

Resumen del video: https://youtu.be/7cNFX3Q96AI?list=PL5jc4zjIEHXc7e1kR2fgcDkh2EOclk_1r

Nos logueamos al emulador

```

SOURCE DATA SET = SYS1.VTAM.SOURCE(USSN)

                                W E L C O M E   T O

      SSSSSS  //  3333333  9999999  0000000
        SS    //  33  33  99  99  00  00
      SS      //  33  99  99  00  00
      SSSS    //  33333  9999999  00  00
        SS    //  33      99  00  00
        SS    //  33  33  99  99  00  00
      SSSSSS  //  3333333  9999999  0000000

TERMINAL NAME = LCL701          NETWORK-QUALIFIED NAME = P390.LCL701
SSCPNAME = P390SSCP           NETWORK-ID = P390

      OS/390 APPLICATION SERVICES SYSTEM - RELEASE 2.10.0

====> ENTER "LOGON" FOLLOWED BY THE TSO USERID. EXAMPLE "LOGON IBMUSER" OR
====> ENTER L FOLLOWED BY THE APPLID
====> EXAMPLES: "L TSO", "L CICS", "L IMS3270

logon ibmuser

```

Vamos al ISPF

```

Menu  Utilities  Compilers  Options  Status  Help

ISPF Primary Option Menu

Option ==>

0 Settings      Terminal and user parameters      <  Calendar  >
1 View          Display source data or listings      November 2023
2 Edit          Create or change source data      Su Mo Tu We Th Fr Sa
3 Utilities      Perform utility functions          1 2 3 4
4 Foreground     Interactive language processing      5 6 7 8 9 10 11
5 Batch          Submit job for language processing 12 13 14 15 16 17 18
6 Command        Enter TSO or Workstation commands 19 20 21 22 23 24 25
7 Dialog Test    Perform dialog testing          26 27 28 29 30
8 LM Facility    Library administrator functions
9 IBM Products   IBM program development products
10 SCLM          SW Configuration Library Manager
11 Workplace     ISPF Object/Action Workplace
M More          Additional IBM Products

Time . . . . : 02:42
Day of year. : 327

Enter X to Terminate using log/list defaults

```

Voy a M y luego a 5

```

  Display Filter View Print Options Help
-----
HGX7703 ----- SDSF PRIMARY OPTION MENU -----
COMMAND INPUT ==>                                SCROLL ==> CSR

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  WLM resources

END  Exit SDSF

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```

Tipeo init y le doy enter

```

  Display Filter View Print Options Help
-----
HGX7703 ----- SDSF PRIMARY OPTION MENU -----
COMMAND INPUT ==> init                                SCROLL ==> CSR

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  WLM resources

END  Exit SDSF

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```

Veo los iniciadores que tengo

```

  Display Filter View Print Options Help
-----
SDSF INITIATOR DISPLAY P390                                LINE 1-12 (12)
COMMAND INPUT ==>                                SCROLL ==> CSR
NP   ID Status      Classes JobName StepName ProcStep JobID  C ASID ASIDX
    1 INACTIVE      A         JobName StepName ProcStep JobID  C ASID ASIDX
    2 INACTIVE      AB        JobName StepName ProcStep JobID  C ASID ASIDX
    3 INACTIVE      ABC       JobName StepName ProcStep JobID  C ASID ASIDX
    4 INACTIVE      ABCDE     JobName StepName ProcStep JobID  C ASID ASIDX
    5 INACTIVE      ABCD      JobName StepName ProcStep JobID  C ASID ASIDX
    6 INACTIVE      ABCD      JobName StepName ProcStep JobID  C ASID ASIDX
    7 INACTIVE      ABCD      JobName StepName ProcStep JobID  C ASID ASIDX
    8 INACTIVE      ABCD      JobName StepName ProcStep JobID  C ASID ASIDX
    9 INACTIVE      ABCD      JobName StepName ProcStep JobID  C ASID ASIDX
   10 INACTIVE      ABCD      JobName StepName ProcStep JobID  C ASID ASIDX
   11 DRAINED      ABCD      JobName StepName ProcStep JobID  C ASID ASIDX
   12 DRAINED      ABCD      JobName StepName ProcStep JobID  C ASID ASIDX

```

Los INIT gestionan la entrada de trabajos al JES2, para clase A tengo 10, para clase B tengo 9 y así. Es una forma de limitar la concurrencia en los trabajos. Si meto 10 trabajos clase A se van a pelear todos por la concurrencia porque tengo hasta 9 trabajos simultáneos, en B puedo ejecutar 9 trabajos simultáneamente y así.

