

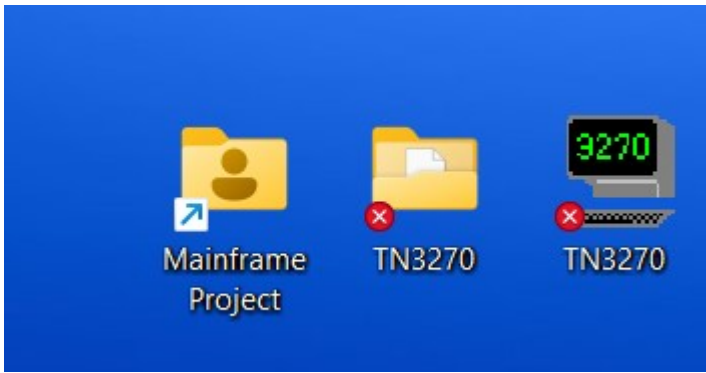
Pós-Graduação MBA

Alta Plataforma Mainframe IBM

Professor: Vagner Bellacosa

- Disciplina: Cobol & Além

COBOL



Modulo 02.03 – Configurações de Ambiente

- 1) VPN
- 2) Emulador TN3270 Plus
- 3) Emulador PCOMM
- 4) TSO
- 5) ISPF
- 6) Barra de Ferramentas ISPF
- 7) Duvidas

COBOL



1) Vagner Bellacosa seu facilitador

Analista programador desde 1989, onde comecei como auxiliar e tecnólogo em processamento de dados desbravando os primórdios da computação brasileira, um eterno aprendiz em processos Mainframe..

Desde então trabalhei em centenas de projetos, em 4 países e dezenas de instituições financeiras, ora como funcionário, consultor externo e freelancer.

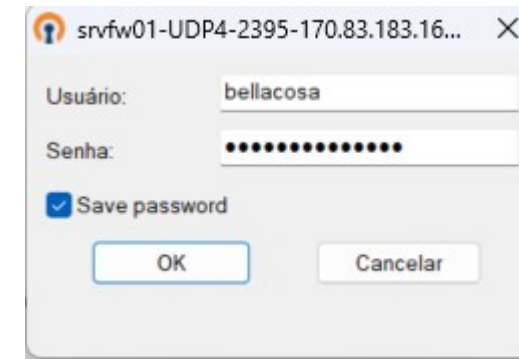
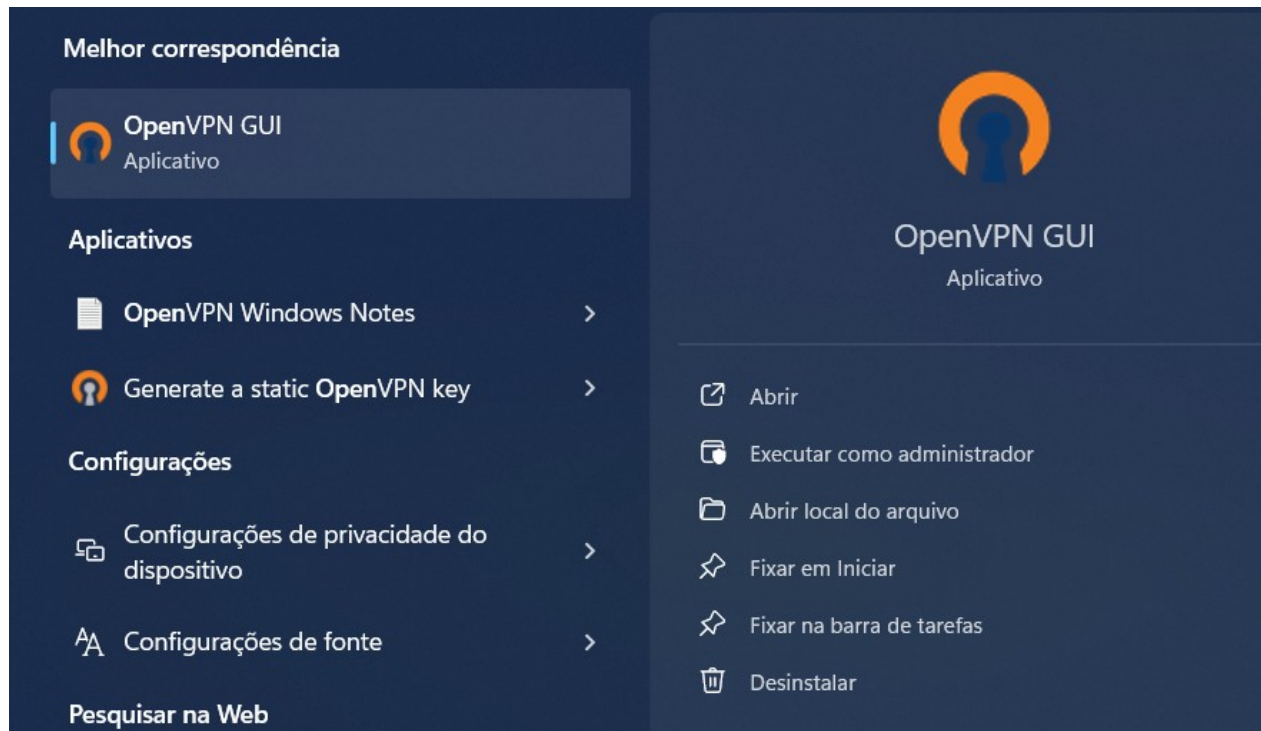
A mais memorável foi o Banco REAL, uma verdadeira escola, onde aprendi muito e tive a oportunidade de participar no aliciante Projeto Y2K, o temível bug do milênio.

