

TK5

Usermod Directory

zo, mrt 24, 2024

Contents

Overview	5
New usermods	6
Updates	7
Superceded sysmods	8
Deleted sysmods	9
Note	10
#DYPDMY	11
#DYP001	12
#DYP002	13
#DYP003	18
#DYP004	19
#DYP005	21
AY12275	22
MS00100	23
M023000	24
M023100	33
M023200	34
M023201	35
M023202	36
M023203	37
M023204	38
M023300	39
M023301	40
M023302	41
M023400	42
M023401	43
M023402	44
M023403	45
M023404	46
M023405	47
M024001	48
M024101	49
M024205	50
M024206	51
M024207	52
M024303	53
M024304	54
M024305	55
M024406	56
M024407	57
M024408	58
RP00001	59
RP00002	61
RP00003	62
RRKF007	63
SLB0001	64
SLB0002	65
SLB0003	66
SYZJ201	67
SYZJ202	68
SYZM001	69
TC01101	70
TC01303	71
TC01402	72
TC01503	73
TC01601	74
TJES801	75

TMVS816	76
TMVS817	82
TNIP800	83
VS49603	85
WM00017	86
ZBP0001	87
ZBP0002	90
ZJW0001	91
ZJW0003	92
ZJW0004	93
ZJW0005	94
ZJW0006	95
ZJW0007	96
ZJW0008	97
ZJW0009	98
ZJW0010	99
ZJW0011	100
ZJW0012	101
ZP60002	102
ZP60003	103
ZP60004	104
ZP60005	105
ZP60006	106
ZP60007	107
ZP60008	108
ZP60009	109
ZP60011	113
ZP60012	114
ZP60013	115
ZP60014	116
ZP60015	119
ZP60016	120
ZP60017	121
ZP60018	122
ZP60019	123
ZP60020	124
ZP60021	125
ZP60022	126
ZP60023	127
ZP60024	129
ZP60025	130
ZP60026	131
ZP60027	133
ZP60028	134
ZP60029	135
ZP60030	137
ZP60031	138
ZP60032	139
ZP60033	140
ZP60034	141
ZP60035	142
ZP60036	143
ZP60037	144
ZP60038	145
ZP60039	146
ZP60040	149
ZP60041	150
ZP60042	155
ZP60043	156
ZUM0001	157
ZUM0002	158

ZUM0005	159
ZUM0007	160
ZUM0014	161
ZUM0015	162

Overview

Over the years many sysmods have been generated by the MVS 3.8 community to enhance the usability of MVS 3.8 and provide functionality available in later Operating Systems.

Hopefully the MVS 3.8 community will continue to develop usermods that will be included in later releases of TK5.

This Usermod Directory documents the usermods that have been installed in the TK5 system.

Rob Prins

New usermods.

These usermods are added in TK5: ZP60041, ZP60042, ZP60043, MS00100, RP00001, RP00002, RP00003, ZBP0001 and ZBP0002.

Updates

This release of TK5 includes a number of reworked usermods. These are ZJW0007, ZP60009, ZP60014, ZP60038, ZP60039, and ZP60040. The 3375/3380/3390 usermods starting with M023 and M024 are reworked and are placed into dataset USERMOD.M023000. See chapter M023000.

Superceded sysmods.

M096220, wait00A if master catalog resides on D/3375, D/3380 or D/3390.

TMVS805

ZUM0003

Deleted sysmods

M026200
M026302
M026304
M026305
M026404
M026405
M026408

Note

The usermod set in USERMOD.M023000 is the reworked set of the usermods of Jim Morrison.
These usermods support the module devices 3375, 3380 and 3390.
This set contains of 27 usermods and are ACCEPTED.

#DYPPDMY

```
++ USERMOD (#DYPPDMY) .
++ VER    (Z038)  FMID (EBB1102)          /* MVS 3.8 BASE */
          PRE (UZ59124
          )
          /*
          PRIVATE PROCLIB MODIFICATIONS
          VERSION 4, RELEASE 1, MODIFICATION 0
          THIS LOCAL MODIFICATION, ALONG WITH ITS
          COMPANION CO-REQUISITES, TOTALLY INTEGRATES THE
          NECESSARY SYSTEM MODIFICATIONS FOR DYNAMIC PROCLIB
          SUPPORT.
          #DYP001  SGIEF441  SYSGEN MACRO UPDATE AND JCLIN
          #DYP002  IEFVPP    NEW CONVERTER MODULE
          #DYP003  IEFVHF    ZAP FOR LINKAGE TO IEFVPP3
          #DYP004  IEFVFA    ZAP FOR LINKAGE TO IEFVPP4 & IEFVPP5
          #DYP005  IEFVHE    ZAP FOR INTERPRETER JOBPROC BYPASS
          #DYPPDMY IEFVH1    DUMMY ZAP TO FORCE RELINK OF IEFVH1
                               */
++ ZAP    (IEFVH1)  DISTLIB (AOSB3) .
```

#DYP001

```
++ USERMOD (#DYP001) .
++ VER    (Z038)  FMID (FBB1221)
              PRE (UZ45794)
/*

PRIVATE PROCLIB MODIFICATIONS
FOR HERCULES TURNKEY#3 SYSTEM
VERSION 4, RELEASE 1, MODIFICATION 0

THIS LOCAL MODIFICATION, ALONG WITH ITS
COMPANION CO-REQUISITES, TOTALLY INTEGRATES THE
NECESSARY SYSTEM MODIFICATIONS FOR DYNAMIC PROCLIB
SUPPORT.

#DYP001  SGIEF441  SYSGEN MACRO UPDATE AND JCLIN
#DYP002  IEFVPP   NEW CONVERTER MODULE
#DYP003  IEFVHF   ZAP FOR LINKAGE TO IEFVPP3
#DYP004  IEFVFA   ZAP FOR LINKAGE TO IEFVPP4 & IEFVPP5
#DYP005  IEFVHE   ZAP FOR INTERPRETER JOBPROC BYPASS

***** WARNING ***** WARNING ***** WARNING *****

DO NOT ATTEMPT TO RESEQUENCE THIS MODIFICATION,
AS IT CONTAINS A MACRO UPDATE TO A SYSGEN MACRO.

***** WARNING ***** WARNING ***** WARNING *****

THIS MOD SUPPLIES THE SYSGEN MACRO UPDATE FOR
SGIEF441.  THIS MACRO IS UPDATED TO SUPPORT
DYNAMIC PROCLIB.

DOCUMENTATION ON THE DYNAMIC PROCLIB MODS
ARE CONTAINED IN THE MOD CONTAINING THE
OBJECT DECK FOR IEFVPP, A NEW MODULE.

BEWARE THAT THE "CHANGE" STATEMENT FOR IEFVH1
MAY NOT BE EFFECTIVE WITHOUT A UCLIN TO
DELETE THE CURRENT DEFINITIONS OF MODULE
IEFVH1 AND LOAD MODULE IEFVH1.

                                                                    */

++ JCLIN .
/*
++ MACUPD (SGIEF441)  DISTLIB (AGENLIB) .
```

#DYP002

```
++ USERMOD (#DYP002) .
++ VER (Z038) FMID (EBB1102) /* MVS 3.9 BASE */
    PRE (
        #DYP001 /* SYSGEN MACRO UPDATE */
    )
/*
```

PRIVATE PROCLIB MODIFICATIONS
VERSION 4, RELEASE 1, MODIFICATION 0

THIS LOCAL MODIFICATION, ALONG WITH ITS
COMPANION CO-REQUISITES, TOTALLY INTEGRATES THE
NECESSARY SYSTEM MODIFICATIONS FOR DYNAMIC PROCLIB
SUPPORT.

```
#DYP001 SGIEF441 SYSGEN MACRO UPDATE AND JCLIN
#DYP002 IEFVPP NEW CONVERTER MODULE
#DYP003 IEFVHF ZAP FOR LINKAGE TO IEFVPP3
#DYP004 IEFVFA ZAP FOR LINKAGE TO IEFVPP4 & IEFVPP5
#DYP005 IEFVHE ZAP FOR INTERPRETER JOBPROC BYPASS
```

***** WARNING ***** WARNING ***** WARNING *****

THIS OBJECT DECK WAS ASSEMBLED USING THE RESERVED WORD
"RFULLE" IN THE CONVERTER WORK AREA USED AS THE ANCHOR
FOR THE PRIVATE PROCLIB WORK AREA.

***** WARNING ***** WARNING ***** WARNING *****

PREFACE

THESE MODIFICATIONS ARE CONSTRUCTED IN FIVE SEPARATE
PIECES BECASUE OF FUNCTIONAL OWNERSHIP AND
MAINTENANCE PACKAGING. IN ADDITION, THERE IS AN
OPTIONAL MODIFICATION TO JES2 SUPPLIED IN THE
TEXT OF THESE COMMENTS.

THE ORIGINAL SOURCE OF THIS MOD IS MUTUAL LIFE OF
WATERLOO, ONTARIO, CANADA. AMDAHL HAS PROVIDED
SUBSTANTIAL CHANGES IN THE METHODS OF INSTALLATION
AND INTERFACES, AS WELL AS FUNCTIONAL ENHANCEMENTS.
THE BASIC LOGIC, HOWEVER, IS UNCHANGED.

THE IEFVPP MODULE HAS BEEN REWRITTEN TO BE COM-
PATIBLE WITH ALL VERSIONS OF THE MVS CONVERTER
THROUGH MVS/SP 2.1.1. HOWEVER, IT SHOULD BE
REASSEMBLED WHENEVER A CHANGE IS MADE TO THE
CONVERTER WORK AREA MACROS (IEFCOMWA AND IEFCVRWA).

JCLIN

A JCLIN IS NECESSARY TO INCLUDE THIS
SUPPORT INTO AN EXISTING SYSTEM.
HOWEVER, IN DOING SO, THE CHANGE OF THE EXTERNAL
REFERENCE TO IEFVHA IN IEFVH1 WILL NOT HAVE TAKEN
PLACE AND THE INCORPORATION OF PRIVATE PROCLIB SUPPORT
WILL BE INCOMPLETE. SPECIFICALLY, THE CONVERTER WILL
FAIL IN THE MOST HORRIBLE WAY IF THE SUPERZAPS TO

THE VARIOUS CONVERTER MODULES HAVE BEEN PUT ON.
THE JCLIN IS INCLUDED IN THE MODIFICATION THAT
UPDATES THE SYSGEN MACRO, SGIEF441. A TECHNIQUE
TO EFFECT THE CHANGE IS DESCRIBED LATER.

THE JCLIN IS AS FOLLOWS:

JCLIN .

```
//SG13 EXEC LINKS,  
//  PARM='NCAL,LIST,XREF,LET,RENT',NAME=LPALIB  
//SYSLIN DD *  
    INCLUDE AOSB3(IEFVHA)  
    INCLUDE AOSB3(IEFVHC,IEFVHCB)  
    INCLUDE AOSB3(IEFVINE,IEFVHM,IEFVHL)  
    INCLUDE AOSB3(IEFVINA)  
    INCLUDE AOSB3(IEFVIND)  
    INCLUDE AOSB3(IEFVINB)  
    INCLUDE AOSB3(IEFVINC)  
    INCLUDE AOSB3(IEFVHEB)  
    INCLUDE AOSB3(IEFNB9CR)  
    INCLUDE AOSB3(IEFNB9CT)  
    INCLUDE AOSB3(IEFVFA,IEFVFB)  
    INCLUDE AOSB3(IEFVGM)  
    INCLUDE AOSB3(IEFVHQ)  
    INCLUDE AOSB3(IEFVHR)  
    INCLUDE AOSB3(IEFVHF)  
====>  CHANGE IEFVHA(IEFVPP0)  
    INCLUDE AOSB3(IEFVH1)  
    INCLUDE AOSB3(IEZNCODE)  
    INCLUDE AOSB3(IEZDCODE)  
    INCLUDE AOSB3(IEFVGM90)  
====>  INCLUDE AOSB3(IEFVPP0)  
    ENTRY IEFVH1  
    NAME IEFVH1(R)  
/*
```

THIS JCLIN WAS TAKEN FROM THE SYSGEN STAGE 2. THE
TWO STATEMENTS MARKED BY "====>" ARE THE ADDED
STATEMENTS. CURRENT STAGE 1 OUTPUT SHOULD BE CHECKED
BEFORE THE JCLIN AND ANY NECESSARY CHANGED BY MADE.

A UCLIN TO DELETE THE LMOD ENTRY MAY
BE NECESSARY, AS SMP MAY IGNORE THE "CHANGE"
STATEMENT FOR IEFVH1 IF IEFVH1 IS ALREADY
DEFINED TO IT (NOT SO HOT, EH?).
THE UCLIN MAY NOT BE NECESSARY IN MVS 3.8
WITH SMP 4.

UCLIN .
DEL LMOD (IEFVH1) .
ENDUCL .

NEITHER THE JCLIN OR UCLIN IS NECESSARY WHEN
INSTALLING THESE MODS PRE-GEN.

SYSGEN MACRO

THE SYSGEN MACRO, SGIEF441, IS MODIFIED TO CONTAIN
THE NECESSARY LINK EDIT CONTROL STATEMENTS TO FULLY
INCORPORATE THE MODIFICATION AND TO INSURE THAT A
RE-SYSGEN DOES NOT "DOWN LEVEL" THE MODIFICATION.

THE MACRO MODIFICATIONS CONSIST OF CHANGING THE EXTERNAL REFERENCE TO IEFVHA IN IEFVH1 TO REFER TO IEFVPP0, WHICH IS THE PRIVATE PROCLIB INITIALIZATION ENTRY POINT, AND INCLUDING MODULE IEFVPP, WHICH IS A NEW MODULE THAT CONTAINS ALL PRIVATE PROCLIB SUPPORT, EXCEPT THE SUPERZAPS THAT CAUSE THE VARIOUS PRIVATE PROCLIB ENTRY POINTS TO BE ENTERED.

SUPERZAPS

SUPERZAPS ARE MADE TO THE CONVERTER/INTERPRETER TO PERFORM THE LINKAGE TO THE PRIVATE PROCLIB SUPPORT AND PROVIDE THE IEFUJV INTERNAL TEXT EXIT FOR A JOB STREAM MANAGER. SEE THE CO-REQUISITE MODIFICATIONS FOR A DESCRIPTION OF THE LOGIC ASSOCIATED WITH EACH OF THE MODIFICATIONS. THE MODULES ZAPPED ARE IEFVHF, IEFVFA, AND IEFVHE.

NEW MODULE

IEFVPP IS THE NEW MODULE ADDED FOR THIS SUPPORT. IT IS COMPATIBLE WITH ALL CURRENTLY AVAILABLE VERSIONS OF THE CONVERTER/INTERPRETER. HOWEVER, IT IS DEPENDENT ON THE EXISTENCE OR NON-EXISTENCE OF MVS/SE RELEASE 2. THE SOURCE MODULE MUST BE ASSEMBLED WITH THE PROPER LEVEL OF "SYS1.AMODGEN" IN ORDER FOR IT TO FUNCTION PROPERLY. CONDITIONAL ASSEMBLY IS USED TO IMPLEMENT THE NECESSARY LOGIC CHANGES AND CONTROL BLOCK DEPENDENCIES. CONSULT THE ASSEMBLY LISTING OF IEFVPP FOR SPECIFIC INFORMATION ON ITS FUNCTIONS AND LOGIC.

THE SU MACRO FOR MVS/SE RELEASE 2 (IHASU74) IS USED TO EFFECT THE CONDITIONAL ASSEMBLY. IT IS ASSUMED THAT ALL RELEASES OF MVS/SP WILL PROVIDE THIS MACRO WITH THE SU BIT TURNED ON. IF NOT, THEN THE SOURCE OF IEFVPP WILL HAVE TO BE UPDATED ACCORDINGLY.

IT IS RECOMMENDED THAT THE IEFVPP SOURCE MODULE BE ASSEMBLED BY THE INSTALLATION AND THAT THE OBJECT DECK PROVIDED IN THE MODIFICATION BE REPLACED WITH THE ONE CREATED BY THE ASSEMBLY.

JOB ENTRY SUBSYSTEM SUPPORT

JES2 IS FULLY SUPPORTED AS THE DYNAMIC PROCLIB CODE IS NOT SENSITIVE TO THE LEVEL OF JES THAT IS RUNNING. HOWEVER, IT MAY HAVE SOME PROBLEMS IN A JES3 ENVIRONMENT, WHERE PERFORMING THE DYNAMIC ALLOCATION OF PROCLIBS IS NOT SUBJECT TO JES3 SETUP CONTROL. NO ATTEMPT HAS BEEN MADE BY THE AUTHORS TO RUN IT IN A JES3 ENVIRONMENT.

THIS CODE FULLY SUPPORTS THE USE OF DYNAMIC PROCLIB(S) BY STARTED TASKS AND TSO USERS.

THE ABILITY TO REQUEUE A JOB FOR RECONVERSION WHEN A PROCLIB VOLUME IS NOT AVAILABLE HAS BEEN REMOVED FROM THIS VERSION OF IEFVPP. IT WAS THOUGHT TO BE OF MINIMAL VALUE AND FREQUENTLY LEFT JOBS AWAITING

CONVERSION FOR LONGS PERIODS OF TIME.

MSS SUPPORT

A BY-PRODUCT OF THE MSS IS THAT AN MSS VOLUME CONTAINING A PROCLIB MAY NOT BE MOUNTED. SINCE IEFVPP PERFORMS ALL LOCATES AND ALLOCATIONS REQUESTING NO MOUNTING, SUCH A PROCLIB WILL NOT BE FOUND, AND THE JOB WILL FAILED WITH A JCL ERROR. HOWEVER, EVEN IF THE MSS VOLUME CONTAINING THE PROCLIB IS MOUNTED, IEFVPP WILL BE STILL INDICATE A JCL ERROR, AS THERE COULD BE SUBSTANTIAL DELAYS IN THE CONVERTER IF IT HAS TO WAIT FOR STAGING OR CYLINDER FAULTS. SINCE THE CONVERTER IS A SERIAL PROCESS, THIS CAN CAUSE SERIOUS DELAYS IN JOB PROCESSING, MOST NOTICABLE IN TSO LOGONS (BEING STACKED BEHIND A JOB STUCK CYLINDER FAULTING IN THE CONVERTER).

INSTALLATION

AN APPROACH TO PUTTING THE PRIVATE PROCLIB SUPPORT ON IS:

1. APPLY THE SYSGEN MACRO UPDATE AND THE NEW MODULE MODIFICATION. AT THIS POINT, THE JCLIN WILL HAVE BEEN DONE AND THE NEW MODULE (IEFVPP) WILL HAVE BEEN LINKED INTO THE CONVERTER, BUT DYNAMIC PROCLIB WILL NOT BE FUNCTIONING (THE CONVERTER WILL STILL FUNCTION, HOWEVER).
2. CREATE A "DUMMY" SUPERZAP FOR MODULE IEFVH1. APPLY THIS ZAP TO IEFVH1. THIS WILL STILL NOT CAUSE DYNMAIC PROCLIB TO WORK, AS THE EXTERNAL REFERENCE TO IEFVH1 POINTING TO IEFVHA WILL NOT HAVE BEEN CHANGED.
3. RESTORE THE ZAP TO IEFVH1. THIS WILL CAUSE A RE-LINK OF IEFVH1 AND SMP WILL INSERT THE CHANGE STATEMENT, CAUSING IEFVH1 TO NOW POINT TO IEFVPP0 IN IEFVPP.
4. APPLY THE ZAPS TO IEFVHF, IEFVHE, AND IEFVFA.
5. PLACE IEFVH1 AND IEFNB903 ON THE MLPA FOR TESTING. CLPA WHEN READY. IEFVH1 COULD BE PLACED IN THE STEPLIB USED TO RUN JES2, IF ANY.

SHOULD IT BE NECESSARY TO RESTORE THE CONVERTER TO ITS ORIGINAL STATE, THE FOLLOWING COULD BE USED:

1. PERFORM AN SMP RESTORE OF ALL FIVE MODIFICATIONS. THIS ASSUMES THAT THE SAVED CDS WILL BE USED TO RESTORE THE ORIGINAL JCLIN FOR IEFVH1. THE SAME TRICK USED TO FORCE AN INCLUDE OF IEFVH1 FROM THE DLIB (THIS TIME WITHOUT THE CHANGE STATEMENT WILL HAVE TO BE DONE). THE IEFVPP CSECT WILL REMAIN BEHIND IN THE IEFVH1 LOAD MODULE, BUT THIS WILL CAUSE NO HARM.
2. REMOVE THE MLPA OR CLPA, IF NECESSARY.

PTF LEVEL

PTF LEVEL FOR THE INDIVIDUAL MODULES IS NOTED WITH EACH MODULE. SOME OF THE CONVERTER MODULES WERE STRUCK BY MVS/SE AND MVS/SP, BUT THE CODE IS BASICALLY COMPATIBLE WITH ALL SU/PTF COMBINATIONS, BUT THE ZAP DISPLACEMENTS AND PATCH AREAS CHANGE.

CURRENT RESTRICTIONS

THE LIMIT ON THE NUMBER OF MULTIPLE CONCURRENT
CONVERTERS IS 16. ANYONE WHO HAS A PROBLEM WITH
THIS DESERVES IT.

++ MOD (IEFVPP) DISTLIB (AOSB3) */ .
LMOD (IEFVH1) TXLIB(IEFVPP)
LEPARM (RENT,REUS,REFR) .

#DYP003

```
++ USERMOD (#DYP003) .
++ VER    (Z038)  FMID (EBB1102)          /* MVS 3.8 BASE */
               REQ  (#DYP004)             /* ZAP TO IEFVFA */
               PRE  (UZ51830
                   #DYP001                 /* SYSGEN MACRO UPDTE */
                   #DYP002                 /* NEW MODULE IEFVPP */
               )
/*
```

PRIVATE PROCLIB MODIFICATIONS
VERSION 4, RELEASE 1, MODIFICATION 0

THIS LOCAL MODIFICATION, ALONG WITH ITS
COMPANION CO-REQUISITES, TOTALLY INTEGRATES THE
NECESSARY SYSTEM MODIFICATIONS FOR DYNAMIC PROCLIB
SUPPORT.

```
#DYP001  SGIEF441  SYSGEN MACRO UPDATE AND JCLIN
#DYP002  IEFVPP    NEW CONVERTER MODULE
#DYP003  IEFVHF    ZAP FOR LINKAGE TO IEFVPP3
#DYP004  IEFVFA    ZAP FOR LINKAGE TO IEFVPP4 & IEFVPP5
#DYP005  IEFVHE    ZAP FOR INTERPRETER JOBPROC BYPASS
```

***** WARNING ***** WARNING ***** WARNING *****

THIS SUPERZAP IS WRITTEN WITH RESERVED WORD "RFULLE"
IN THE CONVERTER WORK AREA USED AS THE ANCHOR FOR
THE PRIVATE PROCLIB WORK AREA.

***** WARNING ***** WARNING ***** WARNING *****

IEFVHF

IEFVHF IS THE CONVERTER TERMINATION MODULE. THE ZAP
CHANGES IEFVHF TO BRANCH TO IEFVPP3 IN IEFVPP TO
ALLOW PRIVATE PROCLIB CLEANUP TO TAKE PLACE. THE
ADDRESS OF IEFVPP3 RESIDES IN THE PRIVATE PROCLIB
WORK AREA THAT IS POINTED TO BY THE ANCHOR WORD IN
THE CONVERTER WORK AREA. THE OFFSET OF THE WORD
USED TO ANCHOR THE ADDRESS THE OF THE PRIVATE PROCLIB
WORK AREA IN THIS ZAP MUST CORRESPOND TO THAT USED
IN THE ASSEMBLY OF IEFVPP.

*/ .

```
++ ZAP    (IEFVHF)  DISTLIB (AOSB3) .
```

#DYP004

```
++ USERMOD (#DYP004) .
++ VER    (Z038)  FMID (EBB1102)          /* MVS 3.8 BASE */
                                     /* ZAP TO IEFVHF */
                                     REQ (#DYP003)
                                     PRE (
                                     UZ69627          /* PTF */
                                     #DYP001          /* SYSGEN MACRO UPDATE */
                                     #DYP002          /* NEW MODULE IEFVPP */
                                     )
/*
```

PRIVATE PROCLIB MODIFICATIONS
VERSION 4, RELEASE 1, MODIFICATION 0

THIS LOCAL MODIFICATION, ALONG WITH ITS
COMPANION CO-REQUISITES, TOTALLY INTEGRATES THE
NECESSARY SYSTEM MODIFICATIONS FOR DYNAMIC PROCLIB
SUPPORT.

```
#DYP001  SGIEF441  SYSGEN MACRO UPDATE AND JCLIN
#DYP002  IEFVPP    NEW CONVERTER MODULE
#DYP003  IEFVHF    ZAP FOR LINKAGE TO IEFVPP3
#DYP004  IEFVFA    ZAP FOR LINKAGE TO IEFVPP4 & IEFVPP5
#DYP005  IEFVHE    ZAP FOR INTERPRETER JOBPROC BYPASS
```

***** WARNING ***** WARNING ***** WARNING *****

THIS SUPERZAP IS WRITTEN WITH RESERVED WORD "RFULLE"
IN THE CONVERTER WORK AREA USED AS THE ANCHOR FOR
THE PRIVATE PROCLIB WORK AREA.

***** WARNING ***** WARNING ***** WARNING *****

IEFVFA

IEFVFA IS THE CONVERTER SCAN ROUTINE. THE ZAP IS
TWO-FOLD.

FIRST, AN ENTRY IN THE JCL KEYWORD TABLE IS
CONVERTED TO THE "SYSPROC=" KEYWORD. "SUBALLOC="
WAS CHOSEN, SINCE ITS USE IS VIRTUALLY NON-EXISTANT. TO
FILL IN THE EXTRA BYTE LEFT OVER WHEN "SYSPROC=" AND ITS
INTERNAL TEXT CODE (SYMBOL SYSPROCK DEFINED IN IEFVPP)
IS ZAPPED OVER "SUBALLOC=" AND ITS INTERNAL TEXT
CODE (SYMBOL SUBALLOK - X'4C' - DEFINED IN MACRO
IEFVKEYS), "SYSPROC=" IS MADE MUTUALLY EXCLUSIVE
WITH "DCB=" (SYMBOL DCBK - X'40' - DEFINED IN MACRO
IEFVKEYS).

