# Outlining Conditional Execution



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### Overview



- Testing Condition Codes in JCL
- Restarting Jobs

### Testing Condition Codes in JCL

### Conditional Job Step Execution

### **COND Parameter**

The COND parameter can be coded on the JOB or EXEC statement

### IF/THEN/ELSE

EXEC statements can be coded within IF/THEN/ELSE blocks

### COND Parameter Scope

### JOB COND=

If the conditions are met, all subsequent steps in the job are bypassed

### EXEC COND=

If the conditions are met, this step is bypassed

```
//jname JOB COND=(8,LE)
//STEP1 EXEC PGM=xxx...
//STEP2 EXEC PGM=xxx...
//STEP3 EXEC PGM=xxx...
```

■ When coded on the JOB statement, the scope
of the COND parameter is the entire job

```
//STEP3 EXEC COND=(8, LE, STEP1)
```

■ When coded on the EXEC statement, the scope of the COND parameter is the step

# COND Is Based on Negative Logic

//STEP2 EXEC PGM=ABC, COND=(8, LE, STEP1)

Number	Comparator	STEP1	Truth	Effect
		Cond Code	Value	
8	LE	0	False	Execute
8	LE	4	False	Execute
8	LE	8	True	Bypass
8	LE	12	True	Bypass

# IF/THEN/ELSE Constructs in JCL

```
//jname JOB ...
//STEP1 EXEC PGM=xxx...
// IF (STEP1.RC = 0) THEN
//ALLOK EXEC PGM=GOODSTF...
// ELSE
// IF (STEP1.RC < 5) THEN
//WARN EXEC PGM=WARNHAND...
// ELSE
// IF (STEP1.RC < 9) THEN
//ERR EXEC PGM=ERRHAND...
// ENDIF
// ENDIF
// ENDIF
// IF ABEND THEN
//CLEANUP EXEC PGM=ABHAND...
// ENDIF
```

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```

- **◄ JCL supports IF/THEN/ELSE/ENDIF structures**to control conditional step execution
- **◄ Statements can be nested up to 15 levels deep**

```
//jname JOB ...
//STEP1 EXEC PGM=xxx...
//ISOK IF (STEP1.RC = 0) THEN
//ALLOK EXEC PGM=GOODSTF...
// ELSE
//ISWARN IF (STEP1.RC < 5) THEN
//WARN EXEC PGM=WARNHAND...
// ELSE
//ISERR IF (STEP1.RC < 9) THEN
//ERR EXEC PGM=ERRHAND...
// ENDIF
// ENDIF
// ENDIF
//ISABEND IF ABEND THEN
//CLEANUP EXEC PGM=ABHAND...
// ENDIF
```

