```
  1              J E S 2   J O B   L O G  --  S Y S T E M   2 9 6 4  --  N O D E   S V S C J E S
  2
  2
  3 17.01.03 JOB00030 ---- FRIDAY,    17 MAR 2023 ----
  4 17.01.03 JOB00030  IRR010I  USERID KC03FEC  IS ASSIGNED TO THIS JOB.
  5 17.01.03 JOB00030  IEF677I WARNING MESSAGE(S) FOR JOB INVLEFEC ISSUED
  6 17.01.05 JOB00030  ICH70001I KC03FEC  LAST ACCESS AT 17:00:15 ON FRIDAY, MARCH 17, 2023
  7 17.01.05 JOB00030  $HASP373 INVLEFEC STARTED - INIT 1    - CLASS A       - SYS 2964
  8 17.01.08 JOB00030  -                                     -----TIMINGS (MINS.)------
    -----PAGING COUNTS----
  9 17.01.08 JOB00030  -STEPNAME PROCSTEP    RC   EXCP   CONN      TCB      SRB  CLOCK
    SERV  WORKLOAD  PAGE   SWAP   VIO SWAPS
 10 17.01.08 JOB00030  -COBOL    COBOL     00    632    285      .00      .00     .0
    72  BATCH       0     0      0     0
 11 17.01.08 JOB00030  -COBOL    LKED      00    222     36      .00      .00     .0
    45  BATCH       0     0      0     0
 12 17.01.09 JOB00030  -INVLEFEC ENDED.  NAME-                          TOTAL TCB CPU TIME=      .00
    TOTAL ELAPSED TIME=    .0
 13 17.01.09 JOB00030  $HASP395 INVLEFEC ENDED - RC=0000
 14 ------ JES2 JOB STATISTICS ------
 15   17 MAR 2023 JOB EXECUTION DATE
 16          13 CARDS READ
 17         673 SYSOUT PRINT RECORDS
 18           0 SYSOUT PUNCH RECORDS
 19          42 SYSOUT SPOOL KBYTES
 20        0.08 MINUTES EXECUTION TIME
 21      1 //INVLEFEC      JOB                                     JOB00030
 22        /* COMPILE/LKED VSAM DATA LOAD PROGRAM
 23      2 //COBOL          EXEC PROC=IGYWCL,REGION=50M,
 24        //    PARM.COBOL='TEST,RENT,APOST,OBJECT,NODYNAM,LIB,SIZE(2097152)'
 25      3 XXIGYWCL PROC  LNGPRFX='IGY630',                        00001000
 26        XX            LIBPRFX='CEE',                            00002000
 27        XX            PGMLIB='&&GOSET',GOPGM=GO                 00003000
 28        XX*                                                     00004000
 29        XX**************************************************************** 00005000
 30        XX*                                                   * 00006000
 31        XX*   IBM Enterprise COBOL for z/OS                   * 00007000
 32        XX*           Version 6 Release 3 Modification 0      * 00008000
 33        XX*                                                   * 00009000
 34        XX*   LICENSED MATERIALS - PROPERTY OF IBM.           * 00010000
 35        XX*                                                   * 00011000
 36        XX*   5655-EC6 COPYRIGHT IBM CORP. 1983, 2019         * 00012000
 37        XX*                                                   * 00013000
 38        XX*   US GOVERNMENT USERS RESTRICTED RIGHTS - USE,    * 00014000
 39        XX*   DUPLICATION OR DISCLOSURE RESTRICTED BY GSA     * 00015000
 40        XX*   ADP SCHEDULE CONTRACT WITH IBM CORP.            * 00016000
 41        XX*                                                   * 00017000
 42        XX**************************************************************** 00018000
 43        XX*                                                     00019000
 44        XX*   COMPILE AND LINK EDIT A COBOL PROGRAM             00020000
 45        XX*                                                     00021000
 46        XX*   PARAMETER  DEFAULT VALUE    USAGE                 00022000
 47        XX*    LNGPRFX   IGY.V6R3M0       PREFIX FOR LANGUAGE DATA SET NAMES 00023000
 48        XX*    LIBPRFX   CEE              PREFIX FOR LIBRARY DATA SET NAMES 00024000
 49        XX*    PGMLIB    &&GOSET          DATA SET NAME FOR LOAD MODULE 00025000
 50        XX*    GOPGM     GO               MEMBER NAME FOR LOAD MODULE 00026000
 51        XX*                                                     00027000
```

