```
   SSSSSSSSSS     IIIIIIIIII   MM         MM  OOOOOOOOOOOO  NN         NN  CCCCCCCCCC   OOOOOOOOOOOO
   SSSSSSSSSSSS   IIIIIIIIII   MMM       MMM  OOOOOOOOOOOO  NNN        NN  CCCCCCCCCCCC  OOOOOOOOOOOO
   SS       SS        II       MMMM     MMMM  OO        OO  NNNN       NN  CC        CC  OO        OO
   SS                 II       MM MM   MM MM  OO        OO  NN NN      NN  CC            OO        OO
   SSS                II       MM  MMMM MM    OO        OO  NN NN      NN  CC            OO        OO
   SSSSSSSSS          II       MM   MM  MM    OO        OO  NN  NN     NN  CC            OO        OO
   SSSSSSSSS          II       MM       MM    OO        OO  NN   NN    NN  CC            OO        OO
         SSS          II       MM       MM    OO        OO  NN    NN   NN  CC            OO        OO
          SS          II       MM       MM    OO        OO  NN     NNNN    CC            OO        OO
   SS     SS          II       MM       MM    OO        OO  NN      NNN    CC        CC  OO        OO
   SSSSSSSSSSSS   IIIIIIIIII   MM       MM    OOOOOOOOOOOO  NN       NN    CCCCCCCCCCCC  OOOOOOOOOOOO
   SSSSSSSSS      IIIIIIIIII   MM       MM    OOOOOOOOOOOO  NN        N    CCCCCCCCCC    OOOOOOOOOOOO


   JJJJJJJJJJ   2222222222     00000000     3333333333                              AAAAAAAAAA
   JJJJJJJJJJ   222222222222   0000000000   333333333333                            AAAAAAAAAAAA
         JJ     22        22   00      0000  33        33                            AA        AA
         JJ               22   00    00  00              33                          AA        AA
         JJ               22   00   00   00              33                          AA        AA
         JJ               22   00  00    00            3333                          AAAAAAAAAAAA
         JJ               22   00 00     00            3333                          AAAAAAAAAAAA
         JJ            22      00 00     00              33                          AA        AA
   JJ    JJ         22         0000      00              33                          AA        AA
   JJ    JJ      22            000       00  33          33                          AA        AA
   JJJJJJJJ   222222222222     0000000000   333333333333                            AA        AA
     JJJJJ    222222222222     00000000     3333333333                              AA        AA


****A  START  JOB  203  SIMONCO   BIBLIOGRAPHY        ROOM        3.03.20 PM 18 MAY 24  PRINTER1  SYS HMVS  JOB  203  START  A****
```

```
                          J E S 2   J O B   L O G

15.03.20 JOB  203  $HASP373 SIMONCO  STARTED - INIT  1 - CLASS A - SYS HMVS
15.03.20 JOB  203  IEF403I SIMONCO - STARTED - TIME=15.03.20
15.03.20 JOB  203  IEFACTRT COB     /IKFCBL00/00:00:00.05/00:00:00.11/00000/SIMONCO
15.03.20 JOB  203  IEFACTRT GO      /LOADER  /00:00:00.02/00:00:00.05/00000/SIMONCO
15.03.20 JOB  203  IEF404I SIMONCO - ENDED - TIME=15.03.20
15.03.20 JOB  203  $HASP395 SIMONCO  ENDED


------ JES2 JOB STATISTICS ------


 18 MAY 24 JOB EXECUTION DATE


        92 CARDS READ


       217 SYSOUT PRINT RECORDS


         0 SYSOUT PUNCH RECORDS


      0.00 MINUTES EXECUTION TIME
```

