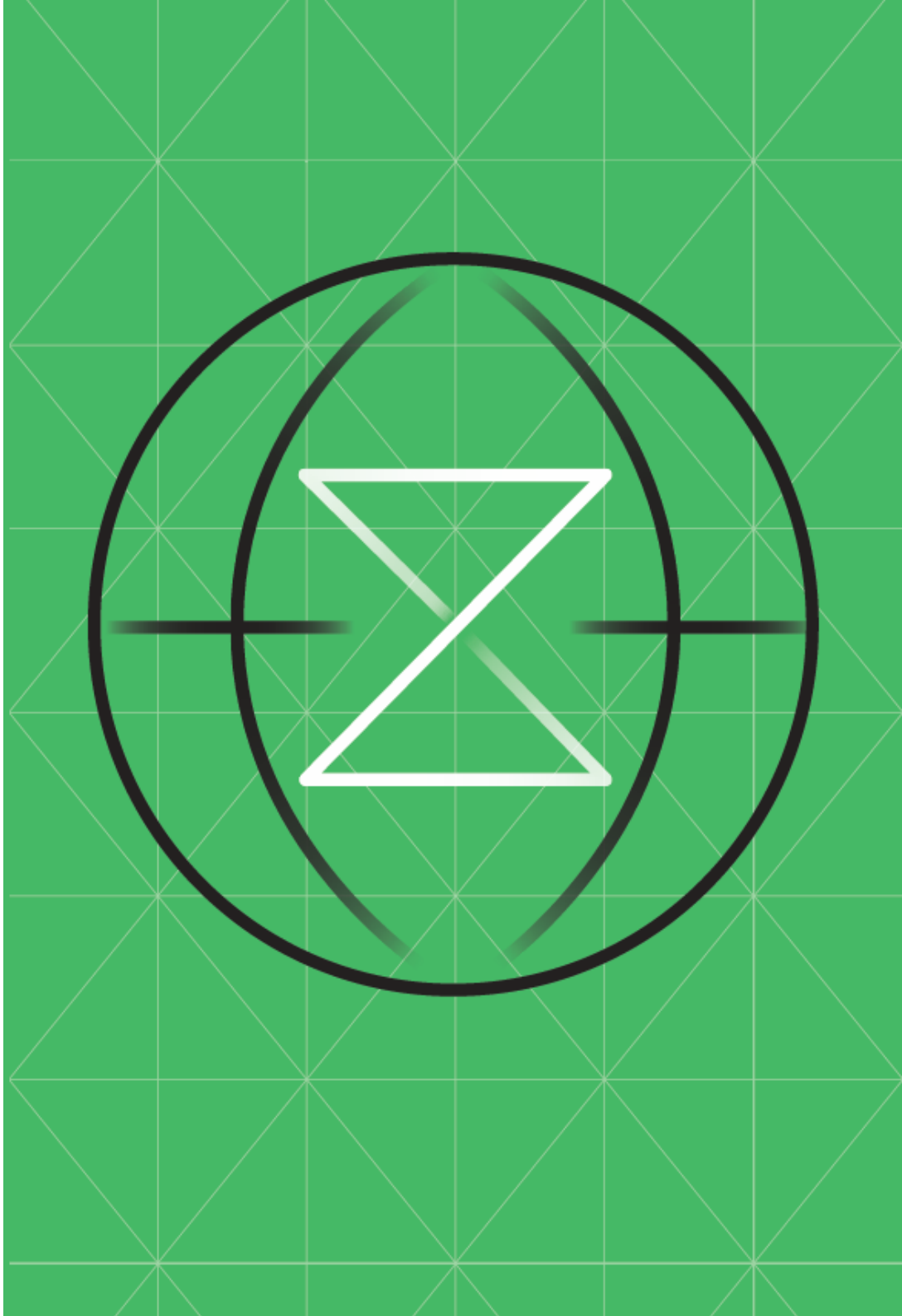
Extended

230301-1113

JCL3

Explore and edit JCL, check it in SDSF



UNDERSTAND, SUBMIT, FIX, PROGRESS

Let’s continue with what you can with 3270 terminal interfaces.

The Challenge

The key points for this challenge:

- Understand how to use JCL using TSO/IPSF.
- Submit jobs with errors and use SDSF to determine the errors.
- Edit/fix JCL to successfully submit a job.

