6213 B
6214 C        *    SSN PART 3
6215 C        *COPY CSSETATY REPLACING
6216 C        ********************************************************************
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6231 C        ********************************************************************
6232 C        *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
6233              IF (FLG-(TESTVAR1)-NOT-OK
6234              OR  FLG-(TESTVAR1)-BLANK)
6235              AND CDEMO-PGM-REENTER
6236                 MOVE DFHRED              TO
6237                    (SCRNVAR2)C OF (MAPNAME3)O
6238                 IF  FLG-(TESTVAR1)-BLANK
6239                    MOVE '*'              TO
6240                       (SCRNVAR2)O OF (MAPNAME3)O
6241                 END-IF
6242              END-IF
6243 C        *
6244 C        * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
6245 C        *
6246                 ==(TESTVAR1)== BY ==EDIT-US-SSN-PART3==
6247                 ==(SCRNVAR2)== BY ==ACTSSN3==
6248                 ==(MAPNAME3)== BY ==CACTUPA== .
6249 B
6250 C        *    DATE OF BIRTH YEAR
6251 C        *COPY CSSETATY REPLACING
6252 C        ********************************************************************
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6267 C       ********************************************************************
6268 C       *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
6269             IF (FLG-(TESTVAR1)-NOT-OK
6270             OR  FLG-(TESTVAR1)-BLANK)
6271             AND CDEMO-PGM-REENTER
6272                MOVE DFHRED           TO
6273                    (SCRNVAR2)C OF (MAPNAME3)O
6274                IF  FLG-(TESTVAR1)-BLANK
6275                    MOVE '*'          TO
6276                    (SCRNVAR2)O OF (MAPNAME3)O
6277                END-IF
6278             END-IF
6279 C       *
6280 C       * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
6281 C       *
6282             ==(TESTVAR1)== BY ==DT-OF-BIRTH-YEAR==
6283             ==(SCRNVAR2)== BY ==DOBYEAR==
6284             ==(MAPNAME3)== BY ==CACTUPA== .
6285 B
6286 C       *    DATE OF BIRTH MONTH
6287 C       *COPY CSSETATY REPLACING
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6303 C       ********************************************************************
6304 C       *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
6305             IF (FLG-(TESTVAR1)-NOT-OK
6306             OR  FLG-(TESTVAR1)-BLANK)
6307             AND CDEMO-PGM-REENTER
6308                MOVE DFHRED           TO
6309                    (SCRNVAR2)C OF (MAPNAME3)O
6310                IF  FLG-(TESTVAR1)-BLANK
6311                    MOVE '*'          TO
6312                    (SCRNVAR2)O OF (MAPNAME3)O
```

```
6313                    END-IF
6314                END-IF
6315 C        *
6316 C        * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
6317 C        *
6318                    ==(TESTVAR1)== BY ==DT-OF-BIRTH-MONTH==
6319                    ==(SCRNVAR2)== BY ==DOBMON==
6320                    ==(MAPNAME3)== BY ==CACTUPA== .
6321 B
6322 C        *    DATE OF BIRTH DAY
6323 C        *COPY CSSETATY REPLACING
6324 C        ****************************************************************
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6339 C        ****************************************************************
6340 C        *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
6341            IF (FLG-(TESTVAR1)-NOT-OK
6342            OR  FLG-(TESTVAR1)-BLANK)
6343            AND CDEMO-PGM-REENTER
6344                MOVE DFHRED            TO
6345                    (SCRNVAR2)C OF (MAPNAME3)O
6346                IF  FLG-(TESTVAR1)-BLANK
6347                    MOVE '*'           TO
6348                        (SCRNVAR2)O OF (MAPNAME3)O
6349                END-IF
6350            END-IF
6351 C        *
6352 C        * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
6353 C        *
6354                    ==(TESTVAR1)== BY ==DT-OF-BIRTH-DAY==
6355                    ==(SCRNVAR2)== BY ==DOBDAY==
6356                    ==(MAPNAME3)== BY ==CACTUPA== .
6357 B
6358 C        *    FICO SCORE
6359 C        *COPY CSSETATY REPLACING
6360 C        ****************************************************************
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6375 C        ******************************************************************
6376 C        *     SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
6377              IF (FLG-(TESTVAR1)-NOT-OK
6378              OR  FLG-(TESTVAR1)-BLANK)
6379              AND CDEMO-PGM-REENTER
6380                  MOVE DFHRED            TO
6381                      (SCRNVAR2)C OF (MAPNAME3)O
6382                  IF  FLG-(TESTVAR1)-BLANK
6383                      MOVE '*'           TO
6384                          (SCRNVAR2)O OF (MAPNAME3)O
6385                  END-IF
6386              END-IF
6387 C        *
6388 C        * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
6389 C        *
6390                  ==(TESTVAR1)== BY ==FICO-SCORE==
6391                  ==(SCRNVAR2)== BY ==ACSTFCO==
6392                  ==(MAPNAME3)== BY ==CACTUPA== .
6393 B
6394 C        *     FIRST NAME
6395 C        *COPY CSSETATY REPLACING
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6411 C        ******************************************************************
6412 C        *     SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
6413              IF (FLG-(TESTVAR1)-NOT-OK
6414              OR  FLG-(TESTVAR1)-BLANK)
6415              AND CDEMO-PGM-REENTER
6416                  MOVE DFHRED            TO
6417                      (SCRNVAR2)C OF (MAPNAME3)O
6418                  IF  FLG-(TESTVAR1)-BLANK
6419                      MOVE '*'           TO
6420                          (SCRNVAR2)O OF (MAPNAME3)O
6421                  END-IF
6422              END-IF
6423 C        *
6424 C        * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
6425 C        *
6426                  ==(TESTVAR1)== BY ==FIRST-NAME==
6427                  ==(SCRNVAR2)== BY ==ACSFNAM==
6428                  ==(MAPNAME3)== BY ==CACTUPA== .
6429 B
6430 C        *     MIDDLE NAME (NO EDITS CODED)
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6447 C      ****************************************************************
6448 C      *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
6449              IF (FLG-(TESTVAR1)-NOT-OK
6450              OR  FLG-(TESTVAR1)-BLANK)
6451              AND CDEMO-PGM-REENTER
6452                 MOVE DFHRED           TO
6453                     (SCRNVAR2)C OF (MAPNAME3)O
6454                 IF  FLG-(TESTVAR1)-BLANK
6455                     MOVE '*'          TO
6456                     (SCRNVAR2)O OF (MAPNAME3)O
6457                 END-IF
6458              END-IF
6459 C      *
6460 C      * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
6461 C      *
6462              ==(TESTVAR1)== BY ==MIDDLE-NAME==
6463              ==(SCRNVAR2)== BY ==ACSMNAM==
6464              ==(MAPNAME3)== BY ==CACTUPA== .
6465 B
6466 C      *    LAST NAME
6467 C      *COPY CSSETATY REPLACING
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6483 C      ****************************************************************
6484 C      *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
6485              IF (FLG-(TESTVAR1)-NOT-OK
6486              OR  FLG-(TESTVAR1)-BLANK)
6487              AND CDEMO-PGM-REENTER
6488                 MOVE DFHRED           TO
6489                     (SCRNVAR2)C OF (MAPNAME3)O
```