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52            XX*  CALLER MUST SUPPLY //COBOL.SYSIN DD ...                    00028000
53            XX*                                                             00029000
54            XX*  CALLER MUST ALSO SUPPLY //COBOL.SYSLIB DD ... for COPY statements  00030000
55            XX*                                                             00031000
56            XX*  NOTE:  SYSUT* datasets must be single-volume datasets      00032000
57            XX*                                                             00033000
58        4 XXCOBOL   EXEC PGM=IGYCRCTL,REGION=0M                             00034000
59        5 //COBOL.STEPLIB DD DSN=IGY420.SIGYCOMP,
60            //     DISP=SHR
61            X/STEPLIB  DD  DSNAME=&LNGPRFX..SIGYCOMP,DISP=SHR               00035000
62            IEFC653I SUBSTITUTION JCL - DSNAME=IGY630.SIGYCOMP,DISP=SHR
63        6 XX          DD  DSNAME=&LIBPRFX..SCEERUN,DISP=SHR                 00036000
64            IEFC653I SUBSTITUTION JCL - DSNAME=CEE.SCEERUN,DISP=SHR
65        7 XX          DD  DSNAME=&LIBPRFX..SCEERUN2,DISP=SHR                00037000
66            IEFC653I SUBSTITUTION JCL - DSNAME=CEE.SCEERUN2,DISP=SHR
67        8 XXSYSPRINT DD  SYSOUT=*                                          00038000
68        9 XXSYSLIN   DD  DSNAME=&&LOADSET,UNIT=SYSALLDA,                    00039000
69            XX           DISP=(MOD,PASS),SPACE=(CYL,(1,1)),VOL=(,,,1)       00040000
70       10 XXSYSUT1   DD  UNIT=SYSALLDA,SPACE=(CYL,(1,1)),VOL=(,,,1)        00041000
71       11 XXSYSUT2   DD  UNIT=SYSALLDA,SPACE=(CYL,(1,1)),VOL=(,,,1)        00042000
72       12 XXSYSUT3   DD  UNIT=SYSALLDA,SPACE=(CYL,(1,1)),VOL=(,,,1)        00043000
73       13 XXSYSUT4   DD  UNIT=SYSALLDA,SPACE=(CYL,(1,1)),VOL=(,,,1)        00044000
74       14 XXSYSUT5   DD  UNIT=SYSALLDA,SPACE=(CYL,(1,1)),VOL=(,,,1)        00045000
75       15 XXSYSUT6   DD  UNIT=SYSALLDA,SPACE=(CYL,(1,1)),VOL=(,,,1)        00046000
76       16 XXSYSUT7   DD  UNIT=SYSALLDA,SPACE=(CYL,(1,1)),VOL=(,,,1)        00047000
77       17 XXSYSUT8   DD  UNIT=SYSALLDA,SPACE=(CYL,(1,1)),VOL=(,,,1)        00048000
78       18 XXSYSUT9   DD  UNIT=SYSALLDA,SPACE=(CYL,(1,1)),VOL=(,,,1)        00049000
79       19 XXSYSUT10  DD  UNIT=SYSALLDA,SPACE=(CYL,(1,1)),VOL=(,,,1)        00050000
80       20 XXSYSUT11  DD  UNIT=SYSALLDA,SPACE=(CYL,(1,1)),VOL=(,,,1)        00051000
81       21 XXSYSUT12  DD  UNIT=SYSALLDA,SPACE=(CYL,(1,1)),VOL=(,,,1)        00052000
82       22 XXSYSUT13  DD  UNIT=SYSALLDA,SPACE=(CYL,(1,1)),VOL=(,,,1)        00053000
83       23 XXSYSUT14  DD  UNIT=SYSALLDA,SPACE=(CYL,(1,1)),VOL=(,,,1)        00054000
84       24 XXSYSUT15  DD  UNIT=SYSALLDA,SPACE=(CYL,(1,1)),VOL=(,,,1)        00055000
85       25 XXSYSMDECK DD  UNIT=SYSALLDA,SPACE=(CYL,(1,1)),VOL=(,,,1)        00056000
86       26 //COBOL.SYSIN DD DSN=KC03FEC.A4.COBOL(INVLOFEC),DISP=SHR
87       27 XXLKED    EXEC PGM=IEWBLINK,COND=(8,LT,COBOL),REGION=0M          00057000
88       28 XXSYSLIB   DD  DSNAME=&LIBPRFX..SCEELKEX,DISP=SHR                00058000
89            IEFC653I SUBSTITUTION JCL - DSNAME=CEE.SCEELKEX,DISP=SHR
90       29 XX          DD  DSNAME=&LIBPRFX..SCEELKED,DISP=SHR               00059000
91            IEFC653I SUBSTITUTION JCL - DSNAME=CEE.SCEELKED,DISP=SHR
92       30 XXSYSPRINT DD  SYSOUT=*                                          00060000
93       31 XXSYSLIN   DD  DSNAME=&&LOADSET,DISP=(OLD,DELETE)                00061000
94       32 XX          DD  DDNAME=SYSIN                                     00062000
95       33 //LKED.SYSLMOD DD DSN=KC03FEC.COBOL.LOADLIB(INVLOFEC),
96            //     DISP=OLD
97            X/SYSLMOD  DD  DSNAME=&PGMLIB(&GOPGM),                         00063000
