



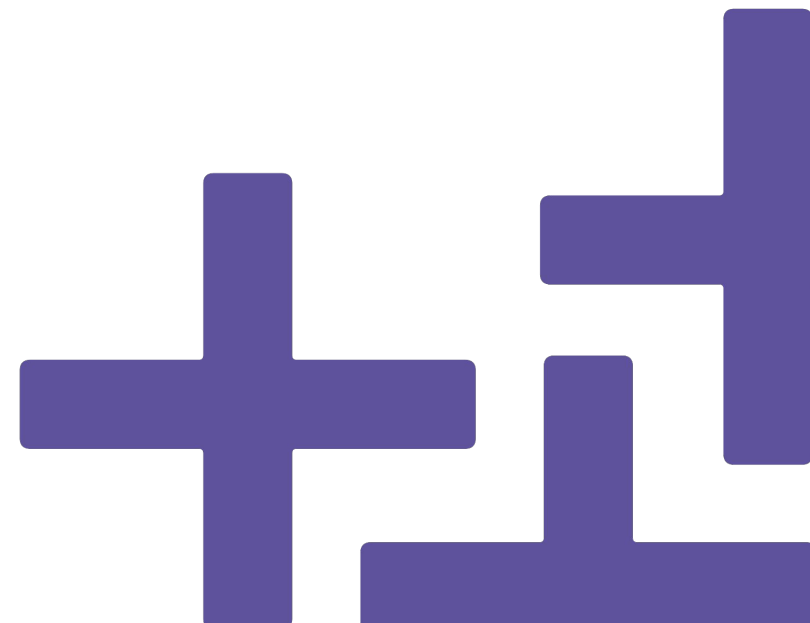
# SilverTech

+talento +tecnología +empleabilidad

Socio estratégico

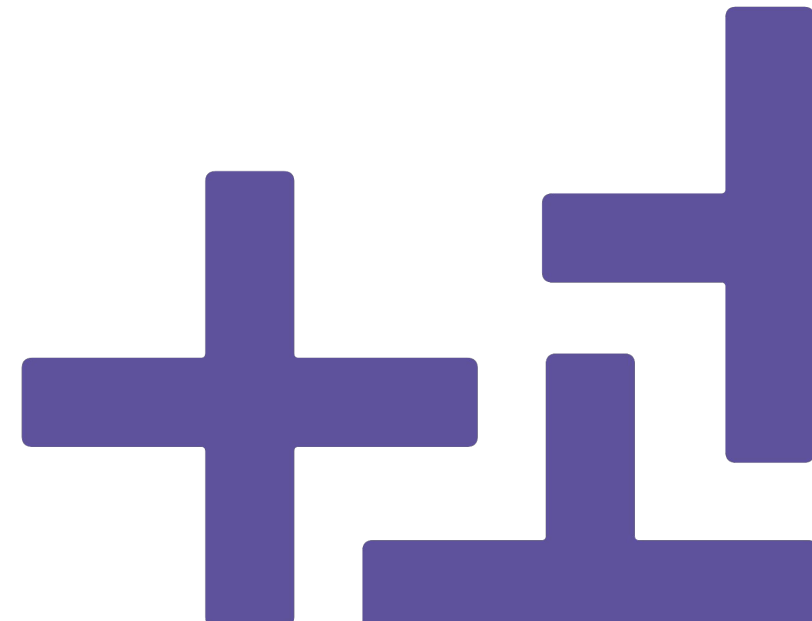


Impulsan



# Cobol – Clase 31

Práctica TSO –  
JCL – PROGRAMAS –COMPILACION



# Reglas de la clase



Micrófonos apagados



Consultas al final de la clase



Consultas por chat



# Cronograma

## Primera Parte

18:30  
a  
19:25

## Break

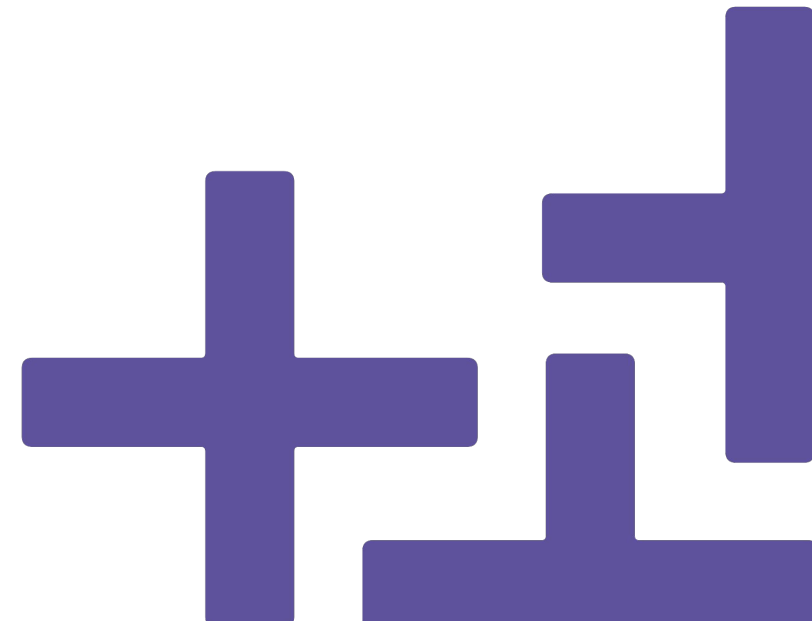
19:25  
a  
19:35

## Segunda Parte

19:35  
a  
20:30

# ¿Qué veremos hoy?

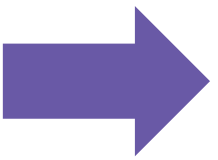
- + Crear librerías de Usuario: SRC y JCL
- + EJECUTAR JCL - COMPILADOR
- + SPOOL



# Crear librería SRC por usuario

Crear nueva librería para guardar los programas cobol por usuario

- Tomar como base la Librería **DM.BASE.SRC**
- Crear librería **DM.USER0XX.SRC**  
Donde **XX** corresponde al número de usuario
- Copiar los miembros **CLHOLA00** y **CL11JE00** en la nueva librería



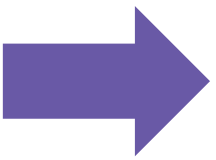
# Copiar Liberia SRC



Opción

```
Menu Utilities Compilers Options Status Help
ISPF Primary Option Menu
Option ==> 3.3
0 Settings      Terminal and user parameters      User ID . : PROF003
1 View          Display source data or listings      Time. . . : 21:34
2 Edit          Create or change source data  Terminal. : 3278
3 Utilities     Perform utility functions        Screen. . : 1
4 Foreground    Interactive language processing        Language. : ENGLISH
5 Batch         Submit job for language processing    Appl ID . : ISR
6 Command       Enter TSO or Workstation commands      TSO logon : ISPFPROC
7 Dialog Test   Perform dialog testing                  TSO prefix:
8 LM Facility   Library administrator functions        System ID : P390
9 IBM Products  IBM program development products        MVS acct. : ACCT#
10 SCLM         SW Configuration Library Manager        Release . : ISPF 5.0
11 Workplace    ISPF Object/Action Workplace
M More         Additional IBM Products

Enter X to Terminate using log/list defaults
```