Participei em projetos na CESP, Fundação CESP, Transbrasil, ABSA, Real Seguros, BPN, Skandia, DGITA, BES, CGD, BPI, Barclay, Skandia, IBM Italia, Sistemi Informativi, Unicredit, Zurich Assicurazione, Banco Safra e Banco Itaú.

Atualmente trabalho na Spread no Projeto BRB em Brasília, via remoto.

TSO

OpenVPN GUI



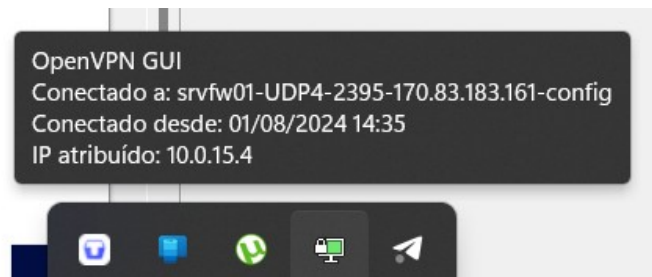
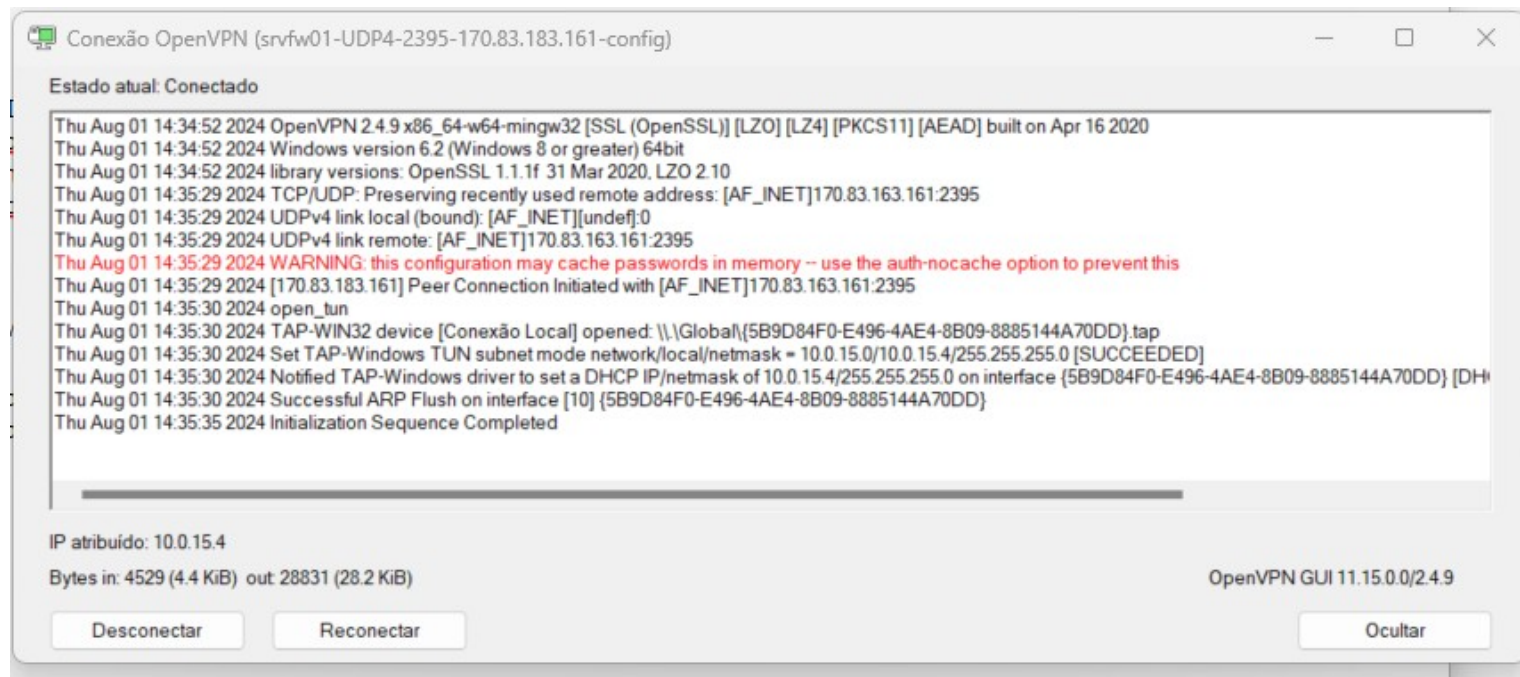
Usuario e Senha serão fornecidos pelo suporte

OpenVPN 2.4.9 x86_64-w64-mingw32
[SSL (OpenSSL)] [LZO] [LZ4] [PKCS11]
[AEAD] built on Apr 16 2020

[AF_INET]170.83.163.161:2395

TSO

OpenVPN GUI - conectado



TSO

Emulador TN3270 Plus



SDI Over Thirty Years of Software Innovation...