98            X/             SPACE=(CYL,(1,1,1)),                            00064000
99            X/             UNIT=SYSALLDA,DISP=(MOD,PASS),DSNTYPE=LIBRARY   00065000
100           // DECLARE DATASET THAT CONTAINS SOURCE CODE
101           //
102           // DECLARE PDS MEMBER TO STORE LOAD MODULE
103           /*
104           IEFC653I SUBSTITUTION JCL - DSNAME=&&GOSET(GO),SPACE=
     (CYL,(1,1,1)),UNIT=SYSALLDA,DISP=(MOD,PASS),
105           DSNTYPE=LIBRARY
106 STMT NO. MESSAGE
107        2 IEFC001I PROCEDURE IGYWCL WAS EXPANDED USING SYSTEM LIBRARY SVTSC.PROCLIB
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108        33 IEF686I DDNAME REFERRED TO ON DDNAME KEYWORD IN PRIOR STEP WAS NOT RESOLVED
109 ICH70001I KC03FEC  LAST ACCESS AT 17:00:15 ON FRIDAY, MARCH 17, 2023
110 IEFA111I INVLEFEC IS USING THE FOLLOWING JOB RELATED SETTINGS:
111         SWA=ABOVE,TIOT SIZE=32K,DSENQSHR=DISALLOW,GDGBIAS=JOB
112 IEF236I ALLOC. FOR INVLEFEC COBOL COBOL
113 IEF237I 185A ALLOCATED TO STEPLIB
114 IEF237I 1001 ALLOCATED TO
115 IEF237I 1001 ALLOCATED TO
116 IEF237I JES2 ALLOCATED TO SYSPRINT
117 IGD101I SMS ALLOCATED TO DDNAME (SYSLIN  )
118         DSN (SYS23076.T170103.RA000.INVLEFEC.LOADSET.H01 )
119         STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (        )
120         VOL SER NOS= TEMP00
121 IGD101I SMS ALLOCATED TO DDNAME (SYSUT1  )
122         DSN (SYS23076.T170103.RA000.INVLEFEC.R0109827    )
123         STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (        )
124         VOL SER NOS= TEMP00
125 IGD101I SMS ALLOCATED TO DDNAME (SYSUT2  )
126         DSN (SYS23076.T170103.RA000.INVLEFEC.R0109828    )
127         STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (        )
128         VOL SER NOS= TEMP00
129 IGD101I SMS ALLOCATED TO DDNAME (SYSUT3  )
130         DSN (SYS23076.T170103.RA000.INVLEFEC.R0109829    )
131         STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (        )
132         VOL SER NOS= TEMP00
133 IGD101I SMS ALLOCATED TO DDNAME (SYSUT4  )
134         DSN (SYS23076.T170103.RA000.INVLEFEC.R0109830    )
135         STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (        )
136         VOL SER NOS= TEMP00
137 IGD101I SMS ALLOCATED TO DDNAME (SYSUT5  )
138         DSN (SYS23076.T170103.RA000.INVLEFEC.R0109831    )
139         STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (        )
140         VOL SER NOS= TEMP00
141 IGD101I SMS ALLOCATED TO DDNAME (SYSUT6  )
142         DSN (SYS23076.T170103.RA000.INVLEFEC.R0109832    )
143         STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (        )
144         VOL SER NOS= TEMP00
145 IGD101I SMS ALLOCATED TO DDNAME (SYSUT7  )
146         DSN (SYS23076.T170103.RA000.INVLEFEC.R0109833    )
147         STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (        )
148         VOL SER NOS= TEMP00
149 IGD101I SMS ALLOCATED TO DDNAME (SYSUT8  )
150         DSN (SYS23076.T170103.RA000.INVLEFEC.R0109834    )
151         STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (        )
152         VOL SER NOS= TEMP00
153 IGD101I SMS ALLOCATED TO DDNAME (SYSUT9  )
154         DSN (SYS23076.T170103.RA000.INVLEFEC.R0109835    )
155         STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (        )
156         VOL SER NOS= TEMP00
157 IGD101I SMS ALLOCATED TO DDNAME (SYSUT10 )
158         DSN (SYS23076.T170103.RA000.INVLEFEC.R0109836    )
159         STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (        )
160         VOL SER NOS= TEMP00
161 IGD101I SMS ALLOCATED TO DDNAME (SYSUT11 )
162         DSN (SYS23076.T170103.RA000.INVLEFEC.R0109837    )
163         STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (        )
164         VOL SER NOS= TEMP00
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165 IGD101I SMS ALLOCATED TO DDNAME (SYSUT12 )