El primer paso es crear un DATASET para guardar el trabajo, es equivalente a crear un directorio. Tengo que volver al ISPF y tipear 3.4

```

Menu  Utilities  Compilers  Options  Status  Help
-----
ISPF Primary Option Menu
Option ==> 3.4
0  Settings          Terminal and user parameters
1  View              Display source data or listings
2  Edit              Create or change source data
3  Utilities          Perform utility functions
4  Foreground        Interactive language processing
5  Batch             Submit job for language processing
6  Command           Enter TSO or Workstation commands
7  Dialog Test       Perform dialog testing
8  LM Facility        Library administrator functions
9  IBM Products      IBM program development products
10 SCLM              SW Configuration Library Manager
11 Workplace         ISPF Object/Action Workplace
M  More              Additional IBM Products

<  Calendar  >
November 2023
Su Mo Tu We Th Fr Sa
      1  2  3  4
  5  6  7  8  9 10 11
 12 13 14 15 16 17 18
 19 20 21 22 23 24 25
 26 27 28 29 30

Time . . . . : 02:58
Day of year. : 327

Enter X to Terminate using log/list defaults

```

Ya teníamos uno creado llamado MCORNER.JCL (Si no tenemos ninguno creado podemos usar uno llamado SYS1.PARMLIB que siempre está creado)

Doy <ENTER> e "I" de INFO en Command y veo los detalles del Dataset que ya tengo

```

Menu  Options  View  Utilities  Compilers  Help
-----
DSLIST - Data Sets Matching MCORNER.JCL
Command ==>
Row 1 of 1
Scroll ==> CSR_

Command - Enter "/" to select action      Message      Volume
-----
I MCORNER.JCL                             OS39M1
***** End of Data Set list *****

```

```

Data Set Information
Command ==>

Data Set Name . . . : MCORNER.JCL

General Data
Volume serial . . . : OS39M1
Device type . . . . : 3390
Organization . . . . : PO
Record format . . . : FB
Record length . . . : 80
Block size . . . . : 6160
1st extent tracks . : 13
Secondary tracks . . : 15

Current Allocation
Allocated tracks . . : 13
Allocated extents . . : 1
Maximum dir. blocks : 225

Current Utilization
Used tracks . . . . : 6
Used extents . . . . : 1
Used dir. blocks . . : 1
Number of members . . : 2

Creation date . . . : 2023/11/23
Referenced date . . : 2023/11/23
Expiration date . . : ***None***

```

Si ahora tipo =3.2 y le doy <ENTER> creo un Dataset con las mismas características

```

Menu  RefList  Utilities  Help
-----
Data Set Utility

Option ==> A
  A Allocate new data set
  R Rename entire data set
  D Delete entire data set
blank Data set information
  C Catalog data set
  U Uncatalog data set
  S Short data set information
  V VSAM Utilities

ISPF Library:
Project . . .
Group . . .
Type . . .

Other Partitioned, Sequential or VSAM Data Set:
Data Set Name . . . 'FREDI01.JCL'
Volume Serial . . . (If not cataloged, required for option "C")
Data Set Password . . (If password protected)

```

A: Creo un Dataset nuevo

'FREDI01.CJL' : El nombre del nuevo Dataset entre comillas

```

Menu  RefList  Utilities  Help
-----
Allocate New Data Set

Command ==>
Data Set Name . . . : FREDI01.JCL

Management class . . . (Blank for default management class)
Storage class . . . (Blank for default storage class)
Volume serial . . . OS39M1 (Blank for system default volume) **
Device type . . . (Generic unit or device address) **
Data class . . . (Blank for default data class)
Space units . . . TRACK (BLKS, TRKS, CYLS, KB, MB, BYTES
or RECORDS)
Average record unit (M, K, or U)
Primary quantity . . 13 (In above units)
Secondary quantity . 15 (In above units)
Directory blocks . . 225 (Zero for sequential data set) *
Record format . . . FB
Record length . . . 80
Block size . . . 6160
Data set name type : PDS (LIBRARY, HFS, PDS, or blank) *
Expiration date . . . (YY/MM/DD, YYYY/MM/DD
Enter "/" to select option YY.DDD, YYYY.DDD in Julian form
DDDD for retention period in days
or blank)
_ Allocate Multiple Volumes

( * Specifying LIBRARY may override zero directory block)
( ** Only one of these fields may be specified)

```

Copió las mismas características del Dataset anterior.

