

# J E S 2 J O B L O G

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16.44.29 JOB 3389 $HASP373 ASM2COBS STARTED - INIT 1 - CLASS A - SYS HMVS
16.44.29 JOB 3389 IEF403I ASM2COBS - STARTED - TIME=16.44.29
16.44.30 JOB 3389 IEFACTRT ASM /IFOX00 /00:00:00.04/00:00:00.07/00000/ASM2COBS
16.44.30 JOB 3389 IEC130I SYSLIB DD STATEMENT MISSING
16.44.30 JOB 3389 IEFACTRT COB /IKFCBL00/00:00:00.03/00:00:00.05/00000/ASM2COBS
16.44.30 JOB 3389 IEFACTRT LINKSTEP/IEWL /00:00:00.01/00:00:00.02/00000/ASM2COBS
16.44.30 JOB 3389 +ASM2COBS BEGINS EXECUTION
16.44.30 JOB 3389 +VARIABLE 01: HICKORY, DICKORY, DOCK ...
16.44.30 JOB 3389 +VARIABLE 02: 47.25 -
16.44.30 JOB 3389 +VARIABLE 03: 28.13
16.44.30 JOB 3389 +VARIABLE 04: .00
16.44.30 JOB 3389 +CALLING COBOL SUBROUTINE
16.44.30 JOB 3389 +COBSUB BEGINS EXECUTION
16.44.30 JOB 3389 +VARIABLE 01: HICKORY, DICKORY, DOCK ...
16.44.30 JOB 3389 +VARIABLE 02: 47.25-
16.44.30 JOB 3389 +VARIABLE 03: 28.13
16.44.30 JOB 3389 +VARIABLE 04: 0.00
16.44.30 JOB 3389 +MODIFYING VARIABLE 01
16.44.30 JOB 3389 +VARIABLE 01: THE MOUSE RAN UP THE CLOCK.
16.44.30 JOB 3389 +COMPUTING NEW VARIABLE 04
16.44.30 JOB 3389 +VARIABLE 04: 19.12-
16.44.30 JOB 3389 +COBSUB ENDS EXECUTION
16.44.30 JOB 3389 +RETURN FROM COBOL SUBROUTINE
16.44.30 JOB 3389 +VARIABLE 01: THE MOUSE RAN UP THE CLOCK.
16.44.30 JOB 3389 +VARIABLE 02: 47.25 -
16.44.30 JOB 3389 +VARIABLE 03: 28.13
16.44.30 JOB 3389 +VARIABLE 04: 19.12 -
16.44.30 JOB 3389 +ASM2COBS ENDS EXECUTION
16.44.30 JOB 3389 IEFACTRT GO /PGM=*.DD/00:00:00.00/00:00:00.01/00000/ASM2COBS
16.44.30 JOB 3389 IEF404I ASM2COBS - ENDED - TIME=16.44.30
16.44.30 JOB 3389 $HASP395 ASM2COBS ENDED

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

20 FEB 24 JOB EXECUTION DATE

208 CARDS READ

611 SYSOUT PRINT RECORDS

0 SYSOUT PUNCH RECORDS

0.00 MINUTES EXECUTION TIME

|    |            |                                                            |           |
|----|------------|------------------------------------------------------------|-----------|
| 1  | //ASM2COBS | JOB (1), 'ASM CALLING COBOL', CLASS=A, MSGCLASS=X          | JOB 3389  |
| 2  | //ASMSTEP  | EXEC ASMXC                                                 | 00000202  |
| 3  | XXASMXC    | PROC MAC='SYS1.MACLIB', MAC1='SYS1.MACLIB'                 | 00050000  |
| 4  | XXASM      | EXEC PGM=IFOX00, REGION=128K                               | 00100000  |
| 5  | XXSTEPLIB  | DD DSN=SYSC.LINKLIB, DISP=SHR                              | 00110000  |
| 6  | XXSYSLIB   | DD DSN=&MAC, DISP=SHR                                      | 00150000  |
| 7  | XX         | DD DSN=&MAC1, DISP=SHR                                     | 00200000  |
| 8  | XXSYSUT1   | DD DSN=&&SYSUT1, UNIT=SYSSQ, SPACE=(1700, (600, 100)),     | 00250000  |
|    | XX         | SEP=(SYSLIB)                                               | 00300000  |
| 9  | XXSYSUT2   | DD DSN=&&SYSUT2, UNIT=SYSSQ, SPACE=(1700, (300, 50)),      | 00350000  |
|    | XX         | SEP=(SYSLIB, SYSUT1)                                       | 00400000  |
| 10 | XXSYSUT3   | DD DSN=&&SYSUT3, UNIT=SYSSQ, SPACE=(1700, (300, 50))       | 00450000  |
| 11 | //SYSPRINT | DD SYSOUT=*                                                | 00000302  |
|    | X/SYSPRINT | DD SYSOUT=A, DCB=BLKSIZE=1089                              | 00500000  |
| 12 | XXSYSPUNCH | DD SYSOUT=B                                                | 00550000  |
| 13 | //SYSGO    | DD DSN=&&OBJSET, UNIT=SYSSQ, SPACE=(80, (200, 50)),        | 00000402  |
|    | //         | DISP=(MOD, PASS)                                           | 00000502  |
| 14 | //SYSIN    | DD *                                                       | 00000602  |
| 15 | //COBSTEP  | EXEC COBUC, CPARM1='NODECK, LOAD, NOSEQ'                   | 00014003  |
| 16 | XXCOBUC    | PROC CPARM1='DECK, NOLOAD, SUPMAP',                        | 100010000 |
|    | XX         | CPARM2='SIZE=2048K, BUF=1024K'                             | 00020000  |
| 17 | XXCOB      | EXEC PGM=IKFCBL00, REGION=4096K,                           | 00040000  |
|    | XX         | PARM='&CPARM1, &CPARM2'                                    | 00050000  |
| 18 | XXSTEPLIB  | DD DSN=SYSC.LINKLIB, DISP=SHR                              | 00051000  |
| 19 | XXSYSPRINT | DD SYSOUT=*                                                | 00060000  |
| 20 | XXSYSPUNCH | DD SYSOUT=B                                                | 00070000  |
| 21 | XXSYSUT1   | DD UNIT=SYSDA, SPACE=(460, (700, 100))                     | 00080000  |
| 22 | XXSYSUT2   | DD UNIT=SYSDA, SPACE=(460, (700, 100))                     | 00090000  |
| 23 | XXSYSUT3   | DD UNIT=SYSDA, SPACE=(460, (700, 100))                     | 00100000  |
| 24 | XXSYSUT4   | DD UNIT=SYSDA, SPACE=(460, (700, 100))                     | 00110000  |
| 25 | //SYSLIN   | DD DSN=&&OBJSET, DISP=(MOD, PASS)                          | 00014103  |
| 26 | //SYSIN    | DD *                                                       | 00014203  |
| 27 | //LINKSTEP | EXEC PGM=IEWL,                                             | 00019102  |
|    | //         | PARM=(XREF, LET, LIST, CAL), REGION=128K,                  | 00019203  |
|    | //         | COND=(8, LT)                                               | 00019302  |
| 28 | //SYSLIB   | DD DSN=SYSC.COBLIB, DISP=SHR                               | 00019403  |
| 29 | //SYSLIN   | DD DSN=&&OBJSET, DISP=(OLD, DELETE)                        | 00019502  |
| 30 | //         | DD *                                                       | 00019603  |
| 31 | //SYSLMOD  | DD DSN=&&GOSET(GO), UNIT=SYSDA, SPACE=(1024, (50, 20, 1)), | 00019802  |
|    | //         | DISP=(MOD, PASS)                                           | 00019902  |
| 32 | //SYSUT1   | DD DSN=&&SYSUT1, UNIT=(SYSDA, SEP=(SYSLIN, SYSLMOD)),      | 00020002  |
|    | //         | SPACE=(1024, (50, 20))                                     | 00020102  |
| 33 | //SYSPRINT | DD SYSOUT=*                                                | 00020202  |
| 34 | //GO       | EXEC PGM=*.LINKSTEP.SYSLMOD, COND=((4, LT, LINKSTEP))      | 00020302  |
| 35 | //SYSUDUMP | DD SYSOUT=*                                                | 00020402  |