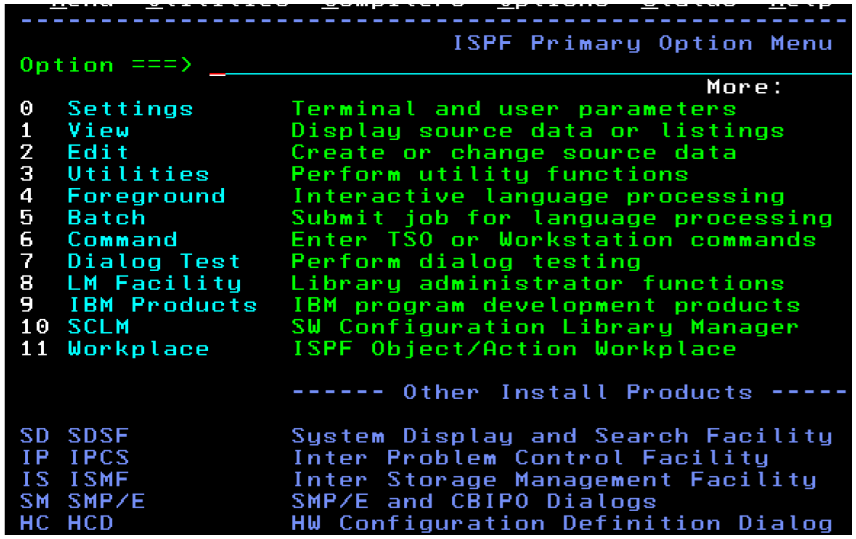
Before You Begin

Make sure you have completed TSO 4 (and the previous TSO challenges) before beginning TSO5.

Investment

Steps	Duration
9	90 minutes

1 UPDATE YOUR DATASETS



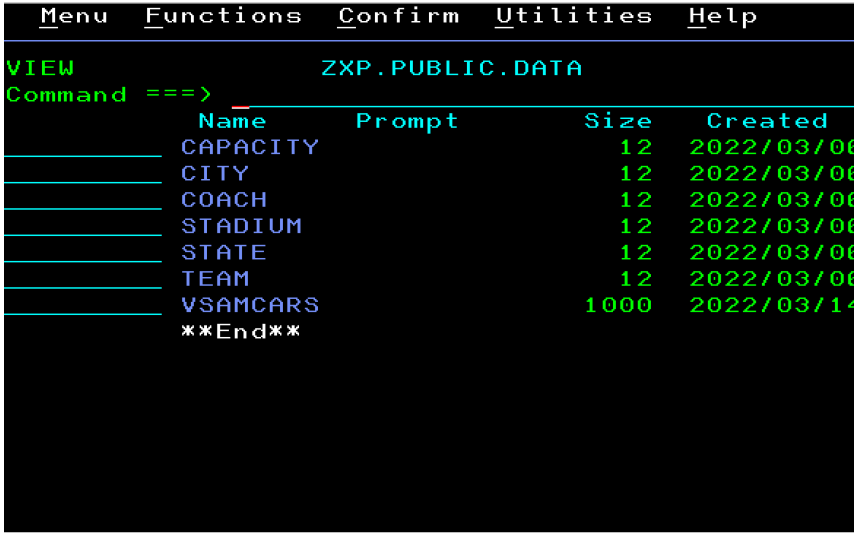
Log on to TSO and ISPF. On the Option line, enter `tso submit 'ZXP.PUBLIC.JCL(chalcopy)'`.

This will ensure that you have the correct datasets and members under your userid.

Check to make sure you now have the **WSLJCL** member in your **JCL** dataset.

Hint: You will have to go in and out of a few panels to get there.