Le vuelvo a dar <ENTER> y me creó el Dataset nuevo

```

Menu  RefList  Utilities  Help
-----
Option ==> _____ Data Set Utility _____ Data set allocated
A Allocate new data set          C Catalog data set
R Rename entire data set        U Uncatalog data set
D Delete entire data set        S Short data set information
blank Data set information      V VSAM Utilities

ISPF Library:
Project . . . _____
Group . . . . _____
Type . . . . _____

Other Partitioned, Sequential or VSAM Data Set:
Data Set Name . . . 'FREDI01.JCL' _____
Volume Serial . . . _____ (If not cataloged, required for option "C")

Data Set Password . . . (If password protected)

```

Si regreso al ISPF y hago 3.4

```

Menu  RefList  Utilities  Help
-----
Option ==> _____ Data Set Utility _____ Data set allocated
A Allocate new data set          C Catalog data set
R Rename entire data set        U Uncatalog data set
D Delete entire data set        S Short data set information
blank Data set information      V VSAM Utilities

ISPF Library:
Project . . . _____
Group . . . . _____
Type . . . . _____

Other Partitioned, Sequential or VSAM Data Set:
Data Set Name . . . 'FREDI01.JCL' _____
Volume Serial . . . _____ (If not cataloged, required for option "C")

Data Set Password . . . (If password protected)

```

Si en Data Set Name pongo FREDI01.JCL y doy en Option <ENTER> veo que tengo el Dataset creado

```

Menu  Options  View  Utilities  Compilers  Help
-----
DSLIST - Data Sets Matching FREDI*
Command ==> _____ Row 1 of 1
                                Scroll ==> CSR_

Command - Enter "/" to select action      Message      Volume
-----
FREDI01.JCL                                OS39M1
***** End of Data Set list *****

```

Si trato de editar el Dataset

```

Menu  Options  View  Utilities  Compilers  Help
-----
DSLIST - Data Sets Matching FREDI*
Command ==> _____ Scroll ==> CSR_
No members in data set

Command - Enter "/" to select action      Message      Volume
-----
E      FREDI01.JCL                          OS39M1
***** End of Data Set list *****

```

No me deja porque está vacío. Voy a ir a SYS1.PARMLIB para copiar un archivo a FREDI01
(Vuelvo al ISPF, hago 3.4 luego ingreso SYS1.PARMLIB como nombre del Dataset a buscar.)

Entro con un B de Browse

```

File  Options  Keypad
-----
Menu  Options  View  Utilities  Compilers  Help
-----
DSLIST - Data Sets Matching SYS1.PARMLIB
Command ==> _____ Scroll ==> CSR_
Row 1 of 1

Command - Enter "/" to select action      Message      Volume
-----
B      SYS1.PARMLIB                          OS39M1
***** End of Data Set list *****

```

En el primer archivo ingreso V de View para verlo:

```

File  Options  Keypad
-----
Menu  Functions  Confirm  Utilities  Help
-----
BROWSE      SYS1.PARMLIB
Command ==> _____ Scroll ==> PAGE
Row 00001 of 00073

v      Name      Prompt      Size  Created      Changed      ID
-----
ADYSET00  *Viewed      29    1983/12/15   1991/07/22 09:27:00  SYSIPO
ADYSET01

```

Es un texto

```

File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help
-----
VIEW      SYS1.PARMLIB($$$$COIBM) - 10.01
Command ==> _____ Columns 00001 00072
***** Top of Data *****
==MSG> -Warning- The UNDO command is not available until you change
==MSG> your edit profile using the command RECOVERY ON.
000110 /* 5751-CS1,5751-CS2 (C) COPYRIGHT IBM CORPORATION 1978, 1984
000120 /* ALL RIGHTS RESERVED.
000130 /* NOTE TO U.S. GOVERNMENT USERS .. DOCUMENTATION RELATED TO
000131 /* RESTRICTED RIGHTS .. USE, DUPLICATION OR DISCLOSURE IS SUBJECT
000132 /* TO RESTRICTIONS SET FORTH IN GSA ADP SCHEDULE CONTRACT
000133 /* WITH IBM CORP.

```

Como es un texto lo copio al Dataset recién creado

F3 para regresar y C para copiar:

Menu Functions Confirm Utilities Help							
BROWSE				SYS1.PARMLIB		Row 00001 of 00073	
Command ==>						Scroll ==> PAGE	
	Name	Prompt	Size	Created	Changed	ID	
C	\$\$\$COIBM	*Viewed	29	1983/12/15	1991/07/22 09:27:00	SYSIPO	
	ADYSET00						
	ADYSET01						

Lo enviamos al Dataset FREDI01 recién creado con el mismo nombre

```

RefList Help
COPY Entry Panel
Command ==>
CURRENT from data set: 'SYS1.PARMLIB($$$$COIBM)'
To Library                      Replace option:
Project . . .                   Enter "/" to select option
Group . . .                     _ Replace like-named members
Type . . .
To Other Data Set Name
Data Set Name . . . 'FREDI01.JCL'
Volume Serial . . . (If not cataloged)
NEW member name . . . $$$COIBM (Blank unless member to be renamed)
Options
Sequential Disposition          Pack Option          SCLM Setting
2 1. Mod                        1 1. Default      3 1. SCLM
   2. Old                      2. Pack           2. Non-SCLM
                                   3. As is
Press ENTER to perform action. Press CANCEL to cancel action.