STMT NO. MESSAGE

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6 IEF653I SUBSTITUTION JCL - DSN=SYS1.MACLIB,DISP=SHR

7 IEF653I SUBSTITUTION JCL - DSN=SYS1.MACLIB,DISP=SHR

17 IEF653I SUBSTITUTION JCL - PARM='NODECK,LOAD,NOSEQ,SIZE=2048K,BUF=1024K'

IEF236I ALLOC. FOR ASM2COBS ASM ASMSTEP

IEF237I 253 ALLOCATED TO STEPLIB

IEF237I 253 ALLOCATED TO SYS00112

IEF237I 150 ALLOCATED TO SYSLIB

IEF237I 150 ALLOCATED TO

IEF237I 391 ALLOCATED TO SYSUT1

IEF237I 251 ALLOCATED TO SYSUT2

IEF237I 380 ALLOCATED TO SYSUT3

IEF237I JES2 ALLOCATED TO SYSPRINT

IEF237I JES2 ALLOCATED TO SYSPUNCH

IEF237I 252 ALLOCATED TO SYSGO

IEF237I JES2 ALLOCATED TO SYSIN

IEF142I ASM2COBS ASM ASMSTEP - STEP WAS EXECUTED - COND CODE 0000

IEF285I SYSC.LINKLIB KEPT \*-----0

IEF285I VOL SER NOS= SYSCPK.

IEF285I UCSYSCPK KEPT \*-----0

IEF285I VOL SER NOS= SYSCPK.

IEF285I SYS1.MACLIB KEPT \*-----14

IEF285I VOL SER NOS= MVSRES.

IEF285I SYS1.MACLIB KEPT \*-----0

IEF285I VOL SER NOS= MVSRES.

IEF285I SYS24051.T164429.RA000.ASM2COBS.SYSUT1 DELETED \*-----87

IEF285I VOL SER NOS= WORK03.

IEF285I SYS24051.T164429.RA000.ASM2COBS.SYSUT2 DELETED \*-----20

IEF285I VOL SER NOS= WORK00.

IEF285I SYS24051.T164429.RA000.ASM2COBS.SYSUT3 DELETED \*-----8

IEF285I VOL SER NOS= MVS380.

IEF285I JES2.JOB03389.S00104 SYSOUT

IEF285I JES2.JOB03389.S00105 SYSOUT

IEF285I SYS24051.T164429.RA000.ASM2COBS.OBJSET PASSED \*-----21

IEF285I VOL SER NOS= WORK01.

IEF285I JES2.JOB03389.SI0101 SYSIN

IEF373I STEP /ASM / START 24051.1644

IEF374I STEP /ASM / STOP 24051.1644 CPU 0MIN 00.04SEC SRB 0MIN 00.00SEC VIRT 128K SYS 184K

\*\*\*\* JOB NAME: ASM2COBS JOBCARD READ 2024/051 16:44:29 370/148 VS2 R03.8 HMVS \*\*\*\*\*

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|                       |                     |                     |                     |                     |                     |                     |                     |                     |                  |   |
|-----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------------|---|
| * STEP NUMBER:        | 1                   | USER CORE:          | 128K                | START TIME:         | 16:44:29            | CPU TIME:           | 00:00:00.04         | ACTIVE TIME:        | 00:00:00.05      | * |
| * STEP NAME:          | ASM                 | SYSTEM CORE:        | 184K                | STOP TIME:          | 16:44:30            | SRB TIME:           | 00:00:00.00         | ALLOC TIME:         | 16:44:29         | * |
| * PROGRAM NAME:       | IFOX00              | REGION SIZE:        | 128K                | ELAPSED TIME:       | 00:00:00.07         | TCB TIME:           | 00:00:00.04         | PROGRAM LOAD:       | 16:44:29         | * |
| * CONDITION CODE:     | 00000               | PERFORMANCE GROUP:  | 004                 |                     |                     |                     |                     |                     |                  | * |
| * JES2 CARDS:         | 13                  | SERVICE UNITS       |                     | PAGES IN/OUT        | #                   | SWAPS               | PAGES SWAP          | IN/OUT              | VIO PAGES IN/OUT | * |
|                       |                     | 855                 |                     | 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 | ADDR/UNIT I/O COUNT | ADDR/UNIT I/O COUNT | ADDR/UNIT I/O COUNT |                  | * |
| * 253/D3350 0         | 253/D3350 0         | 150/D3350 14        | 150/D3350 0         | 391/D3390 87        | 251/D3350 20        |                     |                     |                     |                  | * |
| * 380/D3380 8         | 252/D3350 21        |                     |                     |                     |                     |                     |                     |                     |                  | * |

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IEF236I ALLOC. FOR ASM2COBS COB COBSTEP