166         DSN (SYS23076.T170103.RA000.INVLEFEC.R0109838    )
167         STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (        )
168         VOL SER NOS= TEMP00
169 IGD101I SMS ALLOCATED TO DDNAME (SYSUT13 )
170         DSN (SYS23076.T170103.RA000.INVLEFEC.R0109839    )
171         STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (        )
172         VOL SER NOS= TEMP00
173 IGD101I SMS ALLOCATED TO DDNAME (SYSUT14 )
174         DSN (SYS23076.T170103.RA000.INVLEFEC.R0109840    )
175         STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (        )
176         VOL SER NOS= TEMP00
177 IGD101I SMS ALLOCATED TO DDNAME (SYSUT15 )
178         DSN (SYS23076.T170103.RA000.INVLEFEC.R0109841    )
179         STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (        )
180         VOL SER NOS= TEMP00
181 IGD101I SMS ALLOCATED TO DDNAME (SYSMDECK)
182         DSN (SYS23076.T170103.RA000.INVLEFEC.R0109842    )
183         STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (        )
184         VOL SER NOS= TEMP00
185 IGD103I SMS ALLOCATED TO DDNAME SYSIN
186 IEF142I INVLEFEC COBOL COBOL - STEP WAS EXECUTED - COND CODE 0000
187 IEF285I   IGY420.SIGYCOMP                      KEPT
188 IEF285I   VOL SER NOS= VTIGYG.
189 IEF285I   CEE.SCEERUN                          KEPT
190 IEF285I   VOL SER NOS= VTMVSC.
191 IEF285I   CEE.SCEERUN2                         KEPT
192 IEF285I   VOL SER NOS= VTMVSC.
193 IEF285I   KC03FEC.INVLEFEC.JOB00030.D0000101.?      SYSOUT
194 IGD106I SYS23076.T170103.RA000.INVLEFEC.LOADSET.H01  PASSED,    DDNAME=SYSLIN
195 IGD105I SYS23076.T170103.RA000.INVLEFEC.R0109827    DELETED,   DDNAME=SYSUT1
196 IGD105I SYS23076.T170103.RA000.INVLEFEC.R0109828    DELETED,   DDNAME=SYSUT2
197 IGD105I SYS23076.T170103.RA000.INVLEFEC.R0109829    DELETED,   DDNAME=SYSUT3
198 IGD105I SYS23076.T170103.RA000.INVLEFEC.R0109830    DELETED,   DDNAME=SYSUT4
199 IGD105I SYS23076.T170103.RA000.INVLEFEC.R0109831    DELETED,   DDNAME=SYSUT5
200 IGD105I SYS23076.T170103.RA000.INVLEFEC.R0109832    DELETED,   DDNAME=SYSUT6
201 IGD105I SYS23076.T170103.RA000.INVLEFEC.R0109833    DELETED,   DDNAME=SYSUT7
202 IGD105I SYS23076.T170103.RA000.INVLEFEC.R0109834    DELETED,   DDNAME=SYSUT8
203 IGD105I SYS23076.T170103.RA000.INVLEFEC.R0109835    DELETED,   DDNAME=SYSUT9
204 IGD105I SYS23076.T170103.RA000.INVLEFEC.R0109836    DELETED,   DDNAME=SYSUT10
205 IGD105I SYS23076.T170103.RA000.INVLEFEC.R0109837    DELETED,   DDNAME=SYSUT11
206 IGD105I SYS23076.T170103.RA000.INVLEFEC.R0109838    DELETED,   DDNAME=SYSUT12
207 IGD105I SYS23076.T170103.RA000.INVLEFEC.R0109839    DELETED,   DDNAME=SYSUT13
208 IGD105I SYS23076.T170103.RA000.INVLEFEC.R0109840    DELETED,   DDNAME=SYSUT14
209 IGD105I SYS23076.T170103.RA000.INVLEFEC.R0109841    DELETED,   DDNAME=SYSUT15
210 IGD105I SYS23076.T170103.RA000.INVLEFEC.R0109842    DELETED,   DDNAME=SYSMDECK
211 IGD104I KC03FEC.A4.COBOL                             RETAINED,  DDNAME=SYSIN
212 IEF373I STEP/COBOL   /START 2023076.1701
213 IEF032I STEP/COBOL   /STOP  2023076.1701
214         CPU:    0 HR  00 MIN  00.01 SEC    SRB:    0 HR  00 MIN  00.00 SEC
215         VIRT:  176K  SYS:  264K  EXT:    2028K  SYS:   11612K
216         ATB- REAL:              1080K  SLOTS:              0K
217            VIRT- ALLOC:      17M SHRD:      0M
218 IEF236I ALLOC. FOR INVLEFEC LKED COBOL
219 IEF237I 1001 ALLOCATED TO SYSLIB
220 IEF237I 1001 ALLOCATED TO
221 IEF237I JES2 ALLOCATED TO SYSPRINT
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222 IGD103I SMS ALLOCATED TO DDNAME SYSLIN