SECOND, IEFVFA IS CHANGED TO BRANCH TO BOTH IEFVPP4
IN IEFVPP AND IEFVPP5 IN IEFVPP, IMMEDIATELY
AFTER A JCL STATEMENT HAS BEEN CONVERTED
INTO INTERNAL TEXT. IEFVPP4 EFFECTS LINKAGE TO
IEFVPP1 AND IEFVPP2 IN IEFVPP DEPENDING ON THE
STATEMENT BEING PROCESSED. IEFVPP1 PERFORMS
PRIVATE PROCLIB ALLOCATION. IEFVPP2 PERFORMS
PRIVATE PROCLIB CONCATENATION AND OPEN. IEFVPP5

CALLS IEFUJV WITH ENTRY CODE 64, GIVING IEFUJV
AN INTERNAL TEXT EXIT. THIS CODE IS IN SUPPORT OF
THE JOB STREAM MANAGER. IF THIS NEW ENTRY INTO
IEFUJV IS NOT DESIRED OR NECESSARY, IT MAY BE
ELIMINATED BY APPROPRIATE CHANGES TO THIS ZAP
OR ASSEMBLING IEFVPP WITHOUT THE INTERNAL TEXT
EXIT OPTION SET.

THE ADDRESSES OF IEFVPP4 AND IEFVPP5 RESIDE IN THE
PRIVATE PROCLIB WORK AREA THAT IS POINTED TO BY THE
ANCHOR WORD THE CONVERTER WORK AREA. THE OFFSET OF THE
WORD USED TO ANCHOR THE ADDRESS THE OF THE PRIVATE
PROCLIB WORK AREA IN THIS ZAP MUST CORRESPOND TO
THAT USED IN THE ASSEMBLY OF IEFVPP.

*/ .

++ ZAP (IEFVFA) DISTLIB (AOSB3) .

#DYP005

```
++ USERMOD (#DYP005) .
++ VER    (Z038) FMID (EBB1102)          /* MVS 3.8 BASE */
      PRE (UZ58715
        #DYP001          /* SYSGEN MACRO UPDATE */
        #DYP002          /* NEW MODULE IEFVPP */
        #DYP003          /* ZAP TO IEFVHF */
        #DYP004          /* ZAP TO IEFVFA */
      )
/*
```

PRIVATE PROCLIB MODIFICATIONS
VERSION R, RELEASE 1, MODIFICATION 0

THIS LOCAL MODIFICATION, ALONG WITH ITS
COMPANION CO-REQUISITES, TOTALLY INTEGRATES THE
NECESSARY SYSTEM MODIFICATIONS FOR DYNAMIC PROCLIB
SUPPORT.

```
#DYP001  SGIEF441  SYSGEN MACRO UPDATE AND JCLIN
#DYP002  IEFVPP    NEW CONVERTER MODULE
#DYP003  IEFVHF    ZAP FOR LINKAGE TO IEFVPP3
#DYP004  IEFVFA    ZAP FOR LINKAGE TO IEFVPP4 & IEFVPP5
#DYP005  IEFVHE    ZAP FOR INTERPRETER JOBPROC BYPASS
```

IEFVHE

IEFVHE IS THE INTERPRETER GET AND ROUTE ROUTINE. THE
ZAP CHANGES IEFVHE TO CHECK FOR A "JOBPROC" DD
STATEMENT AND BYPASS PROCESSING IT. THIS IS TO KEEP
THE JOBPROC STATEMENT(S) FROM BEING PROCESSED BY THE
INTERPRETER. IF THIS IS NOT DONE, ANY JOB WITH A
JOBPROC DD STATEMENT WILL RECEIVE A "MISPLACED DD
STATEMENT" JCL ERROR.

THE BYTE USED TO CONTAIN THE FLAG BIT IN THE
INTERNAL TEXT HAS BEEN CHANGED FROM THE FOURTH
TO THE THIRD BYTE. THIS IS TO ACCOMODATE THE
USE OF THE PREVIOUSLY USED FLAG BY THE CONVERTER
ITSELF.

THIS MODIFICATION DOES NOT NEED TO PRE-REQ OR CO-REQ
ANY OF THE OTHER MODIFICATIONS FOR DYNAMIC PROCLIB,
AS IT DOES NOT HAVE ANY DEPENDANCIES ON THE
EXISTANCE OF THE OTHER CODE. THE PRE-REQUISITES
LISTED ARE TO INSURE THAT ALL OF THE OTHER PIECES
ARE PROPERLY INSTALLED. IF THIS MOD IS
LEFT OFF, HOWEVER, ANY JOB THAT CONTAINS "JOBPROC"
DD STATEMENTS WILL RECEIVE A JCL ERROR.

*/ .

```
++ ZAP    (IEFVHE)  DISTLIB (AOSB3) .
```

AY12275

```
++USERMOD(AY12275).
++VER(Z038) FMID(EBB1102) PRE(UZ35042)
/*
  PROBLEM DESCRIPTION(S):
    OY12275 - TCTRSZ INCORRECTLY REFLECTS SIZE OF PRIVATE AREA,
              RATHER THAN REGION SIZE REQUESTED.
  COMPONENT: 5752-SC1CH-EBB1102
  APARS FIXED: OY12275
  SPECIAL CONDITIONS:
  COMMENTS:      NONE
*/
++ZAP(IEAVPRT0) DISTLIB(A0SC5).
```

MS00100

```
++USERMOD(MS00100) REWORK(20230906).
++VER(Z038) FMID(EBB1102) PRE(TNIP800)
/*
  PROBLEM DESCRIPTION(S):
    DURING NIP PARMLIB LINK LIST CONCATENATION PROCESSING,
    LIBRARIES INCLUDED MUST BE CATALOGUED IN THE MASTER
    CATALOG OR THEY WILL NOT BE LOCATED AND THE ENTRY WILL
    BE IGNORED. THIS MODIFICATION ALLOWS THE INCLUSION OF
    A VOLUME SERIAL NUMBER IN PARENTHESES IMMEDIATELY AFTER
    THE LIBRARY NAME WHICH IS USED TO LOCATE THE LIBRARY.
    EXAMPLE: SYSC.LINKLIB(SYSCPK)
  COMPONENT: 5752-VS2-EBB1102
  SPECIAL CONDITIONS:
    ACTION:
      AN IPL IS REQUIRED FOLLOWING THE SUCCESSFUL APPLICATION.
  COMMENTS:
    REWORKED FROM JAMES PURDY ORIGINAL, SOURCE: SPLA FILE #030,
    COPY OBTAINED FROM CBT OVERFLOW V466 FILE #130.
    LAST CHANGE: 2020/05/19 JAY MOSELEY
  REWORK HISTORY:
    2020-05-19: JAY MOSELEY: REWORKED FROM ORIGINAL OF
                JAMES PURDY.
    2023-09-06: ROB PRINS:  ALLOW VOLSER (*****) IMMEDIATELY
                AFTER DATASET NAME TO INDICATE,
                THAT THE DATASET IS PRESENT ON
                THE SYSTEM RESIDENCE VOLUME.
  THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
    MODULES
      SYS1.NUCLEUS(IEAVNP03)
    MACROS
      <NONE>
  */.
++ZAP(IEAVNP03) DISTLIB(AOSC5).
```

M023000

```
++USERMOD(M023000) REWORK(20231211) /*
```

PROBLEM DESCRIPTION:

Add support for D/3375, D/3380 and D/3390 in MVS38J.

TEMPORARY FIX:

Update the relevant SYSGEN macros to support these devices.

Note: 3375, 3380 and 3390 DASD store data in a different manner from previous DASD models.

Previous algorithms, provided for earlier model DASD, to calculate the number of blocks that will fit on a track or the capacity remaining on a track will not provide a correct result for these modulo DASD devices resulting in various error conditions.

Programs, using 3375/3380/3390 DASD, that calculate the number of blocks that will fit on a track or the capacity remaining on a track must use the appropriate algorithms, as published in the 3375/3380/3390 Reference Guides and the updated data returned by the DEVTYPE SVC, to calculate correct values.

IBM recommends that the TRKCALC system service should be used for track capacity calculations to replace user developed implementations of the various track capacity algorithms.

SPECIAL CONDITIONS:

ACTION:

This sysmod should be ACCEPTED to make effect.
IOGEN required.

COMMENTS:

Run at least a SYSGEN with GENTYPE=IO to add D/3375, D/3380 and D/3390.

2023-12-11: Rework from Jim Morrisons Usermods.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MACROS:

USRDDT00

UTRKCALC

UTRK3390

*/.

```
++VER(Z038)
```

FMID(EDM1102)

SUP(K900071)

REQ(M023200 M023201 M023202 M023203 M023204).

```
++IF FMID(EBB1102)
```

REQ(M023100).

```
++IF FMID(EDS1102)
```

REQ(M023300 M023301 M023302).

```
++IF FMID(FDS1122)
```

REQ(M023400 M023401 M023402 M023403 M023404 M023405).

```
++JCLIN.
```

```
/*
```



```

//UTRKCALC JOB MSGLEVEL=(1,1)
//ASM      EXEC PGM=IFOX00
//SYSLIB    DD DSN=SYS1.AMACLIB,DISP=SHR
//          DD DSN=SYS1.AMODGEN,DISP=SHR
//SYSPUNCH  DD DSN=&&PUNCH(UTRKCALC),SPACE=(TRK,(1,1,1)),DISP=(,PASS)
//SYSIN     DD DSN=SYS1.AMODGEN(UTRKCALC),DISP=SHR
//LKED      EXEC PGM=IEWL,PARM='LET,LIST,XREF,MAP,NCAL,REUS,RENT,REFR'
//SYSLMOD   DD DSN=SYS1.NUCLEUS,DISP=SHR
//SYSPUNCH  DD DSN=*.ASM.SYSPUNCH,DISP=(SHR,PASS)
//SYSLIN    DD *
            INCLUDE SYSPUNCH(UTRKCALC)
            NAME UTRKCALC(R)
/*
//UTRK3390 JOB MSGLEVEL=(1,1)
//ASM      EXEC PGM=IFOX00
//SYSLIB    DD DSN=SYS1.AMACLIB,DISP=SHR
//          DD DSN=SYS1.AMODGEN,DISP=SHR
//SYSPUNCH  DD DSN=&&PUNCH(UTRK3390),SPACE=(TRK,(1,1,1)),DISP=(,PASS)
//SYSIN     DD DSN=SYS1.AMODGEN(UTRK3390),DISP=SHR
//LKED      EXEC PGM=IEWL,PARM='LET,LIST,XREF,MAP,NCAL,REUS,RENT,REFR'
//SYSLMOD   DD DSN=SYS1.NUCLEUS,DISP=SHR
//SYSPUNCH  DD DSN=*.ASM.SYSPUNCH,DISP=(SHR,PASS)
//SYSLIN    DD *
            INCLUDE SYSPUNCH(UTRK3390)
            NAME UTRK3390(R)
/*
++MAC(IHADVCT2) DISTLIB(AMODGEN) TXLIB(IHADVCT2)
++SRC(USRDDT00) DISTLIB(AMODGEN) DISTMOD(AOSC5) TXLIB(USRDDT00).
++SRC(UTRKCALC) DISTLIB(AMODGEN) DISTMOD(AOSD0) TXLIB(UTRKCALC).
++SRC(UTRK3390) DISTLIB(AMODGEN) DISTMOD(AOSD0) TXLIB(UTRK3390).
++USERMOD(M023100) /*

```

PROBLEM DESCRIPTION:

Add support for D/3380 and D/3390 in MVS38J.

TEMPORARY FIX:

Update the SYSGEN macro SGIFB600 to add device characteristics for D/3380 and D/3390.

SPECIAL CONDITIONS:

ACTION:

This sysmod should be ACCEPTED to make effect.
IOGEN required.

COMMENTS:

Run at least a SYSGEN with GENTYPE=IO to add D/3380 and D/3390.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MACUPD:

SGIFB600

*/.

```

++VER(Z038) FMID(EBB1102) PRE(UZ57342).
++MACUPD(SGIFB600).
++USERMOD(M023200) REWORK(20231207) /*

```

PROBLEM DESCRIPTION:

Add support for modulo devices.

TEMPORARY FIX:

Update IEC0SCR1 to add support for modulo devices.

SPECIAL CONDITIONS:

ACTION:

This sysmod should be ACCEPTED to make effect.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

S/ZAP:

IEC0SCR1

*/.

++VER(Z038) FMID(EDM1102) PRE(UZ39100).

++ZAP(IGC018).

++USERMOD(M023201) REWORK(20231205) /*

PROBLEM DESCRIPTION:

Add support for D/3380, D/3390 in macro SGIEC0DT to create a correct device table (DVCT) in IECZDTAB.

TEMPORARY FIX:

Update SGIEC0DT macro to support D/3380 and D/3390.

SPECIAL CONDITIONS:

ACTION:

IOGEN required.

COMMENTS:

Run at least a SYSGEN with GENTYPE=IO to add D/3375, D/3380 and D/3390.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MACUPD:

SGIEC0DT

*/.

++VER(Z038) FMID(EDM1102) PRE(UZ33147).

++MACUPD(SGIEC0DT).

++USERMOD(M023202) /*

PROBLEM DESCRIPTION:

Add support for D/3380, D/3390 in macro SGIEC2DT.

TEMPORARY FIX:

Update SGIEC2DT macro to add 3380 and 3390 selectors.

SPECIAL CONDITIONS:

ACTION:

IOGEN required.

COMMENTS:

Run at least a SYSGEN with GENTYPE=IO to add D/3375, D/3380 and D/3390.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MACUPD:

SGIEC2DT

*/.

++VER(Z038) FMID(EDM1102) PRE(UZ33147).

++MACUPD(SGIEC2DT).

++USERMOD(M023203) /*

PROBLEM DESCRIPTION:

Include IGC018, UTRKCALC and UTRK3390 in macro SGIEC3FB.

TEMPORARY FIX:

Update SGIEC3FB to include IGC018, UTRKCALC and UTRK3390.

SPECIAL CONDITIONS:

ACTION:

IOGEN required.

COMMENTS:

Run at least a SYSGEN with GENTYPE=IO to add D/3375, D/3380 and D/3390.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MACUPD:

SGIEC3FB

*/.

++VER(Z038) FMID(EDM1102) PRE(UZ30650).

++MACUPD(SGIEC3FB).

++USERMOD(M023204) /*

PROBLEM DESCRIPTION:

Add device types for D/3380 and D3390 in macro SGIGG500.

TEMPORARY FIX:

Update SGIGG500 to include these device types.

SPECIAL CONDITIONS:

ACTION:

IOGEN required.

COMMENTS:

Run at least a SYSGEN with GENTYPE=IO to add D/3375, D/3380 and D/3390.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MACUPD:

SGIGG500

*/.

++VER(Z038) FMID(EDM1102).

++MACUPD(SGIGG500).

++USERMOD(M023300) /*

PROBLEM DESCRIPTION:

Support D/3380 and D/3390 devices in the DATASET macro.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MACUPD:

DATASET

*/.

++VER(Z038) FMID(EDS1102) PRE(UZ90083).

++MACUPD(DATASET).

++USERMOD(M023301) /*

PROBLEM DESCRIPTION:

Support D/3380 and D/3390 device entries in macro SGIEI1SU.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MACUPD:

SGIEI1SU

*/.

++VER(Z038) FMID(EDS1102).

++MACUPD(SGIEI1SU).

```
++USERMOD(M023302) REWORK(20231211) /*
```

PROBLEM DESCRIPTION:

Support D/3380 and D/3390 in the UNITNAME SYSGEN macro.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MACUPD:

UNITNAME

*/.

```
++VER(Z038) FMID(EDS1102) PRE(UZ69948).
```

```
++MACUPD(UNITNAME).
```

```
++USERMOD(M023400) REWORK(20231206) /*
```

PROBLEM DESCRIPTION:

Replace dummy macro SGFDSP03 to add D/3380 in the Device Features Table (DFT).

TEMPORARY FIX:

Replace SYSGEN macro SGFDSP03.

SPECIAL CONDITIONS:

ACTION:

IOGEN required.

COMMENTS:

Run at least a SYSGEN with GENTYPE=IO to add D/3375, D/3380 and D/3390.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MACROS:

SGFDSP03

*/.

```
++VER(Z038) FMID(FDS1122) PRE(UZ90058).
```

```
++MAC(SGFDSP03).
```

```
++USERMOD(M023401) REWORK(20231206) /*
```

PROBLEM DESCRIPTION:

Replace dummy macro SGFDSP04 to add D/3390 in the Device Features Table (DFT).

TEMPORARY FIX:

Replace SYSGEN macro SGFDSP04.

SPECIAL CONDITIONS:

ACTION:

IOGEN required.

COMMENTS:

Run at least a SYSGEN with GENTYPE=IO to add D/3375, D/3380 and D/3390.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MACROS:

SGFDSP04

*/.

```
++VER(Z038) FMID(FDS1122) PRE(UZ90058).
```

```
++MAC(SGFDSP04).
```

```
++USERMOD(M023402) REWORK(20230730) /*
```

PROBLEM DESCRIPTION:

Replace dummy macro SGIDSP03 to add D/3380 in the Device

Information Table (DIT).

TEMPORARY FIX:

Replace SYSGEN macro SGIDSP03.

SPECIAL CONDITIONS:

ACTION:

IOGEN required.

COMMENTS:

Run at least a SYSGEN with GENTYPE=IO to add D/3375, D/3380 and D/3380.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MACROS:

SGIDSP03

*/.

++VER(Z038) FMID(FDS1122) PRE(UZ90058).

++MAC(SGIDSP03).

++USERMOD(M023403) REWORK(20230730) /*

PROBLEM DESCRIPTION:

Replace dummy macro SGIDSP04 to add D/3390 in the Device Information Table (DIT).

TEMPORARY FIX:

Replace SYSGEN macro SGIDSP04.

SPECIAL CONDITIONS:

ACTION:

IOGEN required.

COMMENTS:

Run at least a SYSGEN with GENTYPE=IO to add D/3375, D/3380 and D/3390.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MACROS:

SGIDSP04

*/.

++VER(Z038) FMID(FDS1122) PRE(UZ90058).

++MAC(SGIDSP04).

++USERMOD(M023404) REWORK(20231211) /*

PROBLEM DESCRIPTION:

Support CUNUMBR and TIMEOUT in the IODEVICE macro

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MACUPD:

IODEVICE

*/.

++VER(Z038) FMID(FDS1122) PRE(UZ65177).

++MACUPD(IODEVICE).

++USERMOD(M023405) /*

PROBLEM DESCRIPTION:

Recalculate BLKSIZE for LPALIB, LINKLIB, SVCLIB, NUCLEUS, and loadlib if allocated on D/3380 and D/3390.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MACUPD:

```

GENERATE
    */.
++VER(Z038) FMID(FDS1122) PRE(UZ84429).
++MACUPD(GENERATE).
++USERMOD(M024001) /*

PROBLEM DESCRIPTION:
    Add D/3375 in Device Description table (DDT).

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
    SRCUPD:
        USRDDT00
            */.
++VER(Z038) FMID(EDM1102) PRE(M023000).
++SRCUPD(USRDDT00).
++SRCUPD(UTRKCALC).
++USERMOD(M024101) /*

PROBLEM DESCRIPTION:
    Add track allocation parameters for D/3375.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
    MACUPD:
        SGIFB600
            */.
++VER(Z038) FMID(EBB1102) PRE(UZ57342 M023100).
++MACUPD(SGIFB600).
++USERMOD(M024205) REWORK(20231205) /*

PROBLEM DESCRIPTION:
    Add support for D/3375 in macro SGIEC0DT to create
    a correct device table (DVCT) in IECZDTAB.

TEMPORARY FIX:
    Update SGIEC0DT macro to support D/3375..

SPECIAL CONDITIONS:
    ACTION:
        IOGEN required.

COMMENTS:
    Run at least a SYSGEN with GENTYPE=IO to add D/3375, D/3380
    and D/3390.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
    MACUPD:
        SGIEC0DT
            */.
++VER(Z038) FMID(EDM1102) PRE(UZ33147 M023201).
++MACUPD(SGIEC0DT).
++USERMOD(M024206) /*

PROBLEM DESCRIPTION:
    Add D/3375, D3380 and D/3380 in the DVCT in IECZDTAB.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
    MACUPD:
        SGIEC2DT
            */.
++VER(Z038) FMID(EDM1102) PRE(UZ33147 M023202).
++MACUPD(SGIEC2DT).

```

```

++USERMOD(M024207) /*

PROBLEM DESCRIPTION:
  Add device type for D/3375 in macro SGIGG500.

TEMPORARY FIX:
  Update SGIGG500 to include this device type.

SPECIAL CONDITIONS:
  ACTION:
    IOGEN required.

COMMENTS:
  Run at least a SYSGEN with GENTYPE=IO to add D/3375, D/3380
  and D/3390.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
  MACUPD:
    SGIGG500
                                */.
++VER(Z038) FMID(EDM1102) PRE(M023204).
++MACUPD(SGIGG500).
++USERMOD(M024303) /*

PROBLEM DESCRIPTION:
  Support D/3375 device in the DATASET macro.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
  MACUPD:
    DATASET
                                */.
++VER(Z038) FMID(EDS1102) PRE(UZ90083 M023300).
++MACUPD(DATASET).
++USERMOD(M024304) /*

PROBLEM DESCRIPTION:
  Support D/3375 device entry in macro SGIEI1SU.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
  MACUPD:
    SGIEI1SU
                                */.
++VER(Z038) FMID(EDS1102) PRE(M023301).
++MACUPD(SGIEI1SU).
++USERMOD(M024305) REWORK(20231211) /*

PROBLEM DESCRIPTION:
  Support D/3375 in the UNITNAME SYSGEN macro.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
  MACUPD:
    UNITNAME
                                */.
++VER(Z038) FMID(EDS1102) PRE(UZ69948,M023302).
++MACUPD(UNITNAME).
++USERMOD(M024406) REWORK(20231206) /*

PROBLEM DESCRIPTION:
  Replace dummy macro SGFDSP04 to add D/3375 in the Device
  Features Table (DFT).

```

TEMPORARY FIX:

Replace SYSGEN macro SGFDSP05.

SPECIAL CONDITIONS:

ACTION:

IOGEN required.

COMMENTS:

Run at least a SYSGEN with GENTYPE=IO to add D/3375, D/3380 and D/3390.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MACROS:

SGFDSP05

*/.

++VER(Z038) FMID(FDS1122) PRE(UZ90058).

++MAC(SGFDSP05).

++USERMOD(M024407) REWORK(20230730) /*

PROBLEM DESCRIPTION:

Replace dummy macro SGIDSP05 to add D/3375 in the Device Information Table (DIT).

TEMPORARY FIX:

Replace SYSGEN macro SGIDSP05.

SPECIAL CONDITIONS:

ACTION:

IOGEN required.

COMMENTS:

Run at least a SYSGEN with GENTYPE=IO to add D/3375, D/3380 and D/3390.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MACROS:

SGIDSP05

*/.

++VER(Z038) FMID(FDS1122) PRE(UZ90058).

++MAC(SGIDSP05).

++USERMOD(M024408) /*

PROBLEM DESCRIPTION:

Recalculate BLKSIZE for LPALIB, LINKLIB, SVCLIB, NUCLEUS, and loadlib if allocated on D/3375.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MACUPD:

GENERATE

*/.

++VER(Z038) FMID(FDS1122) PRE(UZ84429 M023405).

++MACUPD(GENERATE).