IEF237I 253 ALLOCATED TO STEPLIB

IEF237I 253 ALLOCATED TO SYS00114

IEF237I JES2 ALLOCATED TO SYSPRINT

IEF237I JES2 ALLOCATED TO SYSPUNCH

IEF237I 391 ALLOCATED TO SYSUT1

IEF237I 380 ALLOCATED TO SYSUT2

IEF237I 251 ALLOCATED TO SYSUT3

IEF237I 370 ALLOCATED TO SYSUT4

IEF237I 252 ALLOCATED TO SYSLIN  
IEF237I JES2 ALLOCATED TO SYSIN  
IEC130I SYSLIB DD STATEMENT MISSING  
IEF142I ASM2COBS COB COBSTEP - STEP WAS EXECUTED - COND CODE 0000  
IEF285I SYSC.LINKLIB KEPT \*------0  
IEF285I VOL SER NOS= SYSCPK.  
IEF285I UCSYSCPK KEPT \*------0  
IEF285I VOL SER NOS= SYSCPK.  
IEF285I JES2.JOB03389.S00106 SYSOUT  
IEF285I JES2.JOB03389.S00107 SYSOUT  
IEF285I SYS24051.T164429.RA000.ASM2COBS.R0000001 DELETED \*------6  
IEF285I VOL SER NOS= WORK03.  
IEF285I SYS24051.T164429.RA000.ASM2COBS.R0000002 DELETED \*------6  
IEF285I VOL SER NOS= MVS380.  
IEF285I SYS24051.T164429.RA000.ASM2COBS.R0000003 DELETED \*------9  
IEF285I VOL SER NOS= WORK00.  
IEF285I SYS24051.T164429.RA000.ASM2COBS.R0000004 DELETED \*------3  
IEF285I VOL SER NOS= MVS370.  
IEF285I SYS24051.T164429.RA000.ASM2COBS.OBJSET PASSED \*------34  
IEF285I VOL SER NOS= WORK01.  
IEF285I JES2.JOB03389.SI0102 SYSIN  
IEF373I STEP /COB / START 24051.1644  
IEF374I STEP /COB / STOP 24051.1644 CPU 0MIN 00.02SEC SRB 0MIN 00.01SEC VIRT 2076K SYS 240K  
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\*  
\* STEP NUMBER: 2 USER CORE: 2076K START TIME: 16:44:30 CPU TIME: 00:00:00.03 ACTIVE TIME: 00:00:00.03 \*  
\* STEP NAME: COB SYSTEM CORE: 240K STOP TIME: 16:44:30 SRB TIME: 00:00:00.01 ALLOC TIME: 16:44:30 \*  
\* PROGRAM NAME: IKFCBL00 REGION SIZE: 4096K ELAPSED TIME: 00:00:00.05 TCB TIME: 00:00:00.02 PROGRAM LOAD: 16:44:30 \*  
\* CONDITION CODE: 00000 PERFORMANCE GROUP: 004 \*  
\* JES2 CARDS: 5 SERVICE UNITS PAGES IN/OUT # SWAPS PAGES SWAP IN/OUT VIO PAGES IN/OUT \*  
\* 357 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 \*  
\* 253/D3350 0 253/D3350 0 391/D3390 6 380/D3380 6 251/D3350 9 370/D3375 3 \*  
\* 252/D3350 34 \*  
\*\*\*\*\*  
IEF236I ALLOC. FOR ASM2COBS LINKSTEP  
IEF237I 253 ALLOCATED TO SYSLIB  
IEF237I 253 ALLOCATED TO SYS00116  
IEF237I 252 ALLOCATED TO SYSLIN  
IEF237I JES2 ALLOCATED TO  
IEF237I 380 ALLOCATED TO SYSLMOD  
IEF237I 391 ALLOCATED TO SYSUT1  
IEF237I JES2 ALLOCATED TO SYSPRINT  
IEF142I ASM2COBS LINKSTEP - STEP WAS EXECUTED - COND CODE 0000  
IEF285I SYSC.COBLIB KEPT \*------17  
IEF285I VOL SER NOS= SYSCPK.  
IEF285I UCSYSCPK KEPT \*------0  
IEF285I VOL SER NOS= SYSCPK.  
IEF285I SYS24051.T164429.RA000.ASM2COBS.OBJSET DELETED \*------56  
IEF285I VOL SER NOS= WORK01.  
IEF285I JES2.JOB03389.SI0103 SYSIN  
IEF285I SYS24051.T164429.RA000.ASM2COBS.GOSET PASSED \*------11  
IEF285I VOL SER NOS= MVS380.  
IEF285I SYS24051.T164429.RA000.ASM2COBS.SYSUT1 DELETED \*------0  
IEF285I VOL SER NOS= WORK03.  
IEF285I JES2.JOB03389.S00108 SYSOUT  
IEF373I STEP /LINKSTEP/ START 24051.1644  
IEF374I STEP /LINKSTEP/ STOP 24051.1644 CPU 0MIN 00.01SEC SRB 0MIN 00.00SEC VIRT 128K SYS 188K  
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* STEP NUMBER:          3  USER CORE:          128K  START TIME:    16:44:30    CPU TIME:      00:00:00.01  ACTIVE TIME:  00:00:00.01  *
* STEP NAME:      LINKSTEP  SYSTEM CORE:        188K  STOP TIME:     16:44:30    SRB TIME:      00:00:00.00  ALLOC TIME:   16:44:30    *
* PROGRAM NAME:   IEWL      REGION SIZE:        128K  ELAPSED TIME: 00:00:00.02  TCB TIME:      00:00:00.01  PROGRAM LOAD: 16:44:30    *
* CONDITION CODE:  00000  PERFORMANCE GROUP: 004                                     *
* JES2 CARDS:          0      SERVICE UNITS  PAGES IN/OUT  # SWAPS  PAGES SWAP IN/OUT  VIO PAGES IN/OUT  *
*                               449          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  *
* 253/D3350          17 253/D3350          0 252/D3350          56 380/D3380          11 391/D3390          0          *
*****
IEF236I ALLOC. FOR ASM2COBS GO
IEF237I 380  ALLOCATED TO PGM=*.DD
IEF237I JES2 ALLOCATED TO SYSUDUMP
ASM2COBS BEGINS EXECUTION
VARIABLE 01: HICKORY, DICKORY, DOCK ...
VARIABLE 02:          47.25 -
VARIABLE 03:          28.13
VARIABLE 04:          .00
CALLING COBOL SUBROUTINE
COBSUB BEGINS EXECUTION
VARIABLE 01: HICKORY, DICKORY, DOCK ...
VARIABLE 02:          47.25-
VARIABLE 03:          28.13
VARIABLE 04:          0.00
MODIFYING VARIABLE 01
VARIABLE 01: THE MOUSE RAN UP THE CLOCK.
COMPUTING NEW VARIABLE 04
VARIABLE 04:          19.12-
COBSUB ENDS EXECUTION
RETURN FROM COBOL SUBROUTINE
VARIABLE 01: THE MOUSE RAN UP THE CLOCK.
VARIABLE 02:          47.25 -
VARIABLE 03:          28.13
VARIABLE 04:          19.12 -
ASM2COBS ENDS EXECUTION
IEF142I ASM2COBS GO - STEP WAS EXECUTED - COND CODE 0000
IEF285I  SYS24051.T164429.RA000.ASM2COBS.GOSET          KEPT          *-----0
IEF285I  VOL SER NOS= MVS380.
IEF285I  JES2.JOB03389.S00109          SYSOUT
IEF373I STEP /GO          / START 24051.1644
IEF374I STEP /GO          / STOP  24051.1644 CPU          0MIN 00.00SEC SRB          0MIN 00.00SEC VIRT          12K SYS          172K
*****
*
* STEP NUMBER:          4  USER CORE:          12K  START TIME:    16:44:30    CPU TIME:      00:00:00.00  ACTIVE TIME:  00:00:00.01  *
* STEP NAME:      GO      SYSTEM CORE:          172K  STOP TIME:     16:44:30    SRB TIME:      00:00:00.00  ALLOC TIME:   16:44:30    *
* PROGRAM NAME:   PGM=*.DD  REGION SIZE:          512K  ELAPSED TIME: 00:00:00.01  TCB TIME:      00:00:00.00  PROGRAM LOAD: 16:44:30    *
* CONDITION CODE:  00000  PERFORMANCE GROUP: 004                                     *
* JES2 CARDS:          0      SERVICE UNITS  PAGES IN/OUT  # SWAPS  PAGES SWAP IN/OUT  VIO PAGES IN/OUT  *
*                               1          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  *
* 380/D3380          0
*****
IEF237I 380  ALLOCATED TO SYS00001
IEF285I  SYS24051.T164430.RA000.ASM2COBS.R0000001          KEPT          *-----0
IEF285I  VOL SER NOS= MVS380.
IEF285I  SYS24051.T164429.RA000.ASM2COBS.GOSET          DELETED
IEF285I  VOL SER NOS= MVS380.
IEF375I JOB /ASM2COBS/ START 24051.1644
IEF376I JOB /ASM2COBS/ STOP  24051.1644 CPU          0MIN 00.07SEC SRB          0MIN 00.01SEC
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|          |      |      |        |        |      |                         |
|----------|------|------|--------|--------|------|-------------------------|
| SYMBOL   | TYPE | ID   | ADDR   | LENGTH | LDID | ASM 0201 16.44 02/20/24 |
| ASM2COBS | SD   | 0001 | 000000 | 0003DF |      |                         |
| COBSUB   | ER   | 0002 |        |        |      |                         |

| LOC | OBJECT | CODE | ADDR1 | ADDR2 | STMT | SOURCE | STATEMENT               | ASM | 0201 | 16.44 | 02/20/24 |
|-----|--------|------|-------|-------|------|--------|-------------------------|-----|------|-------|----------|
|     |        |      |       |       | 1    |        | MACRO                   |     |      |       | 00000702 |
|     |        |      |       |       | 2    |        | LOGMSG &SENDFLD         |     |      |       | 00000802 |
|     |        |      |       |       | 3    |        | MVC WTOMSG(60),&SENDFLD |     |      |       | 00000902 |
|     |        |      |       |       | 4    |        | LA R1,WTOAREA           |     |      |       | 00001002 |
|     |        |      |       |       | 5    |        | SVC 35                  |     |      |       | 00001102 |
|     |        |      |       |       | 6    |        | MEND                    |     |      |       | 00001202 |