223 IEF237I DMY  ALLOCATED TO
224 IGD103I SMS ALLOCATED TO DDNAME SYSLMOD
225 IEF142I INVLEFEC LKED COBOL - STEP WAS EXECUTED - COND CODE 0000
226 IEF285I   CEE.SCEELKEX                             KEPT
227 IEF285I   VOL SER NOS= VTMVSC.
228 IEF285I   CEE.SCEELKED                             KEPT
229 IEF285I   VOL SER NOS= VTMVSC.
230 IEF285I   KC03FEC.INVLEFEC.JOB00030.D0000102.?        SYSOUT
231 IGD105I SYS23076.T170103.RA000.INVLEFEC.LOADSET.H01  DELETED,   DDNAME=SYSLIN
232 IGD104I KC03FEC.COBOL.LOADLIB                         RETAINED,  DDNAME=SYSLMOD
233 IEF373I STEP/LKED    /START 2023076.1701
234 IEF032I STEP/LKED    /STOP  2023076.1701
235        CPU:     0 HR  00 MIN  00.01 SEC   SRB:     0 HR  00 MIN  00.00 SEC
236        VIRT:   88K  SYS:   276K  EXT:    1768K  SYS:    11564K
237        ATB- REAL:                1080K  SLOTS:                  0K
238           VIRT- ALLOC:      17M SHRD:      0M
239 IEF375I  JOB/INVLEFEC/START 2023076.1701
240 IEF033I  JOB/INVLEFEC/STOP  2023076.1701
241        CPU:     0 HR  00 MIN  00.02 SEC   SRB:     0 HR  00 MIN  00.00 SEC
242 PP 5655-S71 IBM Enterprise COBOL for z/OS  4.2.0                 Date 03/17/2023  Time
   17:01:07   Page     1
243 Invocation parameters:
244  TEST,RENT,APOST,OBJECT,NODYNAM,LIB,SIZE(2097152)
245 Options in effect:
246  NOADATA
247    ADV
248    APOST
249    ARITH(COMPAT)
250  NOAWO
251  NOBLOCK0
252    BUFSIZE(4096)
253  NOCICS
254    CODEPAGE(1140)
255  NOCOMPILE(S)
256  NOCURRENCY
257    DATA(31)
258  NODATEPROC
259    DBCS
260  NODECK
261  NODIAGTRUNC
262  NODLL
263  NODUMP
264  NODYNAM
265  NOEXIT
266  NOEXPORTALL
267  NOFASTSRT
268    FLAG(I,I)
269  NOFLAGMIG4
270  NOFLAGSTD
271    INTDATE(ANSI)
272    LANGUAGE(EN)
273    LIB
274    LINECOUNT(60)
275  NOLIST
276  NOMAP
277  NOMDECK
```

```
278 NONAME
279    NSYMBOL(NATIONAL)
280 NONUMBER
281    NUMPROC(NOPFD)
282    OBJECT
283 NOOFFSET
284 NOOPTIMIZE
285    OUTDD(SYSOUT)
286    PGMNAME(COMPAT)
287    RENT
288    RMODE(AUTO)
289    SEQUENCE
290    SIZE(2097152)
291    SOURCE
292    SPACE(1)
293 NOSQL
294    SQLCCSID
295 NOSSRANGE
296 NOTERM
297    TEST(HOOK,NOSEPARATE,NOEJPD)
298 NOTHREAD
299    TRUNC(STD)
300 PP 5655-S71 IBM Enterprise COBOL for z/OS  4.2.0                         Date 03/17/2023  Time
   17:01:07   Page    2
301 NOVBREF
302 NOWORD
303    XMLPARSE(XMLSS)
304    XREF(FULL)
305 NOZONECHECK
306    YEARWINDOW(1900)
307    ZWB
308 PP 5655-S71 IBM Enterprise COBOL for z/OS  4.2.0              INVLOFEC  Date 03/17/2023  Time
   17:01:07   Page    3
309  LineID  PL SL   ----+-*A-1-B--+----2----+----3----+----4----+----5----+----6----+----7-|--
   +----8 Map and Cross Reference
310 /* INVLOFEC
311  000001              IDENTIFICATION DIVISION.
312  000002              PROGRAM-ID. INVLOFEC.
313  000003              AUTHOR. David Osagiede.
314  000004              DATE-WRITTEN. 3/17/2023.
315  000005             *PROGRAM DESCRIPTION:
316  000006             *Checks to see if the INV-FILE open successfully, if
317  000007             *it already had data loaded previously or if it failed
318  000008              ENVIRONMENT DIVISION.
319  000009              INPUT-OUTPUT SECTION.
320  000010             *
321  000011              FILE-CONTROL.
322  000012                 SELECT INVOICE-INPUT ASSIGN TO INVDATA
   24
323  000013                    ORGANIZATION IS SEQUENTIAL
324  000014                    FILE STATUS IS WS-INFILE-SW.
   60
325  000015
326  000016                 SELECT INVOICE-FILE ASSIGN TO OUTFILE
   42
327  000017                    RECORD KEY IS INV-KEY-1
   47
```

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328  000018                        ORGANIZATION IS INDEXED
329  000019                        ACCESS MODE IS SEQUENTIAL
330  000020                        FILE STATUS IS WS-OUTFILE-SW.
    63
331  000021              *
332  000022             DATA DIVISION.
333  000023             FILE SECTION.
334  000024             FD INVOICE-INPUT
335  000025                 RECORDING MODE IS F
336  000026                 RECORD CONTAINS 389 CHARACTERS
337  000027                 DATA RECORD IS INVOICE-INPUT-RECORD.
   *
338  000028             01  INVOICE-INPUT-RECORD.
339  000029              *
340  000030                 05  INV-KEY.
341  000031                     10  INV-INVOICE-NUMBER      PIC 9(06).
342  000032                 05  INV-INVOICE-DATE            PIC X(08).
343  000033                 05  INV-CUSTOMER-NUMBER         PIC X(06).
344  000034                 05  INV-PO-NUMBER               PIC X(10).
345  000035                 05  INV-LINE-ITEM               OCCURS 10 TIMES.
346  000036                     10  INV-PRODUCT-CODE        PIC X(10).
347  000037                     10  INV-QUANTITY            PIC S9(07).
348  000038                     10  INV-UNIT-PRICE          PIC S9(07)V99.
349  000039                     10  INV-AMOUNT              PIC S9(07)V99.
350  000040                 05  INV-INVOICE-TOTAL           PIC S9(07)V99.
351  000041              *
352  000042             FD INVOICE-FILE
353  000043                 RECORD CONTAINS 389 CHARACTERS
354  000044                 DATA RECORD IS INVOICE-FILE-RECORD.
   *
355  000045             01  INVOICE-FILE-RECORD.