```
6490              IF  FLG-(TESTVAR1)-BLANK
6491              MOVE '*'            TO
6492                  (SCRNVAR2)O OF (MAPNAME3)O
6493              END-IF
6494          END-IF
6495 C       *
6496 C       * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
6497 C       *
6498              ==(TESTVAR1)== BY ==LAST-NAME==
6499              ==(SCRNVAR2)== BY ==ACSLNAM==
6500              ==(MAPNAME3)== BY ==CACTUPA== .
6501 B
6502 C       *    ADDRESS LINE 1
6503 C       *COPY CSSETATY REPLACING
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6519 C       ******************************************************************
6520 C       *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
6521              IF (FLG-(TESTVAR1)-NOT-OK
6522              OR  FLG-(TESTVAR1)-BLANK)
6523              AND CDEMO-PGM-REENTER
6524                  MOVE DFHRED            TO
6525                      (SCRNVAR2)C OF (MAPNAME3)O
6526              IF  FLG-(TESTVAR1)-BLANK
6527                  MOVE '*'            TO
6528                      (SCRNVAR2)O OF (MAPNAME3)O
6529              END-IF
6530          END-IF
6531 C       *
6532 C       * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
6533 C       *
6534              ==(TESTVAR1)== BY ==ADDRESS-LINE-1==
6535              ==(SCRNVAR2)== BY ==ACSADL1==
6536              ==(MAPNAME3)== BY ==CACTUPA== .
6537 B
6538 C       *    STATE
6539 C       *COPY CSSETATY REPLACING
6540 C       ******************************************************************
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6555 C        * ****************************************************************
6556 C        *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
6557               IF (FLG-(TESTVAR1)-NOT-OK
6558               OR  FLG-(TESTVAR1)-BLANK)
6559               AND CDEMO-PGM-REENTER
6560                   MOVE DFHRED           TO
6561                       (SCRNVAR2)C OF (MAPNAME3)O
6562               IF  FLG-(TESTVAR1)-BLANK
6563                   MOVE '*'              TO
6564                       (SCRNVAR2)O OF (MAPNAME3)O
6565               END-IF
6566               END-IF
6567 C        *
6568 C        * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
6569 C        *
6570                   ==(TESTVAR1)== BY ==STATE==
6571                   ==(SCRNVAR2)== BY ==ACSSTTE==
6572                   ==(MAPNAME3)== BY ==CACTUPA== .
6573 B
6574 C        *    ADDRESS LINE 2 (NO EDITS CODED AS YET)
6575 C        *COPY CSSETATY REPLACING
6576 C        * ****************************************************************
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6591 C        * ****************************************************************
6592 C        *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
6593               IF (FLG-(TESTVAR1)-NOT-OK
6594               OR  FLG-(TESTVAR1)-BLANK)
6595               AND CDEMO-PGM-REENTER
6596                   MOVE DFHRED           TO
6597                       (SCRNVAR2)C OF (MAPNAME3)O
6598               IF  FLG-(TESTVAR1)-BLANK
6599                   MOVE '*'              TO
6600                       (SCRNVAR2)O OF (MAPNAME3)O
6601               END-IF
6602               END-IF
6603 C        *
6604 C        * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
6605 C        *
6606                   ==(TESTVAR1)== BY ==ADDRESS-LINE-2==
6607                   ==(SCRNVAR2)== BY ==ACSADL2==
```

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6608              ==(MAPNAME3)== BY ==CACTUPA== .
6609 B
6610 C        *    STATE
6611 C        *COPY CSSETATY REPLACING
6612 C        *****************************************************************
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6627 C        *****************************************************************
6628 C        *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
6629              IF (FLG-(TESTVAR1)-NOT-OK
6630              OR  FLG-(TESTVAR1)-BLANK)
6631              AND CDEMO-PGM-REENTER
6632                 MOVE DFHRED          TO
6633                    (SCRNVAR2)C OF (MAPNAME3)O
6634              IF  FLG-(TESTVAR1)-BLANK
6635                 MOVE '*'             TO
6636                    (SCRNVAR2)O OF (MAPNAME3)O
6637              END-IF
6638              END-IF
6639 C        *
6640 C        * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
6641 C        *
6642              ==(TESTVAR1)== BY ==ZIPCODE==
6643              ==(SCRNVAR2)== BY ==ACSZIPC==
6644              ==(MAPNAME3)== BY ==CACTUPA== .
6645 B
6646 C        *    CITY
6647 C        *COPY CSSETATY REPLACING
6648 C        *****************************************************************
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6663 C        *****************************************************************
6664 C        *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
6665              IF (FLG-(TESTVAR1)-NOT-OK
6666              OR  FLG-(TESTVAR1)-BLANK)
```

```
6667              AND CDEMO-PGM-REENTER
6668                  MOVE DFHRED              TO
6669                      (SCRNVAR2)C OF (MAPNAME3)O
6670              IF  FLG-(TESTVAR1)-BLANK
6671                  MOVE '*'                TO
6672                      (SCRNVAR2)O OF (MAPNAME3)O
6673              END-IF
6674          END-IF
6675 C       *
6676 C       * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
6677 C       *
6678              ==(TESTVAR1)== BY ==CITY==
6679              ==(SCRNVAR2)== BY ==ACSCITY==
6680              ==(MAPNAME3)== BY ==CACTUPA== .
6681 B
6682 C       *    COUNTRY
6683 C       *COPY CSSETATY REPLACING
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6699 C       ******************************************************************
6700 C       *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
6701              IF (FLG-(TESTVAR1)-NOT-OK
6702              OR  FLG-(TESTVAR1)-BLANK)
6703              AND CDEMO-PGM-REENTER
6704                  MOVE DFHRED              TO
6705                      (SCRNVAR2)C OF (MAPNAME3)O
6706              IF  FLG-(TESTVAR1)-BLANK
6707                  MOVE '*'                TO
6708                      (SCRNVAR2)O OF (MAPNAME3)O
6709              END-IF
6710          END-IF
6711 C       *
6712 C       * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
6713 C       *
6714              ==(TESTVAR1)== BY ==COUNTRY==
6715              ==(SCRNVAR2)== BY ==ACSCTRY==
6716              ==(MAPNAME3)== BY ==CACTUPA== .
6717 B
6718 C       *    PHONE 1 AREA CODE
6719 C       *COPY CSSETATY REPLACING
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6735 C       ******************************************************************
6736 C       *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
6737             IF (FLG-(TESTVAR1)-NOT-OK
6738             OR  FLG-(TESTVAR1)-BLANK)
6739             AND CDEMO-PGM-REENTER
6740                 MOVE DFHRED           TO
6741                     (SCRNVAR2)C OF (MAPNAME3)O
6742                 IF  FLG-(TESTVAR1)-BLANK
6743                     MOVE '*'          TO
6744                         (SCRNVAR2)O OF (MAPNAME3)O
6745                 END-IF
6746             END-IF
6747 C       *
6748 C       * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
6749 C       *
6750                 ==(TESTVAR1)== BY ==PHONE-NUM-1A==
6751                 ==(SCRNVAR2)== BY ==ACSPH1A==
6752                 ==(MAPNAME3)== BY ==CACTUPA== .
6753 B
6754 C       *    PHONE 1 PREFIX
6755 C       *COPY CSSETATY REPLACING
6756 C       ******************************************************************
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6771 C       ******************************************************************
6772 C       *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
6773             IF (FLG-(TESTVAR1)-NOT-OK
6774             OR  FLG-(TESTVAR1)-BLANK)
6775             AND CDEMO-PGM-REENTER
6776                 MOVE DFHRED           TO
6777                     (SCRNVAR2)C OF (MAPNAME3)O
6778                 IF  FLG-(TESTVAR1)-BLANK
6779                     MOVE '*'          TO
6780                         (SCRNVAR2)O OF (MAPNAME3)O
6781                 END-IF
6782             END-IF
6783 C       *
6784 C       * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
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6785 C       *
6786              ==(TESTVAR1)== BY ==PHONE-NUM-1B==
6787              ==(SCRNVAR2)== BY ==ACSPH1B==
6788              ==(MAPNAME3)== BY ==CACTUPA== .
6789 C       *    PHONE 1 LINE NUMBER
6790 C      *COPY CSSETATY REPLACING
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6806 C       ****************************************************************
6807 C       *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
6808              IF (FLG-(TESTVAR1)-NOT-OK
6809              OR  FLG-(TESTVAR1)-BLANK)
6810              AND CDEMO-PGM-REENTER
6811                  MOVE DFHRED          TO
6812                     (SCRNVAR2)C OF (MAPNAME3)O
6813                  IF  FLG-(TESTVAR1)-BLANK
6814                     MOVE '*'          TO
6815                     (SCRNVAR2)O OF (MAPNAME3)O
6816                  END-IF
6817              END-IF
6818 C       *
6819 C       * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
6820 C       *
6821              ==(TESTVAR1)== BY ==PHONE-NUM-1C==
6822              ==(SCRNVAR2)== BY ==ACSPH1C==
6823              ==(MAPNAME3)== BY ==CACTUPA== .
6824 B
6825 C       *    PHONE 2 AREA CODE
6826 C      *COPY CSSETATY REPLACING
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6842 C       ****************************************************************
6843 C       *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
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```
6844              IF (FLG-(TESTVAR1)-NOT-OK
6845              OR  FLG-(TESTVAR1)-BLANK)
6846              AND CDEMO-PGM-REENTER
6847                 MOVE DFHRED            TO
6848                    (SCRNVAR2)C OF (MAPNAME3)O
6849                 IF  FLG-(TESTVAR1)-BLANK
6850                    MOVE '*'            TO
6851                       (SCRNVAR2)O OF (MAPNAME3)O
6852                 END-IF
6853              END-IF
6854 C       *
6855 C       * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
6856 C       *
6857                 ==(TESTVAR1)== BY ==PHONE-NUM-2A==
6858                 ==(SCRNVAR2)== BY ==ACSPH2A==
6859                 ==(MAPNAME3)== BY ==CACTUPA== .
6860 B
6861 C       *    PHONE 2 PREFIX
6862 C      *COPY CSSETATY REPLACING
6863 C       ****************************************************************
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6878 C       ****************************************************************
6879 C       *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
6880              IF (FLG-(TESTVAR1)-NOT-OK
6881              OR  FLG-(TESTVAR1)-BLANK)
6882              AND CDEMO-PGM-REENTER
6883                 MOVE DFHRED            TO
6884                    (SCRNVAR2)C OF (MAPNAME3)O
6885                 IF  FLG-(TESTVAR1)-BLANK
6886                    MOVE '*'            TO
6887                       (SCRNVAR2)O OF (MAPNAME3)O
6888                 END-IF
6889              END-IF
6890 C       *
6891 C       * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
6892 C       *
6893                 ==(TESTVAR1)== BY ==PHONE-NUM-2B==
6894                 ==(SCRNVAR2)== BY ==ACSPH2B==
6895                 ==(MAPNAME3)== BY ==CACTUPA== .
6896 C       *    PHONE 2 LINE NUMBER
6897 C      *COPY CSSETATY REPLACING
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6913 C      ********************************************************************
6914 C      *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
6915            IF (FLG-(TESTVAR1)-NOT-OK
6916            OR  FLG-(TESTVAR1)-BLANK)
6917            AND CDEMO-PGM-REENTER
6918                MOVE DFHRED           TO
6919                    (SCRNVAR2)C OF (MAPNAME3)O
6920                IF  FLG-(TESTVAR1)-BLANK
6921                    MOVE '*'          TO
6922                    (SCRNVAR2)O OF (MAPNAME3)O
6923                END-IF
6924            END-IF
6925 C      *
6926 C      * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
6927 C      *
6928            ==(TESTVAR1)== BY ==PHONE-NUM-2C==
6929            ==(SCRNVAR2)== BY ==ACSPH2C==
6930            ==(MAPNAME3)== BY ==CACTUPA== .
6931 C      *    EFT ACCOUNT ID
6932 C      *COPY CSSETATY REPLACING
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6948 C      ********************************************************************
6949 C      *    SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
6950            IF (FLG-(TESTVAR1)-NOT-OK
6951            OR  FLG-(TESTVAR1)-BLANK)
6952            AND CDEMO-PGM-REENTER
6953                MOVE DFHRED           TO
6954                    (SCRNVAR2)C OF (MAPNAME3)O
6955                IF  FLG-(TESTVAR1)-BLANK
6956                    MOVE '*'          TO
6957                    (SCRNVAR2)O OF (MAPNAME3)O
6958                END-IF
6959            END-IF
6960 C      *
6961 C      * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
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6962 C       *
6963               ==(TESTVAR1)== BY ==PRI-CARDHOLDER==
6964               ==(SCRNVAR2)== BY ==ACSPFLG==
6965               ==(MAPNAME3)== BY ==CACTUPA== .
6966 C       *     PRIMARY CARD HOLDER
6967 C       *COPY CSSETATY REPLACING
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6983 C       *****************************************************************
6984 C       *     SET (TESTVAR1) TO RED IF IN ERROR AND * IF BLANKACSHLIM
6985               IF (FLG-(TESTVAR1)-NOT-OK
6986               OR  FLG-(TESTVAR1)-BLANK)
6987               AND CDEMO-PGM-REENTER
6988                  MOVE DFHRED              TO
6989                       (SCRNVAR2)C OF (MAPNAME3)O
6990                  IF  FLG-(TESTVAR1)-BLANK
6991                     MOVE '*'              TO
6992                         (SCRNVAR2)O OF (MAPNAME3)O
6993                  END-IF
6994               END-IF
6995 C       *
6996 C       * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:58 CDT
6997 C       *
6998               ==(TESTVAR1)== BY ==EFT-ACCOUNT-ID==
6999               ==(SCRNVAR2)== BY ==ACSEFTC==
7000               ==(MAPNAME3)== BY ==CACTUPA== .
7001                  .
7002            3300-SETUP-SCREEN-ATTRS-EXIT.
7003               EXIT
7004                  .
7005 B
7006            3310-PROTECT-ALL-ATTRS.
7007               MOVE DFHBMPRF            TO ACCTSIDA OF CACTUPAI
7008                                          ACSTTUSA OF CACTUPAI
7009 C       *ACCOUNT LIMITS
7010                                          ACRDLIMA OF CACTUPAI
7011                                          ACSHLIMA OF CACTUPAI
7012                                          ACURBALA OF CACTUPAI
7013                                          ACRCYCRA OF CACTUPAI
7014                                          ACRCYDBA OF CACTUPAI
7015 C       *ACCOUNT DATES
7016                                          OPNYEARA OF CACTUPAI
7017                                          OPNMONA  OF CACTUPAI
7018                                          OPNDAYA  OF CACTUPAI
7019                                          EXPYEARA OF CACTUPAI
7020                                          EXPMONA  OF CACTUPAI
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7021                                              EXPDAYA  OF CACTUPAI
7022                                              RISYEARA OF CACTUPAI
7023                                              RISMONA  OF CACTUPAI
7024                                              RISDAYA  OF CACTUPAI
7025 B
7026                                              AADDGRPA OF CACTUPAI
7027 C        *CUSTOMER DATA
7028                                              ACSTNUMA OF CACTUPAI
7029                                              ACTSSN1A OF CACTUPAI
7030                                              ACTSSN2A OF CACTUPAI
7031                                              ACTSSN3A OF CACTUPAI
7032                                              ACSTFCOA OF CACTUPAI
7033 C        *DATE OF BIRTH
7034                                              DOBYEARA OF CACTUPAI
7035                                              DOBMONA  OF CACTUPAI
7036                                              DOBDAYA  OF CACTUPAI
7037 B
7038                                              ACSFNAMA OF CACTUPAI
7039                                              ACSMNAMA OF CACTUPAI
7040                                              ACSLNAMA OF CACTUPAI
7041 C        *ADDRESS
7042                                              ACSADL1A OF CACTUPAI
7043                                              ACSADL2A OF CACTUPAI
7044                                              ACSCITYA OF CACTUPAI
7045                                              ACSSTTEA OF CACTUPAI
7046                                              ACSZIPCA OF CACTUPAI
7047                                              ACSCTRYA OF CACTUPAI
7048 B
7049                                              ACSPH1AA OF CACTUPAI
7050                                              ACSPH1BA OF CACTUPAI
7051                                              ACSPH1CA OF CACTUPAI
7052                                              ACSPH2AA OF CACTUPAI
7053                                              ACSPH2BA OF CACTUPAI
7054                                              ACSPH2CA OF CACTUPAI
7055 B
7056                                              ACSGOVTA OF CACTUPAI
7057                                              ACSEFTCA OF CACTUPAI
7058                                              ACSPFLGA OF CACTUPAI
7059                                              INFOMSGA OF CACTUPAI
7060                    .
7061          3310-PROTECT-ALL-ATTRS-EXIT.
7062              EXIT
7063                    .
7064 B
7065          3320-UNPROTECT-FEW-ATTRS.
7066 B
7067              MOVE DFHBMFSE              TO ACSTTUSA OF CACTUPAI
7068 C        *ACCOUNT LIMITS
7069                                              ACRDLIMA OF CACTUPAI
7070                                              ACSHLIMA OF CACTUPAI
7071                                              ACURBALA OF CACTUPAI
7072                                              ACRCYCRA OF CACTUPAI
7073                                              ACRCYDBA OF CACTUPAI
7074 C        *ACCOUNT DATES
7075 C        *OPEN DATE
7076                                              OPNYEARA OF CACTUPAI
7077                                              OPNMONA  OF CACTUPAI
7078                                              OPNDAYA  OF CACTUPAI
7079 C        *EXPIRY DATE
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7080                                              EXPYEARA OF CACTUPAI
7081                                              EXPMONA  OF CACTUPAI
7082                                              EXPDAYA  OF CACTUPAI
7083 C       *REISSUE DATE
7084                                              RISYEARA OF CACTUPAI
7085                                              RISMONA  OF CACTUPAI
7086                                              RISDAYA  OF CACTUPAI
7087 C       *DATE OF BIRTH
7088                                              DOBYEARA OF CACTUPAI
7089                                              DOBMONA  OF CACTUPAI
7090                                              DOBDAYA  OF CACTUPAI
7091 B
7092 B
7093 B
7094                                              AADDGRPA OF CACTUPAI
7095 C       *CUSTOMER DATA
7096             MOVE DFHBMPRF            TO   ACSTNUMA OF CACTUPAI
7097             MOVE DFHBMFSE            TO   ACTSSN1A OF CACTUPAI
7098                                              ACTSSN2A OF CACTUPAI
7099                                              ACTSSN3A OF CACTUPAI
7100                                              ACSTFCOA OF CACTUPAI
7101 B
7102                                              ACSFNAMA OF CACTUPAI
7103                                              ACSMNAMA OF CACTUPAI
7104                                              ACSLNAMA OF CACTUPAI
7105 C       *ADDRESS
7106                                              ACSADL1A OF CACTUPAI
7107                                              ACSADL2A OF CACTUPAI
7108                                              ACSCITYA OF CACTUPAI
7109                                              ACSSTTEA OF CACTUPAI
7110                                              ACSZIPCA OF CACTUPAI
7111 C       *SINCE MOST OF THE EDITS ARE USA SPECIFIC PROTECTED COUNTRY
7112             MOVE DFHBMPRF               TO ACSCTRYA OF CACTUPAI
7113 B
7114             MOVE DFHBMFSE               TO ACSPH1AA OF CACTUPAI
7115                                              ACSPH1BA OF CACTUPAI
7116                                              ACSPH1CA OF CACTUPAI
7117 B
7118             MOVE DFHBMFSE               TO ACSPH2AA OF CACTUPAI
7119                                              ACSPH2BA OF CACTUPAI
7120                                              ACSPH2CA OF CACTUPAI
7121 B
7122                                              ACSGOVTA OF CACTUPAI
7123                                              ACSEFTCA OF CACTUPAI
7124                                              ACSPFLGA OF CACTUPAI
7125             MOVE DFHBMPRF            TO INFOMSGA OF CACTUPAI
7126             .
7127          3320-UNPROTECT-FEW-ATTRS-EXIT.
7128             EXIT
7129             .
7130 B
7131          3390-SETUP-INFOMSG-ATTRS.
7132             IF  WS-NO-INFO-MESSAGE
7133                 MOVE DFHBMDAR         TO INFOMSGA OF CACTUPAI
7134             ELSE
7135                 MOVE DFHBMASB         TO INFOMSGA OF CACTUPAI
7136             END-IF
7137 B
7138             IF ACUP-CHANGES-MADE
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7139                    AND NOT ACUP-CHANGES-OKAYED-AND-DONE
7140                        MOVE DFHBMASB           TO FKEY12A  OF CACTUPAI
7141                    END-IF
7142 B
7143                    IF PROMPT-FOR-CONFIRMATION
7144                        MOVE DFHBMASB           TO FKEY05A  OF CACTUPAI
7145                        MOVE DFHBMASB           TO FKEY12A  OF CACTUPAI
7146                    END-IF
7147 B
7148                    .
7149            3390-SETUP-INFOMSG-ATTRS-EXIT.
7150                EXIT
7151                    .
7152 B
7153 B
7154            3400-SEND-SCREEN.
7155 B
7156                MOVE LIT-THISMAPSET        TO CCARD-NEXT-MAPSET
7157                MOVE LIT-THISMAP           TO CCARD-NEXT-MAP
7158 B
7159                EXEC CICS SEND MAP(CCARD-NEXT-MAP)
7160                               MAPSET(CCARD-NEXT-MAPSET)
7161                               FROM(CACTUPAO)
7162                               CURSOR
7163                               ERASE
7164                               FREEKB
7165                               RESP(WS-RESP-CD)
7166                END-EXEC
7167                    .
7168            3400-SEND-SCREEN-EXIT.
7169                EXIT
7170                    .
7171 B
7172 B
7173            9000-READ-ACCT.
7174 B
7175                INITIALIZE ACUP-OLD-DETAILS
7176 B
7177                SET  WS-NO-INFO-MESSAGE      TO TRUE
7178 B
7179                MOVE CC-ACCT-ID              TO ACUP-OLD-ACCT-ID
7180                                                WS-CARD-RID-ACCT-ID
7181 B
7182                PERFORM 9200-GETCARDXREF-BYACCT
7183                    THRU 9200-GETCARDXREF-BYACCT-EXIT
7184 B
7185                IF FLG-ACCTFILTER-NOT-OK
7186                    GO TO 9000-READ-ACCT-EXIT
7187                END-IF
7188 B
7189                PERFORM 9300-GETACCTDATA-BYACCT
7190                    THRU 9300-GETACCTDATA-BYACCT-EXIT
7191 B
7192                IF DID-NOT-FIND-ACCT-IN-ACCTDAT
7193                    GO TO 9000-READ-ACCT-EXIT
7194                END-IF
7195 B
7196                MOVE CDEMO-CUST-ID TO WS-CARD-RID-CUST-ID
7197 B
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7198                 PERFORM 9400-GETCUSTDATA-BYCUST
7199                     THRU 9400-GETCUSTDATA-BYCUST-EXIT
7200 B
7201                 IF DID-NOT-FIND-CUST-IN-CUSTDAT
7202                     GO TO 9000-READ-ACCT-EXIT
7203                 END-IF
7204 B
7205 B
7206 B
7207                 PERFORM 9500-STORE-FETCHED-DATA
7208                     THRU 9500-STORE-FETCHED-DATA-EXIT
7209                     .
7210 B
7211 B
7212         9000-READ-ACCT-EXIT.
7213             EXIT
7214             .
7215         9200-GETCARDXREF-BYACCT.
7216 B
7217 C      *    READ THE CARD FILE. ACCESS VIA ALTERNATE INDEX ACCTID
7218 C      *
7219             EXEC CICS READ
7220                 DATASET   (LIT-CARDXREFNAME-ACCT-PATH)
7221                 RIDFLD    (WS-CARD-RID-ACCT-ID-X)
7222                 KEYLENGTH (LENGTH OF WS-CARD-RID-ACCT-ID-X)
7223                 INTO      (CARD-XREF-RECORD)
7224                 LENGTH    (LENGTH OF CARD-XREF-RECORD)
7225                 RESP      (WS-RESP-CD)
7226                 RESP2     (WS-REAS-CD)
7227             END-EXEC
7228 B
7229             EVALUATE WS-RESP-CD
7230                 WHEN DFHRESP(NORMAL)
7231                     MOVE XREF-CUST-ID              TO CDEMO-CUST-ID
7232                     MOVE XREF-CARD-NUM             TO CDEMO-CARD-NUM
7233                 WHEN DFHRESP(NOTFND)
7234                     SET INPUT-ERROR               TO TRUE
7235                     SET FLG-ACCTFILTER-NOT-OK     TO TRUE
7236                     IF WS-RETURN-MSG-OFF
7237                       MOVE WS-RESP-CD             TO ERROR-RESP
7238                       MOVE WS-REAS-CD             TO ERROR-RESP2
7239                       STRING
7240 C                      'ACCOUNT:'
7241                        WS-CARD-RID-ACCT-ID-X
7242 C                      ' NOT FOUND IN'
7243 C                      ' CROSS REF FILE.  RESP:'
7244                        ERROR-RESP
7245 C                      ' REAS:'
7246                        ERROR-RESP2
7247                        DELIMITED BY SIZE
7248                        INTO WS-RETURN-MSG
7249                       END-STRING
7250                     END-IF
7251                 WHEN OTHER
7252                     SET INPUT-ERROR                 TO TRUE
7253                     SET FLG-ACCTFILTER-NOT-OK               TO TRUE
7254                     MOVE 'READ'                 TO ERROR-OPNAME
7255                     MOVE LIT-CARDXREFNAME-ACCT-PATH TO ERROR-FILE
7256                     MOVE WS-RESP-CD                 TO ERROR-RESP
```

```
7257                    MOVE WS-REAS-CD                    TO ERROR-RESP2
7258                    MOVE WS-FILE-ERROR-MESSAGE         TO WS-RETURN-MSG
7259 C      *                                                WS-LONG-MSG
7260 C      *           PERFORM SEND-LONG-TEXT
7261              END-EVALUATE
7262              .
7263          9200-GETCARDXREF-BYACCT-EXIT.
7264              EXIT
7265              .
7266          9300-GETACCTDATA-BYACCT.
7267 B
7268              EXEC CICS READ
7269                    DATASET   (LIT-ACCTFILENAME)
7270                    RIDFLD    (WS-CARD-RID-ACCT-ID-X)
7271                    KEYLENGTH (LENGTH OF WS-CARD-RID-ACCT-ID-X)
7272                    INTO      (ACCOUNT-RECORD)
7273                    LENGTH    (LENGTH OF ACCOUNT-RECORD)
7274                    RESP      (WS-RESP-CD)
7275                    RESP2     (WS-REAS-CD)
7276              END-EXEC
7277 B
7278              EVALUATE WS-RESP-CD
7279                  WHEN DFHRESP(NORMAL)
7280                      SET FOUND-ACCT-IN-MASTER      TO TRUE
7281                  WHEN DFHRESP(NOTFND)
7282                      SET INPUT-ERROR               TO TRUE
7283                      SET FLG-ACCTFILTER-NOT-OK     TO TRUE
7284 C      *           SET DID-NOT-FIND-ACCT-IN-ACCTDAT TO TRUE
7285                      IF WS-RETURN-MSG-OFF
7286                        MOVE WS-RESP-CD             TO ERROR-RESP
7287                        MOVE WS-REAS-CD             TO ERROR-RESP2
7288                         STRING
7289 C                    'ACCOUNT:'
7290                       WS-CARD-RID-ACCT-ID-X
7291 C                    ' NOT FOUND IN'
7292 C                    ' ACCT MASTER FILE.RESP:'
7293                         ERROR-RESP
7294 C                    ' REAS:'
7295                         ERROR-RESP2
7296                         DELIMITED BY SIZE
7297                         INTO WS-RETURN-MSG
7298                         END-STRING
7299                      END-IF
7300 C      *
7301                  WHEN OTHER
7302                      SET INPUT-ERROR               TO TRUE
7303                      SET FLG-ACCTFILTER-NOT-OK           TO TRUE
7304                      MOVE 'READ'               TO ERROR-OPNAME
7305                      MOVE LIT-ACCTFILENAME     TO ERROR-FILE
7306                      MOVE WS-RESP-CD           TO ERROR-RESP
7307                      MOVE WS-REAS-CD           TO ERROR-RESP2
7308                      MOVE WS-FILE-ERROR-MESSAGE TO WS-RETURN-MSG
7309 C      *                                          WS-LONG-MSG
7310 C      *           PERFORM SEND-LONG-TEXT
7311              END-EVALUATE
7312              .
7313          9300-GETACCTDATA-BYACCT-EXIT.
7314              EXIT
7315              .
```

```
7316 B
7317           9400-GETCUSTDATA-BYCUST.
7318               EXEC CICS READ
7319                   DATASET   (LIT-CUSTFILENAME)
7320                   RIDFLD    (WS-CARD-RID-CUST-ID-X)
7321                   KEYLENGTH (LENGTH OF WS-CARD-RID-CUST-ID-X)
7322                   INTO      (CUSTOMER-RECORD)
7323                   LENGTH    (LENGTH OF CUSTOMER-RECORD)
7324                   RESP      (WS-RESP-CD)
7325                   RESP2     (WS-REAS-CD)
7326               END-EXEC
7327 B
7328           EVALUATE WS-RESP-CD
7329               WHEN DFHRESP(NORMAL)
7330                   SET FOUND-CUST-IN-MASTER       TO TRUE
7331               WHEN DFHRESP(NOTFND)
7332                   SET INPUT-ERROR                TO TRUE
7333                   SET FLG-CUSTFILTER-NOT-OK      TO TRUE
7334 C       *         SET DID-NOT-FIND-CUST-IN-CUSTDAT TO TRUE
7335                   MOVE WS-RESP-CD                TO ERROR-RESP
7336                   MOVE WS-REAS-CD                TO ERROR-RESP2
7337                   IF WS-RETURN-MSG-OFF
7338                     STRING
7339 C                     'CUSTID:'
7340                       WS-CARD-RID-CUST-ID-X
7341 C                     ' NOT FOUND'
7342 C                     ' IN CUSTOMER MASTER.RESP: '
7343                       ERROR-RESP
7344 C                     ' REAS:'
7345                       ERROR-RESP2
7346                       DELIMITED BY SIZE
7347                       INTO WS-RETURN-MSG
7348                     END-STRING
7349                   END-IF
7350               WHEN OTHER
7351                   SET INPUT-ERROR                TO TRUE
7352                   SET FLG-CUSTFILTER-NOT-OK             TO TRUE
7353                   MOVE 'READ'                    TO ERROR-OPNAME
7354                   MOVE LIT-CUSTFILENAME          TO ERROR-FILE
7355                   MOVE WS-RESP-CD                TO ERROR-RESP
7356                   MOVE WS-REAS-CD                TO ERROR-RESP2
7357                   MOVE WS-FILE-ERROR-MESSAGE     TO WS-RETURN-MSG
7358 C       *                                          WS-LONG-MSG
7359 C       *         PERFORM SEND-LONG-TEXT
7360           END-EVALUATE
7361           .
7362        9400-GETCUSTDATA-BYCUST-EXIT.
7363           EXIT
7364           .
7365 B
7366           9500-STORE-FETCHED-DATA.
7367 B
7368 C       *   STORE CONTEXT IN COMMAREA
7369 C       *
7370           MOVE ACCT-ID                 TO CDEMO-ACCT-ID
7371           MOVE CUST-ID                 TO CDEMO-CUST-ID
7372           MOVE CUST-FIRST-NAME         TO CDEMO-CUST-FNAME
7373           MOVE CUST-MIDDLE-NAME        TO CDEMO-CUST-MNAME
7374           MOVE CUST-LAST-NAME          TO CDEMO-CUST-LNAME
```

```
7375              MOVE ACCT-ACTIVE-STATUS        TO CDEMO-ACCT-STATUS
7376              MOVE XREF-CARD-NUM             TO CDEMO-CARD-NUM
7377 B
7378              INITIALIZE ACUP-OLD-DETAILS
7379 C      ******************************************************************
7380 C      *    ACCOUNT MASTER DATA
7381 C      ******************************************************************
7382              MOVE ACCT-ID                   TO ACUP-OLD-ACCT-ID
7383 C      * ACTIVE STATUS
7384              MOVE ACCT-ACTIVE-STATUS        TO ACUP-OLD-ACTIVE-STATUS
7385 C      * CURRENT BALANCE
7386              MOVE ACCT-CURR-BAL             TO ACUP-OLD-CURR-BAL-N
7387 C      * CREDIT LIMIT
7388              MOVE ACCT-CREDIT-LIMIT         TO ACUP-OLD-CREDIT-LIMIT-N
7389 C      * CASH LIMIT
7390              MOVE ACCT-CASH-CREDIT-LIMIT    TO ACUP-OLD-CASH-CREDIT-LIMIT-N
7391 C      * CURRENT CYCLE CREDIT
7392              MOVE ACCT-CURR-CYC-CREDIT      TO ACUP-OLD-CURR-CYC-CREDIT-N
7393 C      * CURRENT CYCLE DEBIT
7394              MOVE ACCT-CURR-CYC-DEBIT       TO ACUP-OLD-CURR-CYC-DEBIT-N
7395 C      * OPEN DATE
7396 C      *    MOVE ACCT-OPEN-DATE            TO ACUP-OLD-OPEN-DATE
7397              MOVE ACCT-OPEN-DATE(1:4)       TO ACUP-OLD-OPEN-YEAR
7398              MOVE ACCT-OPEN-DATE(6:2)       TO ACUP-OLD-OPEN-MON
7399              MOVE ACCT-OPEN-DATE(9:2)       TO ACUP-OLD-OPEN-DAY
7400 C      * EXPIRY DATE
7401 C      *    MOVE ACCT-EXPIRAION-DATE       TO ACUP-OLD-EXPIRAION-DATE
7402              MOVE ACCT-EXPIRAION-DATE(1:4) TO ACUP-OLD-EXP-YEAR
7403              MOVE ACCT-EXPIRAION-DATE(6:2) TO ACUP-OLD-EXP-MON
7404              MOVE ACCT-EXPIRAION-DATE(9:2) TO ACUP-OLD-EXP-DAY
7405 B
7406 C      * REISSUE DATE
7407 C      *    MOVE ACCT-REISSUE-DATE         TO ACUP-OLD-REISSUE-DATE
7408              MOVE ACCT-REISSUE-DATE(1:4)    TO ACUP-OLD-REISSUE-YEAR
7409              MOVE ACCT-REISSUE-DATE(6:2)    TO ACUP-OLD-REISSUE-MON
7410              MOVE ACCT-REISSUE-DATE(9:2)    TO ACUP-OLD-REISSUE-DAY
7411 C      * ACCOUNT GROUP
7412              MOVE ACCT-GROUP-ID             TO ACUP-OLD-GROUP-ID
7413 C      ******************************************************************
7414 C      *    CUSTOMER MASTER DATA
7415 C      ******************************************************************
7416 C      *CUSTOMER ID (ACTUALLY NOT EDITABLE)
7417              MOVE CUST-ID                   TO ACUP-OLD-CUST-ID
7418 C      *SOCIAL SECURITY NUMBER
7419              MOVE CUST-SSN                  TO ACUP-OLD-CUST-SSN
7420 C      *DATE OF BIRTH
7421 C      *    MOVE CUST-DOB-YYYY-MM-DD       TO ACUP-OLD-CUST-DOB-YYYY-MM-DD
7422              MOVE CUST-DOB-YYYY-MM-DD(1:4) TO ACUP-OLD-CUST-DOB-YEAR
7423              MOVE CUST-DOB-YYYY-MM-DD(6:2) TO ACUP-OLD-CUST-DOB-MON
7424              MOVE CUST-DOB-YYYY-MM-DD(9:2) TO ACUP-OLD-CUST-DOB-DAY
7425 C      *FICO
7426              MOVE CUST-FICO-CREDIT-SCORE    TO ACUP-OLD-CUST-FICO-SCORE
7427 C      *FIRST NAME
7428              MOVE CUST-FIRST-NAME           TO ACUP-OLD-CUST-FIRST-NAME
7429 C      *MIDDLE NAME
7430              MOVE CUST-MIDDLE-NAME          TO ACUP-OLD-CUST-MIDDLE-NAME
7431 C      *LAST NAME
7432              MOVE CUST-LAST-NAME            TO ACUP-OLD-CUST-LAST-NAME
7433 C      *ADDRESS
```

```
7434                 MOVE CUST-ADDR-LINE-1        TO ACUP-OLD-CUST-ADDR-LINE-1
7435                 MOVE CUST-ADDR-LINE-2        TO ACUP-OLD-CUST-ADDR-LINE-2
7436                 MOVE CUST-ADDR-LINE-3        TO ACUP-OLD-CUST-ADDR-LINE-3
7437                 MOVE CUST-ADDR-STATE-CD      TO ACUP-OLD-CUST-ADDR-STATE-CD
7438                 MOVE CUST-ADDR-COUNTRY-CD    TO
7439                                                ACUP-OLD-CUST-ADDR-COUNTRY-CD
7440                 MOVE CUST-ADDR-ZIP           TO ACUP-OLD-CUST-ADDR-ZIP
7441                 MOVE CUST-PHONE-NUM-1        TO ACUP-OLD-CUST-PHONE-NUM-1
7442                 MOVE CUST-PHONE-NUM-2        TO ACUP-OLD-CUST-PHONE-NUM-2
7443 C      *GOVERNMENT ID
7444                 MOVE CUST-GOVT-ISSUED-ID     TO ACUP-OLD-CUST-GOVT-ISSUED-ID
7445 C      *EFT CODE
7446                 MOVE CUST-EFT-ACCOUNT-ID     TO ACUP-OLD-CUST-EFT-ACCOUNT-ID
7447 C      *PRIMARY HOLDER INDICATOR
7448                 MOVE CUST-PRI-CARD-HOLDER-IND TO ACUP-OLD-CUST-PRI-HOLDER-IND
7449                 .
7450          9500-STORE-FETCHED-DATA-EXIT.
7451              EXIT
7452                 .
7453          9600-WRITE-PROCESSING.
7454 B
7455 C      *    READ THE ACCOUNT FILE FOR UPDATE
7456 B
7457                 MOVE CC-ACCT-ID               TO WS-CARD-RID-ACCT-ID
7458 B
7459              EXEC CICS READ
7460                  FILE      (LIT-ACCTFILENAME)
7461                  UPDATE
7462                  RIDFLD    (WS-CARD-RID-ACCT-ID-X)
7463                  KEYLENGTH (LENGTH OF WS-CARD-RID-ACCT-ID-X)
7464                  INTO      (ACCOUNT-RECORD)
7465                  LENGTH    (LENGTH OF ACCOUNT-RECORD)
7466                  RESP      (WS-RESP-CD)
7467                  RESP2     (WS-REAS-CD)
7468              END-EXEC
7469 C      *****************************************************************
7470 C      *    COULD WE LOCK THE ACCOUNT RECORD ?
7471 C      *****************************************************************
7472              IF WS-RESP-CD EQUAL TO DFHRESP(NORMAL)
7473                 CONTINUE
7474              ELSE
7475                 SET INPUT-ERROR                  TO TRUE
7476                 IF  WS-RETURN-MSG-OFF
7477                     SET COULD-NOT-LOCK-ACCT-FOR-UPDATE  TO TRUE
7478                 END-IF
7479                 GO TO 9600-WRITE-PROCESSING-EXIT
7480              END-IF
7481 B
7482 C      *    READ THE CUSTOMER FILE FOR UPDATE
7483 B
7484                 MOVE CDEMO-CUST-ID               TO WS-CARD-RID-CUST-ID
7485 B
7486              EXEC CICS READ
7487                  FILE      (LIT-CUSTFILENAME)
7488                  UPDATE
7489                  RIDFLD    (WS-CARD-RID-CUST-ID-X)
7490                  KEYLENGTH (LENGTH OF WS-CARD-RID-CUST-ID-X)
7491                  INTO      (CUSTOMER-RECORD)
7492                  LENGTH    (LENGTH OF CUSTOMER-RECORD)
```

```
7493                    RESP      (WS-RESP-CD)
7494                    RESP2     (WS-REAS-CD)
7495                END-EXEC
7496 C      ***************************************************************
7497 C      *    COULD WE LOCK THE CUSTOMER RECORD ?
7498 C      ***************************************************************
7499          IF WS-RESP-CD EQUAL TO DFHRESP(NORMAL)
7500              CONTINUE
7501          ELSE
7502             SET INPUT-ERROR                     TO TRUE
7503             IF  WS-RETURN-MSG-OFF
7504                 SET COULD-NOT-LOCK-CUST-FOR-UPDATE  TO TRUE
7505             END-IF
7506             GO TO 9600-WRITE-PROCESSING-EXIT
7507          END-IF
7508 B
7509 C      ***************************************************************
7510 C      *    DID SOMEONE CHANGE THE RECORD WHILE WE WERE OUT ?
7511 C      ***************************************************************
7512          PERFORM 9700-CHECK-CHANGE-IN-REC
7513             THRU 9700-CHECK-CHANGE-IN-REC-EXIT
7514 B
7515          IF DATA-WAS-CHANGED-BEFORE-UPDATE
7516             GO TO 9600-WRITE-PROCESSING-EXIT
7517          END-IF
7518 C      ***************************************************************
7519 C      * PREPARE THE UPDATE
7520 C      ***************************************************************
7521          INITIALIZE ACCT-UPDATE-RECORD
7522 C      ***************************************************************
7523 C      *    ACCOUNT MASTER DATA
7524 C      ***************************************************************
7525          MOVE ACUP-NEW-ACCT-ID         TO ACCT-UPDATE-ID
7526 C      * ACTIVE STATUS
7527          MOVE ACUP-NEW-ACTIVE-STATUS   TO ACCT-UPDATE-ACTIVE-STATUS
7528 C      * CURRENT BALANCE
7529          MOVE ACUP-NEW-CURR-BAL-N      TO ACCT-UPDATE-CURR-BAL
7530 C      * CREDIT LIMIT
7531          MOVE ACUP-NEW-CREDIT-LIMIT-N  TO ACCT-UPDATE-CREDIT-LIMIT
7532 C      * CASH LIMIT
7533          MOVE ACUP-NEW-CASH-CREDIT-LIMIT-N
7534                                        TO ACCT-UPDATE-CASH-CREDIT-LIMIT
7535 C      * CURRENT CYCLE CREDIT
7536          MOVE ACUP-NEW-CURR-CYC-CREDIT-N
7537                                          TO ACCT-UPDATE-CURR-CYC-CREDIT
7538 C      * CURRENT CYCLE DEBIT
7539          MOVE ACUP-NEW-CURR-CYC-DEBIT-N TO ACCT-UPDATE-CURR-CYC-DEBIT
7540 C      * OPEN DATE
7541          STRING ACUP-NEW-OPEN-YEAR
7542 C                 '-'
7543                 ACUP-NEW-OPEN-MON
7544 C                 '-'
7545                 ACUP-NEW-OPEN-DAY
7546          DELIMITED BY SIZE
7547                                     INTO ACCT-UPDATE-OPEN-DATE
7548 C      * EXPIRY DATE
7549          STRING ACUP-NEW-EXP-YEAR
7550 C                 '-'
7551                 ACUP-NEW-EXP-MON
```

```
7552 C                         '-'
7553                           ACUP-NEW-EXP-DAY
7554                      DELIMITED BY SIZE
7555                                          INTO ACCT-UPDATE-EXPIRAION-DATE
7556 B
7557 C          * REISSUE DATE
7558                 MOVE ACCT-REISSUE-DATE        TO ACCT-UPDATE-REISSUE-DATE
7559                 STRING ACUP-NEW-REISSUE-YEAR
7560 C                         '-'
7561                           ACUP-NEW-REISSUE-MON
7562 C                         '-'
7563                           ACUP-NEW-REISSUE-DAY
7564                      DELIMITED BY SIZE
7565                                          INTO ACCT-UPDATE-REISSUE-DATE
7566 C          * ACCOUNT GROUP
7567                 MOVE ACUP-NEW-GROUP-ID       TO ACCT-UPDATE-GROUP-ID
7568 B
7569 C          ****************************************************************
7570 C          *    CUSTOMER DATA
7571 C          ****************************************************************
7572                 INITIALIZE CUST-UPDATE-RECORD
7573 B
7574                 MOVE  ACUP-NEW-CUST-ID        TO CUST-UPDATE-ID
7575                 MOVE  ACUP-NEW-CUST-FIRST-NAME
7576                                          TO CUST-UPDATE-FIRST-NAME
7577                 MOVE  ACUP-NEW-CUST-MIDDLE-NAME
7578                                          TO CUST-UPDATE-MIDDLE-NAME
7579                 MOVE  ACUP-NEW-CUST-LAST-NAME TO CUST-UPDATE-LAST-NAME
7580                 MOVE  ACUP-NEW-CUST-ADDR-LINE-1
7581                                          TO CUST-UPDATE-ADDR-LINE-1
7582                 MOVE  ACUP-NEW-CUST-ADDR-LINE-2
7583                                          TO CUST-UPDATE-ADDR-LINE-2
7584                 MOVE  ACUP-NEW-CUST-ADDR-LINE-3
7585                                          TO CUST-UPDATE-ADDR-LINE-3
7586                 MOVE  ACUP-NEW-CUST-ADDR-STATE-CD
7587                                          TO CUST-UPDATE-ADDR-STATE-CD
7588                 MOVE  ACUP-NEW-CUST-ADDR-COUNTRY-CD
7589                                          TO CUST-UPDATE-ADDR-COUNTRY-CD
7590                 MOVE  ACUP-NEW-CUST-ADDR-ZIP  TO CUST-UPDATE-ADDR-ZIP
7591 B
7592                 STRING '(',
7593                        ACUP-NEW-CUST-PHONE-NUM-1A,
7594                        ')',
7595                        ACUP-NEW-CUST-PHONE-NUM-1B,
7596                        '-',
7597                        ACUP-NEW-CUST-PHONE-NUM-1C
7598                 DELIMITED BY SIZE    INTO CUST-UPDATE-PHONE-NUM-1
7599 B
7600                 STRING '(',
7601                        ACUP-NEW-CUST-PHONE-NUM-2A,
7602                        ')',
7603                        ACUP-NEW-CUST-PHONE-NUM-2B,
7604                        '-',
7605                        ACUP-NEW-CUST-PHONE-NUM-2C
7606                 DELIMITED BY SIZE    INTO CUST-UPDATE-PHONE-NUM-2
7607 B
7608 B
7609                 MOVE  ACUP-NEW-CUST-SSN       TO CUST-UPDATE-SSN
7610                 MOVE  ACUP-NEW-CUST-GOVT-ISSUED-ID
```

```
7611                                                     TO CUST-UPDATE-GOVT-ISSUED-ID
7612                     STRING ACUP-NEW-CUST-DOB-YEAR
7613 C                          '-'
7614                            ACUP-NEW-CUST-DOB-MON
7615 C                          '-'
7616                            ACUP-NEW-CUST-DOB-DAY
7617                     DELIMITED BY SIZE              INTO CUST-UPDATE-DOB-YYYY-MM-DD
7618 B
7619                     MOVE ACUP-NEW-CUST-EFT-ACCOUNT-ID
7620                                             TO CUST-UPDATE-EFT-ACCOUNT-ID
7621                     MOVE ACUP-NEW-CUST-PRI-HOLDER-IND
7622                                             TO CUST-UPDATE-PRI-CARD-IND
7623                     MOVE ACUP-NEW-CUST-FICO-SCORE TO
7624                                        CUST-UPDATE-FICO-CREDIT-SCORE
7625 C        ****************************************************************
7626 C        * UPDATE ACCOUNT *
7627 C        ****************************************************************
7628 B
7629 B
7630             EXEC CICS
7631                 REWRITE FILE(LIT-ACCTFILENAME)
7632                         FROM(ACCT-UPDATE-RECORD)
7633                         LENGTH(LENGTH OF ACCT-UPDATE-RECORD)
7634                         RESP    (WS-RESP-CD)
7635                         RESP2   (WS-REAS-CD)
7636             END-EXEC.
7637 C        *
7638 C        ****************************************************************
7639 C        * DID ACCOUNT UPDATE SUCCEED ?  *
7640 C        ****************************************************************
7641             IF WS-RESP-CD EQUAL TO DFHRESP(NORMAL)
7642               CONTINUE
7643             ELSE
7644               SET LOCKED-BUT-UPDATE-FAILED    TO TRUE
7645               GO TO 9600-WRITE-PROCESSING-EXIT
7646             END-IF
7647 C        ****************************************************************
7648 C        * UPDATE CUSTOMER *
7649 C        ****************************************************************
7650             EXEC CICS
7651                         REWRITE FILE(LIT-CUSTFILENAME)
7652                         FROM(CUST-UPDATE-RECORD)
7653                         LENGTH(LENGTH OF CUST-UPDATE-RECORD)
7654                         RESP    (WS-RESP-CD)
7655                         RESP2   (WS-REAS-CD)
7656             END-EXEC.
7657 C        ****************************************************************
7658 C        * DID CUSTOMER UPDATE SUCCEED ? *
7659 C        ****************************************************************
7660             IF WS-RESP-CD EQUAL TO DFHRESP(NORMAL)
7661               CONTINUE
7662             ELSE
7663               SET LOCKED-BUT-UPDATE-FAILED    TO TRUE
7664               EXEC CICS
7665                 SYNCPOINT ROLLBACK
7666               END-EXEC
7667               GO TO 9600-WRITE-PROCESSING-EXIT
7668             END-IF
7669                 .
```