| LOC | OBJECT CODE | ADDR1 | ADDR2 | STMT | SOURCE STATEMENT | ASM                                                                | 0201 | 16.44 | 02/20/24   |
|-----|-------------|-------|-------|------|------------------|--------------------------------------------------------------------|------|-------|------------|
|     |             |       |       | 8    | *                |                                                                    |      |       | * 00001400 |
|     |             |       |       | 9    | *                | *****                                                              |      |       | * 00001500 |
|     |             |       |       | 10   | *                |                                                                    |      |       | * 00001600 |
|     |             |       |       | 11   | *                | EXAMPLE OF AN ASSEMBLER MAIN PROGRAM CALLING A COBOL SUBPROGRAM.   |      |       | * 00001700 |
|     |             |       |       | 12   | *                |                                                                    |      |       | * 00001800 |
|     |             |       |       | 13   | *                | LINKAGE IS STATIC: BOTH MAIN AND SUBPROGRAM ARE COMPILED AND LINK- |      |       | * 00001900 |
|     |             |       |       | 14   | *                | EDITED TOGETHER INTO SINGLE LOAD MODULE AT COMPILE TIME.           |      |       | * 00002000 |
|     |             |       |       | 15   | *                |                                                                    |      |       | * 00002100 |
|     |             |       |       | 16   | *                | *****                                                              |      |       | * 00002200 |



| LOC    | OBJECT           | CODE | ADDR1 | ADDR2 | STMT | SOURCE   | STATEMENT                                         | ASM 0201 16.44 02/20/24 |
|--------|------------------|------|-------|-------|------|----------|---------------------------------------------------|-------------------------|
| 000000 |                  |      |       |       | 18   | ASM2COBS | CSECT                                             | 00002402                |
|        |                  |      |       |       | 19   |          | PRINT GEN                                         | 00002500                |
| 000000 | 47F0             | F01E | 0001E |       | 20   | EC\$\$B  | B EC\$\$L(,R15)                                   | 00002600                |
| 000004 | 19               |      |       |       | 21   |          | DC AL1(EC\$\$E-EC\$\$V)                           | 00002700                |
| 000005 | C1E2D4F2C3D6C2E2 |      |       |       | 22   | EC\$\$V  | DC C'ASM2COBS - '                                 | 00002802                |
|        |                  |      |       |       | 23   |          | DC C'&SYSDATE &SYSTIME'                           | 00002900                |
| 000010 | F0F261F2F061F2F4 |      |       |       | 24+  |          | DC C'02/20/24 16.44'                              | 00002900                |
| 00001E |                  |      |       |       | 25   | EC\$\$E  | DS 0H                                             | 00003000                |
|        |                  |      | 0001E |       | 26   | EC\$\$L  | EQU (*-EC\$\$B)                                   | 00003100                |
|        |                  |      |       |       | 27   | *        |                                                   | 00003200                |
|        |                  |      |       |       | 28   |          | SAVE (14,12)                                      | 00003300                |
| 00001E |                  |      |       |       | 29+  | DS       | 0H                                                | 01650000                |
| 00001E | 90EC             | D00C | 0000C |       | 30+  | STM      | 14,12,12(13)                                      | 02950000                |
|        |                  |      |       |       | 31   | *        |                                                   | 00003400                |
| 000022 | 05C0             |      |       |       | 32   | BALR     | R12,R0                                            | 00003502                |
|        |                  |      | 00024 |       | 33   | USING    | *,R12                                             | 00003602                |
|        |                  |      |       |       | 34   | *        |                                                   | 00003700                |
| 000024 | 50D0             | C1D4 | 001F8 |       | 35   | ST       | R13,SAVEAREA+4                                    | 00003801                |
| 000028 | 182D             |      |       |       | 36   | LR       | R2,R13                                            | 00003901                |
| 00002A | 41D0             | C1D0 | 001F4 |       | 37   | LA       | R13,SAVEAREA                                      | 00004002                |
| 00002E | 50D0             | 2008 | 00008 |       | 38   | ST       | R13,8(,R2)                                        | 00004102                |
|        |                  |      |       |       | 39   | *        |                                                   | 00004200                |
|        |                  |      |       |       | 40   |          | LOGMSG MSG01                                      | 00004302                |
| 000032 | D23B             | C21C | C258  | 00240 | 41+  | MVC      | WTOMSG(60),MSG01                                  | 00000902                |
| 000038 | 4110             | C218 |       | 0023C | 42+  | LA       | R1,WTOAREA                                        | 00001002                |
| 00003C | 0A23             |      |       |       | 43+  | SVC      | 35                                                | 00001102                |
| 00003E | D201             | C29D | C1B8  | 002C1 | 44   | MVC      | MSG02V1,=CL2'01'                                  | 00004402                |
| 000044 | D227             | C2A1 | C384  | 002C5 | 45   | MVC      | MSG02V2,VAR01                                     | 00004502                |
|        |                  |      |       |       | 46   |          | LOGMSG MSG02                                      | 00004602                |
| 00004A | D23B             | C21C | C294  | 00240 | 47+  | MVC      | WTOMSG(60),MSG02                                  | 00000902                |
| 000050 | 4110             | C218 |       | 0023C | 48+  | LA       | R1,WTOAREA                                        | 00001002                |
| 000054 | 0A23             |      |       |       | 49+  | SVC      | 35                                                | 00001102                |
| 000056 | D227             | C2A1 | C17C  | 002C5 | 50   | MVC      | MSG02V2,=CL60' '                                  | 00004702                |
| 00005C | D201             | C29D | C1BA  | 002C1 | 51   | MVC      | MSG02V1,=CL2'02'                                  | 00004802                |
| 000062 | D20E             | C2A1 | C1C0  | 002C5 | 52   | MVC      | MSG02V2(15),=XL15'40206B2020206B2020214B20204060' | 00004902                |
| 000068 | DE0E             | C2A1 | C3AC  | 002C5 | 53   | ED       | MSG02V2(15),VAR02                                 | 00005002                |
|        |                  |      |       |       | 54   |          | LOGMSG MSG02                                      | 00005102                |
| 00006E | D23B             | C21C | C294  | 00240 | 55+  | MVC      | WTOMSG(60),MSG02                                  | 00000902                |
| 000074 | 4110             | C218 |       | 0023C | 56+  | LA       | R1,WTOAREA                                        | 00001002                |
| 000078 | 0A23             |      |       |       | 57+  | SVC      | 35                                                | 00001102                |
| 00007A | D227             | C2A1 | C17C  | 002C5 | 58   | MVC      | MSG02V2,=CL60' '                                  | 00005202                |
| 000080 | D201             | C29D | C1BC  | 002C1 | 59   | MVC      | MSG02V1,=CL2'03'                                  | 00005302                |
| 000086 | D20E             | C2A1 | C1C0  | 002C5 | 60   | MVC      | MSG02V2(15),=XL15'40206B2020206B2020214B20204060' | 00005402                |
| 00008C | DE0E             | C2A1 | C3B1  | 002C5 | 61   | ED       | MSG02V2(15),VAR03                                 | 00005502                |
|        |                  |      |       |       | 62   |          | LOGMSG MSG02                                      | 00005602                |
| 000092 | D23B             | C21C | C294  | 00240 | 63+  | MVC      | WTOMSG(60),MSG02                                  | 00000902                |
| 000098 | 4110             | C218 |       | 0023C | 64+  | LA       | R1,WTOAREA                                        | 00001002                |
| 00009C | 0A23             |      |       |       | 65+  | SVC      | 35                                                | 00001102                |
| 00009E | D227             | C2A1 | C17C  | 002C5 | 66   | MVC      | MSG02V2,=CL60' '                                  | 00005702                |
| 0000A4 | D201             | C29D | C1BE  | 002C1 | 67   | MVC      | MSG02V1,=CL2'04'                                  | 00005802                |
| 0000AA | D20E             | C2A1 | C1C0  | 002C5 | 68   | MVC      | MSG02V2(15),=XL15'40206B2020206B2020214B20204060' | 00005902                |
| 0000B0 | DE0E             | C2A1 | C3B6  | 002C5 | 69   | ED       | MSG02V2(15),VAR04                                 | 00006002                |
|        |                  |      |       |       | 70   |          | LOGMSG MSG02                                      | 00006102                |
| 0000B6 | D23B             | C21C | C294  | 00240 | 71+  | MVC      | WTOMSG(60),MSG02                                  | 00000902                |
| 0000BC | 4110             | C218 |       | 0023C | 72+  | LA       | R1,WTOAREA                                        | 00001002                |