M023100

```
++USERMOD(M023100)  /*
```

```
    This usermod belongs to the usermod set M023000.  
    This set of 27 usermods add support in the SYSGEN  
    macros of the modulo devices 3375, 3380 and 3390.
```

```
    The function of M023100 is described in the coverletter  
    of M023000.
```

```
*/.
```

M023200

```
++USERMOD(M023200)  /*
```

```
    This usermod belongs to the usermod set M023000.  
    This set of 27 usermods add support in the SYSGEN  
    macros of the modulo devices 3375, 3380 and 3390.
```

```
    The function of M023200 is described in the coverletter  
    of M023000.
```

```
*/.
```

M023201

```
++USERMOD(M023201)  /*
```

```
    This usermod belongs to the usermod set M023000.  
    This set of 27 usermods add support in the SYSGEN  
    macros of the modulo devices 3375, 3380 and 3390.
```

```
    The function of M023201 is described in the coverletter  
    of M023000.
```

```
*/.
```

M023202

```
++USERMOD(M023202)  /*
```

```
    This usermod belongs to the usermod set M023000.  
    This set of 27 usermods add support in the SYSGEN  
    macros of the modulo devices 3375, 3380 and 3390.
```

```
    The function of M023202 is described in the coverletter  
    of M023000.
```

```
*/.
```

M023203

```
++USERMOD(M023203)  /*
```

```
    This usermod belongs to the usermod set M023000.  
    This set of 27 usermods add support in the SYSGEN  
    macros of the modulo devices 3375, 3380 and 3390.
```

```
    The function of M023203 is described in the coverletter  
    of M023000.
```

```
*/.
```

M023204

```
++USERMOD(M023204)  /*
```

```
    This usermod belongs to the usermod set M023000.  
    This set of 27 usermods add support in the SYSGEN  
    macros of the modulo devices 3375, 3380 and 3390.
```

```
    The function of M023204 is described in the coverletter  
    of M023000.
```

```
*/.
```

M023300

```
++USERMOD(M023300)  /*
```

```
    This usermod belongs to the usermod set M023000.  
    This set of 27 usermods add support in the SYSGEN  
    macros of the modulo devices 3375, 3380 and 3390.
```

```
    The function of M023300 is described in the coverletter  
    of M023000.
```

```
*/.
```

M023301

```
++USERMOD(M023301)  /*
```

```
    This usermod belongs to the usermod set M023000.  
    This set of 27 usermods add support in the SYSGEN  
    macros of the modulo devices 3375, 3380 and 3390.
```

```
    The function of M023301 is described in the coverletter  
    of M023000.
```

```
*/.
```


M023302

```
++USERMOD(M023302)  /*
```

```
    This usermod belongs to the usermod set M023000.  
    This set of 27 usermods add support in the SYSGEN  
    macros of the modulo devices 3375, 3380 and 3390.
```

```
    The function of M023302 is described in the coverletter  
    of M023000.
```

```
*/.
```

M023400

```
++USERMOD(M023400)  /*
```

```
    This usermod belongs to the usermod set M023000.  
    This set of 27 usermods add support in the SYSGEN  
    macros of the modulo devices 3375, 3380 and 3390.
```

```
    The function of M023400 is described in the coverletter  
    of M023000.
```

```
*/.
```

M023401

```
++USERMOD(M023401)  /*
```

```
    This usermod belongs to the usermod set M023000.  
    This set of 27 usermods add support in the SYSGEN  
    macros of the modulo devices 3375, 3380 and 3390.
```

```
    The function of M023401 is described in the coverletter  
    of M023000.
```

```
*/.
```

M023402

```
++USERMOD(M023402)  /*
```

```
    This usermod belongs to the usermod set M023000.  
    This set of 27 usermods add support in the SYSGEN  
    macros of the modulo devices 3375, 3380 and 3390.
```

```
    The function of M023402 is described in the coverletter  
    of M023000.
```

```
*/.
```

M023403

```
++USERMOD(M023403)  /*
```

```
    This usermod belongs to the usermod set M023000.  
    This set of 27 usermods add support in the SYSGEN  
    macros of the modulo devices 3375, 3380 and 3390.
```

```
    The function of M023403 is described in the coverletter  
    of M023000.
```

```
*/.
```

M023404

```
++USERMOD(M023404)  /*
```

```
    This usermod belongs to the usermod set M023000.  
    This set of 27 usermods add support in the SYSGEN  
    macros of the modulo devices 3375, 3380 and 3390.
```

```
    The function of M023404 is described in the coverletter  
    of M023000.
```

```
*/.
```

M023405

```
++USERMOD(M023404)  /*
```

```
    This usermod belongs to the usermod set M023000.  
    This set of 27 usermods add support in the SYSGEN  
    macros of the modulo devices 3375, 3380 and 3390.
```

```
    The function of M023404 is described in the coverletter  
    of M023000.
```

```
*/.
```

M024001

```
++USERMOD(M024001)  /*
```

```
    This usermod belongs to the usermod set M023000.  
    This set of 27 usermods add support in the SYSGEN  
    macros of the modulo devices 3375, 3380 and 3390.
```

```
    The function of M024001 is described in the coverletter  
    of M023000.
```

```
*/.
```


M024101

```
++USERMOD(M024101)  /*
```

```
    This usermod belongs to the usermod set M023000.  
    This set of 27 usermods add support in the SYSGEN  
    macros of the modulo devices 3375, 3380 and 3390.
```

```
    The function of M024101 is described in the coverletter  
    of M023000.
```

```
*/.
```

M024205

```
++USERMOD(M024205)  /*
```

```
    This usermod belongs to the usermod set M023000.  
    This set of 27 usermods add support in the SYSGEN  
    macros of the modulo devices 3375, 3380 and 3390.
```

```
    The function of M024205 is described in the coverletter  
    of M023000.
```

```
*/.
```

M024206

```
++USERMOD(M024206)  /*
```

```
    This usermod belongs to the usermod set M023000.  
    This set of 27 usermods add support in the SYSGEN  
    macros of the modulo devices 3375, 3380 and 3390.
```

```
    The function of M024206 is described in the coverletter  
    of M023000.
```

```
*/.
```

M024207

```
++USERMOD(M024207)  /*
```

```
    This usermod belongs to the usermod set M023000.  
    This set of 27 usermods add support in the SYSGEN  
    macros of the modulo devices 3375, 3380 and 3390.
```

```
    The function of M024207 is described in the coverletter  
    of M023000.
```

```
*/.
```

M024303

```
++USERMOD(M024303)  /*
```

```
    This usermod belongs to the usermod set M023000.  
    This set of 27 usermods add support in the SYSGEN  
    macros of the modulo devices 3375, 3380 and 3390.
```

```
    The function of M024303 is described in the coverletter  
    of M023000.
```

```
*/.
```

M024304

```
++USERMOD(M024304)  /*
```

```
    This usermod belongs to the usermod set M023000.  
    This set of 27 usermods add support in the SYSGEN  
    macros of the modulo devices 3375, 3380 and 3390.
```

```
    The function of M024304 is described in the coverletter  
    of M023000.
```

```
*/.
```

M024305

```
++USERMOD(M024305)  /*
```

```
    This usermod belongs to the usermod set M023000.  
    This set of 27 usermods add support in the SYSGEN  
    macros of the modulo devices 3375, 3380 and 3390.
```

```
    The function of M024305 is described in the coverletter  
    of M023000.
```

```
*/.
```

M024406

```
++USERMOD(M024406)  /*
```

```
    This usermod belongs to the usermod set M023000.  
    This set of 27 usermods add support in the SYSGEN  
    macros of the modulo devices 3375, 3380 and 3390.
```

```
    The function of M024406 is described in the coverletter  
    of M023000.
```

```
*/.
```


M024407

```
++USERMOD(M024407)  /*
```

```
    This usermod belongs to the usermod set M023000.  
    This set of 27 usermods add support in the SYSGEN  
    macros of the modulo devices 3375, 3380 and 3390.
```

```
    The function of M024407 is described in the coverletter  
    of M023000.
```

```
*/.
```

M024408

```
++USERMOD(M024408)  /*
```

```
    This usermod belongs to the usermod set M023000.  
    This set of 27 usermods add support in the SYSGEN  
    macros of the modulo devices 3375, 3380 and 3390.
```

```
    The function of M024408 is described in the coverletter  
    of M023000.
```

```
*/.
```

RP00001

```
++USERMOD(RP00001) .
++VER(Z038) FMID(EBB1102)
  PRE(UZ30889).
++IF FMID(FBB1221) REQ(RP00002)
/*
  PROBLEM DESCRIPTION:
    AMDPRDMP DID NOT PRODUCE A VALID DUMP ON DDNAME=PRINTER,
    IF THE WORK DATASET WITH DDNAME=SYSUT1 IS ALLOCATED ON A
    D/3375, D/3380 OR D/3390, BECAUSE THE NUMBER OF BLOCKS
    ON A TRACK ARE NOT CORRECTLY CALCULATED.

  TEMPORARY FIX:
    UPDATE MODULE AMDPREAD TO ADD THE RIGHT NUMBER OF BLOCKS
    PER TRACK FOR D/3375, D/3380 AND D/3390.

  SPECIAL CONDITIONS:
    ACTION:
      NONE.

  COMMENTS:
    SKYBIRD SYSTEMS: PUBLIC DOMAIN USERMOD FOR MVS 3.8 NUMBER 1.
    REWORK HISTORY:
      2023-11-06: INITIAL AVAILABILITY.

    THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
    MODULES:
      AMDPREAD
*/.
++ZAP (AMDPREAD).
++USERMOD(RP00002).
++VER(Z038) FMID(FBB1221)
  PRE(UZ54567)
  REQ(RP00001)
/*
  PROBLEM DESCRIPTION:
    MODULE IEAVTSDH INCORRECTLY CALCULATES THE NUMBER OF DUMP
    RECORDS THAT CAN BE WRITTEN PER TRACK TO A SYS1.DUMPXX DATA
    SET IF THE SYS1.DUMPXX DATA SET IS ALLOCATED ON A 3390 DEVICE

    CHANGES MADE BY THIS SYSMOD INCLUDE -
    1. REPLACE THE RYO RECORDS PER TRACK CALCULATION WITH THE
      TRKCALC SYSTEM SERVICE TO PROVIDE SUPPORT FOR ALL DASD
      DEVICE TYPES INCLUDING 3375/3380/3390 MODULO DASD
    2. USE OF SYSTEM MAPPING MACROS
    3. NUMEROUS SMALL CHANGES TO ENHANCE SOURCE CODE
      READABILITY

  SPECIAL CONDITIONS:
    ACTION:
      A "CLPA" MUST BE PERFORMED AT IPL TIME FOR THIS SYSMOD TO
      BECOME ACTIVE.

    THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
    MODULES:
      IEAVTSDH IN LPA LOAD MODULE IGC0005A
*/.
```

```
++MOD(IEAVTSDH) DISTLIB(A0SC5) TXLIB(IEAVTSDH).
```

RP00002

```
++USERMOD(RP00002)  /*
```

```
    This usermod belongs to the couple RP00001 and  
    RPP0002
```

```
    The function of RP00002 is described in the coverletter  
    of RP00001 in library USERMOD.RP00001
```

```
*/.
```

RP00003

```
++USERMOD(RP00003).
++VER(Z038) FMID(EDM1102)
PRE(UZ28801,UZ73568)
/* PROBLEM DESCRIPTION:
   THE NUMBER OF CYLINDERS FOR 3380 AND 3390 DASD VOLUMES IS
   DEPENDENT ON THE CHARACTERISTICS OF THE VARIOUS MODELS OF
   3380 AND 3390 DASD.

   THERE IS NO IDENTIFICATION OF THE MODEL NUMBER AND HENCE NUMBER
   OF CYLINDERS PROVIDED IN ANY OF THE DEVICE CONTROL BLOCKS.
   THE NUMBER OF CYLINDERS ON A 3380 OR 3390 DASD VOLUME RETURNED BY
   THE DEVTYPE SVC REFLECTS ONLY THE NUMBER OF CYLINDERS AVAILABLE
   ON THE BASE MODEL AND NOT THE EXTENDED MODELS.

   CHANGES MADE BY THIS USERMOD INCLUDE:
   - THE DVACYL FIELD IN THE DEVTAB RESULT AREA, RETURNED BY
     DEVTYPE SVC, NOW CONTAINS THE ACTUAL NUMBER OF PHYSICAL
     CYLINDERS APPROPRIATE FOR THE DASD VOLUME IDENTIFIED BY
     THE DD NAME. THIS INFORMATION IS RETRIEVED FROM THE
     DASD DEVICE BY USE OF THE READ DEVICE CHARACTERISTICS
     CCW COMMAND.
   - THE DVAMODL FLAG IS NOW AVAILABLE IN DVAFLAGS
     TO IDENTIFY MODULO DASD DEVICES WHERE THE MODULO DASD
     TRACK CAPACITY ALGORITHM MUST BE USED.
   - DATA VARIABLES REQUIRED FOR MODULO DASD TRACK CAPACITY
     CALCULATIONS ARE CORRECTLY NAMED.

   SPECIAL CONDITIONS:
   ACTION:
     A "CLPA" MUST BE PERFORMED AT IPL TIME FOR THIS SYSMOD TO
     BECOME ACTIVE.

   COMMENTS:
     SKYBIRD SYSTEMS: PUBLIC DOMAIN USERMOD FOR MVS 3.8

   THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
   MODULES:
     IGC00002D
     IGCT0002D
   MACROS:
     IHADVA
*/.
++MOD(IGC0002D) DISTLIB(AOSD0)   TXLIB(IGC0002D).
++MOD(IGCT002D) DISTLIB(AOSD0)   TXLIB(IGCT002D).
++MAC(IHADVA)   DISTLIB(AMACLIB) TXLIB(IHADVA).
```

RRKF007

```
++PTF(RRK007) /*
  Remove sort requirement Users and Profiles members. */ .
++VER(Z038) FMID(TRKF120)
      PRE(RRK001,RRK002,RRK003,RRK004,RRK005,RRK006)
/*
Summary of Changes:
-----
+ Remove sort requirement Users and Profiles members:

  RAKFUSER:
  -----
  Allocate a storage table of 1,000 entries. Read the USERS member
  into this table and skip the comments cards. After completion of
  the READ into this table sort the entries in this table in
  alphabetical order before further processing.

  RAKFPROF:
  -----
  Allocate a storage table of 2,000 entries. Read the PROFILES member
  into this table and skip the comments cards. After completion of
  the READ into this table sort the entries in this table in
  alphabetical order before further processing.

Special Installation Instructions:
-----
None

*/ .
++SRCUPD(RAKFUSER).
++SRCUPD(RAKFPROF).
```

SLB0001

```
++USERMOD (SLB0001) /*  
    PROBLEM DESCRIPTION:  
        Install USERMOD SLB0001: IPO OUTPUT, CANCEL, STATUS  
        TSO exit (IKJEFF53) */.  
++VER (Z038) FMID(EBB1102) .  
++MOD(IKJEFF53) TXLIB(IKJEFF53) .
```


SLB0002

```
++USERMOD(SLB0002)          /* CONVERTER/INTERPRETER */ .
++VER(Z038) FMID(EBB1102) PRE(UZ36835,UZ39248)
/*
  PROBLEM DESCRIPTION:
    THE JOB AND EXEC REGION PARAMETERS ONLY ALLOW REGION SIZE
    TO BE SPECIFIED AS KILOBYTES(K). THIS CHANGE, ALLOWS
    THOSE OF US USED TO CODING AN 'M' FOR THE REGION SIZE
    VALUE TO CONTINUE TO DO SO.

  SPECIAL CONDITIONS:
    ACTION:
      A "CLPA" MUST BE PERFORMED AT IPL TIME FOR THIS SYSMOD TO
      BECOME ACTIVE.

  COMMENTS:
    THIS USERMOD WAS WRITTEN AND PUBLISHED BY SHELBY BEACH.

    THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
    MODULES:
      IEFVEA, IEFVJA
*/.
++ZAP(IEFVEA) DISTLIB(AOSB3).
++ZAP(IEFVJA) DISTLIB(AOSB3).
```

SLB0003

```
++USERMOD(SLB0003)          /* TIMER/STIMER ROUTINE */ .
```

```
++VER(Z038) FMID(FBB1221) PRE(UZ35704)
```

```
/*
```

PROBLEM DESCRIPTION:

CSDGDCC IS A FULL-WORD NUMERIC VALUE SET IN IEAVRTOD TO CONTAIN THE NUMBER OF WORKING CLOCK COMPARATORS IN THE COMPLEX. IN MVS 3.8 THIS WILL BE EITHER 1 (UP) OR 2 (AP/MP). COMMUNICATIONS TASK INITIALIZATION ISSUES STIMER REQUESTS WHICH DEPEND UPON THERE BEING WORKING CLOCK COMPARATORS IN THE COMPLEX (WHICH MEANS CSDGDCC > 0). TIMING ISSUES IN THE HERCULES ENVIRONMENT CAN SOMETIMES CAUSE CSDGDCC TO BE ZERO WHEN THE STIMER REQUEST IS ISSUED, AND RESULTS IN AN ABEND22F.

THIS USER MODIFICATION MAKES THE ASSUMPTION THAT WHEN RUNNING UNDER HERCULES, THE CLOCK COMPARATOR WILL ALWAYS BE FUNCTIONAL. CONSEQUENTLY, THE STIMER ROUTINE IS MODIFIED TO IGNORE THE FACT THAT CSDGDCC IS CURRENTLY ZERO, AND TO SIMPLY CONTINUE PROCESSING THE STIMER REQUEST AND QUEUE THE NECESSARY TQE.

SPECIAL CONDITIONS:

ACTION:

A "CLPA" MUST BE PERFORMED AT IPL TIME FOR THIS SYSMOD TO BECOME ACTIVE.

COMMENTS:

THIS USERMOD WAS WRITTEN AND PUBLISHED BY SHELBY BEACH.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES:

IEAVRT00 (CSECT IGC0004F)

```
*/.
```

```
++ZAP(IEAVRT00) DISTLIB(AO5C5).
```

SYZJ201

++USERMOD(SYZJ201).

++VER(Z038) FMID(EJE1103) PRE(UZ77164,UZ33158,UZ35334,UZ37263,
UZ31176,UZ52543,UZ54837,UZ57911,UZ60375,UZ63374,UZ65742,
UZ68537,UZ71437,UZ76165,TJES801) /*

PROBLEM DESCRIPTION:

INSTALL THE MAXIMUM CONDITION CODE SYSMODS

SPECIAL INSTRUCTIONS:

ALSO APPLY SYSMOD SYZJ202 FOR MAXIMUM EFFECT
YOU NEED THE RESTART JES2 AFTER APPLYING SYZJ201

MODULES: HASPSSSM

MACROS: IEFAJCTZ
SYZYG1A

IF YOU HAVE ANY QUESTIONS OR PROBLEMS CONTACT:

BRIAN WESTERMAN
SYZYG INCORPORATED
EMAIL: BRIAN_WESTERMAN@SYZYGINC.COM
PHONE: (800) 767-2244

*/.

SYZJ202

++USERMOD(SYZJ202).

++VER(Z038) FMID(EJE1103) PRE(UZ76165,UZ31176,UZ33158,UZ35334,
UZ37263,UZ52543,UZ54837,UZ57911,UZ60375,UZ63374,UZ65742,
UZ68537,UZ71437) /*

PROBLEM DESCRIPTION:

INSTALL THE MAXIMUM CONDITION CODE SYSMODS

SPECIAL INSTRUCTIONS:

ALSO APPLY SYSMOD SYZJ201 FOR MAXIMUM EFFECT

YOU NEED THE RESTART JES2 AFTER APPLYING SYZJ202

MODULES: HASPPRPU

MACROS: SYZYG1B

IF YOU HAVE ANY QUESTIONS OR PROBLEMS CONTACT:

BRIAN WESTERMAN

SYZYG INCORPORATED

EMAIL: BRIAN_WESTERMAN@SYZYGINC.COM

PHONE: (800) 767-2244

*/.

++SRCUPD(HASPPRPU).

SYZM001

```
++USERMOD (SYZM001) /* SEND COMMAND IMPROVEMENT */.  
++VER (Z038) FMID(EBB1102) /*  
    THIS USER MOD FIXES THE SEND OPERATOR COMMAND TO NOT APPEND  
    CN(00) TO THE MESSAGE WHEN SEND IS ISSUED BY A SYSTEM TASK.  
    THIS IMPROVES THE APPEARANCE OF JES2 NOTIFY MESSAGES. */.  
++ZAP (IEEVSND6).
```

TC01101

```
++USERMOD(TC01101) /*
    TC01101 MOD TO CAUSE PRIMARY AND ALTERNATE SCREEN
    SIZE FIELDS TO BE FILLED IN AS (24,80) AND (43,80)
    RESPECTIVELY FOR TERMINALS GENED AS HAVING 43 LINES.
    THIS IS BEING DONE FOR SUPPORT OF 3278 MOD 4 TUBES
    WITHOUT ACF-LEVEL TCAM.
        IPO 6/MVS 3.8 WITHOUT TCAM LEVEL-SET PTF

                                MARGARET GARDNER, GTE LABORATORIES, INC.
*/.
++VER(Z038) FMID(ETC0108).
++ZAP(IEDAYLL).
```

TC01303

```
++USERMOD(TC01303) /* 3278 MOD 4 FULLSCREEN SUPPORT
    ZAP TO IEDAYQ TO CREATE CHECK FOR ERASE-WRITE/ALTERNATE
    AS WELL AS ERASE-WRITE IN THE TIOC BUFFER - FOR SUPPORT OF
    FULL-SCREEN APPLICATIONS SUCH AS SESSION MANAGER AND SPF
    WITH 43-LINE 3278 MOD 4 TERMINALS ON TCAM10.
        IPO 6/MVS 3.8 WITH TCAM LEVEL-SET PTF

                                MARGARET GARDNER, GTE LABORATORIES, INC.
    reworked for UZ59749 Juergen Winkelmann, ETH Zuerich, 02/2012
                                */.
++VER(Z038) FMID(ETC0108) PRE(UZ59749).
++ZAP(IEDAYQ).
```

TC01402

```
++USERMOD(TC01402) /* 3278 MOD 4 FULLSCREEN SUPPORT
    ZAP TO IEDAY88 TO ENSURE THAT TSB PRIMARY AND ALTERNATE
    SCREENSIZE FIELDS IN TSB ARE MOVED DURING LOGON RECONNECT
    SO WE WILL NOT LOSE INITIALIZATION PROVIDED BY IEDAYLL FOR
    SUPPORT OF FULL-SCREEN APPLICATIONS SUCH AS SESSION MANAGER
    AND SPF WITH 43-LINE 3278 MOD 4 TERMINALS.
        IPO 6/MVS 3.8 WITHOUT TCAM LEVEL-SET PTF

                                MARGARET GARDNER, GTE LABORATORIES, INC.
    reworked for UZ37730 Juergen Winkelmann, ETH Zuerich, 02/2012
    */.
++VER(Z038) FMID(ETC0108) PRE(UZ37730).
++ZAP(IEDAY88).
```


TC01503

```
++USERMOD(TC01503) /* 3278 alternate screen size support
    ZAPS TO IEDAYM TO CAUSE ERASE/WRITE ALTERNATE TO BE SENT
    INSTEAD OF ERASE/WRITE TO 3270 TERMINALS WHOSE TSBLNNO IS
    SET AT 43 LINES RATHER THAN 24 LINES. (BOTH LOCAL AND
    REMOTE 3270S) THIS IS FOR SUPPORT OF 43 LINE 3278 MOD 4
    TERMINALS ON TCAM 10.
        IPO 6/MVS 3.8 WITH TCAM LEVEL-SET PTF
```

```

                                MARGARET GARDNER, GTE LABORATORIES, INC.
reworked for UZ52584 Juergen Winkelmann, ETH Zuerich, 02/2012
SNA LU 2 support    Juergen Winkelmann, ETH Zuerich, 03/2012
support all screens Juergen Winkelmann, ETH Zuerich, 03/2012
*/.
++VER(Z038) FMID(ETC0108) PRE(UZ52584).
++ZAP(IEDAYM).
```

TC01601

```
++USERMOD(TC01601) /* SNA LU 2 full screen support
    ZAP to IEDQFSC to allow toggling full screen mode on
    SNA LU 2 terminals using the trigger defined by a
```

```
    FULLSCR TRIGGER=X'xx'
```

```
macro in the TCAM message handler.
```

```
Juergen Winkelmann, ETH Zuerich, 03/2012
```

```
*/.
```

```
++VER(Z038) FMID(ETC0108) PRE(UZ61706).
++ZAP(IEDQFSC).
```

TJES801

```
++ USERMOD(TJES801)      /* REWORK(20050811) */      .
++ VER (Z038)
  FMID(EJE1103)
  PRE  (UZ31176,UZ33158,UZ35334,UZ37263,UZ52543,UZ54837,
        UZ57911,UZ60375,UZ63374,UZ65742,UZ68537,UZ71437,
        UZ76165,UZ77164)

/*
  PROBLEM DESCRIPTION(S):
    TJES801 -
      (1) Set SSCTSSID to SSCTJES2 (X'02') during JES2 initialization
          to indicate that the SSCVT is for a JES2 subsystem.
      (2) Set SSIBSSID to SSIBJES2 (X'02') when a job is selected
          to indicate that the selecting subsystem is JES2.

  COMPONENT:  5752-SC1BH-EJE1103

  APARS FIXED: TJES801

  SPECIAL CONDITIONS:
    ACTION:  An IPL with CLPA is required after installation of
            this user modification.

  COMMENTS:
    LAST CHANGE:  2005/08/11

    THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

    MACROS
      HASPINIT
      HASPSSSM
  */
++ SRCUPD  (HASPINIT) DISTLIB(HASPSRC ).
++ SRCUPD  (HASPSSSM) DISTLIB(HASPSRC ).
```

TMVS816

```
++ USERMOD(TMVS816)      /* REWORK(20200415) */      .
++ VER (Z038)
  FMID(EBB1102)
  PRE  (UZ45157)      .
++ IF FMID(FBB1221) THEN REQ (TMVS817)
/*
  PROBLEM DESCRIPTION(S):
    TMVS816 -
      Four-digit year support for IEE3503D DISPLAY T command;
      Four-digit year support for IEE0603D SET command syntax checker;
      Four-digit year support for IEE6603D SET UTC module.

  COMPONENT: 5752-SC1B8-EBB1102
              5752-SC1CV-EBB1102

  APARS FIXED: TMVS816

  SPECIAL CONDITIONS:
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  ACTION:
    An IPL with CLPA is required after installation of this user
    modification.

  DOCUMENTATION: Text of system message IEE136I modified.

    Publication: OS/VS2 MVS System Messages
    Form Number: GC38-1002

    Message IEE136I is modified as follows:

      IEE136I LOCAL: TIME=hh.mm.ss DATE=yyyy.ddd
                UTC:  TIME=hh.mm.ss DATE=yyyy.ddd

      Explanation: In response to a DISPLAY T command, this
      message shows the local time and date, as well as
      Coordinated Universal Time (UTC). In the message
      text, hh specifies the hour (00-23), mm specifies the
      minute (00-59), ss specifies the second (00-59). yyyy
      specifies the year (1900-2042), and ddd specifies the
      day (001-366).

      Operator Response: None

  DOCUMENTATION: Explanation of "SET DATE" command modified.

    Publication: Operator's Library: OS/VS MVS System Commands
    Form Number: GC38-0229

    Description of the "SET" command is modified as follows:

    SET Command

    The SET command is used to change the installation performance
    (IPS) value and to set the local time and date.
```

The complete syntax of the SET command is:

```
[ SET | T ]   IPS=nn
               [ [DATE=yyyy.ddd] [,CLOCK=hh.mm.ss] ]
               RESET
```

Resetting the Performance Specification

Use the following form of the SET command to respecify the parameters the system resources manager uses to control job scheduling. This command should be issued only at the direction of your system programmer.

```
[ SET | T ]   IPS=nn
```

Note: The local time and date can also be set at this time.