```

Me confirma que fue copiado

Menu Functions Confirm Utilities Help							
BROWSE				SYS1.PARMLIB		Row 00001 of 00073	
Command ==>						Scroll ==> PAGE	
	Name	Prompt	Size	Created	Changed	ID	
	\$\$\$COIBM	*Copied	29	1983/12/15	1991/07/22 09:27:00	SYSIPO	
	ADYSET00						

F3 dos veces y voy al Dataset Fredi01.JCL

```

Menu  RefList  RefMode  Utilities  Help
-----
Data Set List Utility
Option ==> _____

blank Display data set list          P Print data set list
V Display VTOC information          PV Print VTOC information

Enter one or both of the parameters below:
Dsname Level . . . FREDI01.JCL_____
Volume serial . . . _____

Data set list options
Initial View . . . 1  1. Volume          Enter "/" to select option
                     2. Space             / Confirm Data Set Delete
                     3. Attrib            / Confirm Member Delete
                     4. Total

When the data set list is displayed, enter either:
"/" on the data set list command field for the command prompt pop-up,
an ISPF line command, the name of a TSO command, CLIST, or REXX exec, or
"=" to execute the previous command.

```

Ahora ya puedo editarlo al Dataset

```

Menu  Options  View  Utilities  Compilers  Help
-----
DSLST - Data Sets Matching FREDI01.JCL          Row 1 of 1
Command ==> _____ Scroll ==> CSR_

Command - Enter "/" to select action          Message          Volume
-----
E FREDI01.JCL                                OS39M1
***** End of Data Set list *****

```

<ENTER>

```

Menu  Functions  Confirm  Utilities  Help
-----
EDIT FREDI01.JCL          Row 00001 of 00001
Command ==> _____ Scroll ==> PAGE
Name Prompt Size Created Changed ID
$$$COIBM 29 1983/12/15 1991/07/22 09:27:00 SYSIPO
**End**

```

En el Command creo un archivo nuevo con S MIJCL01 (Nombre del archivo), tengo el archivo nuevo creado y listo para editar

[illegible]

Con res quito los mensajes

```

EDIT          FREDI01.JCL(MIJCL01)  - 01.00          Columns 0000
Command ==> res                                     Scroll ==
***** Top of Data *****
==MSG> -Warning- The UNDO command is not available until you change
==MSG> your edit profile using the command RECOVERY ON.
*****

```

```
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT          FREDI01.JCL(MIJCL01) - 01.00          Columns 00001 00072
Command =====> Scroll =====> CSR_
***** Top of Data *****
***** Bottom of Data *****
```

Si pongo i10 y doy <ENTER>

```

File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      FREDI01.JCL(MIJCL01) - 01.00          Columns 00001 00072
Command ==>                                     Scroll ==> CSR_
i10***** Top of Data *****
***** Bottom of Data *****

```

Abro líneas

```

EDIT      FREDI01.JCL(MIJCL01) - 01.00          Columns 00001 00072
Command ==>                                     Scroll ==> CSR_
***** Top of Data *****
*****
*****
*****
*****
*****
*****
*****
*****
***** Bottom of Data *****

```

Recordar al escribir un JCL que:

- + Las sentencias JCL comienzan con **//**
- + Línea de comentario **/***
- + Delimitador **/***
- + Las sentencias JCL finalizan cuando encuentran una línea cuyo único contenido es **//**
- + A partir de la columna **72** se considera comentario.
- + Todas las sentencias se deben escribir con **MAYÚSCULAS**.
- + La primera sentencia es **JOB**.
- + Todo Job debe tener como mínimo 1 Paso (sentencia **EXEC**).
- + Todo paso debe incluir como mínimo una definición de datos (sentencia **DD**)

Todo JOB comienza con la sentencia JOB.

Todo JOB debe tener como mínimo 1 paso

Todo Job debe tener la sentencia EXEC

Todo paso debe incluir una definición de datos DD (equivale a una variable de otros lenguajes)

El Job se dará finalizado cuando se encuentre con una línea //

Comenzamos a escribir el JOB por el nombre que NO debe comenzar con un número

La primer línea del JOB es: (Prestar atención a la separación de comas!)

MIJOB: Nombre del JOB max 8 caracteres.

JOB: Obligatorio.

SYLVER: Nombre de la cuenta que ejecuta el JOB, para ver cuanta CPU gastó cada cuenta.

ALFREDO: Nombre del operador que inicio el JOB.

Cuenta y operador no son obligatorios, pero es recomendable.

CLASS=A: Por cual clase de iniciador ingresa el JOB.