| LOC    | OBJECT   | CODE | ADDR1 | ADDR2 | STMT        | SOURCE | STATEMENT                                             | ASM                       | 0201 | 16.44 | 02/20/24 |
|--------|----------|------|-------|-------|-------------|--------|-------------------------------------------------------|---------------------------|------|-------|----------|
| 0000C0 | 0A23     |      |       |       | 73+         |        | SVC 35                                                |                           |      |       | 00001102 |
|        |          |      |       |       | 74          |        | LOGMSG MSG03                                          | MSG03 TO OUTPUT           |      |       | 00006202 |
| 0000C2 | D23B     | C21C | C2D0  | 00240 | 002F4       | 75+    | MVC WTOMSG(60),MSG03                                  |                           |      |       | 00000902 |
| 0000C8 | 4110     | C218 |       | 0023C | 76+         |        | LA R1,WTOAREA                                         |                           |      |       | 00001002 |
| 0000CC | 0A23     |      |       |       | 77+         |        | SVC 35                                                |                           |      |       | 00001102 |
|        |          |      |       |       | 78          |        | CALL COBSUB, (VAR01,VAR02,VAR03,VAR04)                |                           |      |       | 00006303 |
| 0000CE | 0700     |      |       |       | 79+         |        | CNOP 0,4                                              |                           |      |       | 00750000 |
| 0000D0 | 47F0     | C0B4 |       | 000D8 | 80+         |        | B *+8                                                 | BRANCH AROUND VCON        |      |       | 00800000 |
| 0000D4 | 00000000 |      |       |       | 81+IHB0008B | DC     | V(COBSUB)                                             | ENTRY POINT ADDRESS       |      |       | 00850000 |
| 0000D8 |          |      |       |       | 82+         |        | CNOP 0,4                                              |                           |      |       | 02800000 |
| 0000D8 | 4510     | C0C8 |       | 000EC | 83+         | BAL    | 1,IHB0009A                                            | LOAD LIST ADDR IN REG1    |      |       | 02850000 |
|        |          |      |       | 000DC | 84+IHB0009  | EQU    | *                                                     |                           |      |       | 02900000 |
| 0000DC | 000003A8 |      |       |       | 85+         | DC     | A(VAR01)                                              | PROB.PROG.PARAMETER       |      |       | 03300000 |
| 0000E0 | 000003D0 |      |       |       | 86+         | DC     | A(VAR02)                                              | PROB.PROG.PARAMETER       |      |       | 03300000 |
| 0000E4 | 000003D5 |      |       |       | 87+         | DC     | A(VAR03)                                              | PROB.PROG.PARAMETER       |      |       | 03300000 |
| 0000E8 | 00       |      |       |       | 88+         | DC     | B'00000000'                                           | SET VL SWITCH BIT         |      |       | 03700000 |
| 0000E9 | 0003DA   |      |       |       | 89+         | DC     | AL3(VAR04)                                            | PROB. PROG. PARAMETER     |      |       | 03750000 |
|        |          |      |       | 000EC | 90+IHB0009A | EQU    | *                                                     |                           |      |       | 04100000 |
| 0000EC | 58F0     | C0B0 |       | 000D4 | 91+         | L      | 15,IHB0008B                                           | LOAD 15 WITH ENTRY ADR    |      |       | 01100000 |
| 0000F0 | 05EF     |      |       |       | 92+         | BALR   | 14,15                                                 | BRANCH TO ENTRY POINT     |      |       | 01150000 |
|        |          |      |       |       | 93          | LOGMSG | MSG04                                                 | MSG04 TO OUTPUT           |      |       | 00006403 |
| 0000F2 | D23B     | C21C | C30C  | 00240 | 00330       | 94+    | MVC WTOMSG(60),MSG04                                  |                           |      |       | 00000902 |
| 0000F8 | 4110     | C218 |       | 0023C | 95+         | LA     | R1,WTOAREA                                            |                           |      |       | 00001002 |
| 0000FC | 0A23     |      |       |       | 96+         | SVC    | 35                                                    |                           |      |       | 00001102 |
| 0000FE | D201     | C29D | C1B8  | 002C1 | 001DC       | 97     | MVC MSG02V1,=CL2'01'                                  | INDICATE VARIABLE #1      |      |       | 00006502 |
| 000104 | D227     | C2A1 | C384  | 002C5 | 003A8       | 98     | MVC MSG02V2,VAR01                                     | CONTENTS OF VARIABLE #1   |      |       | 00006602 |
|        |          |      |       |       | 99          | LOGMSG | MSG02                                                 | VARIABLE #1 MSG TO OUTPUT |      |       | 00006702 |
| 00010A | D23B     | C21C | C294  | 00240 | 002B8       | 100+   | MVC WTOMSG(60),MSG02                                  |                           |      |       | 00000902 |
| 000110 | 4110     | C218 |       | 0023C | 101+        | LA     | R1,WTOAREA                                            |                           |      |       | 00001002 |
| 000114 | 0A23     |      |       |       | 102+        | SVC    | 35                                                    |                           |      |       | 00001102 |
| 000116 | D227     | C2A1 | C17C  | 002C5 | 001A0       | 103    | MVC MSG02V2,=CL60' '                                  | CLEAR MSG AREA            |      |       | 00006802 |
| 00011C | D201     | C29D | C1BA  | 002C1 | 001DE       | 104    | MVC MSG02V1,=CL2'02'                                  | INDICATE VARIABLE #2      |      |       | 00006902 |
| 000122 | D20E     | C2A1 | C1C0  | 002C5 | 001E4       | 105    | MVC MSG02V2(15),=XL15'40206B2020206B2020214B20204060' |                           |      |       | 00007002 |
| 000128 | DE0E     | C2A1 | C3AC  | 002C5 | 003D0       | 106    | ED MSG02V2(15),VAR02                                  | CONTENTS OF VARIABLE #2   |      |       | 00007102 |
|        |          |      |       |       | 107         | LOGMSG | MSG02                                                 | VARIABLE #2 MSG TO OUTPUT |      |       | 00007202 |
| 00012E | D23B     | C21C | C294  | 00240 | 002B8       | 108+   | MVC WTOMSG(60),MSG02                                  |                           |      |       | 00000902 |
| 000134 | 4110     | C218 |       | 0023C | 109+        | LA     | R1,WTOAREA                                            |                           |      |       | 00001002 |
| 000138 | 0A23     |      |       |       | 110+        | SVC    | 35                                                    |                           |      |       | 00001102 |
| 00013A | D227     | C2A1 | C17C  | 002C5 | 001A0       | 111    | MVC MSG02V2,=CL60' '                                  | CLEAR MSG AREA            |      |       | 00007302 |
| 000140 | D201     | C29D | C1BC  | 002C1 | 001E0       | 112    | MVC MSG02V1,=CL2'03'                                  | INDICATE VARIABLE #3      |      |       | 00007402 |
| 000146 | D20E     | C2A1 | C1C0  | 002C5 | 001E4       | 113    | MVC MSG02V2(15),=XL15'40206B2020206B2020214B20204060' |                           |      |       | 00007502 |
| 00014C | DE0E     | C2A1 | C3B1  | 002C5 | 003D5       | 114    | ED MSG02V2(15),VAR03                                  | CONTENTS OF VARIABLE #3   |      |       | 00007602 |
|        |          |      |       |       | 115         | LOGMSG | MSG02                                                 | VARIABLE #3 MSG TO OUTPUT |      |       | 00007702 |
| 000152 | D23B     | C21C | C294  | 00240 | 002B8       | 116+   | MVC WTOMSG(60),MSG02                                  |                           |      |       | 00000902 |
| 000158 | 4110     | C218 |       | 0023C | 117+        | LA     | R1,WTOAREA                                            |                           |      |       | 00001002 |
| 00015C | 0A23     |      |       |       | 118+        | SVC    | 35                                                    |                           |      |       | 00001102 |
| 00015E | D227     | C2A1 | C17C  | 002C5 | 001A0       | 119    | MVC MSG02V2,=CL60' '                                  | CLEAR MSG AREA            |      |       | 00007802 |
| 000164 | D201     | C29D | C1BE  | 002C1 | 001E2       | 120    | MVC MSG02V1,=CL2'04'                                  | INDICATE VARIABLE #4      |      |       | 00007902 |
| 00016A | D20E     | C2A1 | C1C0  | 002C5 | 001E4       | 121    | MVC MSG02V2(15),=XL15'40206B2020206B2020214B20204060' |                           |      |       | 00008002 |
| 000170 | DE0E     | C2A1 | C3B6  | 002C5 | 003DA       | 122    | ED MSG02V2(15),VAR04                                  | CONTENTS OF VARIABLE #4   |      |       | 00008102 |
|        |          |      |       |       | 123         | LOGMSG | MSG02                                                 | VARIABLE #4 MSG TO OUTPUT |      |       | 00008203 |
| 000176 | D23B     | C21C | C294  | 00240 | 002B8       | 124+   | MVC WTOMSG(60),MSG02                                  |                           |      |       | 00000902 |
| 00017C | 4110     | C218 |       | 0023C | 125+        | LA     | R1,WTOAREA                                            |                           |      |       | 00001002 |
| 000180 | 0A23     |      |       |       | 126+        | SVC    | 35                                                    |                           |      |       | 00001102 |
|        |          |      |       |       | 127         | LOGMSG | MSG05                                                 | MSG05 TO OUTPUT           |      |       | 00008303 |