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7670          9600-WRITE-PROCESSING-EXIT.
7671              EXIT
7672              .
7673 B
7674          9700-CHECK-CHANGE-IN-REC.
7675 B
7676 B
7677 C     *****************************************************************
7678 C     *    ACCOUNT MASTER DATA
7679 C     *****************************************************************
7680          IF  ACCT-ACTIVE-STATUS      EQUAL ACUP-OLD-ACTIVE-STATUS
7681 C     * CURRENT BALANCE
7682          AND ACCT-CURR-BAL           EQUAL ACUP-OLD-CURR-BAL-N
7683 C     * CREDIT LIMIT
7684          AND ACCT-CREDIT-LIMIT       EQUAL ACUP-OLD-CREDIT-LIMIT-N
7685 C     * CASH LIMIT
7686          AND ACCT-CASH-CREDIT-LIMIT EQUAL ACUP-OLD-CASH-CREDIT-LIMIT-N
7687 C     * CURRENT CYCLE CREDIT
7688          AND ACCT-CURR-CYC-CREDIT    EQUAL ACUP-OLD-CURR-CYC-CREDIT-N
7689 C     * CURRENT CYCLE DEBIT
7690          AND ACCT-CURR-CYC-DEBIT     EQUAL ACUP-OLD-CURR-CYC-DEBIT-N
7691 C     * OPEN DATE
7692          AND ACCT-OPEN-DATE(1:4)     EQUAL ACUP-OLD-OPEN-YEAR
7693          AND ACCT-OPEN-DATE(6:2)     EQUAL ACUP-OLD-OPEN-MON
7694          AND ACCT-OPEN-DATE(9:2)     EQUAL ACUP-OLD-OPEN-DAY
7695 C     * EXPIRY DATE
7696          AND ACCT-EXPIRAION-DATE(1:4)EQUAL ACUP-OLD-EXP-YEAR
7697          AND ACCT-EXPIRAION-DATE(6:2)EQUAL ACUP-OLD-EXP-MON
7698          AND ACCT-EXPIRAION-DATE(9:2)EQUAL ACUP-OLD-EXP-DAY
7699 C     * REISSUE DATE
7700          AND ACCT-REISSUE-DATE(1:4)  EQUAL ACUP-OLD-REISSUE-YEAR
7701          AND ACCT-REISSUE-DATE(6:2)  EQUAL ACUP-OLD-REISSUE-MON
7702          AND ACCT-REISSUE-DATE(9:2)  EQUAL ACUP-OLD-REISSUE-DAY
7703 C     * ACCOUNT GROUP
7704          AND FUNCTION LOWER-CASE (ACCT-GROUP-ID)         EQUAL
7705              FUNCTION LOWER-CASE (ACUP-OLD-GROUP-ID)
7706              CONTINUE
7707          ELSE
7708             SET DATA-WAS-CHANGED-BEFORE-UPDATE TO TRUE
7709             GO TO 9600-WRITE-PROCESSING-EXIT
7710          END-IF
7711 B
7712 C     *****************************************************************
7713 C     *    CUSTOMER  DATA - SPLIT INTO 2 IFS FOR EASIER READING
7714 C     *    AND MAYBE PUT LOGIC TO UPDATE ONLY 1 FILE IF ONLY DATE
7715 C     *    PERTAINING TO ONE OF THEM IS UPDATED
7716 C     *****************************************************************
7717          IF  FUNCTION UPPER-CASE (CUST-FIRST-NAME      ) EQUAL
7718              FUNCTION UPPER-CASE (ACUP-OLD-CUST-FIRST-NAME )
7719          AND FUNCTION UPPER-CASE (CUST-MIDDLE-NAME     ) EQUAL
7720              FUNCTION UPPER-CASE (ACUP-OLD-CUST-MIDDLE-NAME)
7721          AND FUNCTION UPPER-CASE (CUST-LAST-NAME       ) EQUAL
7722              FUNCTION UPPER-CASE (ACUP-OLD-CUST-LAST-NAME  )
7723          AND FUNCTION UPPER-CASE (CUST-ADDR-LINE-1     ) EQUAL
7724              FUNCTION UPPER-CASE (ACUP-OLD-CUST-ADDR-LINE-1)
7725          AND FUNCTION UPPER-CASE (CUST-ADDR-LINE-2     ) EQUAL
7726              FUNCTION UPPER-CASE (ACUP-OLD-CUST-ADDR-LINE-2)
7727          AND FUNCTION UPPER-CASE (CUST-ADDR-LINE-3     ) EQUAL
7728              FUNCTION UPPER-CASE (ACUP-OLD-CUST-ADDR-LINE-3)
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7729                AND FUNCTION UPPER-CASE (CUST-ADDR-STATE-CD        ) EQUAL
7730                    FUNCTION UPPER-CASE (ACUP-OLD-CUST-ADDR-STATE-CD)
7731                AND FUNCTION UPPER-CASE (CUST-ADDR-COUNTRY-CD      ) EQUAL
7732                    FUNCTION UPPER-CASE (ACUP-OLD-CUST-ADDR-COUNTRY-CD )
7733                AND CUST-ADDR-ZIP            EQUAL ACUP-OLD-CUST-ADDR-ZIP
7734                AND CUST-PHONE-NUM-1         EQUAL ACUP-OLD-CUST-PHONE-NUM-1
7735                AND CUST-PHONE-NUM-2         EQUAL ACUP-OLD-CUST-PHONE-NUM-2
7736                AND CUST-SSN                 EQUAL ACUP-OLD-CUST-SSN
7737                AND FUNCTION UPPER-CASE (CUST-GOVT-ISSUED-ID       ) EQUAL
7738                    FUNCTION UPPER-CASE (ACUP-OLD-CUST-GOVT-ISSUED-ID )
7739                AND CUST-DOB-YYYY-MM-DD (1:4)                      EQUAL
7740                    ACUP-OLD-CUST-DOB-YYYY-MM-DD (1:4)
7741                AND CUST-DOB-YYYY-MM-DD (6:2)                      EQUAL
7742                    ACUP-OLD-CUST-DOB-YYYY-MM-DD (5:2)
7743                AND CUST-DOB-YYYY-MM-DD (9:2)                      EQUAL
7744                    ACUP-OLD-CUST-DOB-YYYY-MM-DD (7:2)
7745 B
7746                AND CUST-EFT-ACCOUNT-ID      EQUAL
7747                                            ACUP-OLD-CUST-EFT-ACCOUNT-ID
7748                AND CUST-PRI-CARD-HOLDER-IND
7749                                            EQUAL
7750                                            ACUP-OLD-CUST-PRI-HOLDER-IND
7751                AND CUST-FICO-CREDIT-SCORE  EQUAL ACUP-OLD-CUST-FICO-SCORE
7752                    CONTINUE
7753                ELSE
7754                   SET DATA-WAS-CHANGED-BEFORE-UPDATE TO TRUE
7755                   GO TO 9600-WRITE-PROCESSING-EXIT
7756                END-IF
7757                .
7758        9700-CHECK-CHANGE-IN-REC-EXIT.
7759            EXIT
7760            .
7761 C     *******************************************************************
7762 C     *COMMON CODE TO STORE PFKEY
7763 C     *******************************************************************
7764 C     *COPY 'CSSTRPFY'
7765 C     *******************************************************************
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7780 C     *******************************************************************
7781        YYYY-STORE-PFKEY.
7782 C     *******************************************************************
7783 C     * MAP AID TO PFKEY IN COMMON AREA
7784 C     *******************************************************************
7785            EVALUATE TRUE
7786              WHEN EIBAID IS EQUAL TO DFHENTER
7787                SET CCARD-AID-ENTER TO TRUE
```