Home | Products | Contact | Links | About SDI

TN3270 Plus Secure Telnet Terminal Emulation for Windows

Overview

TN3270 Plus is a flexible, efficient and inexpensive terminal emulator application for connecting Windows PC users to IBM zSeries (mainframe), IBM iSeries (AS/400), UNIX and other Windows systems via TCP/IP

TN3270 Plus supports [telnet](#), telnet 3270 (TN3270), telnet 3270 enhancements (TN3270E) and telnet 5250 ([TN5250](#)). **TN3270 Plus** includes terminal emulation for 3270, 5250, VT220, VT100 and ANSI terminals and printer emulation for 3287 and 5250 printers. All this in a compact easy to use product.

Efficient and Inexpensive

TN3270 Plus has the [features](#) of large expensive products in a tight efficient package for outstanding performance with minimal resource usage. For example, use Chinese and Japanese code pages to input and display Chinese or Japanese characters, automate common tasks with the scripting language or connect up to 99 terminal or printer emulation sessions of any type in any combination at the same time. Use [WinHLLAPI](#) or [DDE](#) to allow your applications to interface with TN3270 Plus. Use the TN3270 Plus [FTP client](#) for quick and easy file transfers. [SSL](#) and [SSH](#) support allow secure connections.

An innovative [pricing](#) scheme allows you to pay for only the features you need!

Flexible

TN3270 Plus supports Windows 11, 10, 8, 7, XP and Windows Server 2022, 2019, 2016, 2012, 2008, 2003 and 2000. A common interface to these operating systems allows deployment of the product throughout your enterprise without the support costs associated with

Try Now **Buy Now**

News

TN3270 Plus release 4.0.7 is now available.

See our [Version History](#) web page for a list of updates included in release 4.0.7.

Security Alerts!

OpenSSL Security Alert

On March 19, 2015, the OpenSSL Organization posted a Security Advisory. The Security Advisory contains issues that could affect TN3270 Plus users. See our [Security Alert](#) web page for more information.

POODLE Security Alert

TN3270 Plus users using the SSL encryption protocol should switch to TLS. See the [POODLE Security Alert](#) web page to see how the SSL POODLE vulnerability affects you. Note that this vulnerability is now well-known so it can be expected that many hackers will exploit it.

Heartbleed Security Alert

TN3270 Plus users using the SSL or TLS encryption protocol should

Search Site:

Search site...

Links:

- Overview
- Features
- Download
- Prices
- Buy Now
- User Guide
- FAQ
- Screen Shots
- User Comments
- White Papers

E-mail:

- Sales
- Support

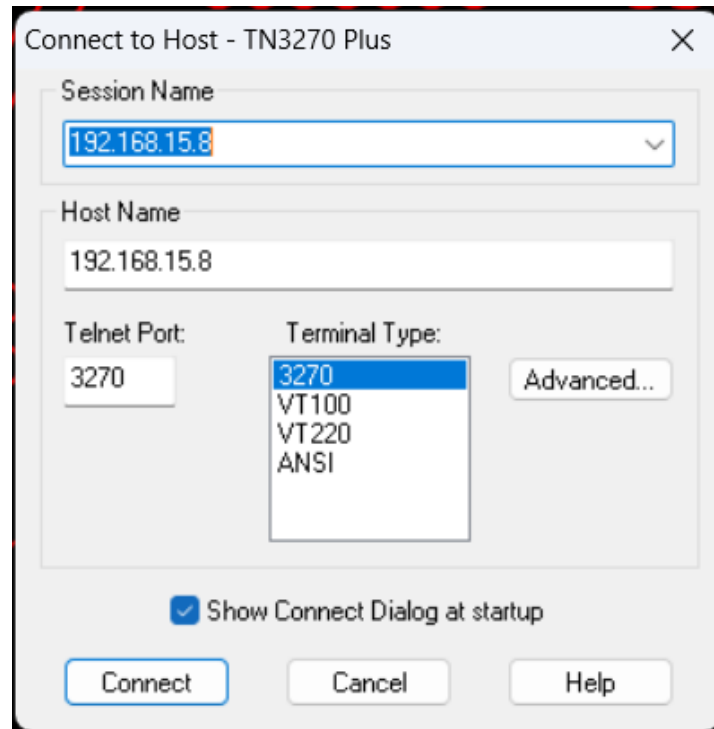
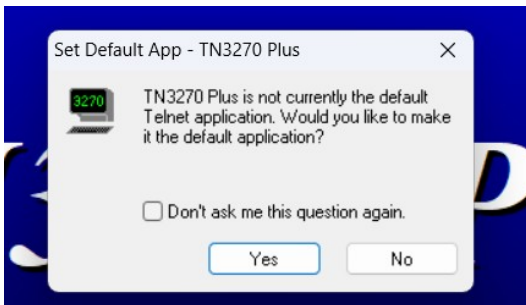
Manual do usuário:
<http://www.sdisw.com/tn3270/manual/index.html>

Documentos do suporte:
<http://www.sdisw.com/tn3270/whitepapers.htm>

<http://www.sdisw.com/>

TSO

Conectando ao Sistema Central (Formação).