IPS=nn

The two alphameric characters indicating the IEAIPSnn member of SYS1.PARMLIB containing the new performance parameters to be used. The new parameters take effect for jobs in progress as well as for jobs read and scheduled after the command.

Example:

```
t ips=00
```

The installation performance parameters are changed according to the values found in the IEAIPS00 member of SYS1.PARMLIB.

Changing the Local Time and Date

After system initialization, use the following form of the SET command to change the local date and time.

```
[ SET | T ]   [ [DATE=yyyy.ddd] [,CLOCK=hh.mm.ss] ]
               RESET
```

Note: IPS can also be changed at this time.

DATE=yyyy.ddd

The year (1900-2042) and the day (001-366). If the new time implies a change of date, the new date must be explicitly stated.

Note: The date may be specified with two digits of years. If yy.ddd is specified, it is assumed to be 19yy.ddd.

CLOCK=hh.mm.ss

The time in hours (00-23), minutes (00-59), and seconds (00-59). The system does not change the date when the new time implies change of date; if you want a new date, use the DATE parameter or wait for the time to pass midnight.

RESET

The local date and time are set to the values they would now contain had you not changed them at system initialization or through a previous SET command.

Examples:

If, when the displayed local time and date are 19.00.00 and 2018.231, respectively, you want to set the local time ahead to 1:00 a.m. the next day, enter:

```
t date=2018.232,clock=01.00.00
```

It is necessary to enter DATE since, in this example, 1:00 a.m. implies a change of date. If you want to reset the time and date to accurate values, enter:

```
t reset
```

COMMENTS:

LAST CHANGE: 2020/04/15

REWORK HISTORY:

2020/04/15: Corrected zap for IEE6603D to ensure that records aren't too long for the input deck.

2020/04/10: Created.

CROSS REFERENCE-MODULE/MACRO NAMES TO USERMODS

```
IEE3503D  TMVS816
IEE0603D  TMVS816
IEE6603D  TMVS816
```

CROSS REFERENCE-USERMODS TO MODULE/MACRO NAMES

```
TMVS816   IEE3503D IEE0603D IEE6603D
```

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES

```
IEE3503D
IEE0603D
IEE6603D
```

LISTEND

```
*/.
```

```
++ SRC      (IEE0603D) DISTLIB(ASAMPLIB) SYSLIB(SAMPLIB )
              DISTMOD(AOSB3  ) TXLIB(IEE0603D).
++ USERMOD(TMVS817)    /* REWORK(20200415) */      .
++ VER (Z038)
  FMID(FBB1221)                      .
++ IF FMID(EBB1102) THEN REQ (TMVS816)
/*
```

PROBLEM DESCRIPTION(S):

```
TMVS817 -
  Four-digit year support for IEAVRTOD IPL interface.
```

COMPONENT: 5752-SC1CV-FBB1221

APARS FIXED: TMVS817

SPECIAL CONDITIONS:

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ACTION:

An IPL with CLPA is required after installation of this user modification.

DOCUMENTATION: Text of system message IEA886A modified.

Publication: OS/VS2 MVS System Messages
Form Number: GC38-1002

Message IEA886A is modified as follows:

IEA886A TOD CLOCK(S) MUST BE SET

Explanation: No time-of-day clock is in the set state.

System Action: The system waits for the operator to reply.

Operator Response: Enter REPLY xx,'prm', where prm may be as follows:

DATE=yyyy.ddd[,CLOCK=hh.mm.ss][,UTC|GMT][,IPS=nn]

yyyy is the year 1900-2042. Note that the year may be specified as two digits 00-99. If a two-digit year yy is specified, the year is assumed to be 19yy.

ddd is the day 001-366.

hh is the hour 00-23.

mm is the minute 00-59.

ss is the second 00-59.

nn is a two-character value which when appended to IEAIPS specifies a member name.

The bracketed parameters are optional. If UTC or GMT is specified, the entered DATE and CLOCK values are understood to be Coordinated Universal Time (UTC) values, and are used to set the time-of-day (TOD) clock. If UTC or GMT is omitted, they are understood to be local values, and will be converted by the system to a UTC value with which to set the TOD clock.

DOCUMENTATION: Text of system message IEA887A modified.

Publication: OS/VS2 MVS System Messages
Form Number: GC38-1002

Message IEA887A is modified as follows:

IEA887A CPU xx LOCAL DATE=yyyy.ddd,CLOCK=hh.mm.ss
IEA887A TOD CLOCKS MUST BE SET, OR SELECT ADDRESS

Explanation: There are at least 2 set time-of-day clocks in the system which are not synchronized.

The local date and clock values for each set clock are displayed. In the message text, yyyy specifies the year (1900-2042), ddd specifies the day (001-366), hh specifies the hour (00-23), mm specifies the minute (00-59), ss specifies the second (00-59), and xx specifies

the CPU address (00-15).

System Action: The system waits for the operator to reply.

Operator Response: Reply as in message IEA886A, or enter
REPLY xx,'ADDR=xx' where xx is the address of the CPU whose
CLOCK and DATE values are displayed in the message. The IPS
parameter is also acceptable in the latter reply.

The 'ADDR=xx' response causes all time-of-day clocks in the
system to be synchronized to the value in the clock of the
selected CPU.

DOCUMENTATION: Text of system message IEA888A modified.

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Message IEA888A is modified as follows:

IEA888A UTC DATE=yyyy.ddd,CLOCK=hh.mm.ss
IEA888A LOCAL DATE=yyyy.ddd,CLOCK=hh.mm.ss
REPLY U, OR UTC/LOCAL TIME

Explanation: Either there is only one time-of-day clock in
the system and it is set, or all set clocks are
synchronized.

Current values are displayed for the operator's
verification. Values displayed are local time and date,
and Coordinated Universal Time (UTC) and date (also known
as Greenwich Mean Time or GMT). In the message text, yyyy
specifies the year (1900-2042), ddd specifies the day
(001-366), hh specifies the hour (00-23), mm specifies the
minute (00-59), and ss specifies the second (00-59).

System Action: The system waits for the operator to reply.

Operator Response: If the values displayed are acceptable,
enter:

REPLY xx,'U'.

If you wish to change the value of the time-of-day (TOD)
clock, enter a new date, time, or both as follows:

REPLY xx,['DATE=yyyy.ddd][,CLOCK=hh.mm.ss],UTC|GMT'

If you want to change the value of the local clock, enter a
new date, time, or both as follows:

REPLY xx,['DATE=yyyy.ddd][,CLOCK=hh.mm.ss]'

If the year is specified as a two-digit number yy, the
year is assumed to be 19yy.

Either UTC or GMT can be specified to indicate that the
time-of-day clock is to be set.

If you omit UTC or GMT, the system assumes that the local
date and/or time is to be set.

The IPS parameter can also be entered, although processing of the new value is delayed until initialization has proceeded far enough for the system to make the necessary changes. You can enter the IPS parameter by itself, or in conjunction with the CLOCK, DATE, and UTC|GMT parameters.

If the reply is anything except 'U', this message is repeated with the changed values displayed.

COMMENTS:

LAST CHANGE: 2020/04/15

REWORK HISTORY:

2020/04/15: Corrected documentation to ensure records aren't too long for the input deck.

2020/04/10: Created.

CROSS REFERENCE-MODULE/MACRO NAMES TO USERMODS

IEAVRTOD TMVS817

CROSS REFERENCE-USERMODS TO MODULE/MACRO NAMES

TMVS817 IEAVRTOD

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES

IEAVRTOD

LISTEND

*./.

```
++ SRC      (IEAVRTOD) DISTLIB(ASAMPLIB) SYSLIB(SAMPLIB )
              DISTMOD(AOSC5    ) TXLIB(IEAVRTOD).
```

TMVS817

```
++USERMOD(TMVS817)  /*
```

```
    This usermod belongs to the couple TMVS816 and TMVS817
```

```
    The function of TMVS817 is described in the coverletter  
    of TMVS816
```

```
*/.
```

TNIP800

```
++ USERMOD(TNIP800) /* REWORK(20061130) */ .
++ VER (Z038)
  FMID(EBB1102)
/*
  PROBLEM DESCRIPTION(S):
    TNIP800 -
      Add support for user-defined system parameter PRISUB=
      to define primary subsystem name.

  COMPONENT: 5752-SC1B6-EBB1102
              5752-SC1C8-EBB1102

  APARS FIXED: TNIP800

  SPECIAL CONDITIONS:
    ACTION: An IPL is required to after installation of
            this user modification.

  COMMENTS:
    LAST CHANGE: 2006/11/30

    This usermod makes the following changes:

      IEAVNP03 - modified to use IEAPPNIP macro to build system
                parameters table

      IEAPPNIP - new macro to define system parameters and generate
                system parameters table

      IEAPMNIP - IBM private macro to map parameter lists for NIP
                service calls

      IEAVNPF1 - New RIM to set primary subsystem name from PRISUB=
                parameter

      IEAVNIPM - modified to add new RIM IEAVNPF1 to the list of RIMs
                to be called

      IEFJSINT - modified to use primary subsystem name set by IEAVNPF1

  THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

  MACROS
    IEAPMNIP
    IEAPPNIP
    IEAVNIPM
    IEAVNPF1
    IEAVNP03
    IEFJSINT

  */.
++ JCLIN.
++ SRC      (IEAVNP03) DISTLIB(ASAMPLIB) SYSLIB(SAMPLIB )
              TXLIB(TNIP800) .
++ MAC      (IEAPPNIP) DISTLIB(AMACLIB ) SYSLIB(MACLIB )
              TXLIB(TNIP800) ASSEM(IEAVNP03).
```

```
++ MAC      (IEAPMNIP) DISTLIB(AMACLIB ) SYSLIB(MACLIB )
              TXLIB(TNIP800) ASSEM(IEAVNP03).
++ SRC      (IEAVNPF1) DISTLIB(ASAMPLIB) SYSLIB(SAMPLIB )
              TXLIB(TNIP800) .
++ SRC      (IEAVNIPM) DISTLIB(ASAMPLIB) SYSLIB(SAMPLIB )
              TXLIB(TNIP800) .
++ ZAP      (IEFJSINT) DISTLIB(AOSB3  ).
```

VS49603

```
++USERMOD (VS49603) .
++VER (Z038) FMID(FBB1221)
  PRE(UZ56445)
  /*
    Symptom: IEE331A EXCESSIVE DISABLED SPIN LOOP DETECTED
    Fix:      Apply IBM ZAP VS49603, which fixes excessive disabled
              spin loop conditions when MVS is running under VM
  */
++ ZAP (IEEVEXSN) .
```

WM00017

```
++USERMOD (WM00017) /* $DP COMMAND AND $U COMMAND */ .
++VER (Z038) FMID(EJE1103)
    PRE( UZ31176
        UZ33158
        UZ35334
        UZ37263
        UZ54837
        UZ57911
        UZ63374
        UZ65742
        UZ71437
        UZ79531 )
/* SOURCE: JES2 MODS (SHARE?)
TWO NEW COMMANDS HAVE BEEN ADDED TO JES2 TO ENHANCE OUTPUT
PROCESSING. THE TWO COMMANDS ARE:- $DP & $U. THE FORMAT
OF THE $DP COMMAND IS AS FOLLOWS:-
    $DP ---- WILL DISPLAY ALL PRINTED OUTPUT. IT WILL
              GIVE BOTH THE NUMBER OF LINES AND THE
              OUTPUT CLASS PLUS THE USUAL JES2 SPOOL
              UTILIZATION MESSAGE.
    $DPX ---- WHERE X IS THE SYSOUT CLASS TO BE DISPLAYED.
              EG. $DPA WILL DISPLAY ALL OUTPUT FOR SYSOUT
              CLASS=A. IF THERE IS NO SYSOUT=A THEN THE
              JES2 SPOOL UTILIZATION MESSAGE IS DISPLAYED.
              THE $DPX FORMAT DOES NOT SUPPORT MULTIPLE
              SYSOUT CLASSES.
THE FORMAT OF THE $U COMMAND IS AS FOLLOWS:-
    $U JOBID,O= FROM CLASS,C= TO CLASS WHERE JOBID CAN BE
              JOB/TSU/STC NUMBER OR RANGE OF NUMBERS EG
              J10, S23-25, T51 OR JOBNAME IN QUOTES EG
              'TSTJOB'. FROM CLASS CAN BE ONE OR MORE
              CLASSES EG A, ABV, ABCDEF OR * TO SIGNIFY
              ALL CLASSES. TO CLASS IS A SINGLE CLASS
              SPECIFICATION EG C.
EXAMPLES OF THE $U COMMAND:-
    $US1,C=P,O=L WILL RESET 'L' CLASS OUTPUT FOR STARTED
              TASK 1 TO CLASS 'P'.
    $UJ10,O=V,C=P WILL RESET 'V' CLASS OUTPUT FOR JOB 10
              TO CLASS = 'P'.
    $U'TESTJOB',O=2A,C=5 WILL RESET '2' CLASS & 'A' CLASS
              OUTPUT FOR TESTJOB TO CLASS = '5'.
    $UJ1-999,C=2,O=* WILL RESET OUTPUT FOR ALL JOBS TO
              CLASS = '2'.
POINTS TO NOTE:-
    THE OPERANDS 'O' & 'C' MAY BE IN ANY ORDER.
    OUTPUT CURRENTLY BEING PRINTED CANNOT BE RESET.
    RESETTING OUTPUT TO THE 'Z' QUEUE RE-QUEUES OUTPUT TO A
    'Z' QUEUE BUT DOES NOT AUTOMATICALLY DELETE.
    ('Z' CLASS BEING SYSOUT CLASS NOT PRINTED)
THE RESPONSES TO THE $U COMMAND WILL BE:-
    $HASP000 SYSOUT CLASS/ES CHANGED
    OR
    $HASP000 NO OUTPUT FOUND
++SRCUPD (HASPCOMM) DISTLIB (HASPSRC).
```

ZBP0001

```
++USERMOD(ZBP0001)          /* VM CP CLOSE ON JES2 PRT/PUN */ .
++VER(Z038) FMID(EJE1103)
  PRE(UZ31176,UZ33158,UZ35334,UZ37263,UZ52543,UZ54837,UZ57911,
      UZ60375,UZ63374,UZ65742,UZ68537,UZ71437,UZ76165,TJES801,
      SYZJ202,ZP60031)
/*
```

PROBLEM DESCRIPTION:

When running MVS as a guest of VM, this usermod provides a means for job output to be spooled to individual CMS userids or to VM-owned printers. This means that (for example) a CMS user can submit a job to MVS via the virtual reader and have the job execute as usual, and then have the resulting job output returned back to the CMS user's reader queue.

Running MVS under VM normally presents a problem for JES2 job output because VM sees the resulting output as a single spool file even though it may be the combined output of many jobs. This modification allows JES2 to issue a CP SPOOL and CP CLOSE command at the end of each job's output processing in order to spin off the output into a separate VM spool file. The resulting VM spool file can be destined for any CMS user or to a real VM-owned printer for final dispensation.

In order to enable the routing of JES2 output to VM userids or VM-owned printers, at least one JES2 printer or punch device (or both) must be designated as VM-controlled. To do this, specify the "VM" parameter in the PRINTERnnn or PUNCHnnn JES2 initialization statements. For example:

```
PRINTER1 CLASS=A,NOSEP,AUTO,NOPAUSE,UNIT=00E,DRAIN,VM
```

Only printer and punch devices with the VM parameter will issue the CP SPOOL and CP CLOSE commands. Other printer and punch devices may also be defined to JES2 as usual and they will operate as before. Thus a mixture of VM controlled printers and punches can exist with normal JES2 printer and punch devices.

Routing of JES2 output to VM (CMS) userids is controlled by the use of the programmer name field in the JOB card of the JCL. The first 1-8 bytes of the programmer name field should specify a VM userid. You may place other information in the programmer name field as well, but the userid must be specified first and then must be delimited by either a blank, a period, or a comma. When a valid VM userid is specified and the job's SYSOUT class is an output class being serviced by a VM-controlled printer or punch, then the output will be spooled to that userid's virtual reader queue.

If the userid is invalid or does not exist, the job's output will be spooled to 'system', that is, spooled to the VM print queue for eventual printing on a VM-owned printer.

If it is desired for job output to go directly to a VM-owned printer then specify SYSTEM in the programmer name field of the

JOB card.

Whether jobs are submitted from TSO or from CMS, the programmer name field can specify a destination userid for the resulting output. The only other requirement is that the job's JCL specify a SYSOUT class (via MSGCLASS= and/or SYSOUT=) that is currently serviced by a JES2 printer or punch device that is designated as a VM-controlled printer (that is, has the "VM" parameter specification in its JES2 initialization definition).

Other Considerations.

Use of separator pages: Separator pages make sense for JES2 printers in their normal use, but are somewhat useless when job output is spooled back to the submitter's CMS userid. A specification of NOSEP in the JES2 initialization statement for a VM-controlled printer or punch is recommended.

Local devices only: Local JES2 printer and punch devices can support this feature only. Remote printer and punches used as RJE's are not supported and the VM initialization parameter will result in a specification error if coded for remotes.

MVS not running under VM: This modification detects when MVS is running under VM and when it is not. If not, printer or punch devices designated as VM-controlled will revert to their usual JES2 behavior and no attempt will be made to issue a CP SPOOL or CP CLOSE command on their behalf. Thus, it is not necessary to remove VM parameter designations or maintain separate JES2 initialization statement members for the purposes of MVS-under-VM or MVS-not-under-VM.

Example use flow of job submission by a CMS user and getting the resulting output back:

1. Define a VM-controlled printer to JES2. Use output class V for all output to be routed to VM destinations:

```
PRINTER1 CLASS=V,NOSEP,AUTO,NOPAUSE,UNIT=00E,DRAIN,VM
```

JES2 must be warm started in order for the VM parameter to take effect, and of course MVS must be IPLed and be running as a guest of VM.

2. User MAINT (a VM user) creates the following JCL which is stored on his CMS A-disk, as file TESTJOB JCL A.

```
//TESTJOB JOB 1,MAINT,CLASS=A,MSGCLASS=V
//X      EXEC PGM=IEFBR14
//
```

3. User MAINT then submits the job to the MVS virtual machine:

```
CP SPOOL PUNCH MVS
PUN TESTJOB JCL A (NOH
```

4. The job is received by MVS and executes. The resulting output is in output class V as specified by the MSGCLASS parameter on the JOB card. The JES2 printer processing class V output is a VM-controlled printer as defined in

example step 1 above. After JES2 writes the entire job output to the printer device, it will issue the CP SPOOL command to send the output to VM userid MAINT, and then issue the CP CLOSE command to spin off the output into the VM spool.

5. User MAINT who was waiting a moment for his job to execute, sees the following message on his terminal:

```
PRT FILE 0033 FROM MVS      COPY 01 NOHOLD
```

6. User MAINT can query his reader queue to see what it is:

```
CP Q R ALL
OWNERID FILE CLASS RECDS  CPY HOLD DATE  TIME      NAME      DIST
MAINT   0033 V PRT 000039  01 NONE 01/04 15:50:53 TESTJOB MVS
Ready; T=0.01/0.01 15:51:48
```

The user can read in the spool file onto his CMS disk with the READCARD command, or purge the file, or use other facilities available to VM users.

SPECIAL CONDITIONS:

ACTION:

JES2 MUST BE WARM STARTED FOR THIS CHANGE TO BECOME ACTIVE.

COMMENTS:

THIS IS A PUBLIC DOMAIN USERMOD FOR MVS 3.8.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES:

HASPINIT, HASPPRPU

MACROS:

\$DCT

*/.

```
++ MACUPD   ($DCT)      DISTLIB(HASPSRC ).
++ SRCUPD   (HASPINIT)  DISTLIB(HASPSRC ).
++ SRCUPD   (HASPPRPU)  DISTLIB(HASPSRC ).
```

ZBP0002

++USERMOD (ZBP0002) REWORK(20240110) .

++VER (Z038) FMID (EVT0108)

/*

PROBLEM DESCRIPTION:

ADD TWO VTAM LOGMODE TABLES.

1. ETHLOGON - FOR 3270 TERMINALS FOR TSO
2. ETHLOGVM - FOR 3270 TERMINALS FOR TSO AND THE VM UNDIAL FUNCTIONS NEEDED IF MVS 3.8J IS A GUEST OF VM/370.

SPECIAL CONDITIONS:

ACTION:

THIS SYSMOD REQUIRES AN IPL WITH "CLPA" TO BECOME ACTIVE.

COMMENTS:

ROB PRINS - SKYBIRD SYSTEMS.

ETHLOGON CREATED BY JUERGEN WINKELMANN.

ETHLOGVM CREATED BY MIKE GROSSMANN AND UPDATED BY ROB PRINS.

REWORK HISTORY:

2023-10-18 INITIAL AVAILABILITY.

2024-01-10 ROB PRINS: FIX LOGON (,)APPLID= BUG.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES:

ETHLOGON

ETHLOGVM

*/.

++JCLIN .

/*

++MOD(ETHLOGON) DISTLIB(AOS24) TXLIB(ETHLOGON).

++MOD(ETHLOGVM) DISTLIB(AOS24) TXLIB(ETHLOGVM).

ZJW0001

```
++ USERMOD(ZJW0001).  
++ VER(Z038)  
   FMID(EBB1102)  
   .  
++ MOD(IKJEFF10)  
   DISTLIB(ACMDLIB)  
   TXLIB(IKJEFF10)  
   .
```

ZJW0003

```
++USERMOD (ZJW0003) /*  
    DESC: Install USERMOD ZJW0003 to modify generation of MSTRJCL  
          RAKF DD statements added for early initialization  
          */.  
++VER (Z038) FMID(EBB1102) PRE(ZUM0005) .  
++MACUPD(SGIEE0MS).
```

ZJW0004

```
++USERMOD (ZJW0004) .
++VER (Z038) FMID(EBB1102)
  PRE(UY17588 UZ27405 ZUM0007)
  /*
    completion of Michael Koehne's Y2K patch ZUM0007
  */ .
++ ZAP (IKJEFLA) .
```

ZJW0005

```
++USERMOD(ZJW0005) REWORK(20230808) /*
```

```
DESC: INSTALL USERMOD ZJW0005
```

```
TSO PRE LOGON PROMPT EXIT IKJEFLD:
```

- OVERWRITE UNITNAMES WITH 'SYSDA'.
- ISSUE WTO MESSAGE IDENTIFYING THE TERMINAL ON
ON WHICH A TSO LOGON IS IN PROGRESS.
- INITIALIZE TCAM 3270 TERMINALS TO ALTERNATE SCREEN IF
THEY ARE GEN'ED WITH MORE THAN 24 LINES.

```
REWORK HISTORY:
```

```
20120301 J. WINKELMANN, INITIAL VERSION.
```

```
20230808 R. PRINS, REPLACE UNITNAME BY SYSDA  
*/.
```

```
++VER(Z038) FMID(EBB1102) .
```

```
++MOD(IKJEFLD) TXLIB(IKJEFLD)  
DISTLIB(AOST4)  
LEPARM(RENT,REUS)  
LMOD(IKJEFLA) .
```

ZJW0006

++USERMOD(ZJW0006).

++VER(Z038) FMID(EBB1102) PRE(ZP60039) SUP(ZUM0003) /*

Update IEECVXIT WTO message automation exit:

- o SNA LU1/2 terminals provided by the Hercules 3705 and 3791 emulations should be varied inactive and then back active between consecutive logons for several reasons (reliability, usability with not SSCP-LU session capable TN3270 applications through SIMLOGON to name the most important ones).

Usermod ZJW0005 provides WTO message LGN001I identifying terminals when a TSO logon is in progress. Usermod ZJW0006 adds V NET,INACT - V NET,ACT processing to the autopilot triggered by message LGN001I against terminals with LUNames beginning with T327A and T376A. Once one of this terminals has become inactive due to a V NET,INACT command a V NET,ACT command is issued after a delay. That delay is

- 1 second if the 6th character of the LUName is an 'S'
- 10 seconds in all other cases

- o Remote 3705 NCPs impersonated by the Hercules 3705 emulation appear to VTAM always as loaded. These NCPs (as well as the impersonated local ones) cannot be IPLed and consequently the IFLOADRN replacement just returns "success" to the caller but doesn't perform any real IPL operation on the emulated 3705s. This leads to message

IST183A ncpname FOUND LOADED WITH ncpname - REPLY YES/NO
TO RE-IPL

being issued upon every activation of such an NCP. It is completely irrelevant if this message is answered with YES or NO, because an IPL will never take place anyway.

Thus ZJW0006 has the autopilot always answer this message with YES.

J. Winkelmann, 03/2012

*/.

++MOD(IEECVXIT) TXLIB(IEECVXIT).