```
7788                WHEN EIBAID IS EQUAL TO DFHCLEAR
7789                   SET CCARD-AID-CLEAR TO TRUE
7790                WHEN EIBAID IS EQUAL TO DFHPA1
7791                   SET CCARD-AID-PA1  TO TRUE
7792                WHEN EIBAID IS EQUAL TO DFHPA2
7793                   SET CCARD-AID-PA2  TO TRUE
7794                WHEN EIBAID IS EQUAL TO DFHPF1
7795                   SET CCARD-AID-PFK01 TO TRUE
7796                WHEN EIBAID IS EQUAL TO DFHPF2
7797                   SET CCARD-AID-PFK02 TO TRUE
7798                WHEN EIBAID IS EQUAL TO DFHPF3
7799                   SET CCARD-AID-PFK03 TO TRUE
7800                WHEN EIBAID IS EQUAL TO DFHPF4
7801                   SET CCARD-AID-PFK04 TO TRUE
7802                WHEN EIBAID IS EQUAL TO DFHPF5
7803                   SET CCARD-AID-PFK05 TO TRUE
7804                WHEN EIBAID IS EQUAL TO DFHPF6
7805                   SET CCARD-AID-PFK06 TO TRUE
7806                WHEN EIBAID IS EQUAL TO DFHPF7
7807                   SET CCARD-AID-PFK07 TO TRUE
7808                WHEN EIBAID IS EQUAL TO DFHPF8
7809                   SET CCARD-AID-PFK08 TO TRUE
7810                WHEN EIBAID IS EQUAL TO DFHPF9
7811                   SET CCARD-AID-PFK09 TO TRUE
7812                WHEN EIBAID IS EQUAL TO DFHPF10
7813                   SET CCARD-AID-PFK10 TO TRUE
7814                WHEN EIBAID IS EQUAL TO DFHPF11
7815                   SET CCARD-AID-PFK11 TO TRUE
7816                WHEN EIBAID IS EQUAL TO DFHPF12
7817                   SET CCARD-AID-PFK12 TO TRUE
7818                WHEN EIBAID IS EQUAL TO DFHPF13
7819                   SET CCARD-AID-PFK01 TO TRUE
7820                WHEN EIBAID IS EQUAL TO DFHPF14
7821                   SET CCARD-AID-PFK02 TO TRUE
7822                WHEN EIBAID IS EQUAL TO DFHPF15
7823                   SET CCARD-AID-PFK03 TO TRUE
7824                WHEN EIBAID IS EQUAL TO DFHPF16
7825                   SET CCARD-AID-PFK04 TO TRUE
7826                WHEN EIBAID IS EQUAL TO DFHPF17
7827                   SET CCARD-AID-PFK05 TO TRUE
7828                WHEN EIBAID IS EQUAL TO DFHPF18
7829                   SET CCARD-AID-PFK06 TO TRUE
7830                WHEN EIBAID IS EQUAL TO DFHPF19
7831                   SET CCARD-AID-PFK07 TO TRUE
7832                WHEN EIBAID IS EQUAL TO DFHPF20
7833                   SET CCARD-AID-PFK08 TO TRUE
7834                WHEN EIBAID IS EQUAL TO DFHPF21
7835                   SET CCARD-AID-PFK09 TO TRUE
7836                WHEN EIBAID IS EQUAL TO DFHPF22
7837                   SET CCARD-AID-PFK10 TO TRUE
7838                WHEN EIBAID IS EQUAL TO DFHPF23
7839                   SET CCARD-AID-PFK11 TO TRUE
7840                WHEN EIBAID IS EQUAL TO DFHPF24
7841                   SET CCARD-AID-PFK12 TO TRUE
7842             END-EVALUATE
7843             .
7844         YYYY-STORE-PFKEY-EXIT.
7845             EXIT
7846             .
```