```
     1     //SIMONCO JOB (1),'BIBLIOGRAPHY',CLASS=A,MSGCLASS=A              JOB  203
     2     //COBOL  EXEC PROC=COB2UCG,SYSOUT='*'
     3     XXCOBUCG PROC SYSOUT=A                                          00000100
           ***     PROC FOR COBOL OS/VS 1.2.4                             00000200
     4     XXCOB    EXEC  PGM=IKFCBL00                                     00000300
     5     XXSTEPLIB  DD   DSN=SIMON.COB.VSCOLIB,DISP=SHR                  00000400
     6     XXSYSPRINT DD   SYSOUT=&SYSOUT                                  00000500
     7     XXSYSPUNCH DD   SYSOUT=B                                        00000600
     8     XXSYSUT1   DD   UNIT=SYSDA,SPACE=(CYL,(1,1))                    00000700
     9     XXSYSUT2   DD   UNIT=SYSDA,SPACE=(CYL,(1,1))                    00000800
    10     XXSYSUT3   DD   UNIT=SYSDA,SPACE=(CYL,(1,1))                    00000900
    11     XXSYSUT4   DD   UNIT=SYSDA,SPACE=(CYL,(1,1))                    00001000
    12     XXSYSLIN   DD   DSN=&&LOADSET,UNIT=SYSDA,DISP=(MOD,PASS),       00001100
           XX              SPACE=(TRK,(3,3)),DCB=BLKSIZE=800               00001200
    13     //SYSIN   DD *
    14     XXGO     EXEC  PGM=LOADER,COND=(5,LT,COB)                       00001300
    15     XXSYSLIN   DD   DSN=&&LOADSET,DISP=(OLD,DELETE)                 00001400
    16     XXSYSLOUT  DD   SYSOUT=&SYSOUT                                  00001500
    17     XXSYSOUT   DD   SYSOUT=&SYSOUT                                  00001600
    18     XXSYSLIB   DD   DSN=SIMON.COB.VSCLLIB,DISP=SHR                  00001700
    19     //GO.INPUT  DD *
    20     //GO.OUTPUT DD SYSOUT=*,
           //              DCB=(RECFM=FBA,LRECL=132,BLKSIZE=13200)
           //
```

```
 STMT NO. MESSAGE
-
    6     IEF653I SUBSTITUTION JCL - SYSOUT=*
   16     IEF653I SUBSTITUTION JCL - SYSOUT=*
   17     IEF653I SUBSTITUTION JCL - SYSOUT=*
IEF236I ALLOC. FOR SIMONCO COB COBOL
IEF237I 180  ALLOCATED TO STEPLIB
IEF237I 180  ALLOCATED TO SYS00084
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSPUNCH
IEF237I 251  ALLOCATED TO SYSUT1
IEF237I 252  ALLOCATED TO SYSUT2
IEF237I 251  ALLOCATED TO SYSUT3
IEF237I 252  ALLOCATED TO SYSUT4
IEF237I 252  ALLOCATED TO SYSLIN
IEF237I JES2 ALLOCATED TO SYSIN
IEF142I SIMONCO COB COBOL - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SIMON.COB.VSCOLIB                        KEPT          *--------0
IEF285I   VOL SER NOS= PUB000.
IEF285I   UCPUB000                                 KEPT          *--------0
IEF285I   VOL SER NOS= PUB000.
IEF285I   JES2.JOB00203.SO0103                     SYSOUT
IEF285I   JES2.JOB00203.SO0104                     SYSOUT
IEF285I   SYS24139.T150320.RA000.SIMONCO.R0000001  DELETED       *--------6
IEF285I   VOL SER NOS= WORK00.
IEF285I   SYS24139.T150320.RA000.SIMONCO.R0000002  DELETED       *--------6
IEF285I   VOL SER NOS= WORK01.
IEF285I   SYS24139.T150320.RA000.SIMONCO.R0000003  DELETED       *-------12
IEF285I   VOL SER NOS= WORK00.
IEF285I   SYS24139.T150320.RA000.SIMONCO.R0000004  DELETED       *--------6
IEF285I   VOL SER NOS= WORK01.
IEF285I   SYS24139.T150320.RA000.SIMONCO.LOADSET   PASSED        *--------8
IEF285I   VOL SER NOS= WORK01.
