Resources

- **Lab TSO USERIDs**
  - SHARA01 thru SHARA20 w/ password (firstpw)
- **Lab Data Sets**
  - SHARAx.S12320.ACS
  - SHARAx.S12320.SMS.SCDS
- **Publications**
  - DFSMS Storage Administration Reference (section hand-out)
  - DFSMS Implementing System-Managed Storage
  - DFSMS Using the Interactive Storage Management Facility
Lab Basics

- **SHARAx.X.S12320.ACS**
  - Members for your lab use
    - DCLAB
    - SCLAB
    - MCLAB
    - SGLAB
  - Contains the ACS routines for a minimal configuration
    - SCMIN and SGMIN
  - Contains some example routines
    - DCEXAMPL, SCEXAMPL, MCEXAMPL and SGEXAMPL
  - Example solutions
    - DCANSWER, SCANSWER, MCANSWER and SGANSWER
  - ACS Routine stubs
    - STUB

- **SHARAx.X.S12320.SMS.SCDS**
  - SMS Configuration to code ACS against
Lab Configuration

- **SHARAxx.S12320.SMS.SCDS**
  - SCDS configuration to code ACS against

- **Available DATACLAS(s)**
  - Default, Extended, HFS, PDSE, VEAEXTND

- **Available STORCLAS(s)**
  - Default, Extended, GSPACE

- **Available MGMTCLAS(s)**
  - RLSEIMM

- **Available STORGRP(s)**
  - Default, Extended
Lab Pre-stuff

• Set yourself up as a Storage Administrator
  • ISMF
  • 0 - Profile Options
  • 0 - User Mode Selections
  • 2 – Storage Administrator
  • End/Exit 3 times

• NOTE: This is an exercise in syntax, not logic.
Lab 1

- Create the ‘stubs’ for each Class and Group
  - Put them in members DCLAB, SCLAB and MCLAB and SGLAB of data set SHARAxx.S12320.ACS
    - The ‘stubs’ can be found in SHARAxx.S12320.ACS(STUB)
  - Translate the ACS routines via ISMF 7 / 2 to your configuration (SCDS) data set (SHARAxx.S12320.SMS.SCDS)
Lab 2

- **Create Filter Lists**
  - Use the SC ACS routine created in Lab 1
  - Modify the routine such that it contains FILTLISTs
    - Create a filter of SYSTEM for HLQ of SYS1 and SYS2
    - Create a filter for SPF for 2nd level qualifier of SPF*
  - Translate the ACS routine
Lab 3

• **If/Then Logic**
  - Use the SC ACS routine created in the previous lab
  - Modify the routine such that it contains IF/THEN logic
    - Compare the HLQ to the SYSTEM filter and set no (null/’ ’) SC
    - Compare the second-level qualifier to the SPF filter and set a Storage Class of Default

  • Translate the ACS routine
Lab 4

• SELECT Logic
  • Use the SC ACS routine created in the previous lab
  • Modify the routine such that it contains a SELECT statement
    • SELECT on Read/Write variable &DATAACLAS
      • 2 methods to accomplish this
      • When incoming DC is VEAEXTND set the SC to EXTENDED

• Translate the ACS routine
Lab 5

- **WRITE Statement**
  - Use the SC ACS routine created in the previous lab
  - Modify the routine such that it contains a WRITE statement(s) to indicate which storage class is assigned
    - Syntax: WRITE ‘message’
    - Try to make sure every exit point has a write statement

- Translate the ACS routine
Lab 6

- Create another filter list for SPF in the SG Routine
  - Based on the second-level qualifier starting with SPF
    - Set a Storage Group of Default

- Translate the ACS routine
Lab 7

- **Create another filter list for SPF in the DC and MC Routines**
  - Based on the 2\textsuperscript{nd} level qualifier starting with SPF:
    - Set Data Class of Default
    - Management Class of RLSEIMM.

- **Translate the ACS routines**
Lab 8

• Use SELECT Logic
  • When the DSNTYPE is LIBRARY:
    • Set a Data Class of PDSE
    • Storage Class of Default, and
    • Storage Group of Default
  • When the DSNTYPE is PDS:
    • Set a Data Class of Default
    • Set a Storage Class of Default
    • Set a Storage Group of Default

• Translate the ACS routines
Lab 9

- Based on MAXSIZE of 100MB and DSORG of VS, set:
  - Data Class of ‘VEAEXTND’,
  - Storage Class of ‘Extended’
  - Storage Group of ‘Extended’

- HINT: The SC aspect of this assignment is already complete.

- Translate the ACS routines
Lab Assignment (cont)

• Validate the configuration with ISMF 7 / 3 to your configuration (SCDS) data set (SHARAxx.S12320.SMS.SCDS)
Summary

• Upon completion of this session, you should...
  • Have a better understanding of the ACS environment
  • Be able to write a basic ACS routine
  • Understand how to Translate and Validate an ACS routine
  • Understand how to determine what Translate and/or Validate errors occurred
  • Be familiar with much of the ACS syntax
Advanced Lab 10

- Create a new DCA, SCA, MCA, SGA members in SHARAx.S12320.ACS and implement the following rules:
  - PDS and LIBRARY data set are assigned
    - DC: PDSE, SC: Default, MC: none, SG: Default
  - Data sets over 100MB are assigned:
    - DC: Extended, SC: Extended, MGMTCLAS: RLSIMM, SG: Extended
  - Data sets with HLQ of SYSTEM are assigned ’ ’ for all routines
  - Data sets with second qualifier as “GS” are assigned to
    - SC: GSPACE

- Translate your routines!
For Additional Experimentation

• Create your own routines!
  • Available structures are on page 4 of the lab

• Create your own structures!
  • Just be sure to use SCDS of SHARAxS12320.SMS.SCDS

• Try using the ACS Routine Tester
  • ISMF Option 7.4
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