# Copiar Liberia SRC : origen



Opción

C - COPIAR

```
Menu RefList Utilities Help
Move/Copy Utility
Option=> C
More: +
C Copy data set or member(s)      CP Copy and print
M Move data set or member(s)      MP Move and print
L Copy and LMF lock member(s)     LP Copy, LMF lock, and print
P LMF Promote data set or member(s) PP LMF Promote and print

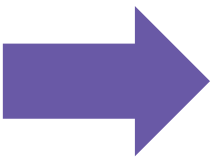
Specify "From" Data Set below, then press Enter key

From ISPF Library:
Project . . . DM                      (--- Options C, CP, L, and LP only ---)
Group . . . BASE
Type . . . SRC
Member . . .
(Blank or pattern for member list,
"*" for all members)

From Other Partitioned or Sequential Data Set:
Data Set Name . . . DM.BASE.SRC
```

Origen





# Copiar Liberia SRC : destino



Opción 1

0

Opción 2

```
Menu  RefList  Utilities  Help

COPY      From DM.BASE.SRC
Command ==> _____

Specify "To" Data Set Below

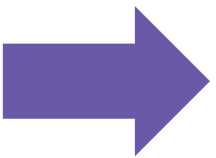
To ISPF Library:
Project . . . . . DM
Group   . . . . . BASE
Type    . . . . . SRC

Replace option:
Enter "/" to select option
_ Replace like-named members

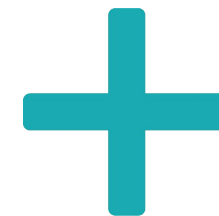
To Other Partitioned or Sequential Data Set:
Data Set Name . . . . . DM.USER001.SRC
Volume Serial . . . . . _____ (If not cataloged)

Data Set Password . . . . . _____ (If password protected)

To Data Set Options:
Sequential Disposition      Pack Option      SCLM Setting
 1 1. Mod                    3 1. Yes        3 1. SCLM
F1=Help    F2=Split    F3=Exit    F7=Backward  F8=Forward  F9=Swap
```



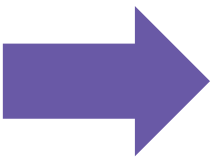
# Copiar liberia SRC : miembros



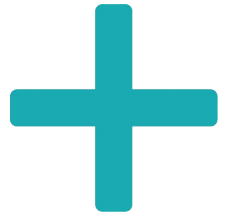
Seleccionar  
miembros a  
copiar



Menu Functions Utilities Help						
COPY		DM.BASE.SRC		TO DM.USER001.SRC		Row 00001 of 00003
Command ==>						Scroll ==> PAGE
Name	Prompt	Size	Created	Changed	ID	
S CLHOLA00		51	2023/08/10	2023/12/03 21:22:25	PROF003	
S CL11EJ00	-	333	2023/08/10	2023/12/03 22:19:15	PROF003	
. PRGSQL01		283	2023/08/10	2023/11/14 23:47:55	IBMUSER	
**End**						