MSGCLASS=A: En cual clase de iniciador nos deja los mensajes, usamos la misma.

MSGLEVEL=(1,1): Da el nivel de detalle de los mensajes de salida. Tiene 2 valores:

- Nivel de mensajes JCL generados en el sistema
- Nivel de mensajes de los recursos solicitados al sistema (discos, DD, permisos)

NOTIFY=&SYSUID: (Opcional) Notifica si el JOB terminó sin errores a la persona que lanzó el mismo.

Si le doy <ENTER> vemos que se generó la primer ficha del JOB

```

EDIT          FREDI01.JCL(MIJCL01) - 01.00          Columns 00001 00072
Command ==>                                         Scroll ==> CSR_
***** Top of Data *****
000100 //MIJOB JOB SYLVER,ALFREDO,CLASS=A,MSGCLASS=A,MSGLEVEL=(1,1),
000200 //          NOTIFY=&SYSUID
***** Bottom of Data *****

```

Para seguir agregando pasos pongo un "i" de Insertar y doy <ENTER>

```

EDIT          FREDI01.JCL(MIJCL01) - 01.00          Columns 00001 00072
Command ==>                                         Scroll ==> CSR_
***** Top of Data *****
000100 //MIJOB JOB SYLVER,ALFREDO,CLASS=A,MSGCLASS=A,MSGLEVEL=(1,1),
000200 //          NOTIFY=&SYSUID
***** Bottom of Data *****

```

```

File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT          FREDI01.JCL(MIJCL01) - 01.00          Columns 00001 00072
Command ==>                                         Scroll ==> CSR_
***** Top of Data *****
000100 //MIJOB JOB SYLVER,ALFREDO,CLASS=A,MSGCLASS=A,MSGLEVEL=(1,1),
000200 //          NOTIFY=&SYSUID
***** Bottom of Data *****

```

Agrego el PASO1

```
// PASO1 EXEC PGM=IEBGENER,REGION=256K
```

PASO1: Nombre del paso (obligatorio).

EXEC: Para ejecutar un programa externo.

PGM=IEBGENER: El nombre del programa a ejecutar es IEBGENER que copia de un sitio a otro.

REGION=256K: Cantidad de memoria reservada para ejecutar este paso.

```
//SYSUT1 DD *
```

Mi primer JCL dentro de mi entorno OS/390!

SYSUT1: La variable que guarda el origen de lo que voy a copiar con IEBGENER (obligatorio).

DD: Creo una Data Definition.

*: Lo que sigue al * es lo que va a ir a la DD.

Mi primer JCL dentro de mi entorno OS/390! : El texto de origen de la copia.

```
//SYSUT2 DD SYSOUT=A
```

SYSUT2: Lo que sigue es el lugar a donde va a dejar la copia.

DD: Creo una Data Definition.

SYSOUT=A: Es la salida y uso la INIT A.

```
//SYSPRINT DD SYSOUT=A
```

SYSPRINT: Imprimir el entorno de ejecución. Es obligatorio en todo JCL.

DD SYSOUT=A: Imprimir en la clase A de salida.

```
//SYSIN DD DUMMY
```

SYSIN: Toda utility necesita un parámetro de entrada pero IEBGENER no pide ninguno por eso usamos un dummy.

DD DUMMY: Definición de un dummy.

```
//: Para finalizar el JOB
```

Así quedo el código:

```
EDIT          FREDI01.JCL(MIJCL01) - 01.00          Columns 00001 00072
Command ==>                                     Scroll ==> CSR_
***** Top of Data *****
==MSG> -Warning- The UNDO command is not available until you change
==MSG> your edit profile using the command RECOVERY ON.
000100 //MIJOB      JOB SYLVER,ALFREDO,CLASS=A,MSGCLASS=A,MSGLEVEL=(1,1),
000200 //          NOTIFY=&SYSUID
000300 //PASO1     EXEC PGM=IEBGENER,REGION=256K
000400 //SYSUT1     DD *
000500 Mi primer JCL dentro de mi entorno OS/390!!
000600 //SYSUT2       DD SYSOUT=A
000700 //SYSPRINT     DD SYSOUT=A
000800 //SYSIN         DD DUMMY
000900 //
***** Bottom of Data *****
```


Ingreso F3 para guardar el archivo del JOB

```

Menu  Functions  Confirm  Utilities  Help
EDIT      FREDI01.JCL                      Member MIJCL01 saved
Command ==>                               Scroll ==> PAGE
          Name      Prompt      Size  Created      Changed      ID
          $$$$COIBM  29  1983/12/15  1991/07/22  09:27:00  SYSIPO
          MIJCL01    *Edited    9   2023/11/23  2023/11/23  17:01:00  IBMUSER
          **End**