IEF285I   JES2.JOB00203.SI0101                     SYSIN
IEF373I STEP /COB   / START 24139.1503
IEF374I STEP /COB   / STOP  24139.1503 CPU   0MIN 00.04SEC SRB   0MIN 00.01SEC VIRT   136K SYS   212K
**** JOB NAME: SIMONCO  JOBCARD READ 2024/139 15:03:20 370/ 84 VS2 R03.8 HMVS ******************************************************
*                                                                                                                    *
*  STEP NUMBER:      1  USER CORE:      136K  START TIME:   15:03:20    CPU TIME:     00:00:00.05  ACTIVE TIME:  00:00:00.07 *
*  STEP NAME:    COB     SYSTEM CORE:    212K  STOP TIME:    15:03:20    SRB TIME:     00:00:00.01  ALLOC TIME:   15:03:20    *
*  PROGRAM NAME: IKFCBL00  REGION SIZE:    512K  ELAPSED TIME: 00:00:00.11  TCB TIME:     00:00:00.04  PROGRAM LOAD: 15:03:20 *
*  CONDITION CODE:   00000  PERFORMANCE GROUP: 004                                                                    *
*                           JES2 CARDS:       6          SERVICE UNITS  PAGES IN/OUT  # SWAPS  PAGES SWAP IN/OUT  VIO PAGES IN/OUT *
*                                                            235       0 /   0        0         0 /   0          0 /   0  *
*                                                                                                                    *
*   ADDR/UNIT I/O COUNT  ADDR/UNIT I/O COUNT  ADDR/UNIT I/O COUNT  ADDR/UNIT I/O COUNT  ADDR/UNIT I/O COUNT  ADDR/UNIT I/O COUNT  *
*   180/D3380      0 180/D3380      0 251/D3350      6 252/D3350      6 251/D3350     12 252/D3350      6  *
*   252/D3350      8                                                                                                  *
****************************************************************************************************************************
IEF236I ALLOC. FOR SIMONCO GO COBOL
IEF237I 252  ALLOCATED TO SYSLIN
IEF237I JES2 ALLOCATED TO SYSLOUT
IEF237I JES2 ALLOCATED TO SYSOUT
IEF237I 180  ALLOCATED TO SYSLIB
```

```
IEF237I 180  ALLOCATED TO SYS00086
IEF237I JES2 ALLOCATED TO INPUT
IEF237I JES2 ALLOCATED TO OUTPUT
IEF142I SIMONCO GO COBOL — STEP WAS EXECUTED — COND CODE 0000
IEF285I   SYS24139.T150320.RA000.SIMONCO.LOADSET      DELETED        *————————9
IEF285I   VOL SER NOS= WORK01.
IEF285I   JES2.JOB00203.SO0105                        SYSOUT
```

```
IEF285I    JES2.JOB00203.SO0106                        SYSOUT
IEF285I    SIMON.COB.VSCLLIB                           KEPT            *-------62
IEF285I    VOL SER NOS= PUB000.
IEF285I    UCPUB000                                    KEPT            *--------0
IEF285I    VOL SER NOS= PUB000.
IEF285I    JES2.JOB00203.SI0102                        SYSIN
IEF285I    JES2.JOB00203.SO0107                        SYSOUT
IEF373I STEP /GO      / START 24139.1503
IEF374I STEP /GO      / STOP  24139.1503 CPU    0MIN 00.02SEC SRB    0MIN 00.00SEC VIRT   332K SYS   216K
*******************************************************************************************************************
*                                                                                                                 *
*  STEP NUMBER:        2  USER CORE:        332K  START TIME:   15:03:20    CPU TIME:      00:00:00.02  ACTIVE TIME:  00:00:00.04 *
*  STEP NAME:     GO         SYSTEM CORE:   216K  STOP TIME:    15:03:20    SRB TIME:      00:00:00.00  ALLOC TIME:   15:03:20    *
*  PROGRAM NAME: LOADER      REGION SIZE:   512K  ELAPSED TIME: 00:00:00.05 TCB TIME:      00:00:00.02  PROGRAM LOAD: 15:03:20    *
*  CONDITION CODE:   00000  PERFORMANCE GROUP: 004                                                                 *
*                           JES2 CARDS:        1       SERVICE UNITS  PAGES IN/OUT  # SWAPS  PAGES SWAP IN/OUT  VIO PAGES IN/OUT *
*                                                           401      0 /   0        0          0 /   0           0 /   0 *
*                                                                                                                 *
*   ADDR/UNIT I/O COUNT  ADDR/UNIT I/O COUNT  ADDR/UNIT I/O COUNT  ADDR/UNIT I/O COUNT  ADDR/UNIT I/O COUNT  ADDR/UNIT I/O COUNT  *
*   252/D3350       9  180/D3380       62  180/D3380        0                                                      *
*******************************************************************************************************************
IEF375I  JOB /SIMONCO / START 24139.1503
IEF376I  JOB /SIMONCO / STOP  24139.1503 CPU    0MIN 00.06SEC SRB    0MIN 00.01SEC
```