# Copiar Liberia SRC : nueva librería



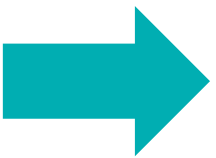
DM.USER001.SRC

Menu	Functions	Confirm	Utilities	Help	
VIEW		DM.USER001.SRC		Row 00001 of 00002	
Command ==>				Scroll ==> PAGE	
Name	Prompt	Size	Created	Changed	ID
CLHOLA00		51	2023/08/10	2023/12/03 21:22:25	PROF003
CL11EJ03		334	2023/08/10	2023/11/24 20:32:24	USER003
**End**					

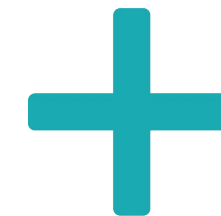
# Renombrar miembros

En la nueva librería creada, deberán renombrar los miembros cambiando en los nombre del programa los dos últimos dígitos

- Cambiar **CLHOLA****XX**  
Donde **XX** corresponde al número de usuario
- Cambiar **CL11JE****XX**  
Donde **XX** corresponde al número de usuario



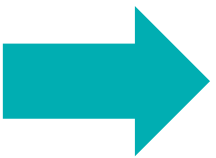
# Renombrar: miembros



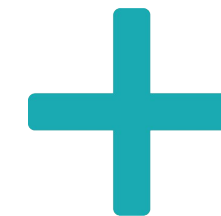
Comando R para renombrar

```
Menu Functions Confirm Utilities Help
VIEW          DM.USER001.SRC          Row 00001 of 00002
Command ==>          Scroll ==> PAGE
Name           Prompt           Size   Created   Changed   ID
CLHOLA00       51   2023/08/10  2023/12/03  21:22:25  PROF003
CL11EJ03       334  2023/08/10  2023/11/24  20:32:24  USER003
**End**
```

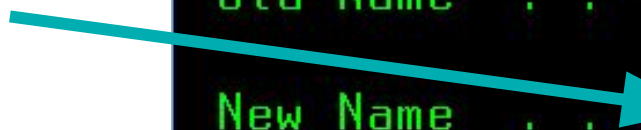




# Renombrar: miembros



Nuevo nombre



```
Member Rename

Enter a new member name:

Old Name . . . : CLHOLA00

New Name . . . : CLHOLA01 _

Press ENTER to rename member.
Press CANCEL to cancel rename.

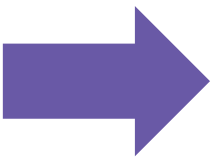
F1=Help      F2=Split
F3=Exit      F7=Backward
```

# Crear librería JCL por usuario

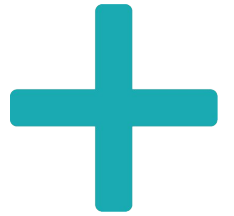
Crear nueva librería para guardar los programas cobol por usuario

- Tomar como base la Librería **DM.BASE.SRC**
- Crear librería **DM.USER0XX.SRC**  
Donde **XX** corresponde al número de usuario
- Copiar los miembros **CLHOLA00** y **CL11JE00** en la nueva librería





# Copiar Liberia JCL

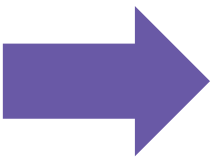


Opción

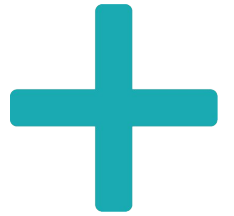
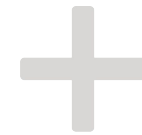
```
Menu Utilities Compilers Options Status Help
ISPF Primary Option Menu
Option ==> 3.3
0 Settings      Terminal and user parameters      User ID . : PROF003
1 View          Display source data or listings      Time. . . : 21:34
2 Edit          Create or change source data    Terminal. : 3278
3 Utilities     Perform utility functions          Screen. . : 1
4 Foreground    Interactive language processing      Language. : ENGLISH
5 Batch         Submit job for language processing  Appl ID . : ISR
6 Command       Enter TSO or Workstation commands      TSO logon : ISPFPROC
7 Dialog Test   Perform dialog testing                    TSO prefix:
8 LM Facility   Library administrator functions          System ID : P390
9 IBM Products  IBM program development products          MVS acct. : ACCT#
10 SCLM         SW Configuration Library Manager          Release . : ISPF 5.0
11 Workplace    ISPF Object/Action Workplace
M More         Additional IBM Products

Enter X to Terminate using log/list defaults
```