IP de acesso:
192.168.15.8

<http://www.sdisw.com/>

TSO

3: 192.168.15.8 - TN3270 Plus

Host Edit View Setup Macros Internet Help

01/08/24 17:32:54 TERMINAL VTAM = LCL701

```

*****\  *****\  ***\  *****\  *****\  *****\
*****\  *****\  ***\  *****\  *****\  *****\
  ***\  *****\**\  ***\  *****\*\*\*\  *****\*\*\*\  *****\*\*\*\
  ***\  *****\**\  ***\  *****\  *****\  *****\*\*\*\  *****\*\*\*\
  ***\  *****\**\  ***\  *****\  *****\*\*\*\  *****\*\*\*\  *****\*\*\*\
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  ***\  *****\**\  ***\  *****\  *****\*\*\*\  *****\*\*\*\  *****\*\*\*\
  ***\  *****\**\  ***\  *****\  *****\*\*\*\  *****\*\*\*\  *****\*\*\*\
  ***\  *****\**\  ***\  *****\  *****\*\*\*\  *****\*\*\*\  *****\*\*\*\
  *****\*\*\*\  *****\  *****\  *****\*\*\*\  *****\  *****\*\*\*\  *****\*\*\*\
  *****\*\*\*\  *****\  *****\  *****\*\*\*\  *****\  *****\*\*\*\  *****\*\*\*\
  \*\*\*\*\  \*\*\*\*\  \*\*\*\*\  \*\*\*\*\*\*\*\  \*\*\*\*\*\*\*\  \*\*\*\*\*\*\*\

```

INSTITUTO DE ESTUDOS E DE FORMAÇÃO ESPECIALIZADA

CAPACITAÇÃO - COBOL

==> ENTRE "LOGON" SEGUIDO PELO USUARIO TSO. EXEMPLO: "LOGON INEFEXX" OU

==> ENTRE "L" SEGUIDO DO NOME DO CICS. EXEMPLOS: "L CIC5A01"

1: Hercules INEFE 3: 192.168.15.8

Connected to 192.168.15.8 port 3270

00:00.000 24,01 IBM-3278-3-E NUM

LOGON USERID

O USER-ID será
fornecido via e-mail
pelo suporte.

TSO

```
01/08/24    17:32:54                TERMINAL VTAM  = LCL701

*****\  *****\  ****\  *****\  *****\  *****\
*****\  *****\  ****\  *****\  *****\  *****\
***\    ***\**\    ***\  ***\////\  ***\////\  ***\////\
***\    ***\ **\    ***\  ***\    ***\    ***\    ***\
***\    ***\ **\    ***\  *****\  *****\  *****\
***\    ***\ **\    ***\  ***\////\  ***\////\  ***\////\
***\    ***\  ****\  ***\    ***\    ***\    ***\
***\    ***\  ****\  ***\    ***\    ***\    ***\
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\\\\\\\\  \\\  \\\  \\\\\\\\\  \\\  \\\\\\\\\

INSTITUTO DE ESTUDOS E DE FORMAÇÃO ESPECIALIZADA

CAPACITAÇÃO - COBOL

==> ENTRE "LOGON" SEGUIDO PELO USUARIO TSO. EXEMPLO: "LOGON INEFEXX" OU
==> ENTRE "L" SEGUIDO DO NOME DO CICS. EXEMPLOS:

logon ibmuser
```

LOGON USER-ID
Conectando ao Host

```
==> ENTRE "LOGON" SEGUIDO PELO USUARIO TSO. EXEMPLO: "LOGON INEFEXX" OU
==> ENTRE "L" SEGUIDO DO NOME DO CICS. EXEMPLOS:

logon ibmuser
```

TSO

```

3: 192.168.15.8 - TN3270 Plus
Host Edit View Setup Macros Internet Help
----- TSO/E LOGON -----

Enter LOGON parameters below:

Userid      ===> IBMUSER
Password    ===>
Procedure   ===> SUP0PROC
Acct Nmbr   ===> ACCT#
Size        ===> 2048000
Perform     ===>
Command     ===> LOGOFF

Enter an 'S' before each option desired below:
      -Nomail      -Nonnotice      S -Reconnect      -OIDcard

PF1/PF13 ==> Help    PF3/PF15 ==> Logoff    PA1 ==> Attention    PA2 ==> Reshow
You may request specific help information by entering a '?' in any entry field

1: Hercules INEFE 3: 192.168.15.8
Connected to 192.168.15.8 port 3270
00:00.063 08,20 IBM-3278-3-E CAP NUM
  
```

Informe sua Password

```

Enter LOGON parameters below:

Userid      ===> IBMUSER
Password    ===>
  
```

TSO

```

----- TSO/E LOGON -----

Enter LOGON parameters below:

Userid      ==> KC02746
Password    ==> _
Procedure   ==> DBPROCCG
Acct Nmbr   ==> ACCT#
Size        ==> 32768
Perform     ==>
Command     ==>

RACF LOGON parameters:

New Password ==>
Group Ident  ==>

Enter an 'S' before each option desired below:
      -Nomail      -Nonotice      S -Reconnect      -OIDcard

PF1/PF13 ==> Help    PF3/PF15 ==> Logoff    PA1 ==> Attention    PA2 ==> Reshow
You may request specific help information by entering a '?' in any entry field

M0 0.4 05/24/23.144 09:34AM zos.kctr.marist.edu a 8,20
  