```
7847 C        *
7848 C        * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:59 CDT
7849 C        *
7850                .
7851 B
7852 B
7853          ABEND-ROUTINE.
7854 B
7855              IF ABEND-MSG EQUAL LOW-VALUES
7856                 MOVE 'UNEXPECTED ABEND OCCURRED.' TO ABEND-MSG
7857              END-IF
7858 B
7859              MOVE LIT-THISPGM       TO ABEND-CULPRIT
7860 B
7861              EXEC CICS SEND
7862                            FROM (ABEND-DATA)
7863                            LENGTH(LENGTH OF ABEND-DATA)
7864                            NOHANDLE
7865                            ERASE
7866              END-EXEC
7867 B
7868              EXEC CICS HANDLE ABEND
7869                  CANCEL
7870              END-EXEC
7871 B
7872              EXEC CICS ABEND
7873                  ABCODE('9999')
7874              END-EXEC
7875              .
7876          ABEND-ROUTINE-EXIT.
7877              EXIT
7878              .
7879 C        ********************************************************************
7880 C        * COMMON DATE ROUTINES
7881 C        ********************************************************************
7882 C        *COPY CSUTLDPY
7883 C        ********************************************************************
7884 C        *PROCEDURE DIVISION COPYBOOK FOR DATE RELATED CODE
7885 C        ********************************************************************
7886 C        *DATE VALIDATION PARAGRAPH FOR REUSE AND HOPEFULLY NOT MISUSE
7887 C        *ACCOMPANYING WORKING STORAGE IS CSUTLDTR
7888 C        ********************************************************************
7889 C        * ***  PERFORM EDIT-DATE-CCYYMMDD
7890 C        *        THRU EDIT-DATE-CCYYMMDD-EXIT
7891 C        *        TO VALIDATE CCYYMMDD DATES
7892 C        *      REUSABLE PARAS
7893 C        *      A) EDIT-YEAR-CCYY
7894 C        *      B) EDIT-MONTH
7895 C        *      C) EDIT-DAY
7896 C        *      D) EDIT-DATE-OF-BIRTH
7897 C        *      E) EDIT-DATE-OF-BIRTH
7898 C        ********************************************************************
7899 B
7900          EDIT-DATE-CCYYMMDD.
7901              SET WS-EDIT-DATE-IS-INVALID   TO TRUE
7902                  .
7903 B
7904 C        ********************************************************************
7905 C        *CHECK FOR VALID YEAR AND CENTURY
```