# Copiar Liberia JCL : origen



Opción

C -  
COPIAR

```
Menu  RefList  Utilities  Help

                                Move/Copy Utility

Option ==> C More: +

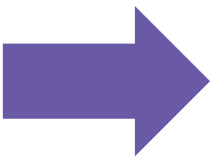
C  Copy data set or member(s)      CP Copy and print
M  Move data set or member(s)      MP Move and print
L  Copy and LMF lock member(s)     LP Copy, LMF lock, and print
P  LMF Promote data set or member(s) PP LMF Promote and print

Specify "From" Data Set below, then press Enter key

From ISPF Library:
Project . . . . DM                (--- Options C, CP, L, and LP only ---)
Group . . . . . BASE
Type . . . . . JCL
Member . . . .

From Other Partitioned or Sequential Data Set:
Data Set Name . . . . DM.BASE.JCL
F1=Help  F2=Sp  F3=Exit  F7=Backward  F8=Forward  F9=Swap
F10=Actions  F12=Cancel
```

Origen



# Copiar Liberia JCL : destino



Opción 1

0

Opción 2

```
Menu RefList Utilities Help

COPY      From DM.BASE.JCL
Command ==> _____

Specify "To" Data Set Below

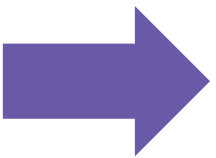
To ISPF Library:
Project   . DM
Group    . BASE
Type     . JCL

Replace option:
Enter "/" to select option
_ Replace like-named members

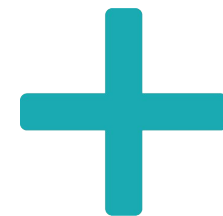
To Other Partitioned or Sequential Data Set:
Data Set Name . . . . DM.USER001.JCL
Volume Serial . . . . _____ (If not cataloged)

Data Set Password . . . . _____ (If password protected)

To Data Set Options:
Sequential Disposition      Pack Option      SCLM Setting
 1 1. Mod                    3 1. Yes          3 1. SCLM
F1=Help  F2=Split  F3=Exit  F7=Backward  F8=Forward  F9=Swap
F10=Exit F12=Save  F13=Save  F14=Save  F15=Save  F16=Save
```



# Copiar Liberia JCL : Configuración para alocar



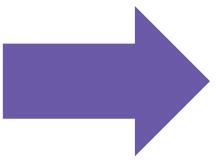
Opción 1

```
Allocate Target Data Set
Command ==> _____

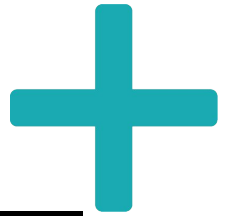
Specified data set DM.USER001.JCL
does not exist.
If you wish to allocate this data set, select one of the options
below.

Allocation Options:
1 1. Allocate using the attributes of:
    DM.BASE.JCL
    2. Specify allocation attributes

Instructions:
  Press ENTER to allocate data set.
  Enter CANCEL or END to cancel allocation.
F1=Help      F2=Split      F3=Exit      F7=Backward  F8=Forward
F9=Swap      F12=Cancel
```



# Copiar liberia JCL : miembros

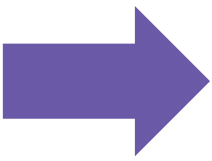


Seleccionar  
miembros a  
copiar

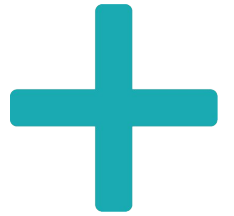
```

end Functions Utilities Help
COPY          DM.BASE.JCL          TO DM.USER001.JCL          Row 00001 of 00007
Command ==>                                     Scroll ==> PAGE
  Name      Prompt      Size      Created      Changed      ID
CL11EJ03    36      2023/08/10    2023/11/12 02:31:09    IBMUSER
. CL11EJ13   29      2023/08/10    2023/11/12 03:07:54    IBMUSER
S COMPILER   33      2023/08/10    2023/11/22 21:34:19    PROF001
. COMPILEX   19      2023/08/10    2023/11/13 01:18:57    IBMUSER
. COMPILE1   30      2023/08/10    2023/11/13 01:30:34    IBMUSER
. COMPILE2   68      2023/08/10    2023/11/13 01:54:06    IBMUSER
. LOGREC      8      2023/07/21    2023/08/11 00:09:20    IBMUSER
**End**

```



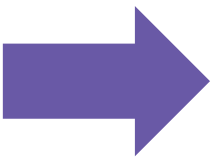
# Entra nueva librería JCL : Editar



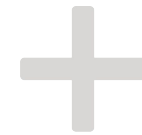
Comando  
para editar

```
Menu Functions Confirm Utilities Help
VIEW DM.USER001.JCL Row 00001 of 00001
Command ==> Scroll ==> PAGE
E Name Prompt Size Created Changed ID
COMPILER 33 2023/08/10 2023/11/22 21:34:19 PROF001
**End**
```