```

**Informe sua senha
Password**

```

Enter LOGON parameters below:

Userid      ==> KC02746
Password    ==>
  
```

TSO

3: 192.168.15.8 - TN3270 Plus

Host Edit View Setup Macros Internet Help

↑ ↓ ↻ ↕ ↕ ✂ 📄 📁 🏠 🖨 F F F F 1 2 3 4 5 6 7 8 9

```

ICH70001I IBMUSER  LAST ACCESS AT 17:38:50 ON TUESDAY, JULY 30, 2024
IKJ56455I IBMUSER LOGON IN PROGRESS AT 17:38:14 ON AUGUST 1, 2024
  
```

Mr Wizards i'm
online...

```

ICH70001I IBMUSER  LAST ACCESS AT 17:38:50 ON TUESDAY, JULY 30, 2024
IKJ56455I IBMUSER LOGON IN PROGRESS AT 17:38:14 ON AUGUST 1, 2024
IKJ56951I NO BROADCAST MESSAGES
*****
*
*  ISPF RESERVADO PARA EQUIPE DE SUPORTE
*
*****
***
  
```

TSO

Menu	Utilities	Compilers	Options	Status	Help

ISPF Primary Option Menu (Suporte técnico)					
Option ==>					
0	Settings	Terminal and user parameters			User ID . : IBMUSER
1	View	Display source data or listings			Time. . . : 17:39
2	Edit	Create or change source data			Terminal. : 3278
3	Utilities	Perform utility functions			Screen. . : 1
6	Command	Enter TSO or Workstation commands			Language. : ENGLISH
SD	SDSF	System Display And Search Facility			Appl ID . : ISR
RC	RACF	Resource Access Control Facility			TSO logon : SUP0PROC
IP	IPCS	Interactive Product Control System			TSO prefix:
DI	DITTO	Data Interfile Transfer,Testing And O			System ID : ADCD
OM	OMVS	Open Edition For MVS			MVS acct. : ACCT#
SM	SMP/E	System Management Product			Release . : ISPF 6.1
IS	ISMF	Integrated Storage Management Facilit			
S2	SDF II	Screen Definition Facility II			
DB	DB2	DB2 user tasks			
AD	DB2 Admin	DB2 administrator tasks			
MQ	WMQS	WMQ Series Operations and Control			
FM	FMOC	File Manager Operations and Control			
Enter X to Terminate using log/list defaults					

TSO

Teclas de Função

```

F1=HELP      F2=SPLIT      F3=END      F4=RETURN      F5=IFIND      F6=BOOK
F7=UP        F8=DOWN      F9=SWAP lis F10=LEFT      F11=RIGHT      F12=RETRIEVE
*SDSF

MA | Display Filter View Print Options Search Help | edu a 4,21
-----
SDSF JOB DATA SET DISPLAY - JOB CATCOB00 (JOB06094) LINE 1-5 (5)
COMMAND INPUT ==> SCROLL ==> CSR
PREFIX=CAT* DEST=(ALL) OWNER=* SYSNAME=
NP DDNAME C SegID DSName Chars
JESMSG LG 5 KC02746.CATCOB00.JOB06094.D0000002.JESMSG LG ****,****,**
JESJCL 5 KC02746.CATCOB00.JOB06094.D0000003.JESJCL ****,****,**
JESYSMSG 5 KC02746.CATCOB00.JOB06094.D0000004.JESYSMSG ****,****,**
SYSPRINT 5 KC02746.CATCOB00.JOB06094.D0000101.? ****,****,**
SYSPRINT 5 KC02746.CATCOB00.JOB06094.D0000102.? ****,****,**

F1=HELP      F2=SPLIT      F3=END      F4=RETURN      F5=IFIND      F6=BOOK
F7=UP        F8=DOWN      F9=SWAP lis F10=LEFT      F11=RIGHT      F12=RETRIEVE
*SDSF

MA | 0.2 05/24/23.144 03:16PM zos.kctr.marist.edu a 4,21

```

Comando : PFSHOW

Habilita a exibição das teclas de função nas linhas 22 e 23.

ISPF

IDE para
desenvolvimento
de programas
Mainframe.

```

Menu Utilities Compilers Options Status Help
-----
ISPF Primary Option Menu

Option ==> _

                                More:  +

0  Settings      Terminal and user parameters      User ID . : KC02746
1  View          Display source data or listings    Time. . . : 08:37
2  Edit          Create or change source data       Terminal. : 3278A
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 : DBPROCCG
7  Dialog Test   Perform dialog testing             TSO prefix:
8  LM Facility   Library administrator functions    System ID : S0W1
9  IBM Products  IBM program development products    MVS acct. : ACCT#
                                           Release . : ISPF 7.4

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ity

*DB2@PRI

```


ISPF

```

Menu  Utilities  Compilers  Options  Status  Help
-----
                                ISPF Primary Option Menu
Option ==> START

                                More:      +
0  Settings      Terminal and user parameters      User ID . : KC02746
1  View          Display source data or listings    Time. . . : 08:37
2  Edit          Create or change source data        Terminal. : 3278A
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 : DBPROCCG
7  Dialog Test   Perform dialog testing              TSO prefix:
8  LM Facility   Library administrator functions    System ID : S0W1
9  IBM Products  IBM program development products   MVS acct. : ACCT#
                                                Release . : ISPF 7.4

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-----
ity

*DB2@PRI

M01 0.1 05/24/23.144 09:37AM zos.kctr.marist.edu  a  4,19
    
```