2 GET FAMILIAR



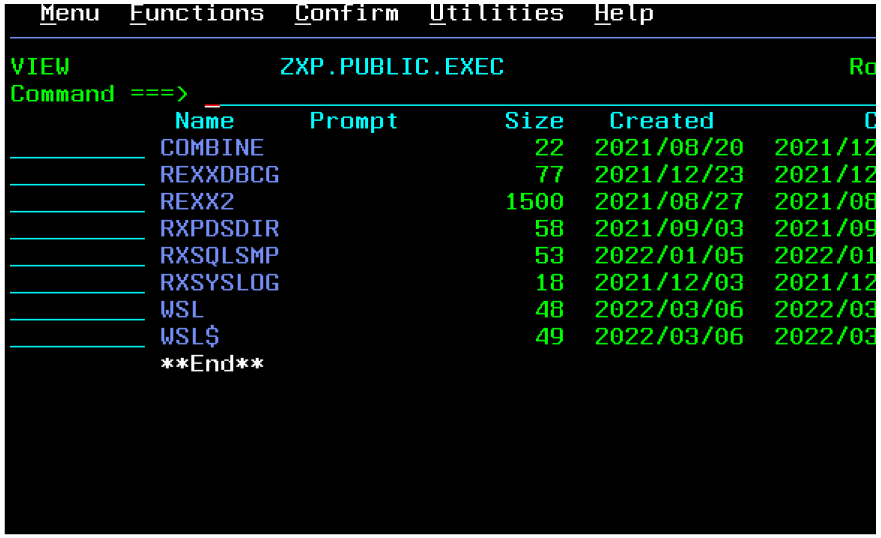
Now that you have the files you need, get yourself familiar with the data you will be working with.

The topic for the challenge: *The USA Women's Soccer League*

Get to the member list of **ZXP.PUBLIC.DATA**, and type **B** to browse next to each member.

Take a look at the six different files - you will be using the information inside of them.

3 WHAT'S THE DIFFERENCE?



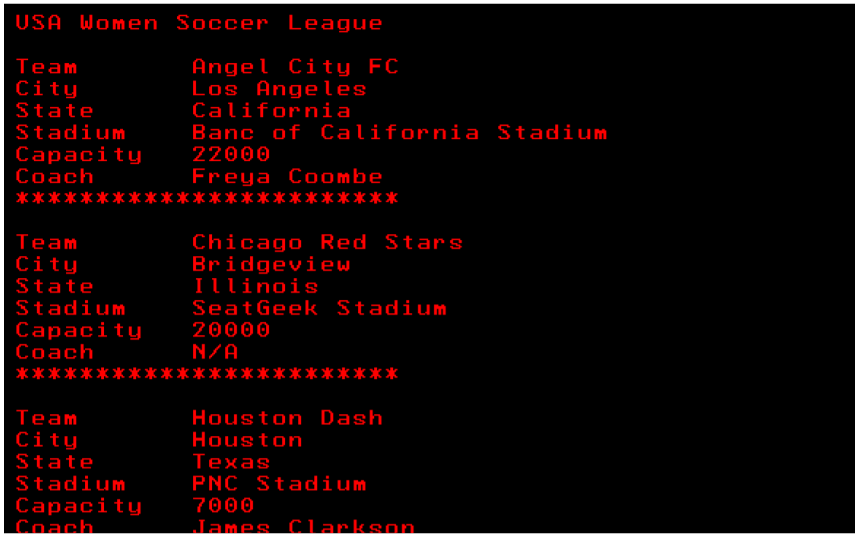
Time to produce some output with these files. You will be doing this using JCL and running a job.

Before you run the job, take a look at what the output will look like first using **WSL$** in **ZXP.PUBLIC.EXEC**

The WSL$ and WSL REXX execs are essentially the same. The difference being that WSL$ has already allocated the physical dataset name to the logic file name.

Your task: take the WSL REXX and run a job using JCL to produce the same output as WSL$.

4 SEE THE OUTPUT GOAL



Run WSL$ to understand what your job submission SHOULD look like.

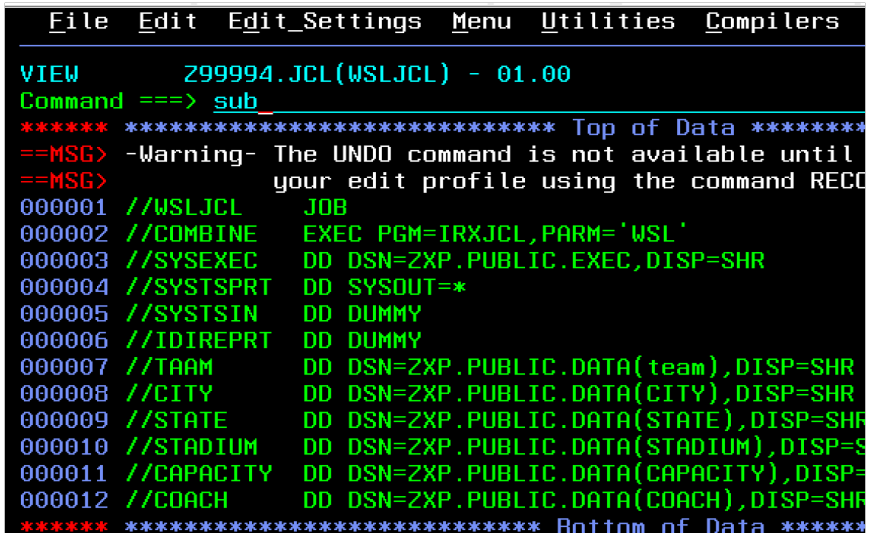
Type **ex** next to WSL$ execute the program and view output.

