

# Introduction to zOS Job Control Language (JCL) from a UNIX/Windows Perspective

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# Prerequisites to zOS Access

- Authenticated User ID
- Authorized to Access File Systems
- Emulation Software or Method to Submit Batch zOS
- Access to View Batch Job Results

## zOS File Types

- Partitioned Data Sets – Members of a Directory
- Flat Files (Tape or Disk) and Archivals
- Proprietary File Systems
- Generation Data Groups (GDGs)
- VSAM
- Relational

# Character Sets

- EBCDIC (Extended Binary Coded Decimal Interchange Code)
- ASCII (American Standard Code for Information Interchange)
- UNIX / Windows
- Conversion Issues
- Packed Decimal
- Variations of EBCDIC and ASCII

Dec	Hex	ASCII		EBCDIC	
0	00	NUL	Null	NUL	Null
10	0A	LF	Line Feed (FE)	SMM	Start of Manual Message
12	0C	FF	Form Feed (FE)	FF	Form Feed
13	0D	CR	Carriage Return (FE)	CR	Carriage Return
65	41	A	A		
66	42	B	B		
67	43	C	C		

# End of Line (EOL) And Carriage Return (CR)

- Differences in Line Feeds ASCII vs. EBCDIC
- Common Issues With Line Feeds
- Methods to Clean Up Accidental Line Feeds
- Hexadecimal Mode

```
-----  
1107W204. . 20  
FFFFFFFF01FF4444444444  
110762040C200000000000  
-----  
1107W204. . 20. . TOT ITEM  
FFFFFFFF01FFFFE4CECD4  
110762040C20FF363093540  
-----
```

# Creating Your Batch Job

- Job Control Language (JCL)
- Job Statement
- Other Control Statements / Comments

```
//$FTPTAXM JOB (5891,311,307119), 'ELLIOTJ 321',  
//          MSGCLASS=T, TIME=99, USER=ELLIOTJ, PASSWORD=SECRET  
//*MAIN    CLASS=T3, USER=ELLIOTJ, ORG=VMB  
//*FORMAT PR, DDNAME=, DEST=LOCAL  
//* FTP PRN FILE TO SERVER
```

# Creating Your Batch Job

- Joblibs and Steplibs
- Exec Statements
- DD Statements

```
//FTP EXEC PGM=FTP,PARM='ohftp01.nwie.net (EXIT',REGION=4096K
//SYSPRINT DD SYSOUT=*
//OUTPUT DD SYSOUT=*
/*
//INPUT DD *
nwie\elliottj
secret
CD /fabpo/elliottj
PUT 'T277.RF99TEST.GIS328' taxbasenew.txt
CLOSE * CLOSE THE FTP CONNECTION
QUIT * QUIT (END) THE FTP PROGRAM
/* DISP=(SHR,KEEP,KEEP)
```

# Alternative Coding Methods

- Instream vs. Dataset Parameters
- Control Flow Through Condition Codes
- zVM vs. TSO



# Reviewing Job Output

- Methods Vary by Shop
- Checking Condition Codes

```
//MDOG956S EXEC PGM=STOPEXEC, COND=(0, EQ, FTP) , REGION=10K  
//OUTPUT DD SYSOUT=*
```

- Other Useful Information in Listing

# Demostration

- Nationwide Batch Environment
- Job Submission
- Review of Output

# Summary

## Questions?