| LOC    | OBJECT           | CODE | ADDR1 | ADDR2 | STMT  | SOURCE | STATEMENT | ASM 0201 16.44 02/20/24                     |          |
|--------|------------------|------|-------|-------|-------|--------|-----------|---------------------------------------------|----------|
| 000182 | D23B             | C21C | C348  | 00240 | 0036C | 128+   | MVC       | WTOMSG(60),MSG05                            | 00000902 |
| 000188 | 4110             | C218 |       | 0023C |       | 129+   | LA        | R1,WTOAREA                                  | 00001002 |
| 00018C | 0A23             |      |       |       |       | 130+   | SVC       | 35                                          | 00001102 |
|        |                  |      |       |       |       | 131    | *         |                                             | 00008400 |
|        |                  |      |       |       |       | 132    | *         |                                             | 00008500 |
|        |                  |      |       |       |       | 133    | *         | RESTORE REGISTERS, FREE STORAGE, AND RETURN | 00008600 |
|        |                  |      |       |       |       | 134    | *         |                                             | 00008700 |
| 00018E | 181D             |      |       |       |       | 135    | GOBACK    | LR R1,R13                                   | 00008801 |
| 000190 | 58D0             | C1D4 |       | 001F8 |       | 136    | L         | R13,SAVEAREA+4                              | 00008901 |
|        |                  |      |       |       |       | 137    | RETURN    | (14,12),RC=0                                | 00009000 |
| 000194 | 98EC             | D00C |       | 0000C |       | 138+   | LM        | 14,12,12(13)                                | 00650000 |
| 000198 | 41F0             | 0000 |       | 00000 |       | 139+   | LA        | 15,0(0,0)                                   | 01750000 |
| 00019C | 07FE             |      |       |       |       | 140+   | BR        | 14                                          | 02000000 |
|        |                  |      |       |       |       | 141    | *         |                                             | 00009100 |
| 0001A0 |                  |      |       |       |       | 142    |           |                                             | 00009200 |
| 0001A0 | 4040404040404040 |      |       |       |       | 143    | LTORG     |                                             |          |
| 0001DC | F0F1             |      |       |       |       | 144    |           | =CL60' '                                    |          |
| 0001DE | F0F2             |      |       |       |       | 145    |           | =CL2'01'                                    |          |
| 0001E0 | F0F3             |      |       |       |       | 146    |           | =CL2'02'                                    |          |
| 0001E2 | F0F4             |      |       |       |       | 147    |           | =CL2'03'                                    |          |
| 0001E4 | 40206B2020206B20 |      |       |       |       | 148    |           | =CL2'04'                                    |          |
|        |                  |      |       |       |       |        |           | =XL15'40206B2020206B2020214B20204060'       |          |

| LOC | OBJECT CODE | ADDR1 | ADDR2 | STMT | SOURCE STATEMENT      | ASM 0201 16.44 02/20/24 |
|-----|-------------|-------|-------|------|-----------------------|-------------------------|
|     |             |       |       | 150  | * *****               | * 00009400              |
|     |             |       |       | 151  | * ***** EQUATES ***** | * 00009500              |
|     |             |       |       | 152  | * *****               | * 00009600              |
|     |             | 00000 |       | 153  | R0 EQU 0              | 00009700                |
|     |             | 00001 |       | 154  | R1 EQU 1              | 00009800                |
|     |             | 00002 |       | 155  | R2 EQU 2              | 00009900                |
|     |             | 00003 |       | 156  | R3 EQU 3              | 00010000                |
|     |             | 00004 |       | 157  | R4 EQU 4              | 00010100                |
|     |             | 00005 |       | 158  | R5 EQU 5              | 00010200                |
|     |             | 00006 |       | 159  | R6 EQU 6              | 00010300                |
|     |             | 00007 |       | 160  | R7 EQU 7              | 00010400                |
|     |             | 00008 |       | 161  | R8 EQU 8              | 00010500                |
|     |             | 00009 |       | 162  | R9 EQU 9              | 00010600                |
|     |             | 0000A |       | 163  | R10 EQU 10            | 00010700                |
|     |             | 0000B |       | 164  | R11 EQU 11            | 00010800                |
|     |             | 0000C |       | 165  | R12 EQU 12            | 00010900                |
|     |             | 0000D |       | 166  | R13 EQU 13            | 00011000                |
|     |             | 0000E |       | 167  | R14 EQU 14            | 00011100                |
|     |             | 0000F |       | 168  | R15 EQU 15            | 00011200                |
|     |             |       |       | 169  | * *****               | * 00011300              |