You will be using JCL to run your WSL exec.

The trick? The JCL is not be perfect yet, and you will need to determine why.

Submit the WSCJCL job, which uses WSL REXX logic, to see what errors are wrong.

5 SUBMIT THE JCL



Find the JCL that you need to submit.

Go to your JCL dataset, find **WSLJCL** and type **s** for Select.

Run the JCL by typing `submit` in the command line.

At bottom of the screen, you will see 'JOB WSLJCL SUBMITTED' with a job name associated.

6 VIEW YOUR JOB SUBMISSION

Check the submission. You have done this before in VSCode and in TSO4 you do it with SDSF.

Type `=sd;st` on the command line. This is a short cut to getting to SDSF and then checking the status of jobs.

Optionally, you can F3 back to the main menu and go to SDSF that way.

CAN I EDIT MY JCL WITHOUT ANY PENALTY OF MESSING IT UP?

If you are looking at a job submission in SDSF and want to quickly edit the job right there, you can do so by typing **SJ** next to the job in the DA, ST, and O views.

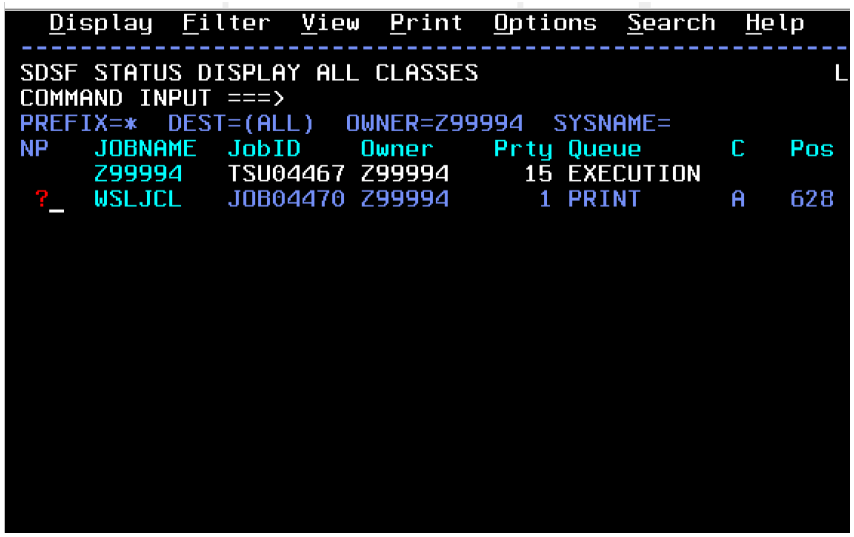
This allows you to edit the job in SDSF without any permanent changes in your JCL file.

That being said, this is only temporary so any changes you make in SDSF will not stick.

You will still have to go back into your JCL member and save the edits there.

Note that you can also make changes to the source JCL in the ISPF editor, submit the JCL and then **Cancel** to leave the source unchanged. You *cannot* do this with the Zowe extension in VSCode.

7 SO WHAT WENT WRONG?



Check the job name **WSLJCL** and see if it was successful.

View the different joblog files using **?** as a command (“action character”) next to the job.