```

Si quiero verlo:

```

EDIT      FREDI01.JCL                      Member MIJCL01 saved
Command ==>                               Scroll ==> PAGE
          Name      Prompt      Size  Created      Changed      ID
          $$$$COIBM  29  1983/12/15  1991/07/22  09:27:00  SYSIPO
          V MIJCL01    *Edited    9   2023/11/23  2023/11/23  17:01:00  IBMUSER
          **End**

```

Ingreso V y <ENTER>

```

File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help
VIEW      FREDI01.JCL(MIJCL01) - 01.00          Columns 00001 00072
Command ==>                               Scroll ==> CSR_
***** Top of Data *****
==MSG> -Warning- The UNDO command is not available until you change
==MSG> your edit profile using the command RECOVERY ON.
000100 //MIJOB      JOB SYLVER,ALFREDO,CLASS=A,MSGCLASS=A,MSGLEVEL=(1,1),
000200 //          NOTIFY=&SYSUID
000300 //PAS01     EXEC PGM=IEBGENER,REGION=256K
000400 //SYSUT1      DD *
000500 Mi primer JCL dentro de mi entorno OS/390!!
000600 //SYSUT2      DD SYSOUT=A
000700 //SYSPRINT    DD SYSOUT=A
000800 //SYSIN       DD DUMMY
000900 //
***** Bottom of Data *****

```

Si quiero editarlo ingreso E y <ENTER>

```

Menu  Functions  Confirm  Utilities  Help
BROWSE      FREDI01.JCL                      Row 00001 of 00002
Command ==>                               Scroll ==> PAGE
          Name      Prompt      Size  Created      Changed      ID
          $$$$COIBM  29  1983/12/15  1991/07/22  09:27:00  SYSIPO
          E MIJCL01    *Edited    9   2023/11/23  2023/11/23  17:01:00  IBMUSER
          **End**

```

```

File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help
EDIT      FREDI01.JCL(MIJCL01) - 01.00          Columns 00001 00072
Command ==>                               Scroll ==> CSR_
***** Top of Data *****
==MSG> -Warning- The UNDO command is not available until you change
==MSG> your edit profile using the command RECOVERY ON.
000100 //MIJOB      JOB SYLVER,ALFREDO,CLASS=A,MSGCLASS=A,MSGLEVEL=(1,1),
000200 //          NOTIFY=&SYSUID
000300 //PAS01     EXEC PGM=IEBGENER,REGION=256K
000400 //SYSUT1      DD *
000500 Mi primer JCL dentro de mi entorno OS/390!!
000600 //SYSUT2      DD SYSOUT=A
000700 //SYSPRINT    DD SYSOUT=A
000800 //SYSIN       DD DUMMY
000900 //
***** Bottom of Data *****

```

Cuando estoy en EDIT puedo correr el Job ingresando sub de SUBMIT

```

File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      FREDI01.JCL(MIJCL01) - 01.00                      Columns 00001 00072
Command ==> sub                                           Scroll ==> CSR_
***** ***** Top of Data *****
==MSG> -Warning- The UNDO command is not available until you change
==MSG> your edit profile using the command RECOVERY ON.
000100 //MIJOB      JOB SYLVER,ALFREDO,CLASS=A,MSGCLASS=A,MSGLEVEL=(1,1),
000200 //          NOTIFY=&SYSUID
000300 //PAS01     EXEC PGM=IEBGENER,REGION=256K
000400 //SYSUT1     DD *
000500 Mi primer JCL dentro de mi entorno OS/390!!
000600 //SYSUT2     DD SYSOUT=A
000700 //SYSPRINT   DD SYSOUT=A
000800 //SYSIN      DD DUMMY
000900 //
***** ***** Bottom of Data *****

```

Ingreso <ENTER>

Aparece abajo en la pantalla:

```

IKJ56250I JOB MIJOB(JOB00450) SUBMITTED
***

```

Si doy de nuevo <ENTER>

```

17.10.57 JOB00450 $HASP165 MIJOB      ENDED AT N1  MAXCC=0  CN(INTERNAL)
***

```

Me dice que el JOB terminó sin errores: MAXCC=0.

Este mensaje aparece por el comando NOTIFY que ingrese en el JOB.

