Course Outline

SMP/E Fundamentals

Course Summary

Description

This course provides the fundamentals of SMP/E processing for installation and maintenance of systems software and program products. Topics will include an examination of SMP/E commands, a detailed review of MCS statements and their purpose, and exercises to enable the student to gain a working familiarity with SMP/E processing.

Topics

- SMP/E Overview and Methodology
- The Utilities
- Installing SYSMODS
- Monitoring the System
- Managing the SMP/E Database
- Managing Zones
- MCS Statements
- Service Routines

Audience

This course is designed for systems programmers and support personnel that will have responsibility for maintaining the SMP/E environment.

Prerequisite

Students should be familiar with JCL, MVS utilities, and the use of TSO/ISPF.

Duration

Four or five days

Course Outline

SMP/E Fundamentals (5 Days)

Course Outline

I. SMP/E Overview and Methodology

A. Examine SMP/E data sets and their roles in maintaining system information
B. Introduction to SMP/E dialogues
C. Introduction to the SMP/E Zones; global, target, and distribution
D. Establishing the SMP/E environment and its definitions
E. Service Elements
F. What is a SYSMOD
G. Sample Function, PTF, APAR, USERMOD
H. SYSMOD Relationships
I. System Libraries
J. Consolidated Software Inventory (CSI)
K. Zone Relationships
L. Tracking and Control
M. ISPF Menu Example
N. Query MOD, LMOD
O. Examine Binder Statements
P. Module Prefix XREF
Q. Program Directory Information
R. Exception Data
S. Enhanced HOLDDATA
T. HOLDDATA Example
U. Enhanced HOLDDATA Flags
V. CSI Data Sets
W. Single/Multiple CSI Definitions
X. CSI Allocation
Y. Defining Zones - UCLIN
Z. GLOBAL Zone Definitions
AA. Global Zone Options
BB. GLOBAL Utility Definitions
CC. GLOBAL FMIDSET Definitions
DD. Defining Utilities and Options
EE. Specifying Data Sets
FF. Basic SMP Data Sets
GG. Additional SMP/E Data Sets
HH. SMPPTS Considerations
II. SMP/E Utility Data Sets
JJ. SMP/E UNIX Files
KK. SMP/E Work Data Sets - 1
LL. SMP/E - GIMGTPKG Service
MM. General Data Set Specification
NN. CICS FTP Download
OO. Sample DDDEF Definitions
PP. Sample GIMDDALC Member
QQ. Cross Zone Requisite Checking
RR. SMP/E Exit Routines
SS. Cloning Strategies
TT. SET Command
UU. UCLIN Processing
VV. RESETRC Command
WW. SMP/E Dialogs vs JCL
XX. Primary Menu Example
YY. Basic SMP/E JCL
ZZ. Dialog Functions

- Lab #2: Dialogs and JCL
  - UNLOAD Processing
- Lab #3: UNLOAD command

II. The Utilities

A. IDCAMS – VSAM Functions
B. IEBCOPY
C. BPXCOPY
D. SMA90 (Assembler)
E. HEWL (Linkage Editor)
F. IEBUPDTE
G. AMASPZAP

III. Installing SYSMODS

A. Research
B. Program Directory Review
C. Basic SMP/E Commands
D. RECEIVE Processing
E. Sample RECEIVE Commands
F. RECEIVE Reports
G. Enhanced RECEIVE

- Lab #4 – RECEIVE Processing

H. REJECT Processing
I. APPLY Processing
J. Sample APPLY Commands
K. APPLY Reports
L. APPLY GROUPEXTEND
M. Causer SYSMOD Summary Report

- Lab #5 – APPLY sysmod

N. RESTORE Processing
O. Sample RESTORE Commands
P. RESTORE Reports

- Lab #6 – RESTORE sysmods

Q. ACCEPT Processing
R. Sample ACCEPT Commands
S. ACCEPT Reports
T. ACCEPT GROUPEXTEND

- Lab #7 – ACCEPT sysmods

U. Exception Sysmods

Course Outline

SMP/E Fundamentals (5 Days)

Course Outline (cont.)

V. exception RECEIVE
W. Resolving ++HOLD - APPLY
X. BYPASS Considerations
Y. Resolving HOLDERRORs
Z. Removing HOLDDATA
AA. Managing HOLDDATA
- Lab #8 – Managing Sysmods

IV. Monitoring the System

A. LIST Commands
B. REPORT Commands
C. REPORT CROSSZONE Command
D. REPORT ERRORSYSMODS Command
E. REPORT ERRSYSMODS
F. REPORT SOURCEID Command
G. REPORT SOURCEID
H. REPORT SYSMOD Command
I. FIXCAT Holddata
J. Update HOLDDATA Options
K. Update FIXCAT Options
L. Update FIXCAT Options
M. REPORT MISSINGFIX Command
N. REPORT MISSINGFIX Command
- Optional Lab – Report Processing

V. Managing the SMP/E Database

A. JCLIN Processing
B. Conditional JCLIN Processing
C. JCLIN Example –
D. Conditional Processing
E. UPGRADE Processing
F. BUILDMCS Command
- Lab #9 – BUILDMCS

VI. Managing Zones

A. ZONE Commands
B. GZONEMERGE
- Lab #10 – GZONEMERGE
- Lab #11 – Import/Export

C. LOG Processing
D. CLEANUP Processing
E. DEBUG Processing
F. DEBUG MSGMODID
- Lab #12 – Debug

G. GENERATE Command

VII. MCS Statements

A. SYSMOD Structure
B. SYSMOD Management
C. MCS Elements
D. Element Examples
E. Utility Functions
F. Utility Function Examples
G. Documentation MCS
H. Documentation MCS Examples
- Lab #12 – MCS Statements Lab
- Lab #13 – MCS Processing
- Lab #14 – Assembly

VIII. Service Routines

A. GIMCPTS
B. SMPPTS Expanded Member
C. SMPPTS Compressed Member
- Lab #15 – GIMCPTS Service Routine Lab

D. GIMDTS
E. GIMUNZIP
F. GIMXSID
G. GIMXSID Report
H. GIMZIP
I. GIMXTRX
- Lab #16 – GIMXTRX Service Routine Lab

J. GIMGTPKG
K. GIMIAP (GENERATE)