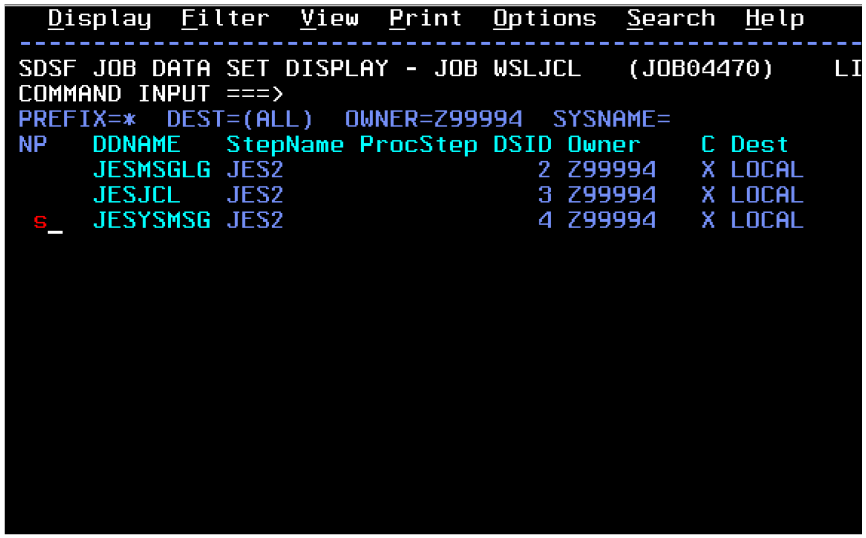
You can view the entire joblog as one big file by typing **s** as the action character.

Use F11 to shift to the right and view if the job you submitted for **WSLJCL** was successful or not.

What did you find?

Hint: in the list views (DA, ST, O) keep scrolling to the right (F11) until you find a column that says, ‘Max-RC’. You may scroll for a bit. Enter right 40 on the command line to scroll faster.

8 FIND, FIX, REPEAT



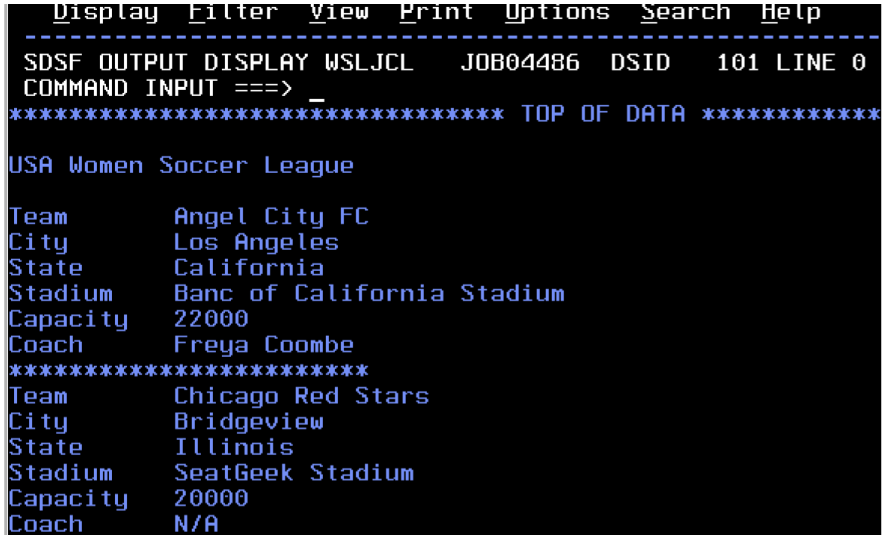
Scroll through the various files of the joblog to understand the error in the JCL and what went wrong.

Once you have identified the error, go back to the JCL file in your JCL dataset,
type **e** for edit the member, and make the necessary edits to fix the JCL.

Submit the job again and repeat the cycle until you have successfully completed the job.

Hint: there may be more than one error (what do you think?), so keep repeating until the job is successful.

9 ALL FIXED - SUBMIT



You will know when the job is successful when you see a **SYSTSPRT** member in the joblog, and the output is the same as running the WSL$ exec on its own.

Once again, you might have more than one error to fix, so it might take a few cycles to get the job to “run clean”.

Once the job is successful, get credit for this challenge: submit **‘ZXP.PUBLIC.JCL(CHKTSO5)’** using whichever method suits you.

Nice job - let's recap	Next up …
You have successfully navigated ISPF while editing a job and checking its submissions until it was correct. You have done this before in previous JCL challenges but this time you did it on TSO instead of VS Code. This is something you will be doing a lot in TSO, and it is important to know what to look for in submission errors and how to quickly get back to your JCL to fix the errors. Overall, you have continued to practice your TSO/ISPF navigation skills and will continue to become more familiar with its functionality.	Go check out the other Extended and Advanced modules for your continued learning journey on IBM Z Xplore.