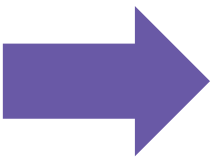
# Entra nueva librería JCL : Editar



Cambiar nombre del  
programa a compilar

Cambiar nombre  
Liberia SRC

```
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DM.USER001.JCL(COMPILER) - 01.08          Columns 00001 00072
Command ==> _____ Scroll ==> CSR
***** Top of Data *****
000100 //COMPILER JOB ACCT#,
000200 //          IBMUSER,          **JOB STATEMENT GENERATED BY SUBMIT**
000300 //          NOTIFY=&SYSUID,
000400 //          MSGLEVEL=(1,1)
000500 //SCAN EXEC PGM=ISRLEMX,COND=(12,LE),
000600 //  PARM=( COB,CLHOLA01,B,N, ,4, ,00,ENU,4,7',
000700 //          '1,/,SYSALLDA')
000800 /**
000900 /** INSERT A STEPLIB DD HERE IF ISRLEMX IS NOT IN YOUR SYSTEM LIBRARY
001000 /**
001100 //ISRLCODE DD DSN=DM.USER001.SRC,
001200 //  DISP=SHR
001300 //ISRLEXPDD UNIT=SYSDA,DISP=(NEW,PASS),SPACE=(CYL,(2,2)),
001400 //          DSN=&&TEMP1
001500 //ISRLMSG DD SYSOUT=(A)
001600 //COBOL EXEC PGM=IGYCRCTL,REGION=640K,COND=(12,LE),
F1=Help F2=Split F3=Exit F5=Rfind F6=Rchange F7=Up
F8=Down F9=Swap F10=Left F11=Right F12=Cancel
```



# Entra nueva librería JCL :

## Editar



Cambiar  
nombre del  
COMPILADO

```
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      DM.USER001.JCL(COMPILER) - 01.08      Columns 00001 00072
Command ==> Scroll ==> CSR
002110 //SYSUT2 DD UNIT=SYSDA,SPACE=(CYL,(2,2))
002120 //SYSUT3 DD UNIT=SYSDA,SPACE=(CYL,(2,2))
002130 //SYSUT4 DD UNIT=SYSDA,SPACE=(CYL,(2,2))
002140 //SYSUT5 DD UNIT=SYSDA,SPACE=(CYL,(2,2))
002150 //SYSUT6 DD UNIT=SYSDA,SPACE=(CYL,(2,2))
002160 //SYSUT7 DD UNIT=SYSDA,SPACE=(CYL,(2,2))
002170 //SYSLIB DD DSN=SYS1.MACLIB,DISP=SHR
002180 // DD DSN=DM.BASE.SRC,
002190 // DISP=SHR
002191 //SYSLIN DD DSN=DM.BASE.OBJ2(CLHOLA01),
002192 // DISP=OLD
***** Bottom of Data *****
```

Librería de programas  
compilados

# Entra nueva librería JCL :

## Guardar

Comando  
para guardar

```
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT DM.USER001.JCL(COMPILER) - 01.08 Columns 00001 00072
Command --- SAVE Scroll ==> CSR
002110 //SYSUT2 DD UNIT=SYSDA,SPACE=(CYL,(2,2))
002120 //SYSUT3 DD UNIT=SYSDA,SPACE=(CYL,(2,2))
002130 //SYSUT4 DD UNIT=SYSDA,SPACE=(CYL,(2,2))
002140 //SYSUT5 DD UNIT=SYSDA,SPACE=(CYL,(2,2))
002150 //SYSUT6 DD UNIT=SYSDA,SPACE=(CYL,(2,2))
002160 //SYSUT7 DD UNIT=SYSDA,SPACE=(CYL,(2,2))
002170 //SYSLIB DD DSN=SYS1.MACLIB,DISP=SHR
002180 // DD DSN=DM.BASE.SRC,
002190 // DISP=SHR
002191 //SYSLIN DD DSN=DM.BASE.OBJ2(CLHOLA01),
002192 // DISP=OLD
***** Bottom of Data *****
```



# Entra nueva librería JCL :

## Ejecutar JOB

Comando  
para submitir

```
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT DM.USER001.JCL(COMPILER) - 01.08 Columns 00001 00072
Command - SUB Scroll ==> CSR
***** Top of Data *****
000100 //COMPILER JOB ACCT#,
000200 //          IBMUSER,          **JOB STATEMENT GENERATED BY SUBMIT**
000300 //          NOTIFY=&SYSUID,
000400 //          MSGLEVEL=(1,1)
000500 //SCAN EXEC PGM=ISRLEMX,COND=(12,LE),
000600 //  PARM=('COB,CLHOLA01,B,N, ,4, ,00,ENU,4,7',
000700 //        '1,/,SYSALLDA')
000800 /**
000900 /** INSERT A STEPLIB DD HERE IF ISRLEMX IS NOT IN YOUR SYSTEM LIBRARY
001000 /**
001100 //ISRLCODE DD DSN=DM.USER001.SRC,
001200 //  DISP=SHR
001300 //ISRLEXPDD DD UNIT=SYSDA,DISP=(NEW,PASS),SPACE=(CYL,(2,2)),
001400 //  DSN=&TEMP1
001500 //ISRLMSG DD SYSOUT=(A)
001600 //COBOL EXEC PGM=IGYCRCTL,REGION=640K,COND=(12,LE),
F1=Help F2=Split F3=Exit F5=Rfind F6=Rchange F7=Up
```