Comando Start

Cria novas janelas a

```

Option ==> START
    
```

ISPF

```

Menu Utilities Compilers Options Status Help
-----
ISPF Primary Option Menu

Option ==>
More: +

0 Settings      Terminal and user parameters    < Calendar >
1 View          Display source data or listings      May 2023
2 Edit          Create or change source data        Su Mo Tu We Th Fr Sa
3 Utilities      Perform utility functions            1 2 3 4 5 6
4 Foreground    Interactive language processing      7 8 9 10 11 12 13
5 Batch          Submit job for language processing    14 15 16 17 18 19 20
6 Command        Enter TSO or Workstation commands     21 22 23 24 25 26 27
7 Dialog Test    Perform dialog testing               28 29 30 31
8 LM Facility    Library administrator functions
9 IBM Products   IBM program development products    Time . . . . : 08:39
10 SCLM          SW Configuration Library Manager    Day of year. : 144
11 Workplace     ISPF Object/Action Workplace

----- Other Install Products -----

SD SDSF          System Display and Search Facility
IP IPCS          Inter Problem Control Facility

-DB2@PRI *DB2@PRI

M 0.2 05/24/23.144 09:38AM zos.kctr.marist.edu a 4,14

```

Comando Start

Esta limitado a oito janelas, que podem ser renomeadas e permite navegação via mouse ou linha de comando.

ISPF

```

Menu Utilities Compilers Options Status Help
-----
ISPF Primary Option Menu

Option ==> SWAP

                                More:      +
0  Settings      Terminal and user parameters    User ID . : KC02746
1  View          Display source data or listings  Time. . . : 08:41
2  Edit          Create or change source data     Terminal. : 3278A
3  Utilities     Perform utility functions        Screen. . : 4
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 : DBPROCCG
7  Dialog Test   Perform dialog testing          TSO prefix:
8  LM Facility   Library administrator functions System ID : S0W1
9  IBM Products  IBM program development products MVS acct. : ACCT#
10 SCLM          SW Configuration Library Manager Release . : ISPF 7.4
11 Workplace     ISPF Object/Action Workplace

----- Other Install Products -----

SD SDSF          System Display and Search Facility
IP IPCS          Inter Problem Control Facility

DB2@PRIM DB2@PRIM -DB2@PRI *DB2@PRI

M@ 0.2 05/24/23.144 09:40AM zos.kctr.marist.edu  a 4,18

```

Comando Swap

Permite Navegar
nas janelas abertas,
da esquerda para
direita num
formato carrossel,
voltando a

```

Option ==> SWAP

0  Settings      Terminal and user parameters

```

ISPF

```

Menu  Utilities  Compilers  Options  Status  Help
-----
ISPFI Primary Option Menu

Option ==> SWAP

                                More:  +

0  Settings      Terminal and user parameters      User ID . : KC02746
1  View          Display source data or listings    Time. . . : 08:41
2  Edit          Create or change source data       Terminal. : 3278A
3  Utilities     Perform utility functions          Screen. . : 4
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 : DBPROCCG
7  Dialog Test   Perform dialog testing             TSO prefix:
8  LM Facility   Library administrator functions    System ID : S0W1
9  IBM Products  IBM program development products  MVS acct. : ACCT#
10 SCLM          SW Configuration Library Manager   Release . : ISPF 7.4
11 Workplace     ISPF Object/Action Workplace

----- Other Install Products -----

SD SDSF          System Display and Search Facility
IP IPCS          Inter Problem Control Facility

DB2@PRIM DB2@PRIM -DB2@PRI *DB2@PRI

M@ 0.2 05/24/23.144 09:40AM zos.kctr.marist.edu  a 4,18

```

Comando Swap

Permite Navegar nas janelas abertas, da esquerda para direita num formato carrossel, voltando a primeira.

```

Option ==> SWAP

0  Settings      Terminal

```

ISPF

```

Menu Utilities Compilers Options Status Help
-----
ISPF Primary Option Menu

Option ==> SWAP LIST

                                More:      +
0  Settings      Terminal and user parameters      User ID . : KC02746
1  View          Display source data or listings    Time. . . : 08:41
2  Edit          Create or change source data       Terminal. : 3278A
3  Utilities     Perform utility functions          Screen. . : 4
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 : DBPROCCG
7  Dialog Test   Perform dialog testing            TSO prefix:
8  LM Facility   Library administrator functions    System ID : SQW1
9  IBM Products IBM program development products    MVS acct. : ACCT#
10 SCLM          SW Configuration Library Manager    Release . : ISPF 7.4
11 Workplace     ISPF Object/Action Workplace

----- Other Install Products -----

SD SDSF          System Display and Search Facility
IP IPCS          Inter Problem Control Facility

DB2@PRIM DB2@PRIM -DB2@PRI *DB2@PRI

M@ 0.2 05/24/23.144 09:41AM zos.kctr.marist.edu a 4,23

```

Comando Swap LIST

Abre uma janela
que permite
selecionar a janela
diretamente.