ZJW0007

```
++USERMOD(ZJW0007) REWORK(20220119) /*
```

```
    Desc: Install USERMOD ZJW0007
```

```
          Regenerate the subsystem name table
```

```
          Update Rob Prins at 2022/01/19: add subsystem EDIT
```

```
          */.
```

```
++VER(Z038) FMID(EBB1102).
```

```
++MOD(IEFJESNM) TXLIB(IEFJESNM).
```


ZJW0008

```
++USERMOD(ZJW0008)          /* set TSO terminal name */ .
++VER(Z038) FMID(EJE1103) PRE(UZ77164,UZ33158,UZ35334,UZ37263,
    UZ31176,UZ52543,UZ54837,UZ57911,UZ60375,UZ63374,UZ65742,
    UZ68537,UZ71437,UZ76165,TJES801,SYZJ201)
/*
  PROBLEM DESCRIPTION:
    The t/p terminal name field JCTJTPTN contains binary zeros in
    all JCTs of a TSO address space.

    This USERMOD alters JES2 module HASPSSSM to initialize JCTJTPTN
    in the JCT of the initiator task to the terminal name from
    field TSBTRMID of the associated TSB. This allows problem state
    programs to access the terminal name even if the access method
    in use doesn't support the GTERM interface.

  SPECIAL CONDITIONS:
    ACTION:
      An IPL with the CLPA option is required for this change to
      become active.

    The following modules and/or macros are affected by this USERMOD:
    MODULES:
      HASPSSSM
*/.
++ SRCUPD    (HASPSSSM)  DISTLIB(HASPSRC ).
```

ZJW0009

```
++USERMOD (ZJW0009) .
++VER (Z038) FMID(ETV0108)
  PRE(UZ55134)
  /*
    Fix SNA LU2 lost terminal condition occurring in TSO/VTAM
    when a 0-byte RU is about to be sent asynchronously after
    TGET NOWAIT was issued.
  */
++ ZAP (IKTOMLU2) .
```

ZJW0010

```
++USERMOD (ZJW0010) .
++VER (Z038) FMID(ETV0108)
  PRE(UZ37081)
  /*
    Make TSO/VTAM SNA LU1 ASIS translation table fully
    transparent to support unprefixed file transfers
    through Kermit.
    J. Winkelmann, 06/2013
  */ .
++ ZAP (IKTTOMRT) .
```

ZJW0011

++USERMOD (ZJW0011) /*

Desc: Install usermod ZJW0011, modifying SYSGEN macro CONSOLE
to allow specification of 24 PFKeys

Note: o An IOGEN is required to activate the changes introduced
by this usermod.

o This usermod needs to be ACCEPTed to ensure that the
CONSOLE macro is updated in SYS1.AGENLIB. Consequently
it cannot be RESTOREd.

*/.

++VER (Z038) FMID(EDS1102) .

++MACUPD(CONSOLE) .

ZJW0012

```
++USERMOD (ZJW0012) /*  
    DESC: INSTALL USERMOD ZJW0012, INTRODUCING SUPPORT OF  
          24 PFKEYS ON 3270 CONSOLES  
          */.  
++VER (Z038) FMID(EBB1102) PRE(UZ34427,ZUM0015) .  
++MOD(IEECVFTA) TXLIB(IEECVFTA).  
++MACUPD (IEECD CM) .
```

ZP60002

```
++USERMOD(ZP60002)          /* TSO TEST (LIST SUBCOMMAND) */ .  
++VER(Z038) FMID(EBB1102) PRE(UY29953)  
/*
```

PROBLEM DESCRIPTION:

IN TSO TEST, A LIST OF INSTRUCTIONS STOPS AT A BAD OPCODE.
WHEN LISTING INSTRUCTIONS IN TSO TEST, THE LIST STOPS
WHENEVER AN INVALID OPCODE IS ENCOUNTERED. THIS CAN
REDUCE THE EASE-OF-USE OF TSO TEST DURING DEBUGGING.

THIS USERMOD CHANGES LIST INSTRUCTION PROCESSING TO
DISPLAY THE HEXADECIMAL OF EACH HALFWORD ENCOUNTERED
WITH AN INVALID OPCODE AS A "DC" INSTRUCTION. THIS
CAN SIMPLIFY DEBUGGING PASSAGES OF CODE CONTAINING
SMALL INLINE MACRO EXPANSIONS.

SPECIAL CONDITIONS:

NONE.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NO. 2.
THIS IS A COMPLETE REWORK FOR MVS 3.8J OF A MODIFICATION
SHIPPED IN CBT FILE 300 AND DISCUSSED IN AN ARTICLE BY
ALAN FIELD IN THE AUGUST 1990 ISSUE OF THE NASPA TECHNICAL
SUPPORT MAGAZINE. THIS USERMOD ALSO ADDS SOME EXTRA
CHARACTERS NOT SUPPORTED BY THE 3277 BUT WHICH ARE AVAILABLE
ON LATER TERMINALS TO THE DISPLAYABLE CHARACTER TRANSLATE
TABLE WHICH IS USED WHEN LISTING CHARACTERS.

ORIGINALLY FOR UZ39425 (OCT 2001).
THIS REWORK FOR UY29953 (NOV 2002).

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES:

IKJEGLSA

*/.

```
++ZAP(IKJEGLSA) DISTLIB(ACMDLIB).
```

```
/*
```

ZP60003

```
++USERMOD(ZP60003)          /* XF ASSEMBLER */ .  
++VER(Z038) FMID(EAS1102) PRE(UZ32460)  
/*
```

PROBLEM DESCRIPTION:

THE XF ASSEMBLER CANNOT ACCEPT BLANK INPUT SOURCE RECORDS. MUCH ASSEMBLER CODE WRITTEN FOR THE HIGH-LEVEL ASSEMBLER WHICH WOULD OTHERWISE BE FULLY PROCESSABLE BY PUBLICLY AVAILABLE ASSEMBLERS CANNOT BE PROCESSED BECAUSE OF CHANGES TO RULES FOR ALLOWABLE INPUT. ONE SUCH RULE IS THE REQUIREMENT FOR THE "SPACE" ASSEMBLER INSTRUCTION WHENEVER A BLANK LINE IS TO BE PRODUCED IN THE OUTPUT LISTING, WHEREAS THE HIGH-LEVEL ASSEMBLER (ASMA90) CAN ALSO ACCEPT BLANK INPUT RECORDS.

THIS USERMOD UPDATES THE XF ASSEMBLER (IF0X00) TO ALLOW RECORDS WITH BLANKS IN THE FIRST 72 COLUMNS AS VALID INPUT. NEW LOGIC ADDS THE INTERNAL TEXT FOR THE "SPACE" INSTRUCTION IN COLUMN 10 BEFORE THE INPUT RECORD IS PARSED WHENEVER A RECORD IS FOUND TO START WITH 72 BLANKS.

SPECIAL CONDITIONS:

NONE.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NO. 3.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES:

IF0X0F

*/.

```
++ZAP(IF0X0F) DISTLIB(AOS03).
```

ZP60004

```
++USERMOD(ZP60004)          /* 3277 CONSOLE I/O */ .
++VER(Z038) FMID(EBB1102) PRE(UZ35462)
/*
  PROBLEM DESCRIPTION:
    3270 HIGH INTENSITY IS NOT USED FOR IMMEDIATE ACTION MESSAGES.
    ALL CONSOLE MESSAGES DISPLAYED USING THE SHIPPED 3277
    CONSOLE SUPPORT ARE SHOWN IN LOW INTENSITY, WHEREAS THE
    EXPECTED BEHAVIOUR FOR 3270 OS CONSOLES IS THAT 3270
    DUAL INTENSITY IS EXPLOITED SO THAT IMMEDIATE MESSAGES
    INCLUDING WTORS ARE DISPLAYED IN HIGH INTENSITY UNTIL
    PROCESSED BY DOM.

    THIS USERMOD UPDATES THE 3277 CONSOLE WRITE MODULE TO
    UPDATE THE 3270 FIELD ATTRIBUTE BYTE FOR EACH IN-LINE
    MESSAGE LINE ACCORDING TO THE ACTION MESSAGE STATUS OF
    THE MESSAGE SHOWN ON THAT LINE BEFORE THE SCREEN IS
    WRITTEN.

  SPECIAL CONDITIONS:
    ACTION:
      A "CLPA" MUST BE PERFORMED AT IPL TIME FOR THIS SYSMOD TO
      BECOME ACTIVE.

  COMMENTS:
    PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NO. 4.

    THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
    MODULES:
      IEECVETV
*/.
++ZAP(IEECVETV) DISTLIB(AOSC5).
```


ZP60005

```
++USERMOD(ZP60005)          /* IOS SIO COUNTERS */ .
++VER(Z038) FMID(FBB1221) PRE(UZ68196)
/*
  PROBLEM DESCRIPTION:
    IOS DOES NOT MAINTAIN CHANNEL AND DEVICE SIO COUNTS BY DEFAULT.
    THE HALFWORD WRAP-AROUND SIO COUNTERS FOR CHANNELS (IN
    THE CHANNEL AVAILABILITY TABLE) AND DEVICES (IN THE UNIT
    CONTROL BLOCK COMMON EXTENSION) ARE NOT MAINTAINED UNLESS
    MF/1 IS ACTIVE.  MF/1 ACTIVATION AND DEACTIVATION OVERLAYS
    THE "HOOK" INSTRUCTION WITH AN APPROPRIATE INSTRUCTION.
    BY REPLACING THE DEACTIVATION INSTRUCTION WITH THE ACTIVATION
    INSTRUCTION, SIO COUNTS WILL BE MAINTAINED AS SOON AS NUCLEUS
    INITIALIZATION DISABLES I/O TRACE.  FURTHER, BY REPLACING THE
    ASSEMBLED "HOOK" INSTRUCTION WITH THE ACTIVATION INSTRUCTION
    SIO COUNTS WILL BE MAINTAINED FROM THE START OF THE IPL.  TO
    COVER ALL POSSIBILITIES, THE I/O TRACE HOOK IS ALSO CHANGED
    SO THAT THE SIO COUNTER CODE IS NOT BYPASSED IF AN I/O TRACE
    IS PERFORMED.

    THIS USERMOD UPDATES THE ASSEMBLED HOOK INSTRUCTION AND THE
    MF/1 DEACTIVATION INSTRUCTION IN IOS TO MATCH THE MF/1 IOS
    ACTIVATION INSTRUCTION.

  SPECIAL CONDITIONS:
    ACTION:
      AN IPL MUST BE PERFORMED FOR THIS SYSMOD TO BECOME ACTIVE.

  COMMENTS:
    PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NO. 5.

    ORIGINALLY FOR UZ64419 (DEC 2001).
    THIS REWORK FOR UZ68196 (NOV 2002).

    THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
    MODULES:
      IECIOSAM
  */.
++ZAP(IECIOSAM) DISTLIB(A0SC5).
```

ZP60006

```
++USERMOD(ZP60006)          /* DATA SET DEALLOCATION MESSAGES */ .  
++VER(Z038) FMID(EBB1102) PRE(UZ75723)  
/*
```

PROBLEM DESCRIPTION:

THERE IS NO FEEDBACK IN JOB MESSAGES ABOUT EXCP ACTIVITY.
STANDARD JOB MESSAGE OUTPUT DOES NOT CONTAIN ANY DATA
ABOUT I/O ACTIVITY PERFORMED BY THE JOB. VERY USEFUL
PERFORMANCE AND DEBUGGING INFORMATION CAN BE DEDUCED
BY SHOWING THE NUMBER OF EXCPS TO EACH DATA SET.

THIS USERMOD CHANGES THE SYSTEM GENERATED DATA SET
DEALLOCATION MESSAGE IEF285I BY SHOWING THE EXCP COUNT
AFTER THE DATA SET NAME. UP TO 9,999,999 CAN BE SHOWN
CORRECTLY.

SPECIAL CONDITIONS:

ACTION:

A "CLPA" MUST BE PERFORMED AT IPL TIME FOR THIS SYSMOD TO
BECOME ACTIVE.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NO. 6.
THIS IS MERELY A REPACKAGING FOR MVS 3.8J OF THE FAMOUS
"I/O COUNT ZAP" DOCUMENTED IN DETAIL BY SAM GOLOB IN HIS
"MVS TOOLS AND TRICKS OF THE TRADE" COLUMN IN THE JULY 1989
ISSUE OF THE NASPA TECHNICAL SUPPORT MAGAZINE. THE ARTICLE
IS SHIPPED IN MEMBER CL8907JL OF CBT FILE 120, AND THE USERMODS
FOR VARIOUS LEVELS OF MVS ARE SHIPPED IN CBT FILE 369.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES:

IEFAB4A2 (TO VERIFY DATA OFFSET)
IEFAB4B0

*/.

```
++ZAP(IEFAB4A2) DISTLIB(AOSB3).  
++ZAP(IEFAB4B0) DISTLIB(AOSB3).
```

ZP60007

```
++USERMOD(ZP60007)          /* ADD CONFTXT SUPPORT TO TSO */ .  
++VER(Z038) FMID(ETV0108) PRE(UZ28155,UZ28257,UZ33846)  
/*
```

PROBLEM DESCRIPTION:

TSO/VTAM 3270 DATA STREAMS CANNOT BE TRACED BY GTF.

WHEN ATTEMPTING TO DIAGNOSE PROBLEMS WITH TSO APPLICATIONS IT IS A USEFUL TECHNIQUE TO TRACE THE VTAM DATA TRAFFIC TO AND FROM THE TSO TERMINAL. HOWEVER, TSO/VTAM SPECIFIES PROC=CONFTXT IN THE VTAM NIB WHICH INSTRUCTS VTAM TO TREAT TERMINAL TRAFFIC AS CONFIDENTIAL TEXT WHICH SHOULD NOT BE REPORTED BY A TRACE. IBM HAS ADDED THE CONFTXT PARMLIB PARAMETER TO LATER VERSIONS OF VTAM SO THAT AN INSTALLATION CAN CONTROL THIS SETTING, BUT THIS FEATURE IS NOT SUPPORTED BY THE FREELY AVAILABLE VERSION OF TSO/VTAM.

THIS USERMOD ADDS SUPPORT TO CORRECTLY PROCESS THE CONFTXT PARAMETER IN THE PARMLIB FILE OF THE TSO STARTED TASK, WHICH IS USUALLY A TSOKEY__ MEMBER OF SYS1.PARMLIB. FURTHER, TSO APPLICATION NIB INITIALISATION WILL ALTER THE NIB CONTENTS ACCORDING TO THE PARAMETER SETTING. THE TCAST CONTROL BLOCK DSECT MACRO IS UPDATED TO REFLECT WHERE THIS SETTING IS STORED.

SPECIAL CONDITIONS:

ACTION:

A "CLPA" MUST BE PERFORMED AT IPL TIME FOR THIS SYSMOD TO BECOME ACTIVE.

DOC:

CONFTXT=YES OR CONFTXT=NO CAN NOW BE SPECIFIED IN THE TSOKEY__ MEMBER OF SYS1.PARMLIB. CONFTXT=YES IS THE DEFAULT. CONFTXT=YES WILL PREVENT THE TRACING OF TERMINAL DATA STREAMS. CONFTXT=NO WILL ALLOW THE TRACING OF TERMINAL DATA STREAMS.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NUMBER 7.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES:

IKTCAS54

IKTXINIT

MACROS:

IKTTCAST

*/.

```
++MOD(IKTCAS54) DISTLIB(AOST3) TXLIB(IKTCAS54).
```

```
++ZAP(IKTXINIT) DISTLIB(AOST4).
```

```
++MACUPD(IKTTCAST) DISTLIB(ATSOMAC).
```

ZP60008

```
++USERMOD(ZP60008)          /* ADD VTAM EWA AND WSF SUPPORT */ .
++VER(Z038) FMID(EVT0108)
/*
  PROBLEM DESCRIPTION:
    ERASE/WRITE ALTERNATE AND WRITE STRUCTURED FIELD NOT SUPPORTED.
    VTAM APPLICATIONS CANNOT USE EXTENDED 3270 FACILITIES SINCE
    VTAM DOES NOT SUPPORT THE WRITE STRUCTURED FIELD (WSF)
    COMMAND NECESSARY TO ISSUE A READ PARTITION (QUERY) TO THE
    TERMINAL, AND THE ERASE/WRITE ALTERNATE (EWA) COMMAND
    NECESSARY TO SWITCH A 3270 SCREEN INTO ITS ALTERNATE AND
    USUALLY LARGER SCREEN SIZE.

    THIS USERMOD ADDS SUPPORT TO VTAM FOR THE WSF AND EWA COMMANDS
    FOR LOCAL NON-SNA 3270 TERMINALS ONLY.  THE RELEVANT COMMAND
    CODES (X'7E' FOR EWA AND X'F3' FOR WSF) HAVE NON-ZERO ENTRIES
    INSERTED INTO THE TRANSLATE TABLE OF THE 3270 SEND/RECEIVE LOCAL
    TRANSLATION CONTROLLER ISTZBF0L WHICH ARE DECODED BY THE 3270
    LOCAL WRITE CCW PROCESSOR ISTZBFBA SO THAT THE CORRECT CCW
    OPCODES ARE SET.

  SPECIAL CONDITIONS:
    ACTION:
      A "CLPA" MUST BE PERFORMED AT IPL TIME FOR THIS SYSMOD TO
      BECOME ACTIVE.
    DOC:
      WSF AND EWA ARE NOW VALID VTAM WRITE COMMANDS FOR LOCAL NON-SNA
      3270 TERMINALS.  IT IS UP TO THE VTAM APPLICATION TO DETERMINE
      IF THE USE OF EITHER OF THESE COMMANDS IS APPROPRIATE FOR THE
      3270 HARDWARE (OR EMULATION(S) THEREOF) INVOLVED.

  COMMENTS:
    PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NUMBER 8.
    THE ZAP DOES NOT VERIFY THAT THE TRANSLATE TABLE ENTRIES BEING
    REPLACED ARE NULL, SO THIS USERMOD CAN BE REAPPLIED IF NECESSARY.

    THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
    MODULES:
      ISTZBFBA
      ISTZBF0L
  */.
++MOD(ISTZBFBA) DISTLIB(A0S24) TXLIB(ISTZBFBA).
++ZAP(ISTZBF0L) DISTLIB(A0S24).
```

ZP60009

```
++USERMOD(ZP60009)   REWORK(20240311)   .
++VER(Z038) FMID(ETV0108)
  PRE(UZ35180,UZ26905,UZ67122,UZ22286,UZ55134,UZ28255,
      UZ71054,UZ54020,UZ68882,UZ57385,UZ28016)
```

```
/*
```

PROBLEM DESCRIPTION:

THE NOEDIT OPERAND OF TPUT AND TPG IS NOT HONOURED BY TSO/VTAM.
THE TI0C COMMON SVC 93 ROUTINE IGC0009C CORRECTLY DETECTS THE
REQUEST OF NOEDIT FOR TPUT AND TPG REQUESTS, BUT THIS IS NOT
HANDLED PROPERLY BY TSO/VTAM.

THE GTTERM MACRO FUNCTION IS NOT SUPPORTED BY TSO/VTAM.
WHEN A TSO APPLICATION ISSUES THE GTTERM MACRO RC=4 RESULTS.
AN APPLICATION CANNOT DETERMINE IF THE READ PARTITION (QUERY)
FUNCTION IS SUPPORTED. ALSO, THE ALTERNATE SCREEN SIZE CANNOT
BE DETERMINED.

3270 HOUSEKEEPING IS LIMITED TO MODEL-1 AND MODEL-2 SCREEN SIZES.
TSO WILL ONLY PERFORM LINE MODE 3270 SCREEN HOUSEKEEPING FOR
MODEL-1 (12 BY 40) AND MODEL-2 (24 BY 80) SCREEN SIZES. THE
ALTERNATE SCREEN SIZE OF A TERMINAL CANNOT BE PROPERLY EXPLOITED
BY TSO LINE MODE, NOR BY TSO FULLSCREEN APPLICATIONS.

THE NOEDIT OPERAND OF STFSMODE IS NOT SUPPORTED BY TSO/VTAM.
NOEDIT INPUT MODE IS SET BY SPECIFYING NOEDIT=YES ON A
'STFSMODE ON' MACRO. THIS IS NOT SUPPORTED BY TSO. WITHOUT
THIS ABILITY ANY X'1E' IN INPUT DATA (INCLUDING A QUERY
RESPONSE, OR AN SBA ORDER FROM A SCREEN WITH MORE THAN 4096
LOCATIONS) WILL BE INTERPRETED AS A FIELD MARK CHARACTER AND
CAUSE THE DATA FOLLOWING IT TO BE HELD OVER UNTIL THE NEXT TGET
MACRO IS ISSUED.

THIS USERMOD CHANGES SEVERAL TSO/VTAM MODULES.

THE TSO/VTAM SVC 93 ROUTER IS CHANGED TO NOT REJECT REQUESTS
WITH NOEDIT SPECIFIED.

THE TSO/VTAM TPUT HANDLER IS CHANGED TO NOT TRUNCATE TRAILING
BLANKS FROM NOEDIT REQUESTS. A PREVIOUSLY RESERVED BIT IS
USED TO FLAG NOEDIT REQUESTS, WHICH ARE ALSO FLAGGED AS
FULLSCREEN REQUESTS BY THE TPUT AND TPG MACROS (AND NOW ALSO
BY THIS MODULE).

THE TSO/VTAM TGET HANDLER IS CHANGED TO BACK OUT THE FIX FOR
APAR OZ60978 SHIPPED IN PTF UZ57385 TO REGRESS FUNCTIONALITY
TO THE UZ55134 LEVEL SO THAT TPUT MACROS ISSUED AFTER TGET
MACROS WITH THE NOWAIT OPERAND ARE NOT QUEUED UNTIL THERE IS
SOME INPUT, BUT SENT TO THE SCREEN ASYNCHRONOUSLY. THIS HAS
THE EFFECT OF REINTRODUCING THE PROBLEM WHERE A TGET NOWAIT
DOES NOT FORCE THE KEYBOARD TO BECOME UNLOCKED, BUT THIS CAN
BE CIRCUMVENTED BY THE APPLICATION SETTING THE X'02' BIT IN
THE WCC WHEN APPROPRIATE.

THE TSO/VTAM TGET HANDLER IS ALSO CHANGED TO ADD THE TGET MACRO
RETURN CODES 24 AND 28 WHICH MAY BE GIVEN WHEN NOEDIT INPUT
MODE IS IN EFFECT, THEREBY IMPROVING COMPATIBILITY WITH TSO/E.

THE TSO/VTAM INITIALIZATION ROUTINE FOR THE TSO INPUT MANAGER
AND TSO OUTPUT MANAGER HAS BEEN CHANGED TO NOT REGARD TERMINALS

WITH BUFFER SIZES LARGER THAN 1920 BYTES AS MODEL-1 TERMINALS. THIS WILL HELP AVOID LINE MODE SCREEN HANDLING ERRORS AFTER LOGON RECONNECT PROCESSING.

THE TSO/VTAM LOGON RECONNECT ROUTINE HAS BEEN CHANGED TO INCLUDE THE PRIMARY AND ALTERNATE SCREEN DIMENSIONS IN THE DATA PERTAINING TO THE NEW TERMINAL PROPAGATED TO CONTROL BLOCKS WHEN A LOGON RECONNECT IS PERFORMED, THUS ALLOWING TSO APPLICATIONS TO DETECT DYNAMIC CHANGES TO THE SCREEN SIZE.

THE TSO/VTAM 3270 TERMINAL SCREEN MANAGER IS ALTERED TO SKIP ANY DATA TRANSLATION FOR NOEDIT TPUTS. FURTHER, IN KEEPING WITH 3270 ARCHITECTURE DATA INTEGRITY FOR DISPLAYABLE CODE POINTS (WHERE ALL CODE POINTS IN THE RANGE X'40' TO X'FE' ARE CONSIDERED "DISPLAYABLE", AND REGARDLESS OF THE TERMINAL'S ABILITY TO DISPLAY THE CHARACTER, WHEN SUCH A CODE POINT IS WRITTEN TO THE TERMINAL, IT CAN BE READ BACK UNALTERED) ALL TPUTS TO 3270 EBCDIC TERMINALS WILL NO LONGER ALTER ANY DATA CODE POINTS IN THE X'40' TO X'FE' RANGE. (THE X'40' CODE POINT IS RESERVED FOR A BLANK IN ALL SINGLE-BYTE CHARACTER SETS.)

THE TSO/VTAM 3270 TERMINAL SCREEN MANAGER IS ALSO ALTERED TO SUPPORT DIFFERENT PRIMARY AND ALTERNATE SCREEN SIZES OF ANY SIZE SUBJECT TO THE 3270 ARCHITECTURE LIMITATIONS, AND ALSO THAT THE ALTERNATE SCREEN SIZE NEVER HAS FEWER COLUMNS NOR FEWER LINES THAN THE PRIMARY SCREEN SIZE. TSO/VTAM LINE MODE HOUSEKEEPING WILL NOW USE 14-BIT ADDRESSING FOR ALL BUFFER LOCATIONS GREATER THAN 4095, BUT WILL STILL USE 12-BIT ADDRESSING FOR LOCATIONS FROM 0 TO 4095 INCLUSIVE. THIS CHANGE HAS THE EFFECT OF INCREASING THE MAXIMUM TSO/VTAM 3270 SCREEN SIZE SUPPORTED FROM 4096 LOCATIONS TO 16384 LOCATIONS.

THE TSO/VTAM 3270 TERMINAL SCREEN MANAGER NOW HANDLES TPUT FULLSCR DIFFERENTLY TO THE EXTENT THAT A STANDARD WRITE (X'F1') WITH A NO-OP WCC (X'40') WILL NOT FORCE THE INCLUSION OF AN INSERT CURSOR ORDER AS THE TPUT MAY BE SENDING AN ASYNCHRONOUS PARTIAL SCREEN UPDATE WHICH DOES NOT OVERWRITE AN ACTIVE INPUT AREA WHERE SOME TEXT MAY BE BEING TYPED IN.

THE TSO/VTAM 3270 INPUT DATA HANDLER HAS BEEN ALTERED TO NOT PROCESS FIELD MARK CHARACTERS INPUT WHEN NOEDIT MODE IS IN EFFECT. FURTHER, THE ACTUAL NUMBER OF COLUMNS AND LINES ON THE SCREEN IS USED IN LINE COUNT CALCULATIONS.

THE TSO/VTAM SVC 94 ROUTER IS ALTERED TO PASS CONTROL TO A NEW CSECT FOR TSO TERMINAL CONTROL FUNCTION 17 (GTTERM). A TSO APPLICATION CAN NOW ISSUE A GTTERM MACRO TO DETERMINE IF THE QUERY BIT IS ON, AND CAN GET THE DIMENSIONS OF THE PRIMARY AND ALTERNATE SCREEN SIZES. NOEDIT TPUT/TPG MACROS CAN BE USED TO ISSUE WRITE STRUCTURED FIELD COMMANDS TO GAIN ACCESS TO VARIOUS 3270 EXTENSIONS INCLUDING GRAPHICS. QUERY SUPPORT IS NOT NEEDED FOR A READ BUFFER COMMAND WHICH CAN NOW ALSO BE ISSUED VIA A NOEDIT TPUT/TPG MACRO. GTTERM RETURN CODES AND OUTPUT IS COMPATIBLE WITH TSO/E, EXCEPT THAT THE TERMID OUTPUT AREA IS CURRENTLY LIMITED TO 8 BYTES.

