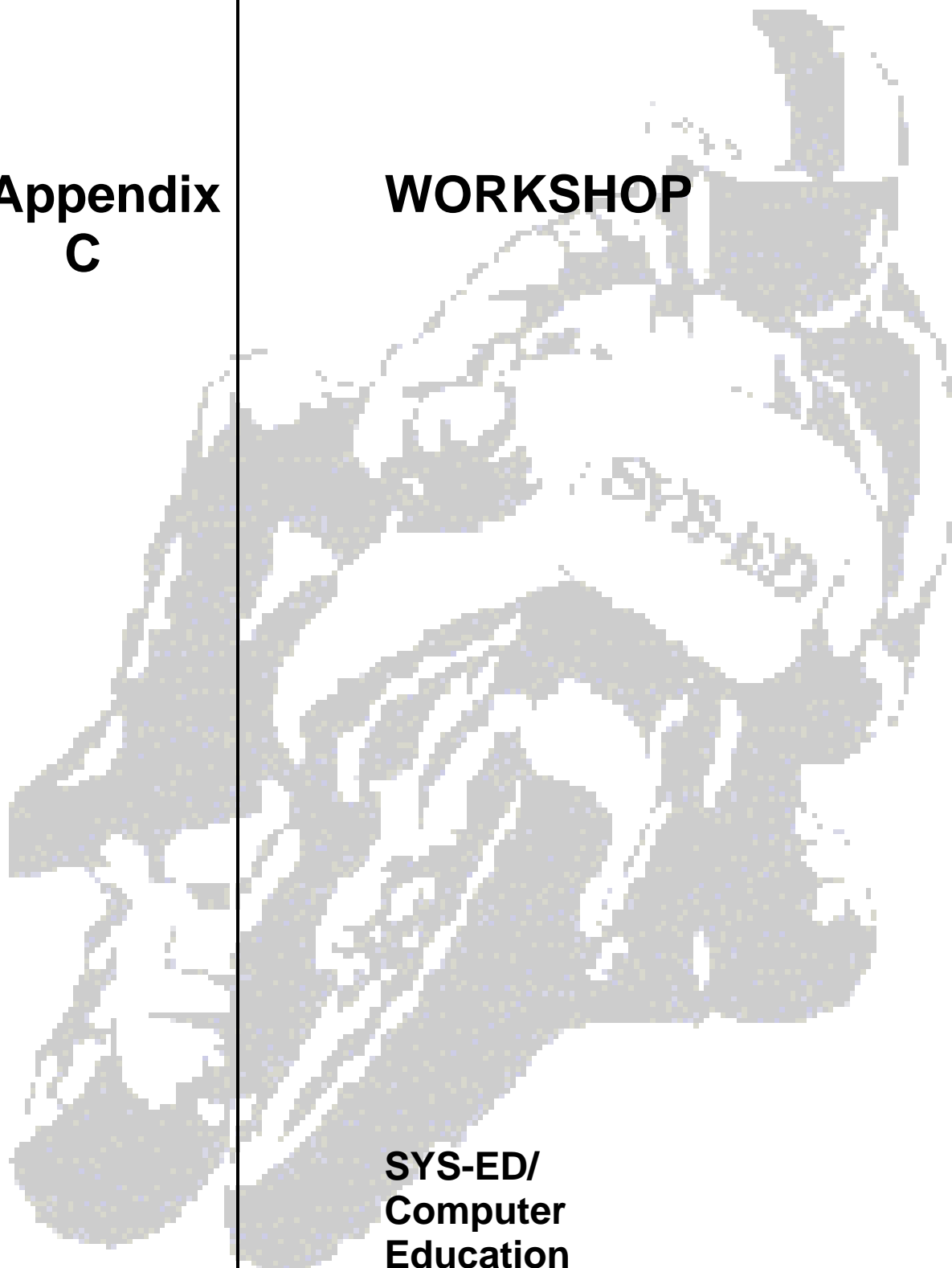


**Appendix
C**

WORKSHOP



**SYS-ED/
Computer
Education
Techniques, Inc.**

1 Utility Functions

Objectives:

- Execute a simple useful utility.
- Code and test the IEFBR14 utility.