Si ingreso F2 puedo partir la pantalla en 2 y cambiar de pantalla con F9

```

EDIT          FREDI01.JCL(MIJCL01) - 01.00          Columns 00001 00072
Command ==>                                         Scroll ==> CSR_
***** Top of Data *****
==MSG> -Warning- The UNDO command is not available until you change
==MSG>          your edit profile using the command RECOVERY ON.
000100 //MIJOB      JOB SYLVER,ALFREDO,CLASS=A,MSGCLASS=A,MSGLEVEL=(1,1),
000200 //          NOTIFY=&SYSUID
000300 //PASO1      EXEC PGM=IEBGENER,REGION=256K
000400 //SYSUT1      DD *
000500 //Mi primer JCL dentro de mi entorno OS/390!!
000600 //SYSUT2      DD SYSOUT=A
000700 //SYSPRINT     DD SYSOUT=A
000800 //SYSIN        DD DUMMY
000900 //
***** Bottom of Data *****

```

F9:

```

File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT          FREDI01.JCL(MIJCL01) - 01.00          Columns 00001 00072
Menu Utilities Compilers Options Status Help

ISPF Primary Option Menu
Option ==>
0 Settings      Terminal and user parameters      User ID . : IBMUSER
1 View          Display source data or listings    Time. . . : 17:14
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         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

```

Así puedo tener siempre la edición de mi trabajo y usar comandos del ISPF ingresando menos comandos.

Voy al SDSF para ver el status del JOB

```

Menu Edit Edit_Settings Compilers Options Status Help
ISPF Primary Option Menu
Option ==> m.5
0 Settings      Terminal and user parameters

```

Con st y <ENTER> voy al status:

```

File Edit Edit_Settings Menu Utilities Compilers Test H
EDIT      FREDI01.JCL(MIJCL01) - 01.00      Colum
Display Filter View Print Options Help
-----
HQPX7703 ----- SDSF PRIMARY OPTION MENU ----- SC
COMMAND INPUT ==> st

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

```

Veo todos los JOB, tengo que bajar con F8 a fin de encontrar el JOB que corrí:

```

SDSF      STC00372 ++++++++ 1 PRINT 57
SYSLOG    STC00341 +MASTER+ 1 PRINT 58
TCPIP     STC00380 TCPIP     1 PRINT 59
HTTPD1    STC00383 WEBSRV    1 PRINT 60
PORTMAP   STC00382 PORTMAP   1 PRINT 61
CICSA     STC00379 CICSA     1 PRINT 62
IRRDPTAB  STC00433 IRRDPTAB  1 PRINT 63
MIJOB     JOB00441 IBMUSER   1 PRINT  A  64
MIJOB     JOB00449 IBMUSER   1 PRINT  A  65
MIJOB     JOB00450 IBMUSER   1 PRINT  A  66

```

Es el último y coincide su número con el que me indico el sistema cuando ejecute el mismo

```

IKJ56250I JOB MIJOB(JOB00450) SUBMITTED
***

```

Si quiero ver el estado del mismo voy al listado de los JOB e ingreso S de Status y <ENTER>

```

CICSA     STC00379 CICSA     1 PRINT 62
IRRDPTAB  STC00433 IRRDPTAB  1 PRINT 63
MIJOB     JOB00441 IBMUSER   1 PRINT  A  64
MIJOB     JOB00449 IBMUSER   1 PRINT  A  65
S MIJOB     JOB00450 IBMUSER   1 PRINT  A  66

```


Veo todos los detalles

```

File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      FREDI01.JCL(MIJCL01) - 01.00          Columns 00001 00072
Display Filter View Print Options Help
-----
SDSF OUTPUT DISPLAY MIJOB      JOB00450  DSID      2 LINE 0      COLUMNS 02- 81
COMMAND INPUT ==>              SCROLL ==> CSR
***** TOP OF DATA *****
      JES2 JOB LOG -- SYSTEM SYS1 -- N
17.10.56 JOB00450 ---- THURSDAY, 23 NOV 2023 ----
17.10.56 JOB00450 IRR010I USERID IBMUSER IS ASSIGNED TO THIS JOB.
17.10.56 JOB00450 ICH70001I IBMUSER LAST ACCESS AT 17:07:38 ON THURSDAY, NOVEM
17.10.56 JOB00450 $HASP373 MIJOB      STARTED - INIT 1      - CLASS A - SYS SYS1
17.10.57 JOB00450 $HASP395 MIJOB      ENDED
----- JES2 JOB STATISTICS -----
      23 NOV 2023 JOB EXECUTION DATE
           8 CARDS READ
          41 SYSOUT PRINT RECORDS
           0 SYSOUT PUNCH RECORDS
           2 SYSOUT SPOOL KBYTES
           0.00 MINUTES EXECUTION TIME
      1 //MIJOB      JOB SYLVER,ALFREDO,CLASS=A,MSGCLASS=A,MSGLEVEL=(1,1),
        //          NOTIFY=&SYSUID
      IEF653I SUBSTITUTION JCL - SYLVER,ALFREDO,CLASS=A,MSGCLASS=A,MSGLEVEL
      2 //PAS01      EXEC PGM=IEBGENER,REGION=256K
      3 //SYSUT1      DD *
      4 //SYSUT2      DD SYSOUT=A
      5 //SYSPRINT    DD SYSOUT=A
      6 //SYSIN       DD DUMMY