# SPOOL

Ver salida de ejecución de JOB

# → SPOOL

**M** More : Additional IBM Products  
**5** SDSF : Spool Search and Display Facility  
**ST** : Status of jobs

```
Menu Utilities Compilers Options Status Help
ISPF Primary Option Menu
Option ==> M_

0 Settings      Terminal and user parameters      User ID . : USER001
1 View          Display source data or listings      Time. . . : 22:25
2 Edit          Create or change source data    Terminal. : 3278
3 Utilities     Perform utility functions          Screen. . : 2
4 Foreground    Interactive language processing    Language. : ENGLISH
5 Batch         Submit job for language processing  Appl ID . : ISR
6 Command       Enter TSO or Workstation commands    TSO logon : ISPFPROC
7 Dialog Test   Perform dialog testing                    TSO prefix:
8 LM Facility   Library administrator functions          System ID : P390
9 IBM Products  IBM program development products          MVS acct. : ACCT#
10 SCLM         SM Configuration Library Manager        Release . : ISPF 5.0
11 Workplace   ISPF Object/Action Workplace
M More         Additional IBM Products

Enter X to Terminate using log/list defaults

F1=Help  F2=Split  F3=Exit  F7=Backward  F8=Forward  F9=Swap
F10=Actions  F12=Cancel
```

```
Menu Help
IBM Products Panel
Option ==> 5_

1 SMP/E      System Modification Program/Extended
2 ISMF       Integrated Storage Management Facility
3 RACF       Resource Access Control Facility
4 HCD        Hardware Configuration Dialogs
5 SDSF       Spool Search and Display Facility
6 IPCS       Interactive Problem Control System
7 DITTO      DITTO/ESA for MVS Version 1
8 RMF        Resource Measurement Facility
9 DFSORT     Data Facility Sort
10 OMVS       MVS OpenEdition
11 DB2PM     Database Performance Monitor
12 DB2DC     Database data collection
13 DB2       Data Base Products
14 RRS       Resource Recovery Services
15 DB2ADM    Data Base Admin Tool
16 QMF       Query Management Facility
F1=Help  F2=Split  F3=Exit  F7=Backward  F8=Forward  F9=Swap
F10=Actions  F12=Cancel
```

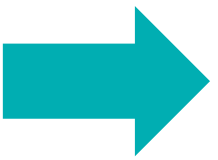
```
Display Filter View Print Options Help
HQX7703 ----- SDSF PRIMARY OPTION MENU -----
COMMAND INPUT ==> ST_ SCROLL ==> PAGE

DA Active users      INIT Initiators
I Input queue        PR Printers
O Output queue       PUN Punches
H Held output queue  RDR Readers
ST Status of jobs    LINE Lines
                     NODE Nodes
                     SO Spool offload

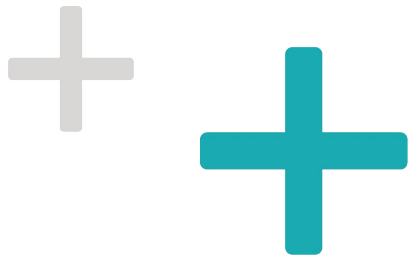
LOG System log
MAS Members in the MAS
JC Job classes       ULOG User session log
SE Scheduling environments
RES ULM resources

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US Government Users Restricted Rights - Use, duplication or
F1=HELP  F2=SPLIT  F3=END  F4=RETURN  F5=IFIND  F6=BOOK
F7=UP    F8=DOWN  F9=SWAP  F10=LEFT  F11=RIGHT  F12=RETRIEVE
```



# Sub JCL : Ver ejecución de JOB - Resultado de compilación



Comando  
para ver  
detalle de  
ejecución



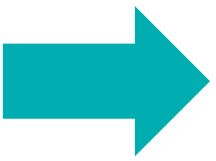
```
Display Filter View Print Options Help
-----
SDSF STATUS DISPLAY ALL CLASSES                                LINE 1-2 (2)
COMMAND INPUT ==>                                           SCROLL ==> PAGE
NP  JOBNAME  JobID   Owner   Prty Queue    C  Pos  SAff  ASys Status
   PROF003  TSU02800 PROF003   15 EXECUTION  SYS1
?_  COMPILER JOB02803 PROF003    1 PRINT      A   12
```