356  000046              *
357  000047                 05  INV-KEY-1.
358  000048                     10  INV-INVOICE-NUMBER-1    PIC 9(06).
359  000049                 05  INV-INVOICE-DATE-1          PIC X(08).
360  000050                 05  INV-CUSTOMER-NUMBER-1       PIC X(06).
361  000051                 05  INV-PO-NUMBER-1             PIC X(10).
362  000052                 05  INV-LINE-ITEM-1             OCCURS 10 TIMES.
363  000053                     10  INV-PRODUCT-CODE-1      PIC X(10).
364  000054                     10  INV-QUANTITY-1          PIC S9(07).
365  000055                     10  INV-UNIT-PRICE-1        PIC S9(07)V99.
366  000056                     10  INV-AMOUNT-1            PIC S9(07)V99.
```

367 PP 5655-S71 IBM Enterprise COBOL for z/OS 4.2.0   INVLOFEC Date 03/17/2023 Time
    17:01:07   Page   4
368 LineID PL SL ----+-*A-1-B--+----2----+----3----+----4----+----5----+----6----+----7-|--
    +----8 Map and Cross Reference

```
369  000057                 05  INV-INVOICE-TOTAL-1         PIC S9(07)V99.
370  000058              *
371  000059             WORKING-STORAGE SECTION.
372  000060             01 WS-INFILE-SW                      PIC X(02)  VALUE SPACES.
    IMP
373  000061                 88  WS-INFILE-SUCCESS            VALUE '00'.
374  000062                 88  WS-INFILE-EOF                VALUE '10'.
375  000063             01 WS-OUTFILE-SW                     PIC X(02)  VALUE SPACES.
    IMP
376  000064                 88  WS-OUTFILE-SUCCESS           VALUE '00'.
377  000065                 88  WS-OUTFILE-IOERROR           VALUE '37'.
```

```
378  000066                        88  WS-OUTFILE-EOF                    VALUE '10'.
379  000067              01 WS-CM-REC                       PIC X(389).
380  000068              01 WS-EOF-SW-IN                     PIC X(01)  VALUE 'N'.
381  000069                        88  WS-EOF-IN-NO                      VALUE 'N'.
382  000070                        88  WS-EOF-IN-YES                     VALUE 'Y'.
383  000071              01 WS-EOF-SW-OUT                    PIC X(01)  VALUE 'N'.
384  000072                        88  WS-EOF-OUT-NO                     VALUE 'N'.
385  000073                        88  WS-EOF-OUT-YES                    VALUE 'Y'.
386  000074              01 WS-NBR                           PIC 9      VALUE 0.
387  000075           *
388  000076           PROCEDURE DIVISION.
389  000077           000-MAIN-PARA.
390  000078              MOVE SPACE TO WS-INFILE-SW
      IMP 60
391  000079                            WS-OUTFILE-SW
   63
392  000080                            WS-CM-REC.
   67
393  000081           *
394  000082              OPEN INPUT INVOICE-INPUT.
   24
395  000083              IF WS-INFILE-SUCCESS
   61
396  000084        1         DISPLAY "INVOICE-INPUT OPEN SUCCESSFUL"
397  000085              ELSE
398  000086        1         DISPLAY "WS-INFILE-SW=" WS-INFILE-SW
   60
399  000087        1         DISPLAY "INVOICE-INPUT OPEN ERROR"
400  000088        1         PERFORM 800-PROGRAM-FAILED
   138
401  000089              END-IF.
402  000090           *
403  000091              OPEN OUTPUT INVOICE-FILE.
   42
404  000092              IF WS-OUTFILE-SUCCESS
   64
405  000093        1         DISPLAY "INVOICE-FILE OPEN SUCCESSFUL"
406  000094        1     ELSE IF WS-OUTFILE-IOERROR
   65
407  000095        2         DISPLAY "WS-OUTFILE-SW=" WS-OUTFILE-SW
   63
408  000096        2         DISPLAY "INVOICE-FILE IOERROR - OPEN OUTPUT SHOULD BE "
409  000097        2                 "OPEN INPUT OR I-O OR EXTEND   "
410  000098        2         DISPLAY "- DATA MAY ALREADY HAVE BEEN LOADED PREVIOUSLY"
411  000099        2         DISPLAY "- DELETE AND INITIALIZE FILE TO RELOAD DATA"
412  000100        2         PERFORM 800-PROGRAM-FAILED
   138
413  000101        1     ELSE
414  000102        2         DISPLAY "WS-OUTFILE-SW=" WS-OUTFILE-SW
   63
415  000103        2         DISPLAY "INVOICE-FILE OPENING ERROR"
416  000104        2         PERFORM 800-PROGRAM-FAILED
   138
417  000105        1     END-IF.
418  000106           *
419  000107              READ INVOICE-INPUT
   24
```

```
420  000108     1              AT END MOVE 'Y' TO WS-EOF-SW-IN.