```

Si ingreso F8 veo que se imprimió el mensaje

```

File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      FREDI01.JCL(MIJCL01) - 01.00          Columns 00001 00072
Display Filter View Print Options Help
-----
SDSF OUTPUT DISPLAY MIJOB      JOB00450  DSID      4 LINE 13     COLUMNS 02- 81
COMMAND INPUT ==>              SCROLL ==> CSR
IEF375I JOB/MIJOB      /START 2023327.1710
IEF376I JOB/MIJOB      /STOP  2023327.1710 CPU      0MIN 00.04SEC SRB      0MIN 00.00S
Mi primer JCL dentro de mi entorno OS/390!!      00050000
DATA SET UTILITY - GENERATE
IEB352I WARNING : OUTPUT RECFM/LRECL/BLKSIZE COPIED FROM INPUT
PROCESSING ENDED AT EOD
***** BOTTOM OF DATA *****

```

Si regreso con F3 y en vez de una S ingreso un "?" <ENTER> puedo ver partes de la salida

```

      MIJOB      JOB00449  IBMUSER      1 PRINT      A      65
?      MIJOB      JOB00450  IBMUSER      1 PRINT      A      66
-----
SDSF JOB DATA SET DISPLAY - JOB MIJOB      (JOB00450)      LINE 1-5 (5)
COMMAND INPUT ==>              SCROLL ==> CSR
NP  DDNAME      StepName ProcStep DSID Owner      C Dest      Rec-Cnt PAGE
   JESMSG LG JES2      2  IBMUSER  A LOCAL      14
   JESJCL  JES2      3  IBMUSER  A LOCAL      8
   JESYSMSG JES2      4  IBMUSER  A LOCAL     14
   SYSUT2  PAS01     102 IBMUSER  A LOCAL      1
   SYSPRINT PAS01     103 IBMUSER  A LOCAL      4

```

En la fila donde ponga una "S" y <ENTER> voy a ver el detalle de esa fila:

```

SDSF JOB DATA SET DISPLAY - JOB MIJOB      (JOB00450)      LINE 1-5 (5)
COMMAND INPUT ==>
NP  DDNAME  StepName ProcStep DSID Owner   C Dest
    JESMSG LG JES2      2  IBMUSER  A LOCAL
    JESJCL   JES2      3  IBMUSER  A LOCAL
    JESYSMSG JES2      4  IBMUSER  A LOCAL
  S  SYSUT2  PAS01     102 IBMUSER  A LOCAL
    SYSPRINT PAS01     103 IBMUSER  A LOCAL

```

Por ejemplo el mensaje que mandé a copiar:

```

-----
SDSF OUTPUT DISPLAY MIJOB      JOB00450  DSID   102 LINE 0      COLUMNS 02- 81
COMMAND INPUT ==>
***** TOP OF DATA *****
Mi primer JCL dentro de mi entorno OS/390!!
***** BOTTOM OF DATA *****

```

Si quiero salir y guardar lo hecho:

En el ISPF ingreso F3 y en esta pantalla elijo 3 como opción y <ENTER>

```

                                Specify Disposition of Log Data Set
Command ==> _____

Log Data Set (IBMUSER.SPFLOG1.LIST) Disposition:
Process Option . . . . 3  1. Print data set and delete
                          2. Delete data set without printing
                          3. Keep data set - Same
                           (allocate same data set in next session)
                          4. Keep data set - New
                           (allocate new data set in next session)

Batch SYSOUT class . . _____
Local printer ID or _____
writer-name . . . . . _____
Local SYSOUT class . . _____

```

```

IBMUSER.SPFLOG1.LIST has been kept.
READY

```

Ingreso logoff <ENTER>

```

SOURCE DATA SET = SYS1.VTAM.SOURCE(USSN)

                                W E L C O M E   T O

      SSSSSS // 3333333 9999999 0000000
      SS      33 33 99 99 00 00
      SS      33 33 99 99 00 00
      SSSS    33333 9999999 00 00
      SS      33 33 99 99 00 00
      SS      33 33 99 99 00 00
      SSSSSS // 3333333 9999999 0000000

TERMINAL NAME = LCL701          NETWORK-QUALIFIED NAME = P390.LCL701
SSCPNAME = P390SSCP           NETWORK-ID = P390

OS/390 APPLICATION SERVICES SYSTEM - RELEASE 2.10.0

==> ENTER "LOGON" FOLLOWED BY THE TSO USERID. EXAMPLE "LOGON IBMUSER" OR
==> ENTER L FOLLOWED BY THE APPLID
==> EXAMPLES: "L TSO", "L CICS", "L IMS3270

```