| LOC                     | OBJECT CODE | ADDR1 | ADDR2 | STMT | SOURCE STATEMENT                            | ASM 0201 16.44 02/20/24 |
|-------------------------|-------------|-------|-------|------|---------------------------------------------|-------------------------|
|                         |             |       |       | 171  | * *****                                     | * 00011500              |
|                         |             |       |       | 172  | * ***** CONSTANTS AND VARIABLES *****       | * 00011602              |
|                         |             |       |       | 173  | * *****                                     | * 00011700              |
| 0001F4                  |             |       |       | 174  | SAVEAREA DS 18F REGISTER SAVE AREA          | 00011800                |
|                         |             |       |       | 175  | *                                           | 00011902                |
| 00023C                  |             |       |       | 176  | WTOAREA DS 0H BUFFER FOR WTO MESSAGE        | 00012002                |
| 00023C 003F             |             |       |       | 177  | WTOLN DC H'63' LENGTH OF WTOAREA            | 00012102                |
| 00023E                  |             |       |       | 178  | WTOROUTE DS H'11' ROUTE CODE                | 00012202                |
| 000240                  |             |       |       | 179  | WTOMSG DS CL60 MESSAGE TEXT                 | 00012302                |
|                         |             |       |       | 180  | *                                           | 00012402                |
| 00027C C1E2D4F2C3D6C2E2 |             |       |       | 181  | MSG01 DC CL60'ASM2COBS BEGINS EXECUTION'    | 00012502                |
| 0002B8 E5C1D9C9C1C2D3C5 |             |       |       | 182  | MSG02 DC CL60'VARIABLE NN: X'               | 00012602                |
|                         |             | 002C1 |       | 183  | MSG02V1 EQU MSG02+9,2                       | 00012702                |
|                         |             | 002C5 |       | 184  | MSG02V2 EQU MSG02+13,40                     | 00012802                |
| 0002F4 C3C1D3D3C9D5C740 |             |       |       | 185  | MSG03 DC CL60'CALLING COBOL SUBROUTINE'     | 00012902                |
| 000330 D9C5E3E4D9D540C6 |             |       |       | 186  | MSG04 DC CL60'RETURN FROM COBOL SUBROUTINE' | 00013002                |
| 00036C C1E2D4F2C3D6C2E2 |             |       |       | 187  | MSG05 DC CL60'ASM2COBS ENDS EXECUTION'      | 00013102                |
| 0003A8 C8C9C3D2D6D9E86B |             |       |       | 188  | VAR01 DC CL40'HICKORY, DICKORY, DOCK ...'   | 00013203                |
| 0003D0 000004725D       |             |       |       | 189  | VAR02 DC PL5'-47.25'                        | 00013302                |
| 0003D5 000002813C       |             |       |       | 190  | VAR03 DC PL5'28.13'                         | 00013402                |
| 0003DA 000000000C       |             |       |       | 191  | VAR04 DC PL5'0.00'                          | 00013502                |
|                         |             |       |       | 192  | *                                           | 00013603                |
|                         |             |       |       | 193  | * *****                                     | * 00013700              |
|                         |             |       |       | 194  | END                                         | 00013800                |

| POS . ID | REL . ID | FLAGS | ADDRESS | ASM | 0201 | 16.44 | 02/20/24 |
|----------|----------|-------|---------|-----|------|-------|----------|
|----------|----------|-------|---------|-----|------|-------|----------|

0001      0001      0C      0000DC

|      |      |    |        |
|------|------|----|--------|
| 0001 | 0001 | 0C | 0000E0 |
|------|------|----|--------|

|      |      |    |        |
|------|------|----|--------|
| 0001 | 0001 | 0C | 0000E4 |
|------|------|----|--------|

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0001      0001      08      0000E9
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|      |      |    |        |
|------|------|----|--------|
| 0001 | 0002 | 1C | 0000D4 |
|------|------|----|--------|

| SYMBOL   | LEN   | VALUE     | DEFN  | REFERENCES | ASM 0201 16.44 02/20/24 |       |       |       |       |       |       |       |       |       |                         |
|----------|-------|-----------|-------|------------|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------------|
| EC\$\$B  | 00004 | 000000000 | 00020 | 00026      |                         |       |       |       |       |       |       |       |       |       |                         |
| EC\$\$E  | 00002 | 00000001E | 00025 | 00021      |                         |       |       |       |       |       |       |       |       |       |                         |
| EC\$\$L  | 00001 | 00000001E | 00026 | 00020      |                         |       |       |       |       |       |       |       |       |       |                         |
| EC\$\$V  | 00011 | 000000005 | 00022 | 00021      |                         |       |       |       |       |       |       |       |       |       |                         |
| IHB0008B | 00004 | 0000000D4 | 00081 | 00091      |                         |       |       |       |       |       |       |       |       |       |                         |
| IHB0009A | 00001 | 0000000EC | 00090 | 00083      |                         |       |       |       |       |       |       |       |       |       |                         |
| MSG01    | 00060 | 00000027C | 00181 | 00041      |                         |       |       |       |       |       |       |       |       |       |                         |
| MSG02    | 00060 | 0000002B8 | 00182 | 00047      | 00055                   | 00063 | 00071 | 00100 | 00108 | 00116 | 00124 | 00183 | 00184 |       |                         |
| MSG02V1  | 00002 | 0000002C1 | 00183 | 00044      | 00051                   | 00059 | 00067 | 00097 | 00104 | 00112 | 00120 |       |       |       |                         |
| MSG02V2  | 00040 | 0000002C5 | 00184 | 00045      | 00050                   | 00052 | 00053 | 00058 | 00060 | 00061 | 00066 | 00068 | 00069 | 00098 | 00103 00105 00106 00111 |
|          |       |           |       | 00113      | 00114                   | 00119 | 00121 | 00122 |       |       |       |       |       |       |                         |
| MSG03    | 00060 | 0000002F4 | 00185 | 00075      |                         |       |       |       |       |       |       |       |       |       |                         |
| MSG04    | 00060 | 000000330 | 00186 | 00094      |                         |       |       |       |       |       |       |       |       |       |                         |
| MSG05    | 00060 | 00000036C | 00187 | 00128      |                         |       |       |       |       |       |       |       |       |       |                         |
| R0       | 00001 | 000000000 | 00153 | 00032      |                         |       |       |       |       |       |       |       |       |       |                         |
| R1       | 00001 | 000000001 | 00154 | 00042      | 00048                   | 00056 | 00064 | 00072 | 00076 | 00095 | 00101 | 00109 | 00117 | 00125 | 00129 00135             |
| R12      | 00001 | 00000000C | 00165 | 00032      | 00033                   |       |       |       |       |       |       |       |       |       |                         |
| R13      | 00001 | 00000000D | 00166 | 00035      | 00036                   | 00037 | 00038 | 00135 | 00136 |       |       |       |       |       |                         |
| R15      | 00001 | 00000000F | 00168 | 00020      |                         |       |       |       |       |       |       |       |       |       |                         |
| R2       | 00001 | 000000002 | 00155 | 00036      | 00038                   |       |       |       |       |       |       |       |       |       |                         |
| SAVEAREA | 00004 | 0000001F4 | 00174 | 00035      | 00037                   | 00136 |       |       |       |       |       |       |       |       |                         |
| VAR01    | 00040 | 0000003A8 | 00188 | 00045      | 00085                   | 00098 |       |       |       |       |       |       |       |       |                         |
| VAR02    | 00005 | 0000003D0 | 00189 | 00053      | 00086                   | 00106 |       |       |       |       |       |       |       |       |                         |
| VAR03    | 00005 | 0000003D5 | 00190 | 00061      | 00087                   | 00114 |       |       |       |       |       |       |       |       |                         |
| VAR04    | 00005 | 0000003DA | 00191 | 00069      | 00089                   | 00122 |       |       |       |       |       |       |       |       |                         |
| WTOAREA  | 00002 | 00000023C | 00176 | 00042      | 00048                   | 00056 | 00064 | 00072 | 00076 | 00095 | 00101 | 00109 | 00117 | 00125 | 00129                   |
| WTOMSG   | 00060 | 000000240 | 00179 | 00041      | 00047                   | 00055 | 00063 | 00071 | 00075 | 00094 | 00100 | 00108 | 00116 | 00124 | 00128                   |



| SYMBOL                                | LEN   | VALUE    | DEFN  | REFERENCES                          | ASM 0201 16.44 02/20/24 |
|---------------------------------------|-------|----------|-------|-------------------------------------|-------------------------|
| =CL60' '                              | 00060 | 000001A0 | 00143 | 00050 00058 00066 00103 00111 00119 |                         |
| =CL2'01'                              | 00002 | 000001DC | 00144 | 00044 00097                         |                         |
| =CL2'02'                              | 00002 | 000001DE | 00145 | 00051 00104                         |                         |
| =CL2'03'                              | 00002 | 000001E0 | 00146 | 00059 00112                         |                         |
| =CL2'04'                              | 00002 | 000001E2 | 00147 | 00067 00120                         |                         |
| =XL15'40206B2020206B2020214B20204060' |       |          |       |                                     |                         |
|                                       | 00015 | 000001E4 | 00148 | 00052 00060 00068 00105 00113 00121 |                         |