Option ==> SWAP LIST

ISPF

```

Menu  Utilities  Compilers  Options  Status  Help
-----
      ISPF Task List
      Active ISPF Logical Sessions

0
. Start a new screen
0 . Start a new application
1 Application Name
2
3
4 ID   Name      Panelid  Applid   Session Type
5 1
6 2
7 3-
8 4*
9
10
11
12
S
IP IPCS      Inter Problem Control Facility

DB2@PRIM DB2@PRIM -DB2@PRI *ISPSLIS

MA 0.3 05/24/23.144 09:43AM zos.kctr.marist.edu a 11,7

```

Comando Swap LIST

Pode ser
selecionado pelo ID
ou colocando S na

```

. Start a new screen
. Start a new application
Application Name
1
ID   Name      Panelid
1

```

```

Active ISPF Logical Sessions

. Start a new screen
. Start a new application
Application Name

ID   Name      Panelid  Applid   Session Type
s 1

```

ISPF

Comando Swap LIST

Pode ser
selecionado pelo ID
ou colocando S na
frente.

```

Menu  Utilities  Compilers  Options  Status  Help
-----
      ISPF Task List
      Active ISPF Logical Sessions

0
. Start a new screen
0
. Start a new application
1 Application Name
2
3
4 ID   Name      Panelid  Applid   Session Type
5 1
6 2
7 3-
8 4*
9
10
11
12
S
IP IPCS      Inter Problem Control Facility

DB2@PRIM DB2@PRIM -DB2@PRI *ISPSLIS

MA 0.3 05/24/23.144 09:43AM zos.kctr.marist.edu a 11,7
  
```

```

. Start a new screen
. Start a new application
Application Name
1
-----
ID   Name      Panelid
1   DB2@PRIM
  
```

```

      Active ISPF Logical Sessions

. Start a new screen
. Start a new application
Application Name
-----
ID   Name      Panelid  Applid   Session Type
s 1   DB2@PRIM  ISR      3270
  2*
  
```


ISPF

Comando SCRNAME

Utilizado para
renomear uma
janela

```

Menu  RefList  RefMode  Utilities  Workstation  Help

View Entry Panel                                Invalid command
Command ==> SCRNAME VIEWFILE

ISPFLibrary:
Project . . . . . KC02746
Group . . . . . ELSON
Type . . . . . JCL
Member . . . . . (Blank or pattern for member selection list)

Other Partitioned, Sequential or VSAM Data Set, or z/OS UNIX file:
Name . . . . .
Volume Serial . . . . . (If not cataloged)

Workstation File:
File Name . . . . .

Options
Initial Macro . . . . . Confirm Cancel/Move/Replace
Profile Name . . . . . Browse Mode
Format Name . . . . . View on Workstation
Data Set Password . . . . . Warn on First Data Change
Record Length . . . . . Mixed Mode
DB2@PRIM -DB2@PRI DB2@PRIM DB2@PRIM *VIEW WORK

MA 0.1 05/24/23.144 10:09AM zos.kctr.marist.edu A 4,18

```

```

Menu  RefList  RefMode  Utilities  Workstation  Help

View Entry Panel
Command ==> SCRNAME VIEWFIL_

ISPFLibrary:
Project KC02746

```

ISPF

```

Menu Utilities Compilers Options Status Help
-----
ISPF Primary Option Menu

Option ==> SWAPBAR_

More: +

0 Settings      Terminal and user parameters      < Calendar >
1 View          Display source data or listings          May 2023
2 Edit          Create or change source data          Su Mo Tu We Th Fr Sa
3 Utilities      Perform utility functions              1 2 3 4 5 6
4 Foreground    Interactive language processing        7 8 9 10 11 12 13
5 Batch          Submit job for language processing       14 15 16 17 18 19 20
6 Command        Enter TSO or Workstation commands       21 22 23 24 25 26 27
7 Dialog Test    Perform dialog testing                 28 29 30 31
8 LM Facility    Library administrator functions
9 IBM Products   IBM program development products      Time . . . . : 09:11
10 SCLM          SW Configuration Library Manager      Day of year. : 144
11 Workplace     ISPF Object/Action Workplace

----- Other Install Products -----

SD SDSF          System Display and Search Facility
IP IPCS          Inter Problem Control Facility

Enter X to Terminate using log/list defaults

M@ 0.2 05/24/23.144 10:11AM zos.kctr.marist.edu A 4,21

```

Comando SWAPBAR

LIGA/DESLIGA a barra de navegação das janelas

```

Menu Utilities Compilers Op
-----
ISPF

Option ==> SWAPBAR_

0 Settings      Terminal and us

```

```

SD SDSF          System Display and Search Facility
IP IPCS          Inter Problem Control Facility

DB2@PRIM *DB2@PRI DB2@PRIM DB2@PRIM -VIEWFIL WORK

M@ 0.2 05/24/23.144 10:12AM zos.kctr.marist.edu