   68
421  000109               *
422  000110                    IF WS-EOF-IN-NO THEN
   69
423  000111     1                  DISPLAY "1ST READ INVOICE-INPUT-RECORD="
424  000112     1                  INVOICE-INPUT-RECORD
   28
425  000113               *
426 PP 5655-S71 IBM Enterprise COBOL for z/OS  4.2.0              INVLOFEC  Date 03/17/2023  Time
   17:01:07    Page    5
427  LineID  PL SL  ----+-*A-1-B--+----2----+----3----+----4----+----5----+----6----+----7-|--
   +----8 Map and Cross Reference
428  000114     1                  PERFORM 100-LOAD-PARA
   123
429  000115     1                      UNTIL WS-EOF-IN-YES
   70
430  000116                    ELSE
431  000117     1                  DISPLAY "NO DATA IN INVOICE-INPUT"
432  000118     1                  PERFORM 800-PROGRAM-FAILED
   138
433  000119                    END-IF.
434  000120               *
435  000121                    PERFORM 900-COMPLETED-OK.
   143
436  000122               *
437  000123               100-LOAD-PARA.
438  000124               *
439  000125                    WRITE INVOICE-FILE-RECORD FROM INVOICE-INPUT-RECORD.
   45 28
440  000126                    DISPLAY "WRITE TO INVOICE-FILE".
441  000127               *
442  000128                    READ INVOICE-INPUT
   24
443  000129     1              AT END MOVE 'Y' TO WS-EOF-SW-IN.
   68
444  000130               *
445  000131                    IF WS-EOF-IN-NO THEN
   69
446  000132     1                  DISPLAY "NTH READ INVOICE-INPUT-RECORD="
447  000133     1                  INVOICE-INPUT-RECORD
   28
448  000134                    ELSE
449  000135     1                  DISPLAY "EOF INVOICE-INPUT"
450  000136                    END-IF.
451  000137               *
452  000138               800-PROGRAM-FAILED.
453  000139                    DISPLAY "PROGRAM TERMINATED WITH DIVIDE BY ZERO!".
454  000140                    DISPLAY "CHECK ERROR MESSAGES IN SYSOUT PART OF JOB SUMMARY".
455  000141                    COMPUTE WS-NBR = WS-NBR / WS-NBR.
   74 74 74
456  000142               *
457  000143               900-COMPLETED-OK.
458  000144                    DISPLAY "PROGRAM COMPLETED OK".
459  000145                    STOP RUN.
460  000146               *
461 */ INVLOFEC
```

```
462 PP 5655-S71 IBM Enterprise COBOL for z/OS  4.2.0            INVLOFEC  Date 03/17/2023  Time
     17:01:07   Page     6
463 An "M" preceding a data-name reference indicates that the data-name is modified by this
    reference.