```
00001              IDENTIFICATION DIVISION.
00002              PROGRAM-ID. BIBLIOGRAPHY-LIST.
00003              AUTHOR. SIMON SULSER.
00004              DATE-WRITTEN. MAY 18,1924.
00005              DATE-COMPILED. MAY 18,1924.
00006         *
00007              ENVIRONMENT DIVISION.
00008              CONFIGURATION SECTION.
00009              SOURCE-COMPUTER. IBM-370.
00010              OBJECT-COMPUTER. IBM-370.
00011         *
00012              INPUT-OUTPUT SECTION.
00013              FILE-CONTROL.
00014                  SELECT BIBLIO-FILE ASSIGN TO UT-S-INPUT.
00015                  SELECT PRINT-FILE ASSIGN TO UT-S-OUTPUT.
00016         *
00017              DATA DIVISION.
00018              FILE SECTION.
00019              FD  BIBLIO-FILE
00020                  LABEL RECORD IS OMITTED.
00021              01  BIBLIO-RECORD.
00022                  05  BOOK-TITLE            PIC X(30).
00023                  05  BOOK-AUTHOR           PIC X(25).
00024                  05  BOOK-PUBLISHER        PIC X(21).
00025                  05  BOOK-PRICE            PIC 99V99.
00026         *
00027              FD  PRINT-FILE

00028                  LABEL RECORD IS OMITTED.
00029              01  PRINT-LINE.
00030                  05  FILLER               PIC X(19).
00031                  05  BOOK-AUTHOR          PIC X(25).
00032                  05  FILLER               PIC X(5).
00033                  05  BOOK-TITLE           PIC X(30).
00034                  05  FILLER               PIC X(5).
00035                  05  BOOK-PUBLISHER       PIC X(21).
00036                  05  FILLER               PIC X(4).
00037                  05  BOOK-PRICE           PIC $99.99.
00038                  05  FILLER               PIC X(17).
00039         *
00040              WORKING-STORAGE SECTION.
00041         *
00042              PROCEDURE DIVISION.
00043              000-MAIN.
00044                  PERFORM INITIALIZATION.
00045                  PERFORM READ-PROCESS-PRINT 15 TIMES.
00046                  PERFORM CLOSING.
00047                  STOP RUN.
```

```
00048        *
00049         INITIALIZATION.
00050            OPEN INPUT BIBLIO-FILE.
00051            OPEN OUTPUT PRINT-FILE.
00052            MOVE SPACES TO PRINT-LINE.
00053        *
00054         READ-PROCESS-PRINT.
```

```
00055          READ BIBLIO-FILE

00056              AT END STOP RUN.
00057          MOVE BOOK-TITLE OF BIBLIO-RECORD TO
00058              BOOK-TITLE OF PRINT-LINE.
00059          MOVE BOOK-AUTHOR OF BIBLIO-RECORD TO
00060              BOOK-AUTHOR OF PRINT-LINE.
00061          MOVE BOOK-PUBLISHER OF BIBLIO-RECORD TO
00062              BOOK-PUBLISHER OF PRINT-LINE.
00063          MOVE BOOK-PRICE OF BIBLIO-RECORD TO
00064              BOOK-PRICE OF PRINT-LINE.
00065          WRITE PRINT-LINE.
00066      *
00067       CLOSING.
00068          CLOSE BIBLIO-FILE, PRINT-FILE.
```

STATISTICS   SOURCE RECORDS =   68   DATA DIVISION STATEMENTS =   17   PROCEDURE DIVISION STATEMENTS =   15
OPTIONS IN EFFECT   SIZE = 131072   BUF =   12288   LINECNT = 57   SPACE1, FLAGW,   SEQ,   SOURCE
OPTIONS IN EFFECT   NODMAP, NOPMAP, NOCLIST, NOSUPMAP, NOXREF, NOSXREF,   LOAD, NODECK, QUOTE, NOTRUNC, NOFLOW
OPTIONS IN EFFECT   NOTERM, NONUM, NOBATCH, NONAME, COMPILE=01, NOSTATE, NORESIDENT, NODYNAM, NOLIB, NOSYNTAX
OPTIONS IN EFFECT   NOOPTIMIZE, NOSYMDMP, NOTEST,   VERB,   ZWB, SYST, NOENDJOB, NOLVL
OPTIONS IN EFFECT   NOLST , NOFDECK,NOCDECK, LCOL2, L120,   DUMP ,   ADV , NOPRINT,
OPTIONS IN EFFECT   NOCOUNT, NOVBSUM, NOVBREF, LANGLVL(2)

VS LOADER

OPTIONS USED - PRINT,NOMAP,NOLET,CALL,RES,NOTERM,SIZE=307200,NAME=**GO