THE TERMINAL CONTROL MACRO ROUTINE FOR THE STFSMODE MACRO HAS BEEN CHANGED TO SUPPORT THE NOEDIT OPERAND, AND RESHOW KEY CODES CAN NOW BE IN THE RANGE OF FROM 1 TO 24 INCLUSIVE (REPRESENTING THE VALID PFK NUMBERS).

THE TERMINAL CONTROL MACRO ROUTINE FOR THE STLINENO MACRO HAS BEEN CHANGED TO SUPPORT THE SPECIFICATION OF ANY VALID LINE NUMBER THAT EXISTS ON THE SCREEN. IT HAS ALSO BEEN CHANGED TO SUPPORT NOEDIT INPUT MODE.

THE TERMINAL CONTROL MACRO ROUTINE FOR THE STSIZE MACRO HAS BEEN CHANGED TO INDICATE THAT ANY REQUESTED SCREEN SIZE WHICH MATCHES EITHER THE PRIMARY OR ALTERNATE SIZE OF THE SCREEN IS CONSIDERED A STANDARD SIZE, EVEN IF IT IS NOT THE SIZE OF A MODEL-1 OR MODEL-2 SCREEN. THIS IS DONE WITH A RETURN CODE OF ZERO INSTEAD OF A RETURN CODE OF 12 WHICH INDICATES A NON-STANDARD SCREEN SIZE. (THE FLAGGING OF NON-STANDARD SCREEN SIZES IS INTENDED TO WARN OF THE POSSIBILITY OF SCREEN CONTROL ERRORS.)

THE MAPPING MACRO FOR THE TSO/VTAM WORK AREA IKTTVWA IS UPDATED TO ADD BIT TVWAALTS WHICH IS SET WHEN THE TSO/VTAM SCREEN MANAGER SETS THE SCREEN TO ITS ALTERNATE SIZE. (THE MAPPING OF THIS BIT IS INCOMPATIBLE WITH TSO/E.)

THE STFSMODE TERMINAL CONTROL MACRO FOR TSO FULLSCREEN APPLICATIONS HAS BEEN UPDATED TO ADD THE NOEDIT OPERAND, WHICH CAN BE ASSIGNED THE VALUE OF YES OR NO. NO IS THE DEFAULT. NOEDIT=YES IS USED TO ALLOW BYTES WITH A VALUE OF X'1E' TO BE RETURNED TO AN APPLICATION AS INPUT DATA FROM THE TERMINAL WITHOUT EACH SUCH BYTE BEING PROCESSED AS A FIELD MARK.

SPECIAL CONDITIONS:

ACTION:

A "CLPA" MUST BE PERFORMED AT IPL TIME FOR THIS SYSMOD TO BECOME ACTIVE.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NUMBER 9.

REWORK HISTORY:

2003-02-01: INITIAL RELEASE.
2003-03-05: KBD (UN)LOCK ASYNC MSGS DURING NOEDIT TPUTS.
2003-03-30: DO NOT FORCE IC IF WRT WITH NO-OP WCC.
2005-08-14: DO NOT FORCE LINE-WRAP AFTER COLUMN 80.
2009-06-01: USE SCREEN SIZES AND QUERY BIT FROM SNA BIND.
2009-11-07: CHANGE IKTIOM AND ADD IKTLOGR ZAPS FOR RECONNECT.
2012-04-28: IMPROVE THE INTEROPERABILITY OF TPUT NOEDIT (WITH "UNLOCK KEYBOARD" SET IN THE WCC) AND TGET NOWAIT TO MATCH THAT OF TPUT FULLSCR AND TGET NOWAIT.
2019-04-22: CHANGE IKTVTGET SO THAT TGET NOWAIT REQUESTS DO NOT INHIBIT WRITES TO THE TERMINAL UNTIL SOME INBOUND DATA IS FIRST RECEIVED FROM THE TERMINAL. REMOVE DEBUG CODE AND FLAGS FROM IKT32700 CSECT. REMOVE FLSCRTAB EDITING OF TPUT FULLSCR DATA.
2020-06-21: CHANGE IKT3270I TO FIX LINE COUNT OF INPUT WIDTH.
2022-11-26: FIX 2019 IKTVTGET SOURCE CODE UPDATES TO CORRECTLY IMPLEMENT THE ZAP PREVIOUSLY USED, THEREBY FIXING TPUT HOLD BEHAVIOUR. MAKE THE CORRECT IKTVTGET SOURCE CODE CHANGES SO THAT TGET NOWAIT REQUESTS DO NOT INHIBIT WRITES TO THE TERMINAL UNTIL SOME INBOUND DATA IS FIRST RECEIVED FROM THE TERMINAL.
2024-03-11: FIX IKT3270I TO IGNORE FIELD MARKS (X'1E' BYTES) WITHIN SBA ORDERS TO FIX OVERLAYING INPUT FIELDS WITH DATA INTENDED FOR OTHER INPUT FIELDS.

FIX IKT09412 TO RESET NOEDIT INPUT MODE WHEN
 STFSMODE ON,NOEDIT=NO IS ISSUED.
 UPDATE IKTXLOG TO EXTRACT THE CGCSGID FROM THE
 CHARACTER SETS QUERY SUB-FIELD AND STORE IT IN
 THE UNUSED LAST 4 BYTES OF THE TSBX (TSBX+74X).
 UPDATE IKT09411 TO ADD GTTERM SUPPORT FOR THE
 NETWORK NAME OF THE SMF IDENTIFIER WITH 'VTAM'
 APPENDED IF THE GTTERM TERMDID VALUE WAS REQUESTED
 (IF SMF HAS NOT STARTED THE NAME WILL BE 'MVS VTAM')
 AND ALSO TO SUPPORT THE 39-BYTE 'CODEPG' FORMAT
 OF DATA RETURNED TO THE AREA NAMED IN THE TERMDID
 PARAMETER AS DOCUMENTED IN TSO/E PROGRAMMING
 SERVICES. (THE IP ADDRESSES WILL NOT BE LOADED.)

TSO/VTAM IS A VTAM APPLICATION. THIS SYSMOD DOES NOT IMPLY
 THAT VTAM CAN CORRECTLY PROCESS THE DATA THAT CAN NOW BE
 GENERATED BY TSO APPLICATIONS, EVEN IF THE DATA CONSISTS OF
 A PERFECTLY VALID 3270 DATA STREAM.

EVT0108 LOCAL NON-SNA SUPPORT IS PROVIDED BY USERMOD ZP60008.

USERMOD ZP60032 UPGRADES THE GTTERM MACRO TO BE ABLE TO EXPLOIT
 NEW FUNCTION DELIVERED IN THIS SYSMOD.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES:

IKT0009C
 IKTVTPUT
 IKTIOM
 IKTLOGR
 IKTVTGET
 IKT32700
 IKT0009D
 IKTXLOG
 IKT3270I
 IKT09412
 IKT09413
 IKT0940A

MACROS:

IKTTVWA
 STFSMODE

*/.

++ZAP(IKT0009C) DISTLIB(AOST3).
 ++ZAP(IKTVTPUT) DISTLIB(AOST3).
 ++ZAP(IKTIOM) DISTLIB(AOST4).
 ++ZAP(IKTLOGR) DISTLIB(AOST4).
 ++MOD(IKTVTGET) DISTLIB(AOST3) TXLIB(IKTVTGET).
 ++MOD(IKT32700) DISTLIB(AOST3) TXLIB(IKT32700).
 ++MOD(IKT0009D) DISTLIB(AOST3) TXLIB(IKT0009D).
 ++MOD(IKTXLOG) DISTLIB(AOST4) TXLIB(IKTXLOG).
 ++MOD(IKT3270I) DISTLIB(AOST3) TXLIB(IKT3270I).
 ++MOD(IKT09412) DISTLIB(AOST3) TXLIB(IKT09412).
 ++MOD(IKT09413) DISTLIB(AOST3) TXLIB(IKT09413).
 ++MOD(IKT0940A) DISTLIB(AOST3) TXLIB(IKT0940A).
 ++MACUPD(IKTTVWA) DISTLIB(ATSOMAC).
 ++MACUPD(STFSMODE) DISTLIB(ATSOMAC).

ZP60011

```
++USERMOD(ZP60011)          /* TRACE SIO CHANNEL PROGRAM */ .
++VER(Z038) FMID(FBB1221)
/*
  PROBLEM DESCRIPTION:
    GTF CANNOT TRACE ANY CCWS USED IN A CHANNEL PROGRAM.
    GTF DOES NOT PROVIDE A FACILITY FOR PERFORMING A CCW TRACE.
    CCW TRACES ARE A SIGNIFICANT TOOL FOR DIAGNOSING I/O PROBLEMS.

    THIS USERMOD CHANGES THE SIO RECORD BUILD ROUTINE TO CAPTURE
    UP TO 25 CCWS IN AN I/O PROGRAM PROCESSED BY SIO, AND PLACE
    THE CONTENTS INTO THE GTF SIO TRACE RECORD.  STRICTLY
    SPEAKING, THIS IS NOT A CCW TRACE AS THERE IS NO GUARANTEE
    THAT ALL OF THE CAPTURED CCWS WERE EXECUTED BY THE CHANNEL.
    UP TO 8 BYTES OF WRITE DATA MAY BE CAPTURED FOR NON-DASD
    DEVICES WHICH IS STORED IN THE SEEK ADDRESS TRACE FIELD.

    ADDITIONALLY THE SIO TRACE RECORD FORMAT ROUTINE IS ALTERED
    TO FORMAT CAPTURED CCWS, EACH ONE ON ITS OWN PRINT LINE.

  SPECIAL CONDITIONS:
    ACTION:
      A "CLPA" MUST BE PERFORMED AT IPL TIME FOR THIS SYSMOD TO
      BECOME ACTIVE.

  COMMENTS:
    PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NUMBER 11.

    THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
    MODULES:
      AHLTSIO
      AMDSYS00
*/.
++MOD(AHLTSIO) DISTLIB(AOS11) TXLIB(AHLTSIO).
++MOD(AMDSYS00) DISTLIB(AOS12) TXLIB(AMDSYS00).
```

ZP60012

```
++USERMOD(ZP60012)      /* REPORT PIC FOR S0CX OR S0DX ABEND */ .  
++VER(Z038) FMID(EBB1102) PRE(UZ83396,UY02947)  
/*
```

PROBLEM DESCRIPTION:

THE CONTENTS OF GPR15 IS REPORTED AS THE REASON CODE.
IN THE ABSENCE OF A "REASON" PARAMETER OF THE ABEND MACRO
THE VALUE STORED IN GENERAL PURPOSE REGISTER 15 IS INSPECTED
AND IF (LOGICALLY) LESS THAN 4096 IS THEN ARBITRARILY
REPORTED AS THE REASON CODE OF THE ABEND. THIS IS NOT
APPROPRIATE FOR PROGRAM CHECK ABENDS WHERE IT CAN BE MORE
USEFUL TO REPORT THE PROGRAM INTERRUPT CODE (PIC).

THIS USERMOD CHANGES THE TSO TMP ESTAI EXIT ROUTINE IKJEFT04
AND THE TSO TMP ESTAE EXIT ROUTINE IKJEFT05 SO THAT THE PIC
IS REPORTED AS THE REASON CODE IN MESSAGE IKJ56641I. AS A
RESULT, THE DETERMINATION OF WHETHER THE PSW POINTS TO THE
FAILING INSTRUCTION (AS FOR PIC10, PIC11 AND PIC12) OR THE
NEXT INSTRUCTION WILL BE EASIER TO MAKE.

SPECIAL CONDITIONS:

ACTION:

A "CLPA" MUST BE PERFORMED AT IPL TIME FOR THIS SYSMOD TO
BECOME ACTIVE.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NO. 12.

A TYPICAL USAGE SCENARIO MIGHT CONSIST OF THE FOLLOWING STEPS:

- 1) A PROGRAM OR COMMAND ABENDS RESULTING IN:
IKJ56641I PGM-NAME ENDED DUE TO ERROR+
READY
- 2) THE USER ENTERS A QUESTION MARK RESULTING IN:
IKJ56641I SYSTEM ABEND CODE 0C4 REASON CODE 011
READY
- 3) THE USER INITIATES THE TEST COMMAND TO COMMENCE DEBUGGING
KNOWING THAT THE CURRENT LOCATION CONTAINS THE INSTRUCTION
CAUSING THE PROGRAM CHECK.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES:

IKJEFT04
IKJEFT05

*/.

```
++ZAP(IKJEFT04) DISTLIB(AOST4).  
++ZAP(IKJEFT05) DISTLIB(AOST4).
```

ZP60013

```
++USERMOD(ZP60013)                                /* COUNT SVC EVENTS */ .
++VER(Z038) FMID(FBB1221)
/*
  PROBLEM DESCRIPTION:
    THE NUMBER OF SVCS ISSUED IS NOT ACCURATELY KNOWN.
    THE SYSTEM DOES NOT PROVIDE A METHOD FOR TRACKING THE
    FREQUENCY OF SUPERVISOR CALLS (SVC INSTRUCTIONS) WITHOUT
    A GTF TRACE.

    THIS USERMOD CHANGES THE SVC FIRST LEVEL INTERRUPT HANDLER
    TO MAINTAIN A FULLWORD COUNTER FOR EACH OF THE 256 SVC
    NUMBERS (0 TO 255) IN A CONTIGUOUS TABLE.  THIS TABLE IS
    AVAILABLE TO MONITORS FOR TRACKING SVC ACTIVITY.  ACCESS
    TO THE TABLE IS VIA THE SECOND WORD OF THE SVC NEW PSW
    FLCSNPSW WHICH POINTS TO THE SVC FLIH.  AFTER THE SYSTEM
    IS REIPLD WITH THIS SYSMOD APPLIED, THE TWELVE BYTES
    BEFORE THE SVC FLIH ENTRY POINT CONTAIN THE EIGHT-BYTE
    LITERAL 'SVCCTTBL' AND A FOUR-BYTE POINTER TO THE TABLE.
    THE PRESENCE OF THE LITERAL SHOULD BE VERIFIED BEFORE
    AN ATTEMPT IS MADE TO ACCESS THE TABLE.

    ADDITIONALLY THE SVC FLIH WILL ABEND (S0F8) ISSUERS OF
    THE SVC INSTRUCTION WHICH ARE IN CROSS-MEMORY MODE.

  SPECIAL CONDITIONS:
    ACTION:
      AN IPL MUST BE PERFORMED FOR THIS SYSMOD TO BECOME ACTIVE.

  COMMENTS:
    PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NUMBER 13.

    THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
    MODULES:
      IEAVESVC
*/.
++MOD(IEAVESVC) DISTLIB(A0SC5) TXLIB(IEAVESVC).
```

ZP60014

```
++USERMOD(ZP60014)    REWORK(20201207)    /* ADD CLIST EXTENSIONS */.  
++VER(Z038) FMID(EBB1102)  
  PRE(UY16532,UY17021)  
/*
```

PROBLEM DESCRIPTION:

VARIOUS CLIST FACILITIES PRESENT IN TSO/E ARE NOT AVAILABLE.
MANY USEFUL CLIST FACILITIES SUCH AS VARIOUS DATE AND TIME
FORMATS, ADDITIONAL ENVIRONMENTAL SYMBOLS, AND THE ABILITY
TO CAPTURE TERMINAL OUTPUT ARE NOT SUPPLIED AS PART OF TSO.

THIS USERMOD CHANGES SEVERAL TSO MODULES.

THE EXEC COMMAND HAS BEEN CHANGED TO DEFINE AND RESOLVE AN
ADDITIONAL 21 CONTROL VARIABLES AND BUILT-IN FUNCTIONS AS
WELL AS THE ORIGINAL 19.

PUTLINE HAS BEEN ALTERED TO SUPPORT THE CAPTURE OF LINE-MODE
TERMINAL OUTPUT INTO CLIST VARIABLES.

SPECIAL CONDITIONS:

ACTION:

A "CLPA" MUST BE PERFORMED AT IPL TIME FOR THIS SYSMOD TO
BECOME ACTIVE.

DOC:

TSO PROVIDES THE FOLLOWING CLIST BUILT-IN FUNCTIONS:

DATATYPE	- DETERMINE DATA TYPE: 'CHAR' OR 'NUM'
EVAL	- FORCE ARITHMETIC EVALUATION
LENGTH	- DETERMINE LENGTH OF EXPRESSION IN BYTES
STR	- DEFINE CHARACTER STRING
SUBSTR	- DEFINE SUBSTRING

THIS SYSMOD ADDS THE FOLLOWING CLIST BUILT-IN FUNCTIONS:

NRSTR - SCAN DATA ONCE AND RETAIN DOUBLE AMPERSANDS
EXAMINE THE FOLLOWING SAMPLE CLIST AND ITS OUTPUT TO
DETERMINE THE APPROPRIATE USES OF NRSTR:

```
PROC 0  
  SET A = &&B  
  SET B = FRED  
  SET C = &NRSTR(&A)  
  WRITE C IS &C  
  WRITE C IS &NRSTR(&C)  
  SET DDSTMT = &NRSTR(//SYSUT1 DD DSN=&&UT1,SPACE=(TRK,3),)  
  WRITE &DDSTMT  
  WRITE &NRSTR(&DDSTMT)
```

SYSDSN - DETERMINE DATA SET AVAILABILITY

EG. SET ANS = &SYSDSN(&DSNAME)

&ANS WILL EVALUATE TO ONE OF THE FOLLOWING:

```
'OK'  
'UNAVAILABLE DATASET'  
'DATASET NOT FOUND'  
'MEMBER NOT FOUND'  
'MEMBER SPECIFIED, BUT DATASET IS NOT PARTITIONED'
```

'VOLUME NOT ON SYSTEM'
 'MISSING DATASET NAME'
 'ERROR PROCESSING REQUESTED DATASET'
 'INVALID DATASET NAME, INPUTDSNAME'

TSO PROVIDES THE FOLLOWING CLIST CONTROL VARIABLES:

LASTCC	- LATEST TSO COMMAND RETURN CODE
MAXCC	- HIGHEST TSO COMMAND RETURN CODE
SYSDDL	- TERMIN DELIMITER
SYSDDVAL	- DEFAULT INPUT VALUE
SYSNEST	- DETERMINE CLIST NESTING: 'NO' OR 'YES'
SYSSCAN	- SYMBOLIC SUBSTITUTION SCAN LIMIT
SYSICMD	- IMPLICIT COMMAND NAME
SYSPCMD	- MOST RECENT TSO PRIMARY COMMAND
SYSSCMD	- MOST RECENT TSO SUBCOMMAND
SYSUID	- TSO USERID
SYSPPREF	- CURRENT DATA SET NAME PREFIX
SYSPPROC	- NAME OF THE TSO LOGON PROCEDURE
SYSDATE	- CURRENT DATE: 'MM/DD/YY'
SYSTIME	- CURRENT TIME: 'HH:MM:SS'

THIS SYSMOD ADDS THE FOLLOWING CLIST CONTROL VARIABLES:

SYSSTIME	- SHORTENED TIME: 'HH:MM'
SYS4DATE	- CURRENT DATE: 'MM/DD/YYYY'
SYS5DATE	- SORTABLE DATE: 'YY/MM/DD'
SYS45DATE	- SORTABLE DATE: 'YYYY/MM/DD'
SYSJDATE	- JULIAN DATE: 'YY.DDD'
SYS4JDATE	- JULIAN DATE: 'YYYY.DDD'
SYS4IDATE	- ISO-FORMAT DATE: 'YYYY-MM-DD'
SYSENV	- CLIST ENVIRONMENT: 'FORE' OR 'BACK'
SYSISPF	- ISPF ENVIRONMENT: 'ACTIVE' OR 'NOT ACTIVE'
SYS5MFID	- SYSTEM SMF IDENTIFIER
SYSOPSYS	- OPERATING SYSTEM NAME: 'OS/VS2 3.8 EBB1102'
SYSJES	- NAME OF SUBSYSTEM PROVIDING JOB ID
SYS5TERMID	- NAME OF TSO TERMINAL WHERE CLIST STARTED
SYSLTERM	- CURRENT LINE COUNT OF TSO TERMINAL
SYSWTERM	- CURRENT LINE WIDTH OF TSO TERMINAL
SYS5CPU	- CURRENT TCB TIME ACCUMULATED BY TSO SESSION
SYS5SRV	- CURRENT SERVICE ACCUMULATED BY TSO SESSION
SYS5OUTLINE	- NUMBER OF DISPLAY LINES HELD IN VARIABLES
SYS5OUTTRAP	- MAXIMUM NUMBER OF DISPLAY LINES TO CAPTURE

CAPTURED LINES ARE HELD IN VARIABLES CALLED
 SYS5OUTLINE1, SYS5OUTLINE2, SYS5OUTLINE3, ETC.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NUMBER 14.

REWORK HISTORY:

2005-09-18: SKIP OUTTRAP CHECK FOR MESSAGES FROM EXEC (S0C4).
 2005-11-11: SKIP OUTTRAP CHECK FOR MESSAGES FROM COMMAND

SCAN/PARSE AND PUTLINE/GETLINE/PUTGET SERVICES.
2006-07-18: REMOVE MSGID TESTING OF PREVIOUS REWORKS, AND
SKIP OUTTRAP CHECK IF CLIST ACTIVE FLAG NOT SET.
2009-06-13: CORRECT RESUME SCAN DATA ADDRESS AFTER SYSDSN.
2009-08-23: ADD NRSTR "NO RESCAN STRING".
2020-12-07: ADD SYSISPF.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES:

IKJCT431

IKJCT433

IKJEFT56

*/.

++MOD(IKJCT431) DISTLIB(AOST4) TXLIB(IKJCT431).

++MOD(IKJCT433) DISTLIB(AOST4) TXLIB(IKJCT433).

++MOD(IKJEFT56) DISTLIB(AOST4) TXLIB(IKJEFT56).

ZP60015

```
++USERMOD(ZP60015)          /* EXTEND JES2 TSO STATUS SEARCH */ .
++VER(Z038) FMID(EJE1103)
  PRE(UZ31176,UZ33158,UZ35334,UZ37263,UZ52543,UZ54837,UZ57911,
      UZ63374,UZ65742,UZ68537,UZ71437,UZ76165)
/*
```

PROBLEM DESCRIPTION:

TSO STATUS ONLY LOOKS FOR JOB NAMES OF USERID PLUS ONE CHARACTER.
WHEN THE TSO STATUS COMMAND IS ISSUED WITHOUT ANY OPERAND
THE SYSTEM LOOKS FOR ALL JOBS WITH NAMES BEGINNING WITH THE
USERID PLUS ONE CHARACTER. IF THE USERID IS SHORTER THAN
SEVEN CHARACTERS THEN OTHER JOBS WITH NAMES BEGINNING WITH
THE USERID BUT HAVING MORE THAN ONE EXTRA CHARACTER ARE NOT
REPORTED BY THE STATUS COMMAND.

THIS USERMOD ALTERS JES2 SO THAT ANY JOB WITH A NAME WHICH
STARTS WITH THE REQUESTING USERID IS REPORTED.

SPECIAL CONDITIONS:

ACTION:

JES2 MUST BE RESTARTED FOR THIS ZAP TO BECOME ACTIVE.
A HOT START IS SUFFICIENT.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NO. 15.

USERMODS ZP60015 AND ZP60016 ARE INTENDED TO BE OPERATIONAL
CONCURRENTLY. NOTE THE FOLLOWING BEHAVIOUR TABLE:

WHICH USERMODS ACTIVE	I	STATUS DEFAULT SEARCH
=====		
NEITHER 15 NOR 16 APPLIED	I	FIND USERID+1 ONLY

15 APPLIED BUT NOT 16	I	FIND USERID+0,1,2,3 BUT
	I	NAME REPORTED AS USERID+1

16 APPLIED BUT NOT 15	I	FIND USERID+1 ONLY BUT
	I	MESSAGE HAS NULLS AFTER NAME

BOTH 15 AND 16 APPLIED	I	FIND USERID+0,1,2,3

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES:

HASPXEQ

*/.

```
++ SRCUPD (HASPXEQ) DISTLIB(HASPSRC ).
```

ZP60016

```
++USERMOD(ZP60016)      /* REPORT JES2 STATUS SEARCH RESULTS */ .
++VER(Z038) FMID(EBB1102) PRE(UZ48744)
/*
```

PROBLEM DESCRIPTION:

TSO STATUS ONLY LOOKS FOR JOB NAMES OF USERID PLUS ONE CHARACTER.
WHEN THE TSO STATUS COMMAND IS ISSUED WITHOUT ANY OPERAND
THE SYSTEM LOOKS FOR ALL JOBS WITH NAMES BEGINNING WITH THE
USERID PLUS ONE CHARACTER. IF THE USERID IS SHORTER THAN
SEVEN CHARACTERS THEN OTHER JOBS WITH NAMES BEGINNING WITH
THE USERID BUT HAVING MORE THAN ONE EXTRA CHARACTER ARE NOT
REPORTED BY THE STATUS COMMAND.

THIS USERMOD ALTERS THE STATUS COMMAND TO REPORT UP TO
THREE EXTRA CHARACTERS AFTER THE USERID IN THE JOB NAME.
THESE JOBS WILL HAVE BEEN RETURNED BY JES2 PROCESSING AFTER
THE ACTIVATION OF ZP60015. WITHOUT THIS SYSMOD SUCH JOBS
WILL BE REPORTED WITHOUT THE UP TO TWO EXTRA CHARACTERS
IN THE JOB NAME.

SPECIAL CONDITIONS:

NONE.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NO. 16.