```
7906 C       ****************************************************************
7907         EDIT-YEAR-CCYY.
7908 B
7909             SET FLG-YEAR-NOT-OK             TO TRUE
7910 B
7911 C       *    NOT SUPPLIED
7912             IF WS-EDIT-DATE-CCYY           EQUAL LOW-VALUES
7913             OR WS-EDIT-DATE-CCYY           EQUAL SPACES
7914                SET INPUT-ERROR             TO TRUE
7915                SET  FLG-YEAR-BLANK         TO TRUE
7916                IF WS-RETURN-MSG-OFF
7917                   STRING
7918                      FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
7919 C                   ' : YEAR MUST BE SUPPLIED.'
7920                      DELIMITED BY SIZE
7921                      INTO WS-RETURN-MSG
7922                END-IF
7923 C       *    INTENTIONAL VIOLATION OF STRUCTURED PROGRAMMING NORMS
7924                GO TO EDIT-YEAR-CCYY-EXIT
7925             ELSE
7926                CONTINUE
7927             END-IF
7928 B
7929 C       *    NOT NUMERIC
7930             IF WS-EDIT-DATE-CCYY           IS NOT NUMERIC
7931                SET INPUT-ERROR             TO TRUE
7932                SET  FLG-YEAR-NOT-OK        TO TRUE
7933                IF WS-RETURN-MSG-OFF
7934                   STRING
7935                      FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
7936 C                   ' MUST BE 4 DIGIT NUMBER.'
7937                      DELIMITED BY SIZE
7938                      INTO WS-RETURN-MSG
7939                END-IF
7940                GO TO EDIT-YEAR-CCYY-EXIT
7941             ELSE
7942                CONTINUE
7943             END-IF
7944 B
7945 C       ****************************************************************
7946 C       *    CENTURY NOT REASONABLE
7947 C       ****************************************************************
7948 C       *  NOT HAVING LEARNT OUR LESSON FROM HISTORY AND Y2K
7949 C       *  AND BEING UNABLE TO IMAGINE COBOL IN THE 2100S
7950 C       *  WE CODE ONLY 19 AND 20 AS VALID CENTURY VALUES
7951 C       ****************************************************************
7952             IF THIS-CENTURY
7953             OR LAST-CENTURY
7954                CONTINUE
7955             ELSE
7956                SET INPUT-ERROR             TO TRUE
7957                SET  FLG-YEAR-NOT-OK        TO TRUE
7958                IF WS-RETURN-MSG-OFF
7959                   STRING
7960                      FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
7961 C                   ' : CENTURY IS NOT VALID.'
7962                      DELIMITED BY SIZE
7963                      INTO WS-RETURN-MSG
7964                END-IF
```