   TOTAL LENGTH   2010
   ENTRY ADDRESS   9C010

MCGRAW-HILL BOOK CO	MIS CONCEPTUAL FOUNDATIONS	DAVIS, GORDON B.	$13.95
MCGRAW-HILL BOOK CO.	COMPUTERS IN SOCIETY	SANDERS, DONALD H.	$10.95
PRENTICE-HALL, INC	RPG FOR IBM SYSTEMS/360,370	LOSCHETTER, RICHARD P	$20.50
ADOISON-WESLEY, INC.	INTRO DIGITAL COMPUTING	RDEN, BRUCE W.	$13.95
MCGRAW-HILL BOOK CO.	COMPUTER OATA PROCESSING	DAVIS, GORDON B.	$13.50
JOHN WILEY SONS INC	EOP FOR AUDITORS	BROWN, HARRY	$07.95
PRENTICE-HALL, INC.	FUNDAMENTAL COBOL, IBM 360	JONES, ROBERT L.	$09.50
MCGRAW-HILL BOOK	ELEMENTS OF PROGRAMMING STYLE	KERNIGHAN/PLAUGER CO.	$03.95
PRENTICE-HALL, INC.	COMPUTER SORTING	FLORES, IVAN	$14.95
RINEHART PRESS	INTRODUCTION TO FORTRAN IV	DICKSON/SMITH	$06.75
PRENTICE-HALL, INC.	THE COMPUTERIZED SOCIETY	MARTIN/NORMAN	$10.95
MCGRAW HILL BOOK CO.	COMPUTERS IN BUSINESS	SANDERS, DONALD	$08.95
SPARTAN BOOKS	GAME PLAYING WITH COMPUTERS	SPENCER, DONALD O.	$12.95
PETROCELLI/CHARTER	INTRO TO DECISION SCIENCE	LEE/MOORE	$14.50
PETROCELLI/CHARTER	AUDIT AND CONTROL OF COMP.SYS.	JANCURA, ELISE G.	$13.95

```
        SSSSSSSSS    IIIIIIIII   MM         MM OOOOOOOOOOO  NN         NN  CCCCCCCCCC   OOOOOOOOOOO
       SSSSSSSSSSS   IIIIIIIIII   MMM       MMM OOOOOOOOOOO  NNN        NN CCCCCCCCCCCC  OOOOOOOOOOO
      SS       SS       II       MMMM     MMMM OO       OO NNNN       NN CC        CC OO        OO
      SS                II       MM MM   MM MM OO       OO NN NN      NN CC           OO        OO
      SSS               II       MM  MMMM  MM OO       OO NN  NN     NN CC              OO        OO
      SSSSSSSS          II       MM   MM   MM OO       OO NN   NN    NN CC              OO        OO
      SSSSSSSS          II       MM        MM OO       OO NN    NN   NN CC              OO        OO
            SSS         II       MM        MM OO       OO NN     NN  NN CC              OO        OO
            SS          II       MM        MM OO       OO NN      NNNN CC              OO        OO
      SS       SS       II       MM        MM OO       OO NN       NNN CC        CC OO        OO
      SSSSSSSSSSSS   IIIIIIIIII  MM        MM OOOOOOOOOOO  NN         NN CCCCCCCCCCCC  OOOOOOOOOOO
       SSSSSSSSSS    IIIIIIIII   MM        MM OOOOOOOOOOO  NN          N  CCCCCCCCCC   OOOOOOOOOOO


          JJJJJJJJJ   2222222222    00000000    3333333333                            AAAAAAAAAA
          JJJJJJJJJ  222222222222  0000000000  333333333333                          AAAAAAAAAAAA
                 JJ  22        22  00      0000 33        33                          AA        AA
                 JJ            22  00     00 00           33                          AA        AA
                 JJ            22  00    00  00           33                          AA        AA
                 JJ           22   00   00   00         3333                          AAAAAAAAAAAA
                 JJ          22    00  00    00         3333                          AAAAAAAAAAAA
                 JJ         22     00 00     00           33                          AA        AA
          JJ     JJ        22      0000      00           33                          AA        AA
          JJ     JJ       22       000       00 33        33                          AA        AA
          JJJJJJJJ   222222222222  0000000000  333333333333                          AA        AA
           JJJJJJ    222222222222   00000000    3333333333                            AA        AA


****A   END   JOB   203   SIMONCO    BIBLIOGRAPHY         ROOM         3.03.20 PM 18 MAY 24  PRINTER1  SYS HMVS  JOB   203   END   A****
```