464
465  Defined    Cross-reference of data names    References
466
467        39   INV-AMOUNT
468        56   INV-AMOUNT-1
469        33   INV-CUSTOMER-NUMBER
470        50   INV-CUSTOMER-NUMBER-1
471        32   INV-INVOICE-DATE
472        49   INV-INVOICE-DATE-1
473        31   INV-INVOICE-NUMBER
474        48   INV-INVOICE-NUMBER-1
475        40   INV-INVOICE-TOTAL
476        57   INV-INVOICE-TOTAL-1
477        30   INV-KEY
478        47   INV-KEY-1. . . . . . . . . .  17
479        35   INV-LINE-ITEM
480        52   INV-LINE-ITEM-1
481        34   INV-PO-NUMBER
482        51   INV-PO-NUMBER-1
483        36   INV-PRODUCT-CODE
484        53   INV-PRODUCT-CODE-1
485        37   INV-QUANTITY
486        54   INV-QUANTITY-1
487        38   INV-UNIT-PRICE
488        55   INV-UNIT-PRICE-1
489        42   INVOICE-FILE . . . . . . . .  16 91
490        45   INVOICE-FILE-RECORD. . . . .  M125
491        24   INVOICE-INPUT. . . . . . . .  12 82 107 128
492        28   INVOICE-INPUT-RECORD . . . .  112 125 133
493        67   WS-CM-REC. . . . . . . . . .  M80
494        69   WS-EOF-IN-NO . . . . . . . .  110 131
495        70   WS-EOF-IN-YES. . . . . . . .  115
496        72   WS-EOF-OUT-NO
497        73   WS-EOF-OUT-YES
498        68   WS-EOF-SW-IN . . . . . . . .  M108 M129
499        71   WS-EOF-SW-OUT
500        62   WS-INFILE-EOF
501        61   WS-INFILE-SUCCESS. . . . . .  83
502        60   WS-INFILE-SW . . . . . . . .  14 M78 86
503        74   WS-NBR . . . . . . . . . . .  M141 141 141
504        66   WS-OUTFILE-EOF
505        65   WS-OUTFILE-IOERROR . . . . .  94
506        64   WS-OUTFILE-SUCCESS . . . . .  92
507        63   WS-OUTFILE-SW. . . . . . . .  20 M79 95 102
508 PP 5655-S71 IBM Enterprise COBOL for z/OS  4.2.0            INVLOFEC  Date 03/17/2023  Time
     17:01:07   Page     7
509 Context usage is indicated by the letter preceding a procedure-name reference.
510 These letters and their meanings are:
511     A = ALTER (procedure-name)
512     D = GO TO (procedure-name) DEPENDING ON
513     E = End of range of (PERFORM) through (procedure-name)
514     G = GO TO (procedure-name)
515     P = PERFORM (procedure-name)
```

516   T = (ALTER) TO PROCEED TO (procedure-name)
517   U = USE FOR DEBUGGING (procedure-name)
518
519 Defined   Cross-reference of procedures   References
520
521   77   000-MAIN-PARA
522   123   100-LOAD-PARA. P114
523   138   800-PROGRAM-FAILED P88 P100 P104 P118
524   143   900-COMPLETED-OK P121
525 PP 5655-S71 IBM Enterprise COBOL for z/OS 4.2.0   INVLOFEC Date 03/17/2023 Time
   17:01:07   Page   8
526 Defined   Cross-reference of programs   References
527
528   2   INVLOFEC
529 * Statistics for COBOL program INVLOFEC:
530 *   Source records = 146
531 *   Data Division statements = 39
532 *   Procedure Division statements = 39
533 End of compilation 1, program INVLOFEC, no statements flagged.
534 Return code 0
535 z/OS V2 R4 BINDER   17:01:08 FRIDAY MARCH 17, 2023
536 BATCH EMULATOR JOB(INVLEFEC) STEP(COBOL) PGM= IEWBLINK PROCEDURE(LKED   )
537
538
539
540   *** O P E R A T I O N   S U M M A R Y   R E P O R T ***
541
542 PROCESSING OPTIONS:
543
544   ALIASES   NO
545   ALIGN2   NO
546   AMODE   UNSPECIFIED
547   CALL   YES
548   CASE   UPPER
549   COMPAT   UNSPECIFIED
550   COMPRESS   AUTO
551   DCBS   NO
552   DYNAM   NO
553   EXTATTR   UNSPECIFIED
554   EXITS: NONE
555   FILL   NONE
556   GID   UNSPECIFIED
557   HOBSET   NO
558   INFO   NO
559   LET   04
560   LINECT   060
561   LIST   SUMMARY
562   LISTPRIV   NO
563   LONGPARM   NO
564   MAP   NO
565   MAXBLK   032760
566   MODMAP   NO
567   MSGLEVEL   00
568   OVLY   NO
569   PRINT   YES
570   RES   NO
571   REUSABILITY   UNSPECIFIED

```
572    RMODE              UNSPECIFIED
573    RMODEX             NO
574    SIGN               NO
575    STORENX            NOREPLACE
576    STRIPCL            NO
577    STRIPSEC           NO
578    SYMTRACE
579    TERM               NO
580    TRAP               ON
581    UID                UNSPECIFIED
582    UPCASE             NO
583    WKSPACE            000000K,000000K
584    XCAL               NO
585    XREF               NO
586    ***END OF OPTIONS***
587
588
589
590
591 SAVE OPERATION SUMMARY:
592
593    MEMBER NAME        INVLOFEC
594    LOAD LIBRARY       KC03FEC.COBOL.LOADLIB
595    PROGRAM TYPE       PROGRAM OBJECT(FORMAT 2)
596    VOLUME SERIAL      KCTR00
597    DISPOSITION        REPLACED
598    TIME OF SAVE       17.01.08  MAR 17, 2023
599
600
601 SAVE MODULE ATTRIBUTES:
602
603    AC                 000
604    AMODE               31
605    COMPRESSION        NONE
606    DC                 NO
607    EDITABLE           YES
608    EXCEEDS 16MB       NO
609    EXECUTABLE         YES
610    LONGPARM           NO
611    MIGRATABLE         YES
612    OL                 NO
613    OVLY               NO
614    PACK,PRIME         NO,NO
615    PAGE ALIGN         NO
616    REFR               NO
617    RENT               NO
618    REUS               NO
619    RMODE              ANY
620    SCTR               NO
621    SIGN               NO
622    SSI
623    SYM GENERATED      NO
624    TEST               NO
625    XPLINK             NO
626    MODULE SIZE (HEX)  00005528
627    DASD SIZE (HEX)    0000B000
628
```

629
630 ENTRY POINT AND ALIAS SUMMARY:
631
632 NAME: ENTRY TYPE AMODE C_OFFSET CLASS NAME   STATUS
633
634 INVLOFEC   MAIN_EP   31 00000000 B_TEXT
635
636   *** E N D   O F   O P E R A T I O N   S U M M A R Y   R E P O R T ***
637
638
639
640
641 z/OS V2 R4 BINDER   17:01:08 FRIDAY MARCH 17, 2023
642 BATCH EMULATOR JOB(INVLEFEC) STEP(COBOL   ) PGM= IEWBLINK PROCEDURE(LKED   )
643 IEW2008I 0F03 PROCESSING COMPLETED. RETURN CODE = 0.
644
645
646
647 ----------------------
648 MESSAGE SUMMARY REPORT
649 ----------------------
650 TERMINAL MESSAGES   (SEVERITY = 16)
651 NONE
652
653 SEVERE MESSAGES   (SEVERITY = 12)
654 NONE
655
656 ERROR MESSAGES   (SEVERITY = 08)
657 NONE
658
659 WARNING MESSAGES   (SEVERITY = 04)
660 NONE
661
662 INFORMATIONAL MESSAGES (SEVERITY = 00)
663 2008
664
665
666 **** END OF MESSAGE SUMMARY REPORT ****
667
668