Comando  
para ver  
estado de  
compilación



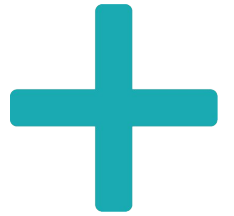
```
Display Filter View Print Options Help
-----
SDSF JOB DATA SET DISPLAY - JOB COMPILER (JOB02803)        DATA SET DISPLAYED
COMMAND INPUT ==>                                           SCROLL ==> PAGE
NP  DDNAME   StepName ProcStep  DSID Owner    C  Dest          Rec-Cnt PAG
   JESMSGLG  JES2      2  PROF003  K  LOCAL          16
   JESJCL    JES2      3  PROF003  K  LOCAL          34
V_  JESYSMSG JES2      4  PROF003  K  LOCAL          46
   SYSPRINT  COBOL     102 PROF003  A  LOCAL         117
```





# Sub JCL :

## return 0000 -> OK



Return de  
paso de  
compilación

```
Display Filter View Print Options Help
-----
SDSF OUTPUT DISPLAY COMPILER JOB02803  DSID      4 LINE 17      COLUMNS 02- 8
COMMAND INPUT ==> _
IGD100I VIO ALLOCATED TO DDNAME SYSUT1   DATACLAS (      )
IGD100I VIO ALLOCATED TO DDNAME SYSUT2   DATACLAS (      )
IGD100I VIO ALLOCATED TO DDNAME SYSUT3   DATACLAS (      )
IGD100I VIO ALLOCATED TO DDNAME SYSUT4   DATACLAS (      )
IGD100I VIO ALLOCATED TO DDNAME SYSUT5   DATACLAS (      )
IGD100I VIO ALLOCATED TO DDNAME SYSUT6   DATACLAS (      )
IGD100I VIO ALLOCATED TO DDNAME SYSUT7   DATACLAS (      )
IEF237I 0A81 ALLOCATED TO SYSLIB
IEF237I 0A82 ALLOCATED TO
IEF237I 0A82 ALLOCATED TO SYSLIN
IEF142I COMPILER COBOL - STEP WAS EXECUTED - COND CODE 0000
IEF285I PROF003.COMPILED.JOB02803.D0000102.? SYSOOT
IEF285I SYS23337.T215056.RA000.COMPILED.TEMP1.H01 DELETED
IEF285I SYS23337.T215056.RA000.COMPILED.R0100059 DELETED
IEF285I SYS23337.T215056.RA000.COMPILED.R0100060 DELETED
IEF285I SYS23337.T215056.RA000.COMPILED.R0100061 DELETED
IEF285I SYS23337.T215056.RA000.COMPILED.R0100062 DELETED
F1=HELP      F2=SPLIT      F3=END        F4=RETURN      F5=IFIND      F6=BOOK
F7=UP        F8=DOWN        F9=SWAP      F10=LEFT      F11=RIGHT     F12=RETRIEV
```

# Sub JCL :

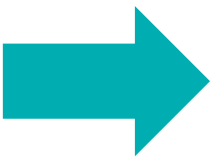
## Ver ejecución de JOB – detalle de compilación

Comando para ver detalle de ejecución

```
Display Filter View Print Options Help
-----
SDSF STATUS DISPLAY ALL CLASSES LINE 1-2 (2)
COMMAND INPUT ==> SCROLL ==> PAGE
NP  JOBNAME  JobID   Owner   Prty Queue   C  Pos  SAff ASys Status
    PROF003 TSU02800 PROF003   15 EXECUTION   SYS1  SYS1
?_  COMPILER JOB02803 PROF003    1 PRINT      A   12
```

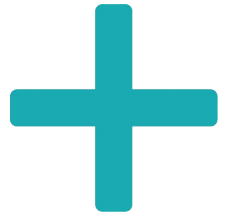
Comando para ver detalle de compilación

```
Display Filter View Print Options Help
-----
SDSF JOB DATA SET DISPLAY - JOB COMPILER (JOB02803) INVALID COMMAND
COMMAND INPUT ==> SCROLL ==> PAG
NP  DDNAME    StepName ProcStep DSID Owner   C Dest      Rec-Cnt PA
    JESMSG LG JES2      2 PROF003 K LOCAL    16
    JESJCL   JES2      3 PROF003 K LOCAL    34
    JESYSMSG JES2      4 PROF003 K LOCAL    46
V_  SYSPRINT COBOL    102 PROF003 A LOCAL    117
```