Exercise:

Create a QSAM dataset using the IEFBR14 utility. The new QSAM dataset should have the following characteristics:

```
LRECL=100  
BLKSIZE=0  
RECFM=FB  
DSORG=PS  
Stored on a work pack
```

2 IEBGENER: Sequential Copy / Generate Data Set Program

Objectives:

- Code IEBGENER control cards.
- Review IEBGENER error messages and statistics.
- Copy a QSAM dataset.
- Copy members in a PDS library.

Exercise:

Code and execute the IEBGENER utility to:

- Copy a sequential dataset to the printer.
- Copy a member in a PDS to the printer.
- Copy a member in a PDS to a new sequential dataset.
- Copy 3 members from a PDS to another PDS.
- Copy all members from a PDS to another PDS.

3 IEBCOPY: Library Copy Program

Objectives:

- Code IEBCOPY control cards.
- Review IEBCOPY error messages and statistics.
- Backup a PDS.
- Copy all members except for specific members.
- Compress a PDS.

Exercise:

Code and execute the IEBCOPY utility to:

- Copy all members from the input PDS to the output PDS.
- Copy the first three members to an output PDS.
- Compress the input PDS.

4 VSAM and Access Method Services

Objectives:

- Allocate a KSDS and associated AIX.
- Review error messages, return codes and statistics.

Exercise:

- Allocate a KSDS VSAM dataset with the following characteristics:
 - Key in position 1-9
 - Primary space 5 tracks
 - Secondary space 10 tracks
 - Storage Class _____
 - Record Size: 100
- Allocate an AIX and Path for the above KSDS with the following characteristics:
 - Key (Non Unique) in position 50 for a length of 10.
 - Create a path between the AIX and the base cluster.
- Load the KSDS dataset with data. Data will be provided by the instructor.

5 IEBCOMPR: Compare Data Sets Program**Objectives:**

- Code the IEBCOMPR control cards.
- Compare two datasets.
- Understand the contents of the difference reports.
- Specify the compare technique.

Exercises:

- Use the two datasets provided by the instructor, code and run the IEBCOMPR utility to compare the two datasets.
- Review the output. Locate each of the differences.
- Change the control card to terminate processing after five differences are ascertained.

6 IEBTPCH: Print-punch Program

Objectives:

- Code the IEBTPCH control cards and associated JCL.
- Customize the output report.

Exercise:

- Use the utility IEBTPCH for printing the Employee Report.

The format of the output should be:

```
SSN      NAME                          SALARY
99999999 XXXXXXXXXXXXXXXXXXXXXXXX    -9,999.00
99999999 XXXXXXXXXXXXXXXXXXXXXXXX    -9,999.00
99999999 XXXXXXXXXXXXXXXXXXXXXXXX    -9,999.00
99999999 XXXXXXXXXXXXXXXXXXXXXXXX    -9,999.00
```

The input record layout is:

Field Name	Start	Length	
SSN	1	9	
Name	10	20	
Salary	31	9	NUMERIC

7 IEBDG: Test Generator Program

Objectives:

- Code and understand IEBDG utility control statements.
- Generate data with a specific pattern.
- Generate test data for a data set.

Exercise:

- Code and test the IEBDB to perform the following:

Given a dataset with a LRECL of 150 bytes, add a single character to the end of each record. An existing 150 byte record will be expanded by padding it with a blank to make a 151 byte record.

Generate test data with the following patterns:

Number 00001-00050 in position 1-2

Constant ABCDEF in position 20

Create 50 records using the above patterns.