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- **◄ Statements can be nested up to 15 levels deep**
- **◄ Conditional statements can be named**

```
//jname JOB ...
// IF ¬ABEND
//STEP1 EXEC PGM=xxx...
// ENDIF
//ISOK IF (STEP1.RC = 0) THEN
//ALLOK EXEC PGM=GOODSTF...
// ELSE
//ISWARN IF (STEP1.RC < 5) THEN
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- **◄ JCL supports IF/THEN/ELSE/ENDIF structures**to control conditional step execution
- **◄ Statements can be nested up to 15 levels deep**
- **◄ Conditional statements can be named**
- **◄** Ignored on first job step

Restarting a Job

# Characteristics of z/OS Batch Processing

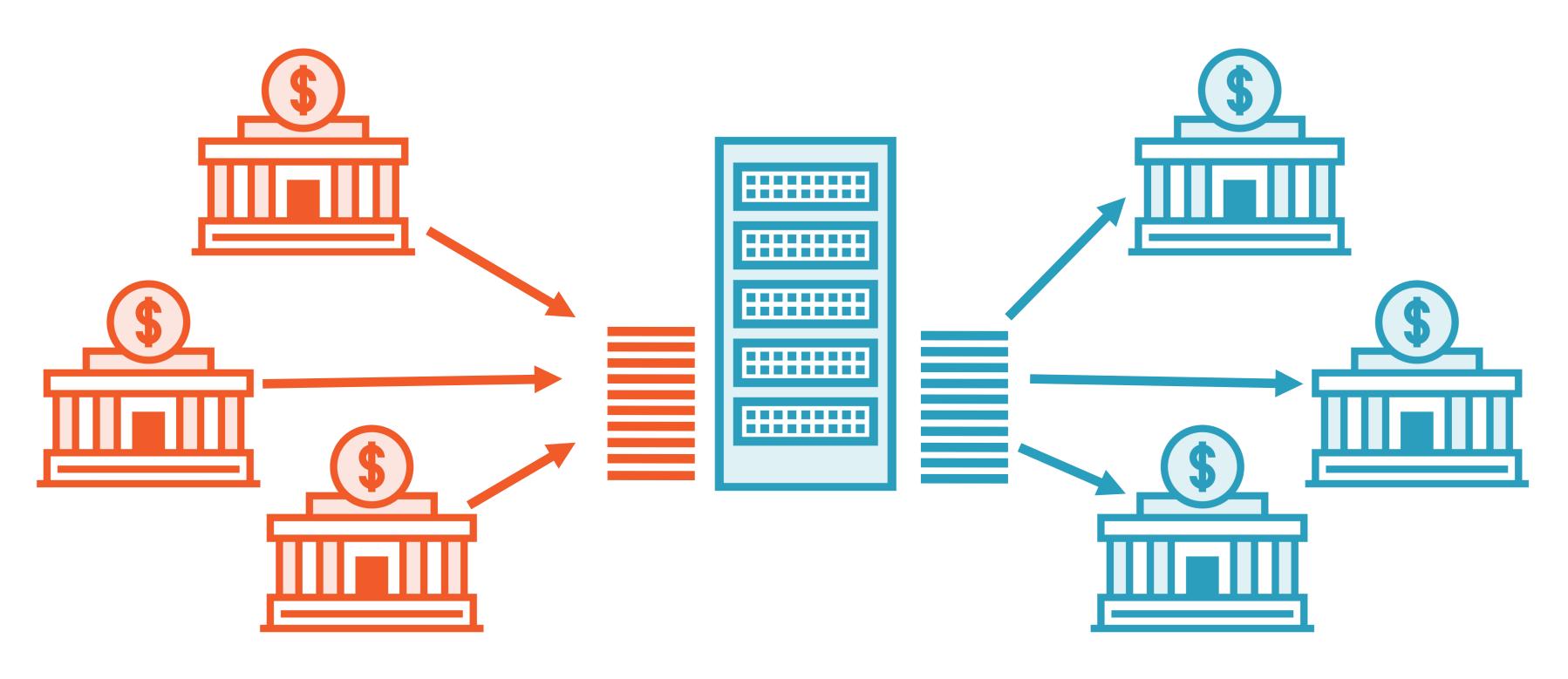
### Scale

Very large batches must be processed

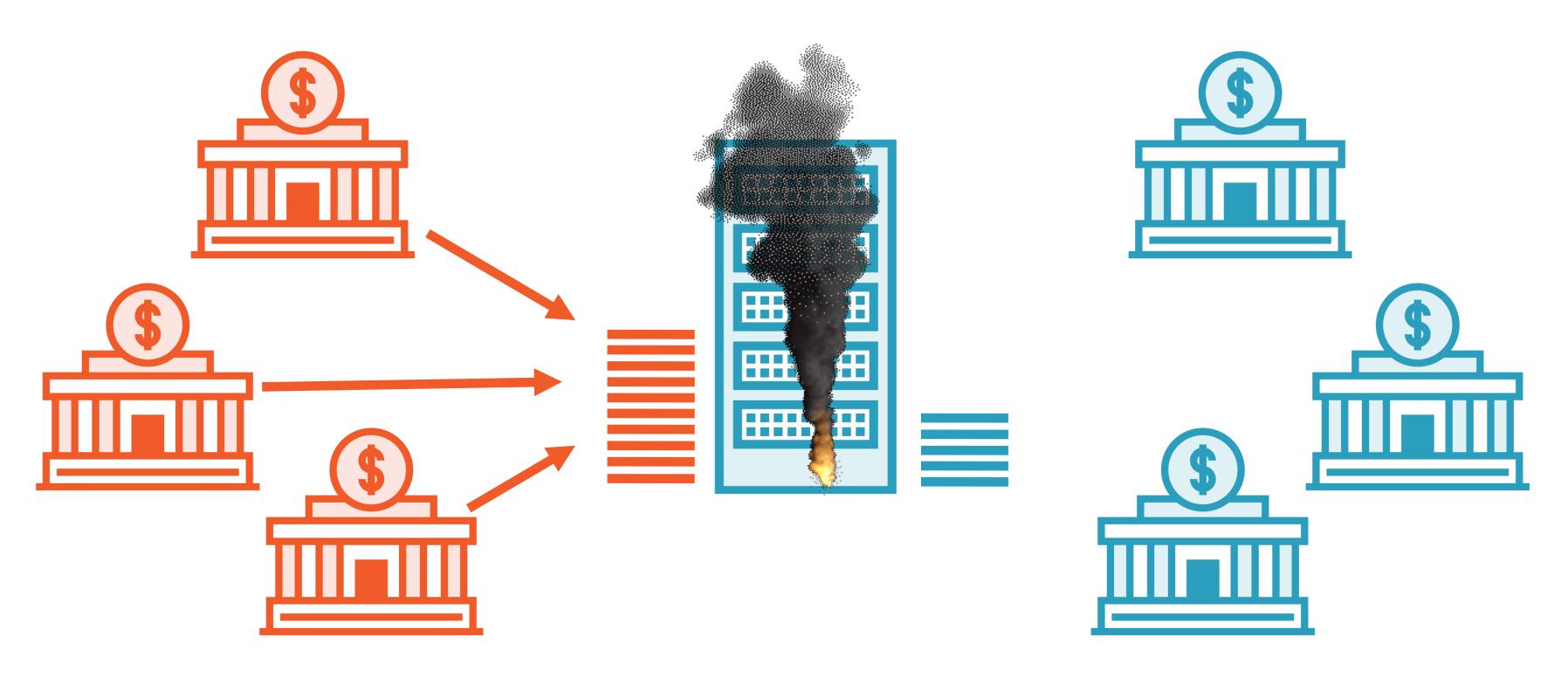
### **Timing**

Batch jobs must run within strict time constraints

### Automated Clearing House (ACH)



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#### Generation Data Groups

Generation Data Sets created in the original run may or may not be catalogued

# Module Summary

### Summary



- Specifying Conditional Step Executing Using the COND Parameter
- Specifying Conditional Step Execution Using IF/THEN/ELSE/ENDIF statements
- Overview of Job Restart
- Pointers to Documentation About Job Restart

### Up Next:

Executing Programs That Require Special Runtime Environments