# Sub JCL :

## Detalle de compilación

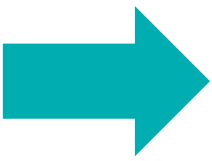


Para ir al final  
de la página

M + F8

```
Display Filter View Print Options Help
-----
SDSF OUTPUT DISPLAY COMPILER JOB02803  DSID   102 LINE   NOT PAGE MODE DATA
COMMAND INPUT ==> M_ SCROLL ==> PAGE
***** TOP OF DATA *****
PP 5648-A25 IBM COBOL for OS/390 & VM  2.1.2                      Date 12
Invocation parameters:
NOTERM,
Options in effect:
  NOADATA
  ADV
  NOANALYZE
  QUOTE
  NOAWD
  BUFSIZE(4096)
  NOCMR2
  NOCOMPILE(S)
  NOCURRENCY
  DATA(31)
  NODATEPROC
  NODBCS
F1=HELP    F2=SPLIT    F3=END      F4=RETURN   F5=IFIND    F6=BOOK
F7=UP      F8=DOWN     F9=SWAP    F10=LEFT   F11=RIGHT   F12=RETRIEVE
```





# Sub JCL :

## Detalle de compilación



Compilación  
OK

```
Display Filter View Print Options Help
-----
SDSF OUTPUT DISPLAY COMPILER JOB02803  DSID   102 LINE 102      COLUMNS 02- 8
COMMAND INPUT ==> _      SCROLL ==> PF
000042      *-----
000043      2000-PROCESAR-PROGRAMA.
000044
000045          DISPLAY 'HOLA '      WS-NOMBRE.
000046
000047      2000-PROCESAR-PROGRAMA-FIN.
000048          EXIT.
000049
000050      END PROGRAM CLEJHOLA.
000051
* Statistics for COBOL program CLEJHOLA:
*   Source records = 51
*   Data Division statements = 2
*   Procedure Division statements = 7
End of compilation 1,  program CLEJHOLA,  no statements flagged.
Return code 0
***** BOTTOM OF DATA *****
```

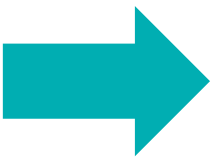


# Compilación NO OK



Código de  
retorno

```
Display Filter View Print Options Help
-----
SDSF OUTPUT DISPLAY COMPILER JOB02804  DSID      4 LINE 17      COLUMNS 02- 8
COMMAND INPUT ==>
IGD100I VIO ALLOCATED TO DDNAME SYSUT1   DATACLAS (      )
IGD100I VIO ALLOCATED TO DDNAME SYSUT2   DATACLAS (      )
IGD100I VIO ALLOCATED TO DDNAME SYSUT3   DATACLAS (      )
IGD100I VIO ALLOCATED TO DDNAME SYSUT4   DATACLAS (      )
IGD100I VIO ALLOCATED TO DDNAME SYSUT5   DATACLAS (      )
IGD100I VIO ALLOCATED TO DDNAME SYSUT6   DATACLAS (      )
IGD100I VIO ALLOCATED TO DDNAME SYSUT7   DATACLAS (      )
IEF237I 0A81 ALLOCATED TO SYSLIB
IEF237I 0A82 ALLOCATED TO
IEF237I 0A82 ALLOCATED TO SYSLIN
IEF142I COMPILER COBOL - STEP WAS EXECUTED - COND CODE 0012
IEF285I  PROF003.COMPILER.JOB02804.D0000102.?      SYSOUT
IEF285I  SYS23337.T215602.RA000.COMPILER.TEMP1.H01  DELETED
IEF285I  SYS23337.T215602.RA000.COMPILER.R0100066   DELETED
IEF285I  SYS23337.T215602.RA000.COMPILER.R0100067   DELETED
IEF285I  SYS23337.T215602.RA000.COMPILER.R0100068   DELETED
IEF285I  SYS23337.T215602.RA000.COMPILER.R0100069   DELETED
```



# Compilacion NO OK

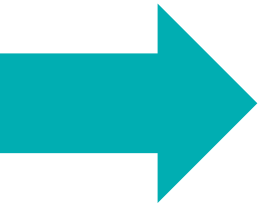


```
-----
SDSF OUTPUT DISPLAY COMPILER JOB02804  DSID   102 LINE 108      COLUMNS 02- 81
COMMAND INPUT ==> _      SCROLL ==> PAGE
000048          END PROGRAM CLEJHOLA.
000049
PROGRAMA - EJERCICIO 1      CLEJHOLA  Date 12
LineID  Message code  Message text
36  IGYP52121-S  "WS-NOMBRE" was not defined as a data-name.  The statement
Same message on line:      43
Messages  Total  Informational  Warning  Error  Severe  Terminating
Printed:   2
* Statistics for COBOL program CLEJHOLA:
*   Source records = 49
*   Data Division statements = 0
*   Procedure Division statements = 7
End of compilation 1,  program CLEJHOLA,  highest severity 12.
Return code 12
***** BOTTOM OF DATA *****
54  HELP      55  PRINT      56  END      57  RETURN      58  ISIND      59  BREAK
```

Detalle de error +

Cantidad de error

Return



# Comunicación

**Foro de consultas TEC:**

<https://campus.soysilverttech.org>

**Mails de consulta TEC:**

[consultasCOBOL@soysilverttech.org](mailto:consultasCOBOL@soysilverttech.org)



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