```
7965                 GO TO EDIT-YEAR-CCYY-EXIT
7966             END-IF
7967 B
7968             SET FLG-YEAR-ISVALID            TO TRUE
7969             .
7970         EDIT-YEAR-CCYY-EXIT.
7971             EXIT
7972             .
7973         EDIT-MONTH.
7974             SET FLG-MONTH-NOT-OK            TO TRUE
7975 B
7976             IF WS-EDIT-DATE-MM              EQUAL LOW-VALUES
7977             OR WS-EDIT-DATE-MM              EQUAL SPACES
7978                 SET INPUT-ERROR            TO TRUE
7979                 SET  FLG-MONTH-BLANK       TO TRUE
7980                 IF WS-RETURN-MSG-OFF
7981                     STRING
7982                       FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
7983 C                     ' : MONTH MUST BE SUPPLIED.'
7984                       DELIMITED BY SIZE
7985                       INTO WS-RETURN-MSG
7986                 END-IF
7987                 GO TO EDIT-MONTH-EXIT
7988             ELSE
7989                 CONTINUE
7990             END-IF
7991 B
7992 C     *     MONTH NOT REASONABLE
7993             IF WS-VALID-MONTH
7994                 CONTINUE
7995             ELSE
7996                 SET INPUT-ERROR            TO TRUE
7997                 SET  FLG-MONTH-NOT-OK       TO TRUE
7998                 IF WS-RETURN-MSG-OFF
7999                     STRING
8000                       FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
8001 C                     ': MONTH MUST BE A NUMBER BETWEEN 1 AND 12.'
8002                       DELIMITED BY SIZE
8003                       INTO WS-RETURN-MSG
8004                 END-IF
8005                 GO TO EDIT-MONTH-EXIT
8006             END-IF
8007 B
8008             IF FUNCTION TEST-NUMVAL (WS-EDIT-DATE-MM) = 0
8009                 COMPUTE WS-EDIT-DATE-MM-N
8010                         = FUNCTION NUMVAL (WS-EDIT-DATE-MM)
8011             END-COMPUTE
8012             ELSE
8013                 SET INPUT-ERROR            TO TRUE
8014                 SET  FLG-MONTH-NOT-OK       TO TRUE
8015                 IF WS-RETURN-MSG-OFF
8016                     STRING
8017                       FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
8018 C                     ': MONTH MUST BE A NUMBER BETWEEN 1 AND 12.'
8019                       DELIMITED BY SIZE
8020                       INTO WS-RETURN-MSG
8021                 END-IF
8022                 GO TO EDIT-MONTH-EXIT
8023             END-IF
```