ASM 0201 16.44 02/20/24

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

ALIGN, ALOGIC, BUFSIZE(STD), NODECK, ESD, FLAG(0), LINECOUNT(55), LIST, NOMCALL, YFLAG, WORKSIZE(2097152)  
NOMLOGIC, NONUMBER, OBJECT, NORENT, RLD, NOSTMT, NOLIBMAC, NOTERMINAL, NOTEST, XREF(SHORT)  
SYSPARM()

WORK FILE BUFFER SIZE/NUMBER = 8702/ 1

|                                        |      |
|----------------------------------------|------|
| TOTAL RECORDS READ FROM SYSTEM INPUT   | 132  |
| TOTAL RECORDS READ FROM SYSTEM LIBRARY | 1020 |
| TOTAL RECORDS PUNCHED                  | 21   |
| TOTAL RECORDS PRINTED                  | 267  |

1

|       |                                                            |          |
|-------|------------------------------------------------------------|----------|
| 00001 | IDENTIFICATION DIVISION.                                   | 00014303 |
| 00002 | PROGRAM-ID. COBSUB.                                        | 00014403 |
| 00003 | AUTHOR. JAY MOSELEY.                                       | 00014503 |
| 00004 | DATE-WRITTEN. FEBRUARY, 2024.                              | 00014603 |
| 00005 | DATE-COMPILED. FEB 20, 2024                                | 00014703 |
| 00006 | REMARKS. EXAMPLE OF COBOL SUBPROGRAM CALLED FROM ASSEMBLER | 00014803 |
| 00007 | MAIN PROGRAM.                                              | 00014903 |
| 00008 | *                                                          | 00015003 |
| 00009 | ENVIRONMENT DIVISION.                                      | 00015103 |
| 00010 | CONFIGURATION SECTION.                                     | 00015203 |
| 00011 | SOURCE-COMPUTER. IBM-370.                                  | 00015303 |
| 00012 | OBJECT-COMPUTER. IBM-370.                                  | 00015403 |
| 00013 | INPUT-OUTPUT SECTION.                                      | 00015503 |
| 00014 | FILE-CONTROL.                                              | 00015603 |
| 00015 | *                                                          | 00015703 |
| 00016 | DATA DIVISION.                                             | 00015803 |
| 00017 | FILE SECTION.                                              | 00015903 |
| 00018 | *                                                          | 00016003 |
| 00019 | WORKING-STORAGE SECTION.                                   | 00016103 |
| 00020 | *                                                          | 00016203 |
| 00021 | 01 WS-EDITED PIC Z,ZZZ,ZZ9.99- .                           | 00016303 |
| 00022 | *                                                          | 00016403 |
| 00023 | LINKAGE SECTION.                                           | 00016503 |
| 00024 | 01 VARIABLE-ONE PIC X(40).                                 | 00016603 |
| 00025 | 01 VARIABLE-TWO PIC S9(7)V99 COMP-3.                       | 00016703 |
| 00026 | 01 VARIABLE-THREE PIC S9(7)V99 COMP-3.                     | 00016803 |
| 00027 | 01 VARIABLE-FOUR PIC S9(7)V99 COMP-3.                      | 00016903 |
| 00028 | *                                                          | 00017003 |
| 00029 | PROCEDURE DIVISION USING VARIABLE-ONE, VARIABLE-TWO,       | 00017103 |
| 00030 | VARIABLE-THREE, VARIABLE-FOUR.                             | 00017203 |
| 00031 | *                                                          | 00017303 |
| 00032 | DISPLAY 'COBSUB BEGINS EXECUTION' UPON CONSOLE.            | 00017403 |
| 00033 | DISPLAY 'VARIABLE 01: ' VARIABLE-ONE UPON CONSOLE.         | 00017503 |
| 00034 | MOVE VARIABLE-TWO TO WS-EDITED.                            | 00017603 |
| 00035 | DISPLAY 'VARIABLE 02: ' WS-EDITED UPON CONSOLE.            | 00017703 |
| 00036 | MOVE VARIABLE-THREE TO WS-EDITED.                          | 00017803 |
| 00037 | DISPLAY 'VARIABLE 03: ' WS-EDITED UPON CONSOLE.            | 00017903 |
| 00038 | MOVE VARIABLE-FOUR TO WS-EDITED.                           | 00018003 |
| 00039 | DISPLAY 'VARIABLE 04: ' WS-EDITED UPON CONSOLE.            | 00018103 |
| 00040 | DISPLAY 'MODIFYING VARIABLE 01' UPON CONSOLE.              | 00018203 |
| 00041 | MOVE 'THE MOUSE RAN UP THE CLOCK.' TO VARIABLE-ONE.        | 00018303 |
| 00042 | DISPLAY 'VARIABLE 01: ' VARIABLE-ONE UPON CONSOLE.         | 00018403 |
| 00043 | DISPLAY 'COMPUTING NEW VARIABLE 04' UPON CONSOLE.          | 00018503 |
| 00044 | COMPUTE VARIABLE-FOUR = VARIABLE-TWO                       | 00018603 |
| 00045 | + VARIABLE-THREE.                                          | 00018703 |
| 00046 | MOVE VARIABLE-FOUR TO WS-EDITED.                           | 00018803 |
| 00047 | DISPLAY 'VARIABLE 04: ' WS-EDITED UPON CONSOLE.            | 00018903 |
| 00048 | DISPLAY 'COBSUB ENDS EXECUTION' UPON CONSOLE.              | 00018803 |
| 00049 | GOBACK.                                                    | 00018803 |
| 00050 | *                                                          | 00018903 |
| 00051 | * END OF PROGRAM COBSUB.                                   | 00018903 |

```
*STATISTICS*      SOURCE RECORDS =    51      DATA DIVISION STATEMENTS =    5      PROCEDURE DIVISION STATEMENTS =    17
*OPTIONS IN EFFECT*  SIZE = 2097152  BUF = 1048576  LINECNT = 57  SPACE1, FLAGW, NOSEQ,  SOURCE
*OPTIONS IN EFFECT*  NODMAP, NOPMAP, NOCLIST,    SUPMAP, NOXREF,    LOAD, NODECK, APOST, NOTRUNC, NOLIB, NOVERB
*OPTIONS IN EFFECT*      ZWB
```

|         |                |          |
|---------|----------------|----------|
| IEW0000 | ENTRY ASM2C0BS | 00019703 |
|---------|----------------|----------|

| CONTROL SECTION |        |        | ENTRY    |          |      |          |      |          |      |          |
|-----------------|--------|--------|----------|----------|------|----------|------|----------|------|----------|
| NAME            | ORIGIN | LENGTH | NAME     | LOCATION | NAME | LOCATION | NAME | LOCATION | NAME | LOCATION |
| ASM2COBS        | 00     | 3DF    |          |          |      |          |      |          |      |          |
| COBSUB          | 3E0    | 626    |          |          |      |          |      |          |      |          |
| ILBODSP0*       | A08    | 700    |          |          |      |          |      |          |      |          |
| ILBOSTP0*       | 1108   | 35     |          |          |      |          |      |          |      |          |
|                 |        |        | ILBOSTP1 | 111E     |      |          |      |          |      |          |

|               |    |
|---------------|----|
| ENTRY ADDRESS | 00 |
|---------------|----|