8 IEHLIST: List System Data Program

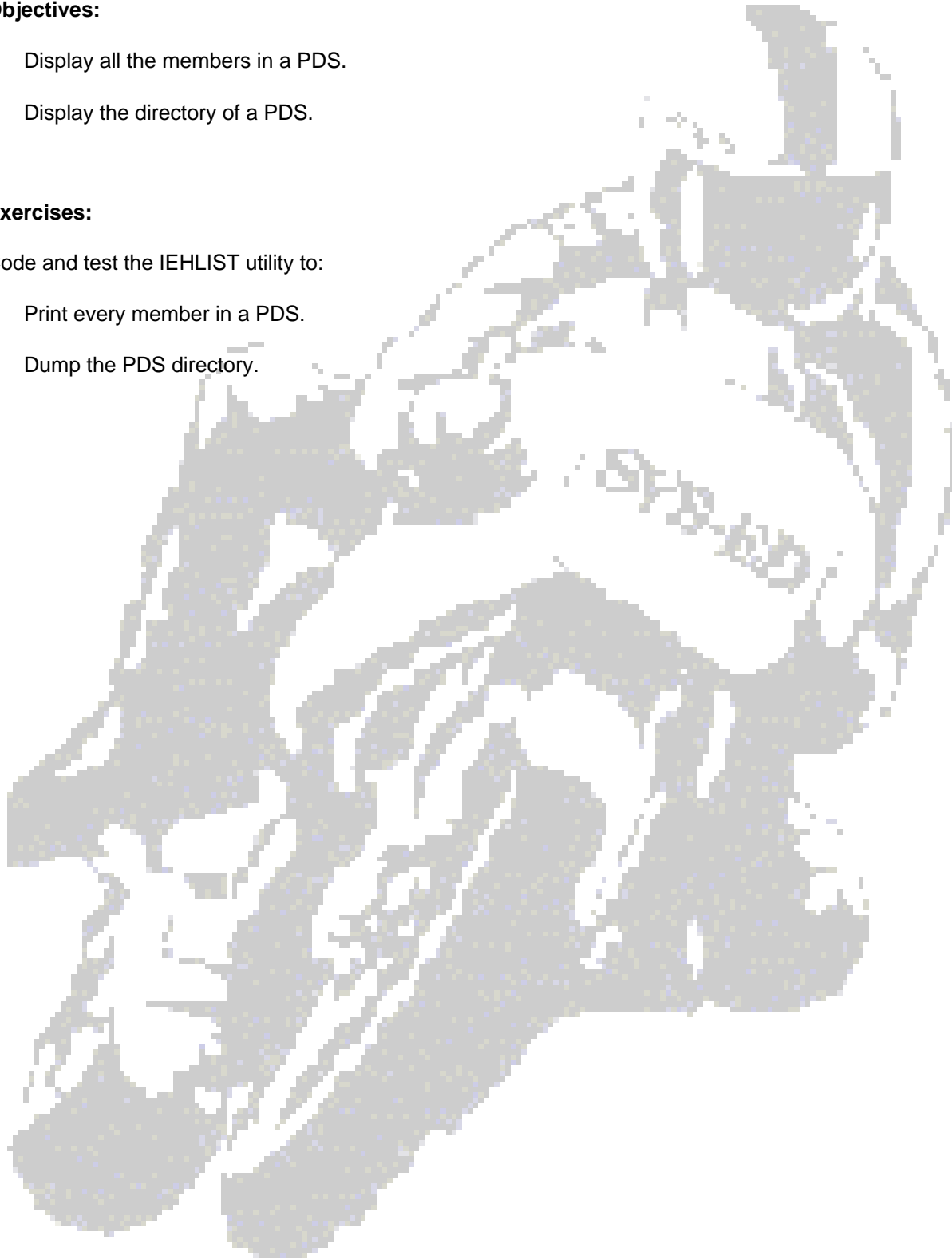
Objectives:

- Display all the members in a PDS.
- Display the directory of a PDS.

Exercises:

Code and test the IEHLIST utility to:

- Print every member in a PDS.
- Dump the PDS directory.



9 IEHPROGM: Program Maintenance Program**Objectives:**

- Delete a single member is a PDS.
- Create a GDG Group Index.
- Delete a QSAM dataset.

Exercises:

- Create a PDS and copy all the members from the skeleton PDS (provided by the instructor).
- Delete the PDS member BYEBYE.
- Create a GDG model with the name MODEL.
- Delete an existing QSAM data set.

10 SuperC Program**Objectives:**

- Compare multiple dataset.
- Review and understand the listing.

Exercises:

- Compare two datasets provided by the instructor, Execute the utility in both foreground and background.
- Print delta listings, long listings, summary listings, and side-by-side line listing of all the changes.
- Review the differences between the two datasets.