```
8024 B
8025            SET FLG-MONTH-ISVALID           TO TRUE
8026              .
8027        EDIT-MONTH-EXIT.
8028            EXIT
8029              .
8030 B
8031 B
8032        EDIT-DAY.
8033 B
8034            SET FLG-DAY-ISVALID             TO TRUE
8035 B
8036            IF WS-EDIT-DATE-DD              EQUAL LOW-VALUES
8037            OR WS-EDIT-DATE-DD              EQUAL SPACES
8038                SET INPUT-ERROR             TO TRUE
8039                SET  FLG-DAY-BLANK          TO TRUE
8040                IF WS-RETURN-MSG-OFF
8041                    STRING
8042                       FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
8043 C                    ' : DAY MUST BE SUPPLIED.'
8044                       DELIMITED BY SIZE
8045                       INTO WS-RETURN-MSG
8046                END-IF
8047                GO TO EDIT-DAY-EXIT
8048            ELSE
8049                CONTINUE
8050            END-IF
8051 B
8052            IF FUNCTION TEST-NUMVAL (WS-EDIT-DATE-DD) = 0
8053                COMPUTE WS-EDIT-DATE-DD-N
8054                        = FUNCTION NUMVAL (WS-EDIT-DATE-DD)
8055                END-COMPUTE
8056            ELSE
8057                SET INPUT-ERROR             TO TRUE
8058                SET  FLG-DAY-NOT-OK         TO TRUE
8059                IF WS-RETURN-MSG-OFF
8060                    STRING
8061                       FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
8062 C                    ':DAY MUST BE A NUMBER BETWEEN 1 AND 31.'
8063                       DELIMITED BY SIZE
8064                       INTO WS-RETURN-MSG
8065                END-IF
8066                GO TO EDIT-DAY-EXIT
8067            END-IF
8068 B
8069            IF WS-VALID-DAY
8070                CONTINUE
8071            ELSE
8072                SET INPUT-ERROR             TO TRUE
8073                SET FLG-DAY-NOT-OK          TO TRUE
8074                IF WS-RETURN-MSG-OFF
8075                    STRING
8076                       FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
8077 C                    ':DAY MUST BE A NUMBER BETWEEN 1 AND 31.'
8078                       DELIMITED BY SIZE
8079                       INTO WS-RETURN-MSG
8080                END-IF
8081                GO TO EDIT-DAY-EXIT
8082            END-IF
```

```
8083                  .
8084 B
8085              SET FLG-DAY-ISVALID          TO TRUE
8086                  .
8087          EDIT-DAY-EXIT.
8088              EXIT
8089                  .
8090 B
8091          EDIT-DAY-MONTH-YEAR.
8092 C       ********************************************************************
8093 C       *    CHECKING FOR ANY OTHER COMBINATIONS
8094 C       ********************************************************************
8095              IF  NOT WS-31-DAY-MONTH
8096              AND WS-DAY-31
8097                 SET INPUT-ERROR               TO TRUE
8098                 SET FLG-DAY-NOT-OK            TO TRUE
8099                 SET FLG-MONTH-NOT-OK          TO TRUE
8100                 IF WS-RETURN-MSG-OFF
8101                    STRING
8102                       FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
8103 C                    ':CANNOT HAVE 31 DAYS IN THIS MONTH.'
8104                       DELIMITED BY SIZE
8105                       INTO WS-RETURN-MSG
8106                 END-IF
8107                 GO TO EDIT-DATE-CCYYMMDD-EXIT
8108              END-IF
8109 B
8110              IF  WS-FEBRUARY
8111              AND WS-DAY-30
8112                 SET INPUT-ERROR               TO TRUE
8113                 SET FLG-DAY-NOT-OK            TO TRUE
8114                 SET FLG-MONTH-NOT-OK          TO TRUE
8115                 IF WS-RETURN-MSG-OFF
8116                    STRING
8117                       FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
8118 C                    ':CANNOT HAVE 30 DAYS IN THIS MONTH.'
8119                       DELIMITED BY SIZE
8120                       INTO WS-RETURN-MSG
8121                 END-IF
8122                 GO TO EDIT-DATE-CCYYMMDD-EXIT
8123              END-IF
8124 B
8125              IF  WS-FEBRUARY
8126              AND WS-DAY-29
8127                 IF WS-EDIT-DATE-YY-N = 0
8128                    MOVE 400                 TO  WS-DIV-BY
8129                 ELSE
8130                    MOVE 4                   TO  WS-DIV-BY
8131                 END-IF
8132 B
8133                 DIVIDE WS-EDIT-DATE-CCYY-N
8134                    BY WS-DIV-BY
8135                 GIVING WS-DIVIDEND
8136                 REMAINDER WS-REMAINDER
8137 B
8138                 IF WS-REMAINDER = ZEROES
8139                    CONTINUE
8140                 ELSE
8141                    SET INPUT-ERROR          TO TRUE
```

```
8142                   SET FLG-DAY-NOT-OK        TO TRUE
8143                   SET FLG-MONTH-NOT-OK      TO TRUE
8144                   SET FLG-YEAR-NOT-OK       TO TRUE
8145                   IF WS-RETURN-MSG-OFF
8146                     STRING
8147                       FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
8148 C                     ':NOT A LEAP YEAR.CANNOT HAVE 29 DAYS IN THIS MONTH.'
8149                         DELIMITED BY SIZE
8150                       INTO WS-RETURN-MSG
8151                   END-IF
8152                   GO TO EDIT-DATE-CCYYMMDD-EXIT
8153                 END-IF
8154             END-IF
8155 B
8156           IF WS-EDIT-DATE-IS-VALID
8157              CONTINUE
8158           ELSE
8159              GO TO EDIT-DATE-CCYYMMDD-EXIT
8160           END-IF
8161           .
8162      EDIT-DAY-MONTH-YEAR-EXIT.
8163           EXIT
8164           .
8165 B
8166        EDIT-DATE-LE.
8167 C     ******************************************************************
8168 C     *    IN CASE SOME ONE MANAGED TO ENTER A BAD DATE THAT PASSSED ALL
8169 C     *    THE EDITS ABOVE ......
8170 C     *                  USE LE SERVICES TO VERIFY THE SUPPLIED DATE
8171 C     ******************************************************************
8172           INITIALIZE WS-DATE-VALIDATION-RESULT
8173           MOVE 'YYYYMMDD'                 TO WS-DATE-FORMAT
8174 B
8175           CALL 'CSUTLDTC'
8176           USING WS-EDIT-DATE-CCYYMMDD
8177               , WS-DATE-FORMAT
8178               , WS-DATE-VALIDATION-RESULT
8179 B
8180           IF WS-SEVERITY-N = 0
8181              CONTINUE
8182           ELSE
8183              SET INPUT-ERROR             TO TRUE
8184              SET FLG-DAY-NOT-OK          TO TRUE
8185              SET FLG-MONTH-NOT-OK        TO TRUE
8186              SET FLG-YEAR-NOT-OK         TO TRUE
8187              IF WS-RETURN-MSG-OFF
8188              STRING
8189                FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
8190 C                ' VALIDATION ERROR SEV CODE: '
8191                WS-SEVERITY
8192 C                ' MESSAGE CODE: '
8193                WS-MSG-NO
8194                DELIMITED BY SIZE
8195               INTO WS-RETURN-MSG
8196              END-IF
8197              GO TO EDIT-DATE-LE-EXIT
8198           END-IF
8199 B
8200           IF NOT INPUT-ERROR
```

```
8201                   SET FLG-DAY-ISVALID              TO TRUE
8202               END-IF
8203                   .
8204 B
8205          EDIT-DATE-LE-EXIT.
8206               EXIT
8207                   .
8208 C       *    IF WE GOT HERE ALL EDITS WERE CLEARED
8209               SET WS-EDIT-DATE-IS-VALID         TO TRUE
8210                   .
8211          EDIT-DATE-CCYYMMDD-EXIT.
8212               EXIT
8213                   .
8214 B
8215 C       ********************************************************************
8216 C       *DATE OF BIRTH REASONABLENESS CHECK
8217 C       ********************************************************************
8218 C       *   AT THE TIME OF WRITING THIS PROGRAM
8219 C       *   TIME TRAVEL WAS NOT POSSIBLE.
8220 C       *   DATE OF BIRTH IN THE FUTURE IS NOT ACCEPTABLE
8221 C       ********************************************************************
8222 C       *
8223          EDIT-DATE-OF-BIRTH.
8224 B
8225               MOVE FUNCTION CURRENT-DATE TO WS-CURRENT-DATE-YYYYMMDD
8226 B
8227               COMPUTE WS-EDIT-DATE-BINARY =
8228                   FUNCTION INTEGER-OF-DATE (WS-EDIT-DATE-CCYYMMDD-N)
8229               COMPUTE WS-CURRENT-DATE-BINARY =
8230                   FUNCTION INTEGER-OF-DATE (WS-CURRENT-DATE-YYYYMMDD-N)
8231 B
8232               IF WS-CURRENT-DATE-BINARY > WS-EDIT-DATE-BINARY
8233 C       *    IF FUNCTION FIND-DURATION(FUNCTION CURRENT-DATE
8234 C       *                             ,WS-EDIT-DATE-CCYYMMDD)
8235 C       *                             ,DAYS) > 0
8236                   CONTINUE
8237               ELSE
8238                  SET INPUT-ERROR               TO TRUE
8239                  SET FLG-DAY-NOT-OK            TO TRUE
8240                  SET FLG-MONTH-NOT-OK          TO TRUE
8241                  SET FLG-YEAR-NOT-OK           TO TRUE
8242                  IF WS-RETURN-MSG-OFF
8243                  STRING
8244                    FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
8245 C                  ':CANNOT BE IN THE FUTURE '
8246                    DELIMITED BY SIZE
8247                   INTO WS-RETURN-MSG
8248                  END-IF
8249                  GO TO EDIT-DATE-OF-BIRTH-EXIT
8250               END-IF
8251                   .
8252          EDIT-DATE-OF-BIRTH-EXIT.
8253               EXIT
8254                   .
8255 C       *
8256 C       * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:15:59 CDT
8257 C       *
8258                   .
8259 C       *
```

```
8260 C          * VER: CARDDEMO_V1.0-15-G27D6C6F-68 DATE: 2022-07-19 23:12:32 CDT
8261 C          *
```

```
  28 IDENTIFICATION DIVISION  IDL
   3 ENVIRONMENT DIVISION      EDL
3221 DATA DIVISION             DDL
5009 PROCEDURE DIVISION        PDL

8261 source lines      SL = IDL+EDL+DDL+PDL = BL+CL+EL
 416 blank lines       BL
1673 comment lines      CL

6172 executable lines EL = DL+LL
  84 dead lines        DL
6088 live lines        LL
 99% live density =    LL/EL
```