USERMODS ZP60015 AND ZP60016 ARE INTENDED TO BE OPERATIONAL
CONCURRENTLY. NOTE THE FOLLOWING BEHAVIOUR TABLE:

WHICH USERMODS ACTIVE	I	STATUS DEFAULT SEARCH
=====		
NEITHER 15 NOR 16 APPLIED	I	FIND USERID+1 ONLY

15 APPLIED BUT NOT 16	I	FIND USERID+0,1,2,3 BUT
	I	NAME REPORTED AS USERID+1

16 APPLIED BUT NOT 15	I	FIND USERID+1 ONLY BUT
	I	MESSAGE HAS NULLS AFTER NAME

BOTH 15 AND 16 APPLIED	I	FIND USERID+0,1,2,3

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES:

IKJEFF52

*/.

```
++ZAP(IKJEFF52) DISTLIB(AOST4).
```


ZP60017

```
++USERMOD(ZP60017)          /* MASTER TRACE TABLE SUBPOOL */ .
++VER(Z038) FMID(FBB1221)
/*
  PROBLEM DESCRIPTION:
    IT IS DIFFICULT TO ACCESS THE MASTER TRACE TABLE CONTENTS.
    THE MASTER TRACE TABLE IS A WRAP-AROUND BUFFER CONTAINING
    THE MOST RECENT WTO MESSAGES PROCESSED BY COMMTASK, EVEN
    INCLUDING MESSAGES WHICH WERE NOT LOGGED OR DISPLAYED
    ANYWHERE ELSE.  BEING ABLE TO BROWSE THE MASTER TRACE TABLE
    CONTENTS WITHOUT TAKING A DUMP INCLUDING ASID 1 AND WITHOUT
    THE NEED FOR ASYNCHRONOUS CROSS-MEMORY COMMUNICATION IS A
    USEFUL DIAGNOSIS TOOL AND OPERATIONAL AID.

    THIS USERMOD UPDATES THE NIP INITIALIZATION ROUTINE WHICH
    SETS THE MASTER TRACE TABLE SUBPOOL VALUE INTO THE MASTER
    SCHEDULER RESIDENT DATA AREA.  THE ORIGINAL SUBPOOL OF
    229 IS CHANGED TO 231 WHICH IS A CSA SUBPOOL WITH SIMILAR
    ATTRIBUTES.

  SPECIAL CONDITIONS:
    ACTION:
      AN IPL MUST BE PERFORMED FOR THIS SYSMOD TO BECOME ACTIVE.

  COMMENTS:
    PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NO. 17.

    THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
    MODULES:
      IEAVNP13
*/.
++ZAP(IEAVNP13) DISTLIB(AOSC5).
```

ZP60018

```
++USERMOD(ZP60018)          /* REPORT SOME PLPA MODULE NAMES */ .
++VER(Z038) FMID(EBB1102)
/*
  PROBLEM DESCRIPTION:
    SYSTEM TRACE DOES NOT CAPTURE THE MODULE NAME OF THE EVENT.
    PROGRAM INTERRUPTS, INCLUDING THOSE CAUSED BY MONITOR CALL
    (MC) INSTRUCTIONS HAVE THE PSW CONTENTS REPORTED BUT FURTHER
    DATA ANALYSIS IS NEEDED TO OBTAIN THE MODULE NAME WHERE THE
    EVENT TOOK PLACE.

    THIS USERMOD OVERLAYS THE R0 CONTENTS IN THE SYSTEM TRACE
    DATA FORMATTED IN A DUMP IN CASES WHERE
      (1) THE TRACE EVENT IS A PROGRAM INTERRUPT, AND
      (2) THE PSW ADDRESS CORRESPONDS TO A PLPA MODULE.

    THE 'R0' LABEL IS OVERLAID WITH 'EP' WHEN THE ADDRESS
    CORRESPONDS TO THE DISPLAYED ENTRY POINT, AND 'R0' IS
    OVERLAID WITH 'NM' WHEN THE ADDRESS HAS ONLY BEEN RESOLVED
    TO RESIDE IN THE EXTENT OF THE NAMED MODULE.

    SVC INTERRUPT TRACE ENTRIES ARE NOW FORMATTED TO SHOW THE
    DECIMAL SVC NUMBER.

    PER PROGRAM CHECKS ARE FLAGGED WITH THE LITERAL 'PER'. MC
    INSTRUCTION PROGRAM CHECKS ARE FLAGGED WITH THE LITERAL 'MC'.
    OTHER PROGRAM CHECKS (EXCEPT PAGE FAULTS) ARE FLAGGED WITH
    THE LITERAL '***'.

  SPECIAL CONDITIONS:
    ACTION:
      A "CLPA" MUST BE PERFORMED AT IPL TIME FOR THIS SYSMOD TO
      BECOME ACTIVE.

  COMMENTS:
    PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NUMBER 18.

    THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
    MODULES:
      IEAVAD0C
  */.
++MOD(IEAVAD0C) DISTLIB(A0SC5) TXLIB(IEAVAD0C).
```

ZP60019

```
++USERMOD(ZP60019)          /* RECORD CPU TIME WHEN TIME=1440 */ .  
++VER(Z038) FMID(FBB1221) PRE(UZ67391)  
/*
```

PROBLEM DESCRIPTION:

NO RECORD IS KEPT OF THE CPU TIME USED WHEN TIME=1440 IS USED.
SPECIFYING TIME=1440 ON THE JOB OR EXEC JCL STATEMENT IS
A METHOD OF INDICATING TO THE SYSTEM THAT THERE IS NO LIMIT
TO BE APPLIED BY THE SYSTEM TO THE STEP'S ACCUMULATION OF
CPU TIME OR WAIT TIME. THIS FACILITY WAS CONCEPTUALLY
EXTENDED TO MEAN THAT SUCH JOBS WERE NOT TO BE SUBJECT TO
CHARGEBACK, AND SO CPU TIME USED BY SUCH JOBS WAS "FREE".
AS A RESULT, THE CPU TIME USED BY JOB STEPS WHEN TIME=1440
IN EFFECT IS NOT RECORDED, AND ZERO TIME IS REPORTED IN THE
STEP (IEF374I) AND JOB (IEF376I) END MESSAGES, AND IN SMF
(RECORD TYPES 4, 5, 34 AND 35) THUS EFFECTIVELY FAILING TO
CAPTURE SIGNIFICANT JOB AND SYSTEM PERFORMANCE DATA.

THIS USERMOD UPDATES THE INITIATOR ATTACH ROUTINE TO MOVE
THE TEST TO SEE IF JOB/STEP TIMING LIMITS ARE IN EFFECT
UNTIL AFTER THE TCB AND SRB CPU TIMES USED BY THE STEP HAVE
BEEN SAVED.

SPECIAL CONDITIONS:

ACTION:

A "CLPA" MUST BE PERFORMED AT IPL TIME FOR THIS SYSMOD TO
BECOME ACTIVE.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NO. 19.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES:

IEFSD263

*/.

```
++ZAP(IEFSD263) DISTLIB(AOSB3).
```

ZP60020

```
++USERMOD(ZP60020)          /* REMOVE SYSLIN BLKSIZE 3200 LIMIT */ .  
++VER(Z038) FMID(EPM1102) PRE(UZ48373,UZ69717)  
/*
```

PROBLEM DESCRIPTION:

THE LINKAGE EDITOR HAS A BLOCK SIZE LIMIT OF 3200 FOR SYSLIN.
WHEN READING CONTROL STATEMENTS AND OBJECT DECKS FROM
THE SYSLIN FILE THE LINKAGE EDITOR CANNOT PROCESS 80-BYTE
RECORDS WITH A BLOCKING FACTOR OF MORE THAN FORTY.

THIS USERMOD INCREASES THE LIMIT TO 32720 OR A BLOCKING
FACTOR OF 409 WHICH IS THE MAXIMUM SUPPORTED BY MVS
ACCESS METHODS.

SPECIAL CONDITIONS:

NONE.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NO. 20.

THIS USERMOD IS A REFIT OF THE USERMOD PUBLISHED IN SAM
GOLOB'S MVS TOOLS AND TRICKS OF THE TRADE COLUMN IN NASPA'S
TECHNICAL SUPPORT MAGAZINE IN SEPTEMBER 1996 AND SEPTEMBER
1998. THIS REFIT, INCLUDING THE DEVELOPMENT OF THE CHANGE
OF THE DEFAULT SIZE SETTING WAS PERFORMED AND FIRST PUBLISHED
BY ENRICO SORICHETTI.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES:

HEWLFINT
HEWLFAPT

*/.

```
++ZAP(HEWLFINT) DISTLIB(AOS04).  
++ZAP(HEWLFAPT) DISTLIB(AOS04).
```

ZP60021

```
++USERMOD(ZP60021)          /* SHOW KEYBOARD CHARACTERS IN DUMP */ .
++VER(Z038) FMID(EBB1102) PRE(UZ61115)
/*
  PROBLEM DESCRIPTION:
    DUMPS SHOW PERIODS OBSCURING LOWER CASE AND OTHER CHARACTERS.
    WHEN A DUMP SUCH AS A SYSUDUMP FORMATS STORAGE CONTENTS
    INTO HEXADECIMAL AND CHARACTER DATA, THE CHARACTER DATA
    WRITTEN IS ALL PERIODS EXCEPT FOR SPACES, UPPER CASE
    ALPHABETIC AND NUMERIC EBCDIC CHARACTERS.

    THIS USERMOD REPLACES THE PERIODS TO BE USED FOR THE OTHER
    US KEYBOARD CHARACTERS IN THE RELEVANT TRANSLATE TABLE
    WITH THE CODE POINTS THEMSELVES SO THAT THESE CHARACTERS
    CAN APPEAR IN STORAGE DUMP.

  SPECIAL CONDITIONS:
    ACTION:
      A "CLPA" MUST BE PERFORMED AT IPL TIME FOR THIS SYSMOD TO
      BECOME ACTIVE.

  COMMENTS:
    PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NO. 21.

    THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
    MODULES:
      IEAVAD51
    */.
++ZAP(IEAVAD51) DISTLIB(AOSC5).
```

ZP60022

```
++USERMOD(ZP60022)          /* SUPPORT FORMAT 1 STAX PLIST */ .
++VER(Z038) FMID(EBB1102) PRE(UZ51847)
/*
  PROBLEM DESCRIPTION:
    STAX MACROS FROM LATER MVS VERSIONS CAUSE ABENDS UNDER MVS/370.
    WHEN PROGRAMS WITH STAX MACROS ASSEMBLED WITH MACLIB FROM
    MVS/XA OR LATER WITHOUT SPLEVEL SET TO 1 RUN ON MVS/370,
    THE SVC PARAMETER LIST HAS A DIFFERENT FORMAT WHICH IS NOT
    CORRECTLY PROCESSED, AND WHICH CAN CAUSE ABENDS SUCH AS
    S0C4.

    THIS USERMOD CHANGES THE STAX SVC SERVICE ROUTINE TO CHECK
    FOR A FORMAT 1 STAX PARAMETER LIST DURING PARAMETER VALIDITY
    TESTING AND WHEN THE PARAMETER LIST IS COPIED FOR PROCESSING.

  SPECIAL CONDITIONS:
    ACTION:
      A "CLPA" MUST BE PERFORMED AT IPL TIME FOR THIS SYSMOD TO
      BECOME ACTIVE.

  COMMENTS:
    PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NO. 22.

    THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
    MODULES:
      IEAVAX00
    */.
++ZAP(IEAVAX00) DISTLIB(AOSC5).
```

ZP60023

```
++USERMOD(ZP60023)                /* SUPPORT DAS AT THE TASK LEVEL */ .  
++VER(Z038) FMID(FBB1221) PRE(UZ61148,UZ36571,UZ30139,UZ25668)  
/*
```

PROBLEM DESCRIPTION:

NO OPERATING SYSTEM SUPPORT FOR THE DUAL ADDRESS SPACE FACILITY.
IN ORDER TO EXPLOIT THE DUAL ADDRESS SPACE FACILITY (DAS)
APPLICATIONS MUST USE DISABLEMENT FOR SERIALIZATION AND
MANAGE THE CONTENTS OF THE RELEVANT CONTROL REGISTERS.
THIS IS NOT CONDUCTIVE TO GOOD SYSTEM STABILITY, RELIABILITY
AND PERFORMANCE.

THIS USERMOD UPDATES THE PROGRAM CHECK FIRST LEVEL INTERRUPT
HANDLER (PCFLIH) SUCH THAT IF A SPECIAL-OPERATION EXCEPTION
IS CAUSED BY AN SSAR INSTRUCTION WHEN RUNNING UNDER A TASK,
THE SPECIFIED SECONDARY ADDRESS SPACE NUMBER (SASN) IS
VALIDATED, AND IF VALID IS SET UP TO BE THE TASK'S SECONDARY
ADDRESS SPACE.

THE PCFLIH STORES THE SECONDARY ASID IN THE PREVIOUSLY
RESERVED FIELD TCBRV326.

ALL TASKS CAN USE SSAR TO SET SASN=PASN. ALL TASKS CAN
ISSUE SSAR WITH THE SPECIAL SASN VALUE OF ZERO WHICH CAUSES
ALL DAS SETTINGS TO BE CLEARED FROM CONTROL REGISTERS.
(SPECIFYING A SASN OF ZERO IS DIFFERENT FROM USING GENERAL
PURPOSE REGISTER 0 IN THE SSAR INSTRUCTION.)

SETTING THE SECONDARY ADDRESS SPACE TO ONE OTHER THAN THE
CURRENT PRIMARY ADDRESS SPACE REQUIRES THAT THE SSAR
INSTRUCTION IS EXECUTED IN SUPERVISOR STATE.

THIS USERMOD ALSO CHANGES THE DISPATCHER TO RESTORE THE
SECONDARY ASID OF A TASK EACH TIME IT IS DISPATCHED. THE
DISPATCHER WILL RESET THE DAS ENVIRONMENT, AND REVALIDATE
THE ASID STORED IN TCBRV326, AND IF FOUND TO BE VALID WILL
SET THAT ASID AS THE TASK'S SECONDARY ASID BEFORE THE TASK
RESUMES PROCESSING.

THE ASID IS CONSIDERED VALID IF IT SPECIFIES AN ASSIGNED
SWAPPED-IN ADDRESS SPACE. WHEN A SECONDARY ASID IS SET
UP FOR A TASK BY THE PCFLIH, OR RESTORED BY THE DISPATCHER,
THE SECONDARY ASN IS SET INTO CONTROL REGISTER 3, THE
PRIMARY ASN IS SET INTO CONTROL REGISTER 4, THE SECONDARY
SEGMENT TABLE ORIGIN AND LENGTH ARE SET INTO CONTROL
REGISTER 7, AND THE EXTRACTION-AUTHORITY CONTROL AND THE
SECONDARY-SPACE CONTROL BITS ARE SET ON IN CONTROL REGISTER 0.

SPECIAL CONDITIONS:

ACTION:

AN IPL MUST BE PERFORMED FOR THIS SYSMOD TO BECOME ACTIVE.

DOC:

SYSTEM ABEND 0D7 INDICATES THAT THE PC FLIH FOUND AN ADDRESS
SPACE TO NOT BE BOTH ASSIGNED AND SWAPPED IN. THE VALUE OF
GENERAL PURPOSE REGISTER 15 IS 1 IF THE PRIMARY ADDRESS
SPACE WAS FOUND TO BE INVALID AFTER A PAGE FAULT IN THE

SECONDARY ADDRESS SPACE WAS RESOLVED, AND 2 IF A PAGE-
TRANSLATION EXCEPTION OCCURRED FOR AN INVALID SECONDARY
ADDRESS SPACE.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NUMBER 23.

REWORK HISTORY:

2008-11-01: INITIAL RELEASE.
2012-01-07: SAVE FLOATING POINT REGISTER CONTENTS CORRECTLY.
2015-06-09: FIX CONDITION CODE SETTING AND BRCL BRANCH ADDRESS.
ALSO ADD TRTT, TRTO, TROT, TROO, MSFI AND TP.
2016-08-06: REMOVE NON-370 INSTRUCTION OPCODE SUPPORT RESIDENT
IN THE PCFLIH OPERATION EXCEPTION HANDLER, AND SO
PSARV022 IS NO LONGER USED AS A RECURSION FLAG.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES:

IEAVEDS0
IEAVEPC

MACROS:

IKJTCB

*/.

++MACUPD(IKJTCB) DISTLIB(AMODGEN).
++MOD(IEAVEPC) DISTLIB(AOSC5) TXLIB(IEAVEPC).
++MOD(IEAVEDS0) DISTLIB(AOSC5) TXLIB(IEAVEDS0).

ZP60024

```
++USERMOD(ZP60024)          /* INCREASE ASSEMBER XF ESD LIMIT */ .  
++VER(Z038) FMID(EAS1102) PRE(UZ81148)  
/*
```

PROBLEM DESCRIPTION:

THE ESD LIMIT OF 399 PREVENTED THE ASSEMBLY OF A PROGRAM.
WHEN ASSEMBLING A PARTICULAR PROGRAM (WHICH MAY HAVE BEEN
A C COMPILER OR A COMPONENT THEREOF) THE MAXIMUM EXTERNAL
SYMBOL COUNT OF 399 WAS FOUND TO BE INADEQUATE.

THIS USERMOD SHIPS NEW VERSIONS OF THE PHASE 4 MODULES
WHICH HAVE BEEN ASSEMBLED WITH ALTERED ICOMMON AND XDICT
MACROS TO ALLOW AN INCREASED MAXIMUM EXTERNAL SYMBOL COUNT
OF 511.

SPECIAL CONDITIONS:

NONE.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NUMBER 24.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES:

IFNX4D
IFNX4E
IFNX4M
IFNX4N
IFNX4S
IFNX4T
IFNX4V

*/.

```
++MOD(IFNX4D) DISTLIB(AOS03).  
++MOD(IFNX4E) DISTLIB(AOS03).  
++MOD(IFNX4M) DISTLIB(AOS03).  
++MOD(IFNX4N) DISTLIB(AOS03).  
++MOD(IFNX4S) DISTLIB(AOS03).  
++MOD(IFNX4T) DISTLIB(AOS03).  
++MOD(IFNX4V) DISTLIB(AOS03).
```

ZP60025

```
++USERMOD(ZP60025)          /* ADD BAS AND BASR TO ASSEMBLER XF */ .  
++VER(Z038) FMID(EAS1102) PRE(UZ52227)  
/*
```

PROBLEM DESCRIPTION:

THE BAS AND BASR INSTRUCTIONS ARE UNKNOWN TO ASSEMBLER XF.
THE BAS AND BASR INSTRUCTIONS WERE ADDED TO THE SYSTEM/360
INSTRUCTION SET FOR THE MODEL 67, BUT WERE REMOVED FROM
THE ORIGINAL SYSTEM/370 INSTRUCTION SET, ONLY TO BE ADDED
AGAIN WITH THE DUAL ADDRESS SPACE (DAS) FACILITY.

THIS USERMOD SHIPS NEW ASSEMBLER XF MODULES WHICH WILL
RECOGNIZE THE BAS AND BASR MNEMONICS, AND WILL BE ABLE
GENERATE THE APPROPRIATE OBJECT CODE. THE RELEVANT
PHASE 1 AND PHASE 3 MODULES HAVE BEEN ASSEMBLED WITH
AN UPDATED GENOP MACRO, AND THE RELEVANT PHASE 5
MODULE HAS BEEN UPDATED.

SPECIAL CONDITIONS:

NONE.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NUMBER 25.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES:

IFNX1K
IFNX3K
IFNX5M

*/.

```
++MOD(IFNX1K) DISTLIB(AOS03).  
++MOD(IFNX3K) DISTLIB(AOS03).  
++MOD(IFNX5M) DISTLIB(AOS03).
```

ZP60026

```
++USERMOD(ZP60026)          /* ADD REUSE OPERAND TO ALLOCATE */ .
++VER(Z038) FMID(EBB1102) PRE(UZ80347,UZ69512,UZ58132,UZ65229,UZ52701)
/*
```

PROBLEM DESCRIPTION:

THERE IS NO WAY TO INFORM ALLOCATE TO REUSE A DDNAME IN USE.
AN ALLOCATE COMMAND IS SOMETIMES ISSUED WHICH SPECIFIES A
FILE OR DD NAME OF AN EXISTING ALLOCATION. THERE IS NO
METHOD OF SPECIFYING IN THE INITIAL REQUEST THAT ALLOCATE
SHOULD FREE THE EXISTING ALLOCATION BEFORE PROCEEDING WITH
THE REQUESTED ALLOCATION. SUCH A SCENARIO TRIGGERS A
PROMPT FOR 'FREE' (TO PROCEED) OR 'END' (TO TERMINATE).
CLISTS WHICH ALLOCATE SPECIFIC DDNAMES SHOULD ISSUE FREE
COMMANDS FOR THOSE DDNAMES BEFORE THE ALLOCATE COMMANDS,
WHICH CAN THEN TRIGGER UNWANTED MESSAGES WHICH ARE OFTEN
SUPPRESSED WITH CLIST 'CONTROL NOMSG' STATEMENTS.

THIS USERMOD ADDS A 'REUSE' KEYWORD OPERAND TO THE TSO
ALLOCATE COMMAND. THE USE OF THIS OPERAND ON AN ALLOCATE
COMMAND CAUSES ALLOCATE TO BYPASS THE PROMPT FOR 'FREE' OR
'END' AND TO PROCEED AS IF 'FREE' HAS BEEN ENTERED.

THIS OPERAND IS COMPATIBLE WITH TSO/E. CLISTS FROM TSO/E
ENVIRONMENTS WILL NOT NEED EXTRA CONTROL/FREE/CONTROL
STATEMENTS ADDED AND ALLOCATE 'REUSE' OPERANDS REMOVED IN
ORDER TO RUN IN AN ENVIRONMENT WITH THIS USERMOD APPLIED.

SPECIAL CONDITIONS:

NONE.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NUMBER 26.

REWORK HISTORY:

2010-02-27: UPDATE ALLOCATE TSO HELP MEMBER.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES:

IKJEFD30
IKJEFD31
IKJEFD32
IKJEFD33
IKJEFD34
IKJEFD35
IKJEFD36
IKJEFD37

MACROS:

ALLOCATE

*/.

```
++MACUPD(ALLOCATE) DISTLIB(AHELP).
++MOD(IKJEFD30) DISTLIB(AOST4) TXLIB(IKJEFD30).
++MOD(IKJEFD31) DISTLIB(AOST4) TXLIB(IKJEFD31).
++MOD(IKJEFD32) DISTLIB(AOST4) TXLIB(IKJEFD32).
++MOD(IKJEFD33) DISTLIB(AOST4) TXLIB(IKJEFD33).
++MOD(IKJEFD34) DISTLIB(AOST4) TXLIB(IKJEFD34).
++MOD(IKJEFD35) DISTLIB(AOST4) TXLIB(IKJEFD35).
++MOD(IKJEFD36) DISTLIB(AOST4) TXLIB(IKJEFD36).
```

```
++MOD(IKJEFD37) DISTLIB(AOST4) TXLIB(IKJEFD37).
```

ZP60027

```
++USERMOD(ZP60027)      /* ADD TIME OF DAY TO LINK EDIT IDR */ .  
++VER(Z038) FMID(EPM1102) PRE(UZ52497,UZ75398)  
/*
```

PROBLEM DESCRIPTION:

THE IDR CREATED BY THE LINKAGE EDITOR DOES NOT CONTAIN A TIME.
THE ORIGINAL IDENTIFICATION RECORD (IDR) CREATED BY THE
LINKAGE EDITOR CONTAINS THE DATE OF THE LINK EDIT BUT NOT
THE TIME. WITH APAR OW29593 IBM EXTENDED THE IDR CREATED
BY THE PROGRAM BINDER TO INCLUDE THE TIME.

THIS USERMOD UPDATES THE LINKAGE EDITOR INTERMEDIATE
OUTPUT PROCESSOR HEWLFOUT TO EXTEND THE IDR BY FOUR BYTES
TO APPEND THE TIME-OF-DAY IN PACKED DECIMAL FORMAT.

FURTHER, THE IDR LISTING PROCESSOR HMBLKIDR OF THE AMBLIST
SERVICE AID IS ALSO UPDATED TO PRINT THIS TIME IN ITS
LISTIDE REPORT.

SPECIAL CONDITIONS:

NONE.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NUMBER 27.
THIS USERMOD WAS CONTRIBUTED BY TOM ARMSTRONG.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES:

HEWLFOUT
AMBLKIDR

*/.

```
++ZAP(HEWLFOUT) DISTLIB(AOS04).  
++ZAP(HMBLKIDR) DISTLIB(AOS12).
```

ZP60028

```
++USERMOD(ZP60028)          /* IMPROVE MODULE HEADER FORMAT */ .  
++VER(Z038) FMID(EBB1102) PRE(UZ60132)  
/*
```

PROBLEM DESCRIPTION:

DUMP FORMAT OF MODULE HEADER HIDES SOME USEFUL CHARACTERS.
UZ60132 SUPPRESSED THE OUTPUT OF UNPRINTABLE CHARACTERS
IN THE FORMATTING OF MODULE HEADERS BY INPLEMENTING
TRANSLATION OF THE ORIGINAL DATA. THE SUPPLIED TRANSLATE
TABLE CONVERTS ALL CHARACTERS TO PERIODS EXCEPT EBCDIC
DECIMAL DIGITS AND UPPER CASE LETTERS.

THIS USERMODS ALLOWS THE OUTPUT OF ALL STANDARD KEYBOARD
CHARACTERS WHILE TRANSLATING THE REST TO THE TILDE OR
"SQUIGGLE" CHARACTER.