```

ISPF

Outros comandos de interesse

```

File Edit Edit_Settings Menu Utilities Compilers Test Help
-----
EDIT IBMUSER.WORKBOOK.COBOL(TSOCOMAN) - 01.03 Columns 00001 00072
Command ==> Scroll ==> CSR
***** Top of Data *****
000001 *****
000002 *** TTTTTT SSSSSS 000000 ***
000003 *** TTTTTT SS 00 00 ***
000004 *** TT SS 00 00 ***
000005 *** TT SSSSSS 00 00 ***
000006 *** TT SS 00 00 ***
000007 *** TT SS 00 00 ***
000008 *** TT SSSSSS 000000 ***
000009 *****
000010 *** COMANDOS UTEIS PARA O DIA A DIA NA EDICAO DE PROGRAMAS ***
000011 *****
000012 *** CONFIGURACAO DE AMBIENTE DE EDICAO ***
000013 *****
000014 [AUTOSAVE] ON / OFF
000015 GRAVA AS EDICOES DE ARQUIVO NO TSO, QUANDO APERTAMOS O F3
000016
000017 [CAPS] ON / OFF
000018 NA EDICAO DE ARQUIVOS OS CARACTERES AUTOMATICAMENTE FICAM EM MAISCULAS
000019
000020 [HEX] ON / OFF
000021 CONVERTE O ARQUIVO EM EDICAO DO FORMATO EBCDIC PARA HEXADECIMAL
000022
000023 [HLITE] JCL / COBOL / SQL
000024 CORES DE COMANDO NA LINGUAGEM SELECIONADA, FACILITA A CODIFICACAO
000025
000026 [NUMBER] ON / OFF STD / COBOL
*DSLST

```

IBMUSER.WORKBOOK.COBOL(TSOCOMAN)

ISPF

Outros comandos de interesse

Command	====>	S
000026	[NUMBER] ON / OFF STD / COBOL	
000027	LIGA A NUMERACAO AUTOMATICA NA EDICAO DE ARQUIVOS	
000028		
000029	[AUTONUM]	
000030	RENUMERA AUTOMATICA O ARQUIVO DE EDICAO	
000031		
000032	[START]	
000033	CRIA UMA NOVA JANELA DE EDICAO NA IDE TSO	
000034		
000035	[SPLIT]	
000036	DIVIDE A JANELA EM DUAS VISoes DE ACORDO COM O CURSO	
000037		
000038	[UP]	
000039	SOBE UMA PAGINA / CSR DE TELA	
000040		
000041	[DOWN]	
000042	DESCE UMA PAGINA / CSR DE TELA	
000043		
000044	[SWAP] START	
000045	NAVEGA NA JANELAS ATIVA NA SESSAO	
000046		
000047	[SWAPLIST]	
000048	EXIBE UMA TELA COM TODAS AS JANELAS ATIVAS	
000049		
000050	[SWAPBAR]	
000051	EXIBE NA LINHA 24 ATALHO PARA AS JANELAS ATIVAS	
000052		

IBMUSER.WORKBOOK.COBOL(TSOCOMAN)

ISPF

Outros comandos de interesse

```

Command  ==> _____ Scroll ==> CSR
000052
000053 [SCRNAME] NOME
000054 RENOMEIA UMA JANELA, UTIL PARA A NAVEGACAO
000055
000056 [RESET] [RES]
000057 LIMPA A JANELA ATIVA, ELIMINANDO WARNINGS E SUJEIRAS
000058
000059 [SUB]
000060 SUBMETE UM JCL PARA A EXECUCAO
000061
000062 [SAVE]
000063 SALVE UM ARQUIVO EM EDICAO
000064
000065 [SRCHFOR] ATRIBUTO
000066 PESQUISA NA BIBLIOTECA UMA DETERMINADA VARIABEL
000067
000068 ***** FIM DO ARQUIVO *****
***** Bottom of Data *****

```

IBMUSER.WORKBOOK.COBOL(TSOCOMAN)

ISPF

Barra de Ferramentas ISPF

```

Menu Functions Confirm Utilities Help
-----
VIEW          IBMUSER.WORKBOOK.COBOL          Member TSOCOMAN saved
  
```

```

Menu Functions Confirm Util
-----
1. Settings
2. View
3. Edit
4. ISPF Command Shell
5. Dialog Test...
6. Other IBM Products...
7. SCLM
8. ISPF Workplace
9. Status Area...
10. Exit
  
```

```

Functions Confirm Utilities
-----
1. Save List
2. Change Colors
3. Initial Sort View...
***End***
  
```

ISPF

Barra de Ferramentas ISPF

```

Menu  Functions  Confirm  Utilities  Help
-----
VIEW  IBMUSER.WORKBOOK.COBOL  Member TSOCOMAN saved
  
```

```

Confirm  Utilities  Help
-----
2  *. Set Delete Confirmation On
   2. Set Delete Confirmation Off
  
```

```

Utilities  Help
-----
1. Library
2. Data set
3. Move/Copy
4. Data Set List
5. Reset Statistics
6. Hardcopy
7. Download...
8. Outlist
9. Commands...
*0. Reserved
11. Format
12. SuperC
13. SuperCE
14. Search-For
15. Search-ForE
16. Table Utility
17. Directory List
  
```


ISPF

Barra de Ferramentas ISPF

Menu	Functions	Confirm	Utilities	Help
VIEW	IBMUSER.WORKBOOK.COBOL			Member TSOCOMAN saved

```

Help
-----
1. Workplace General
2. Library/DSLIST General
3. Scrolling
4. Pattern matching
5. LOCATE command
6. SORT command
7. SAVE command
8. RESET command
9. SELECT command
10. MLC command
11. MLS command
12. S line command
13. Statistics
14. Appendices
15. Index
  
```

COBOL

DUVIDAS

Vamos conversar e tirar duvidas...