SPECIAL CONDITIONS:

ACTION:

A "CLPA" MUST BE PERFORMED AT IPL TIME FOR THIS SYSMOD TO
BECOME ACTIVE.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NUMBER 28.
THIS USERMOD WAS CONTRIBUTED BY TOM ARMSTRONG.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES:

IEAVAD07

*/.

```
++MOD(IEAVAD07) DISTLIB(AOSC5) TXLIB(IEAVAD07).
```

ZP60029

```
++USERMOD(ZP60029)          /* XLATE TRANSLATE TABLES */ .
++VER(Z038) FMID(EDM1102) PRE(UZ54016)
/*
```

PROBLEM DESCRIPTION:

MVS TRANSLATION BETWEEN EBCDIC AND ASCII IS INADEQUATE.
CHARACTER SET TRANSLATION BETWEEN EBCDIC AND ASCII CAN
BE REQUESTED BY THE XLATE MACRO (SVC 103) WHICH IS USED
BY THE SYSTEM WHEN PROCESSING ASCII TAPE LABELS AND WHEN
OPTCD=Q IS SET IN THE DCB FOR ASCII TAPE PROCESSING.

THE EBCDIC-TO-ASCII AND ASCII-TO-EBCDIC TRANSLATE TABLES
ARE HARD-CODED IN SVC 103, BUT THEY TREAT ASCII AS A
7-BIT CHARACTER SET WITH ONLY 128 CODE POINTS. THIS IS
INADEQUATE FOR MOST CURRENT PROCESSING NEEDS WHERE ANSI
IS USUALLY USED. ANSI IS BASED ON ASCII BUT HAS 256
SINGLE-BYTE CODE POINTS (AS DOES EBCDIC).

WHEN CONSTRUCTING TRANSLATE TABLES BETWEEN THE TWO
CHARACTER SETS, ONE DESIGN GOAL NORMALLY ADOPTED
IS THAT THE APPLICATION OF BOTH TRANSLATE TABLES
(IN EITHER ORDER) WILL LEAVE ALL POSSIBLE 256 CODE
POINTS UNCHANGED.

SPECIAL CONDITIONS:

ACTION:

A "CLPA" MUST BE PERFORMED AT IPL TIME FOR THIS SYSMOD TO
BECOME ACTIVE.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NO. 29.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES:

IGC0010C

THE ORIGINAL SOURCE CODE OF THE TRANSLATE TABLES IS
INCLUDED BELOW. NOTE THAT X'1A' IS THE ASCII SUBSTITUTE
CHARACTER, AND X'3F' IS THE EBCDIC SUBSTITUTE CHARACTER.

```
*
*          TABLE FOR TRANSLATING FROM EBCDIC TO ASCII
*
TABA      DC      X'000102031A091A7F'      ASCII TABLE
ENT080FA DC      X'1A1A1A0B0C0D0E0F'      *
ENT1017A DC      X'101112131A1A081A'      *
ENT181FA DC      X'18191A1A1C1D1E1F'      *
ENT2027A DC      X'1A1A1A1A1A0A171B'      *
ENT282FA DC      X'1A1A1A1A1A050607'      *
ENT3037A DC      X'1A1A161A1A1A1A04'      *
ENT383FA DC      X'1A1A1A1A14151A1A'      *
ENT4047A DC      X'201A1A1A1A1A1A1A'      *
ENT484FA DC      X'1A1A5B2E3C282B21'      *
ENT5057A DC      X'261A1A1A1A1A1A1A'      *
ENT585FA DC      X'1A1A5D242A293B5E'      *
ENT6067A DC      X'2D2F1A1A1A1A1A1A'      *
ENT686FA DC      X'1A1A7C2C255F3E3F'      *
ENT7077A DC      X'1A1A1A1A1A1A1A1A'      *
```

ENT787FA	DC	X'1A603A2340273D22'	*
ENT8087A	DC	X'1A61626364656667'	*
ENT888FA	DC	X'68691A1A1A1A1A1A'	*
ENT9097A	DC	X'1A6A6B6C6D6E6F70'	*
ENT989FA	DC	X'71721A1A1A1A1A1A'	*
ENTA0A7A	DC	X'1A7E737475767778'	*
ENTA8AFA	DC	X'797A1A1A1A1A1A1A'	*
ENTB0B7A	DC	X'1A1A1A1A1A1A1A1A'	*
ENTB8BFA	DC	X'1A1A1A1A1A1A1A1A'	*
ENTC0C7A	DC	X'7B41424344454647'	*
ENTC8CFA	DC	X'48491A1A1A1A1A1A'	*
ENTD0D7A	DC	X'7D4A4B4C4D4E4F50'	*
ENTD8DFA	DC	X'51521A1A1A1A1A1A'	*
ENTE0E7A	DC	X'5C1A535455565758'	*
ENTE8EFA	DC	X'595A1A1A1A1A1A1A'	*
ENTF0F7A	DC	X'3031323334353637'	*
ENTF8FFA	DC	X'38391A1A1A1A1A1A'	*
*			
* TABLE FOR TRANSLATING FROM ASCII TO EBCDIC			
*			
TABE	DC	X'00010203372D2E2F'	EBCDIC TABLE
ENT080FE	DC	X'1605250B0C0D0E0F'	*
ENT1017E	DC	X'101112133C3D3226'	*
ENT181FE	DC	X'18193F271C1D1E1F'	*
ENT2027E	DC	X'404F7F7B5B6C507D'	*
ENT282FE	DC	X'4D5D5C4E6B604B61'	*
ENT3037E	DC	X'F0F1F2F3F4F5F6F7'	*
ENT383FE	DC	X'F8F97A5E4C7E6E6F'	*
ENT4047E	DC	X'7CC1C2C3C4C5C6C7'	*
ENT484FE	DC	X'C8C9D1D2D3D4D5D6'	*
ENT5057E	DC	X'D7D8D9E2E3E4E5E6'	*
ENT585FE	DC	X'E7E8E9ADE0BD5F6D'	*
ENT6067E	DC	X'7981828384858687'	*
ENT686FE	DC	X'8889919293949596'	*
ENT7077E	DC	X'979899A2A3A4A5A6'	*
ENT787FE	DC	X'A7A8A9C06AD0A107'	*
ENT8087E	DC	X'3F3F3F3F3F3F3F3F'	*
ENT888FE	DC	X'3F3F3F3F3F3F3F3F'	*
ENT9097E	DC	X'3F3F3F3F3F3F3F3F'	*
ENT989FE	DC	X'3F3F3F3F3F3F3F3F'	*
ENTA0A7E	DC	X'3F3F3F3F3F3F3F3F'	*
ENTA8AFE	DC	X'3F3F3F3F3F3F3F3F'	*
ENTB0B7E	DC	X'3F3F3F3F3F3F3F3F'	*
ENTB8BFE	DC	X'3F3F3F3F3F3F3F3F'	*
ENTC0C7E	DC	X'3F3F3F3F3F3F3F3F'	*
ENTC8CFE	DC	X'3F3F3F3F3F3F3F3F'	*
ENTD0D7E	DC	X'3F3F3F3F3F3F3F3F'	*
ENTD8DFE	DC	X'3F3F3F3F3F3F3F3F'	*
ENTE0E7E	DC	X'3F3F3F3F3F3F3F3F'	*
ENTE8EFE	DC	X'3F3F3F3F3F3F3F3F'	*
ENTF0F7E	DC	X'3F3F3F3F3F3F3F3F'	*
ENTF8FFE	DC	X'3F3F3F3F3F3F3F3F'	*

DATA POINTS WHICH ARE EXPECTED TO BE UNCHANGED BY ANY
LOCAL CUSTOMIZATION ARE USED TO VERIFY THE LOCATION
OF THE TRANSLATE TABLES IN ORDER TO FACILITATE A
REAPPLY WITHOUT THE NEED FOR AN ACTUAL RESTORATION
OF THE ORIGINAL MODULE.

* / .

++ZAP(IGC0010C) DISTLIB(AOSD0).

ZP60030

```
++USERMOD(ZP60030)          /* FIX MF/1 CHANNEL MEASUREMENT */ .
++VER(Z038) FMID(EMF1102)
/*
```

PROBLEM DESCRIPTION:

MF/1 DOES NOT CORRECTLY ACCESS THE CHANNEL AVAILABILITY TABLE.
THE CHANNEL AVAILABILITY TABLE (CAT) HAS MOVED FROM THE
PCCA (WHERE THERE WAS ONE FOR EACH ACTIVE CPU) TO COMMON
STORAGE (SQA). FURTHER, CAT ENTRIES HAVE BEEN EXTENDED
FROM EIGHT BYTES IN LENGTH TO SIXTEEN BYTES IN LENGTH.

THIS USERMOD UPDATES THE MF/1 CHANNEL SAMPLING MODULE
IRBMFECH AND THE MF/1 CHANNEL INITIALIZATION MODULE
IRBMFIHA TO CORRECT ACCESS CAT ENTRIES.

A CONSEQUENCE OF THIS IS THAT TYPE 73 SMF RECORDS WILL
NOW CONTAIN NON-ZERO CHANNEL DATA.

SPECIAL CONDITIONS:

ACTION:

A "CLPA" MUST BE PERFORMED AT IPL TIME FOR THIS SYSMOD TO
BECOME ACTIVE.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NUMBER 30.

REWORK HISTORY:

2011-01-30: INITIAL VERSION.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES:

IRBMFECH
IRBMFIHA

*/.

```
++MOD(IRBMFECH) DISTLIB(ALPALIB) TXLIB(IRBMFECH).
++MOD(IRBMFIHA) DISTLIB(AOSC5) TXLIB(IRBMFIHA).
```

ZP60031

```
++USERMOD(ZP60031)          /* ALLOW STC SMF TYPE 6 AND 26 */ .
++VER(Z038) FMID(EJE1103)
  PRE(UZ31176,UZ33158,UZ35334,UZ37263,UZ52543,UZ54837,UZ57911,
      UZ60375,UZ63374,UZ65742,UZ68537,UZ71437,UZ76165,TJES801)
/*
  PROBLEM DESCRIPTION:
    NO SMF TYPE 6 AND TYPE 26 RECORDS ARE WRITTEN FOR STARTED TASKS.
    SMF CANNOT BE USED TO MONITOR ALL PRINTER AND PUNCH ACTIVITY
    BECAUSE NO TYPE 6 SMF RECORDS CAN BE CREATED TO TRACK STARTED
    TASK OUTPUT.  JES2 PHASE ANALYSIS FROM SMF TYPE 26 RECORD DATA
    CANNOT INCLUDE STARTED TASKS BECAUSE NO CORRESPONDING TYPE 26
    RECORDS CAN BE CREATED.

    THIS USERMOD ALTERS JES2 SO THAT SETTINGS FROM JES2 PARAMETERS
    WHICH CAN REQUEST TYPE 6 AND TYPE 26 SMF RECORDS ARE NOT
    OVERLAID BY HARD-CODED LOGIC.  SPECIFICALLY, NOTYPE6 AND
    NOTYPE26 ARE NO LONGER FORCED ON THE &STC JOB CLASS PARAMETER.
    ALSO, THE NOUSO AND NOUJP SETTINGS ARE NO LONGER FORCED,
    THEREBY ALLOWING AN INSTALLATION TO USE THE IEFUSO AND IEFUJP
    SMF EXITS FOR STARTED TASKS.

    NOTE THAT JOB CLASS SETTINGS SUCH AS THESE ARE ASSIGNED AT
    JCL CONVERSION TIME AND NOT DURING LATER PHASES SUCH AS
    OUTPUT, PRINT AND PURGE.

  SPECIAL CONDITIONS:
    ACTION:
      JES2 MUST BE WARM STARTED FOR THIS CHANGE TO BECOME ACTIVE.

  COMMENTS:
    PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NO. 31.

    THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
    MODULES:
      HASPINIT
*/.
++ SRCUPD  (HASPINIT)  DISTLIB(HASPSRC ).
```

ZP60032

```
++USERMOD(ZP60032)          /* ADD TERMID TO THE GTTERM MACRO */ .  
++VER(Z038) FMID(ETI1106) PRE(UZ44753)  
/*
```

PROBLEM DESCRIPTION:

THE GTTERM MACRO CANNOT EXPLOIT ALL FUNCTIONS OF THE INTERFACE.
THE ZP60009 USERMOD ENHANCED TSO/VTAM TO ALLOW THE SVC 94
GTTERM INTERFACE TO RETURN THE 8-BYTE VTAM LU NAME OF THE
TSO TERMINAL, BUT THE GTTERM MACRO OWNED BY TI0C DOES NOT
SUPPORT THE TERMID OPERAND.

THIS USERMOD ADDS THE TERMID OPERAND TO THE GTTERM MACRO
IN A WAY WHICH IS COMPATIBLE WITH TSO/E.

SPECIAL CONDITIONS:

NONE.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NO. 32.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MACROS:

GTTERM

*/.

```
++MAC(GTTERM) DISTLIB(ATSOMAC) TXLIB(GTTERM).
```

ZP60033

```
++USERMOD(ZP60033)          /* ADD LOC= TO THE GETMAIN MACRO */ .
++VER(Z038) FMID(EBB1102)
/*
  PROBLEM DESCRIPTION:
    THE GETMAIN MACRO DOES NOT TOLERATE A LOC VALUE SPECIFICATION.
    MANY PROGRAMS SPECIFY VIRTUAL STORAGE LOCATIONS OF 24-BIT
    OR 31-BIT WHEN REQUESTING MORE STORAGE FROM THE SYSTEM.
    FURTHER, SOME PROGRAMS SPECIFY THAT WHEN PAGE-FIXED, THE
    NEW STORAGE MAY BE BACKED IN 24-BIT, 31-BIT OR 64-BIT
    ADDRESSABLE REAL STORAGE.  PROGRAMS WITH SUCH LOC VALUES
    CODED WILL NOT BE ASSEMBLED CORRECTLY ON MVS 3.8.

    THIS USERMOD ADDS SUPPORT FOR THE LOC VALUE TO THE GETMAIN
    MACRO.  THE LOC PARAMETER MAY BE SPECIFIED WITH THE RU AND
    RC FORMS OF GETMAIN.

    THE FIRST VALUE OF LOC MAY BE ONE OF THE FOLLOWING LITERALS:
      'BELOW', '24', 'ANY' OR '31'.

    USE 'BELOW' OR '24' TO REQUEST 24-BIT ADDRESSABLE STORAGE.
    USE 'ANY' OR '31' TO REQUEST 31-BIT ADDRESSABLE STORAGE.

    IF SPECIFIED, THE SECOND VALUE OF LOC MAY BE ONE OF:
      'ANY', '31' OR '64'.

    ANY ONE OF THESE THREE VALUES REQUESTS AN OVERRIDE TO THE
    SYSTEM DEFAULT OF BACKING THE STORAGE BELOW THE 16MB LINE
    IN REAL STORAGE IF THE STORAGE IS EVER PAGE-FIXED.

    THIS VERSION OF GETMAIN WILL GENERATE FLAG SETTINGS COMPATIBLE
    WITH MVS/XA.  A SECOND LOC VALUE OF '64' IS TOLERATED BUT IS
    TREATED AS IF '31' HAD BEEN SPECIFIED.

  SPECIAL CONDITIONS:
    NONE.

  COMMENTS:
    PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NO. 33.

  REWORK HISTORY:
    2017-01-26: FIRST SMP VERSION OF THE AUGUST 2016 REVISION
               OF THE MVS/380 VERSION.

    THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
    MACROS:
      GETMAIN
*/.
++MAC(GETMAIN) DISTLIB(AMACLIB) TXLIB(GETMAIN).
```

ZP60034

```
++USERMOD(ZP60034) /* RESOLVE &SYSUID IN JCL */ .
++VER(Z038) FMID(EBB1102) SUP(ZJW0001)
/*
```

PROBLEM DESCRIPTION:

THE &SYSUID SYSTEM SYMBOL IS NOT RESOLVED IN SUBMITTED JCL.

THE &SYSUID SYSTEM SYMBOL CAN BE VERY USEFUL IN REDUCING THE CUSTOMIZATION THAT SHIPPED SAMPLE JCL REQUIRES BEFORE BEING SUBMITTED, BUT THIS IS NOT SUPPORTED BY MVS 3.8.

JOBS SUBMITTED BY TSO USERS DO NOT INHERIT THE USER ID.

USER= AND PASSWORD= MUST MANUALLY BE SUPPLIED BY A TSO USER SUBMITTING BATCH JOBS FOR THE JOBS TO RUN WITH THE USER'S SECURITY PROFILE, WHICH INCREASES THE RISK THAT THE SECRECY OF THE USER'S PASSWORD CAN BECOME COMPROMISED.

THIS USERMOD SHIPS A VERSION OF THE IKJEFF10 EXIT FOR THE TSO SUBMIT COMMAND WHICH APPENDS THE USER AND PASSWORD PARAMETERS TO THE JOB JCL STATEMENT IF NOT ALREADY ADDED IN AN ENVIRONMENT WHERE A SECURITY PRODUCT IS ACTIVE. THIS EXIT HAS BEEN ENHANCED TO RESOLVE THE &SYSUID SYSTEM SYMBOL (WITH TRAILING PERIOD IF PRESENT) WHEN FOUND IN THE OPERANDS (MEANING NOT IN LABELS OR VERBS) OF THE FOLLOWING TYPES OF JCL STATEMENT:

- JOB
- DD
- COMMENT
- COMMAND

THE FOLLOWING TYPES OF JCL STATEMENT ARE IGNORED BY THIS EXIT:

- EXEC
- JES2 JECL
- NULL

NOTE THAT &&SYSUID WILL BE LEFT UNALTERED.

&SYSUID RESOLUTION DOES NOT REQUIRE AN ACTIVE SECURITY PRODUCT.

SPECIAL CONDITIONS:

NONE.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NUMBER 34.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES:

IKJEFF10

*/.

```
++MOD(IKJEFF10) DISTLIB(ACMDLIB) TXLIB(IKJEFF10).
```

ZP60035

```
++USERMOD(ZP60035)          /* FIX LOGREC DEVICE TYPE SUPPORT */ .
++VER(Z038) FMID(EBB1102) PRE(UZ42622)
/*
```

PROBLEM DESCRIPTION:

MVS DOES NOT SUPPORT SYS1.LOGREC ON ALL DASD DEVICE TYPES.
THE DASD DEVICE TYPES THAT THE LOGREC WRITER (SVC 76)
SUPPORTS IS HARD-CODED WITHIN THE MODULE. THIS MEANS THAT
IN ORDER MAINTAIN A FUNCTIONING LOGREC FACILTY THE SYSTEM
RESIDENCE VOLUME IS LIMITED TO THE ORIGINAL SET OF DASD
DEVICE TYPES AND CANNOT BE MIGRATED TO EXPLOIT LARGER VOLUME
GEOMETRIES AS SUPPORT FOR NEWER DEVICES IS ADDED TO MVS.

THIS USERMOD SHIPS A VERSION OF IFBSVC76 WHICH USES THE MVS
TRKCALC SERVICE TO OBTAIN DASD GEOMETRY DEPENDENT DETAILS
INSTEAD OF PRE-CODED VALUES SO THAT NOW IT SUPPORTS ANY
DASD DEVICE TYPE SUPPORTED BY THE SYSTEM.

SPECIAL CONDITIONS:

ACTION:

A "CLPA" MUST BE PERFORMED AT IPL TIME FOR THIS SYSMOD TO
BECOME ACTIVE.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NUMBER 35.

THIS IS SYSMOD NUMBER 1 OF 3 IN A PACKAGE TO GENERALIZE LOGREC
DASD SUPPORT WRITTEN BY TOM ARMSTRONG. ALL 3 SYSMODS SHOULD BE
ACTIVATED IN THE SAME IPL. THE SYSMOD DETAILS ARE:

USERMOD	MODULE	FMID	COMP	MODULE FUNCTION
ZP60035	IFBSVC76	EBB1102	BCP	LOGREC WRITER
ZP60036	IFCDIP00	FBB1221	SU64	LOGREC INITIALIZATION
ZP60037	IFCIOHND	EER1400	EREP	EREP I/O SERVICES

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
MODULES:

IFBSVC76

*/.

```
++MOD(IFBSVC76) DISTLIB(ALPALIB) TXLIB(IFBSVC76).
```

ZP60036

```
++USERMOD(ZP60036)          /* FIX LOGREC DEVICE TYPE SUPPORT */ .
++VER(Z038) FMID(FBB1221) PRE(UZ53051)
/*
```

PROBLEM DESCRIPTION:

MVS DOES NOT SUPPORT SYS1.LOGREC ON ALL DASD DEVICE TYPES.
THE DASD DEVICE TYPES THAT THE LOGREC INITIALIZATION
SUPPORTS IS HARD-CODED WITHIN THE MODULE. THIS MEANS THAT
IN ORDER MAINTAIN A FUNCTIONING LOGREC FACILTY THE SYSTEM
RESIDENCE VOLUME IS LIMITED TO THE ORIGINAL SET OF DASD
DEVICE TYPES AND CANNOT BE MIGRATED TO EXPLOIT LARGER VOLUME
GEOMETRIES AS SUPPORT FOR NEWER DEVICES IS ADDED TO MVS.

THIS USERMOD SHIPS A VERSION OF IFCDIP00 WHICH USES THE MVS
TRKCALC SERVICE TO OBTAIN DASD GEOMETRY DEPENDENT DETAILS
INSTEAD OF PRE-CODED VALUES SO THAT NOW IT SUPPORTS ANY
DASD DEVICE TYPE SUPPORTED BY THE SYSTEM.

SPECIAL CONDITIONS:

NONE.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NUMBER 36.

THIS IS SYSMOD NUMBER 2 OF 3 IN A PACKAGE TO GENERALIZE LOGREC
DASD SUPPORT WRITTEN BY TOM ARMSTRONG. ALL 3 SYSMODS SHOULD BE
ACTIVATED IN THE SAME IPL. THE SYSMOD DETAILS ARE:

+-----+-----+-----+-----+-----+-----+					
USERMOD	MODULE	FMID	COMP	MODULE FUNCTION	
+-----+-----+-----+-----+-----+-----+					
ZP60035	IFBSVC76	EBB1102	BCP	LOGREC WRITER	
ZP60036	IFCDIP00	FBB1221	SU64	LOGREC INITIALIZATION	
ZP60037	IFCIOHND	EER1400	EREP	EREP I/O SERVICES	
+-----+-----+-----+-----+-----+-----+					

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES:

IFCDIP00

*/.

```
++MOD(IFCDIP00) DISTLIB(AOSCD) TXLIB(IFCDIP00).
```

ZP60037

```
++USERMOD(ZP60037)          /* FIX LOGREC DEVICE TYPE SUPPORT */ .
++VER(Z038) FMID(EER1400)
/*
```

PROBLEM DESCRIPTION:

MVS DOES NOT SUPPORT SYS1.LOGREC ON ALL DASD DEVICE TYPES.
THE DASD DEVICE TYPES THAT EREP I/O SERVICES SUPPORTS IS
HARD-CODED WITHIN THE MODULE. THIS MEANS THAT IN ORDER TO
MAINTAIN A FUNCTIONING LOGREC FACILTY THE SYSTEM RESIDENCE
VOLUME IS LIMITED TO THE ORIGINAL SET OF DASD DEVICE TYPES
AND CANNOT BE MIGRATED TO EXPLOIT LARGER VOLUME GEOMETRIES
AS SUPPORT FOR NEWER DEVICES IS ADDED TO MVS.

THIS USERMOD SHIPS A VERSION OF IFCIOHND WHICH USES THE MVS
TRKCALC SERVICE TO OBTAIN DASD GEOMETRY DEPENDENT DETAILS
INSTEAD OF PRE-CODED VALUES SO THAT NOW IT SUPPORTS ANY
DASD DEVICE TYPE SUPPORTED BY THE SYSTEM.

SPECIAL CONDITIONS:

NONE.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NUMBER 37.

THIS IS SYSMOD NUMBER 3 OF 3 IN A PACKAGE TO GENERALIZE LOGREC
DASD SUPPORT WRITTEN BY TOM ARMSTRONG. ALL 3 SYSMODS SHOULD BE
ACTIVATED IN THE SAME IPL. THE SYSMOD DETAILS ARE:

+-----+-----+-----+-----+-----+-----+					
USERMOD	MODULE	FMID	COMP	MODULE FUNCTION	
+-----+-----+-----+-----+-----+-----+					
ZP60035	IFBSVC76	EBB1102	BCP	LOGREC WRITER	
ZP60036	IFCDIP00	FBB1221	SU64	LOGREC INITIALIZATION	
ZP60037	IFCIOHND	EER1400	EREP	EREP I/O SERVICES	
+-----+-----+-----+-----+-----+-----+					

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
MODULES:

IFCIOHND

*/.

```
++MOD(IFCIOHND) DISTLIB(AOSCD) TXLIB(IFCIOHND).
```


ZP60038

```
++USERMOD(ZP60038) REWORK(20190727) /* ADD CLIST VARIABLE API */ .
++VER(Z038) FMID(EBB1102)
  PRE(UY01301,ZP60014)
/*
  PROBLEM DESCRIPTION:
    THERE IS NO PROGRAMATIC INTERFACE FOR CLIST VARIABLE PROCESSING.
    APPLICATIONS RUNNING IN A TSO CLIST ENVIRONMENT HAVE NO
    SUPPORTED METHOD OF RETRIEVING OR SETTING THE VALUES OF CLIST
    SYMBOLIC VARIABLES.

    THIS USERMOD SUPPLIES A NEW MODULE CALLED IKJCT441 WHICH
    PROVIDES AN API TO ALLOW PROGRAMS TO PROCESS CLIST SYMBOLIC
    VARIABLES.  THE PARAMETER LIST AND RETURN CODE INTERFACE IS
    COMPATIBLE WITH THAT OF THE IKJCT441 MODULE IN IBM'S TSO/E.

  SPECIAL CONDITIONS:
    ACTION:
      A "CLPA" MUST BE PERFORMED AT IPL TIME FOR THIS SYSMOD TO
      BECOME ACTIVE.

      THE MODULE SUPPLIED IN THIS SYSMOD CALLS AN ENTRY POINT
      CREATED BY SYSMOD ZP60014.

  COMMENTS:
    PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NUMBER 38.

    REWORK HISTORY:
      2018-01-20: INITIAL AVAILABILITY.
      2019-07-27: ALLOW A RETRIEVE/CREATE REQUEST TO SET A NON-NULL
                   INITIAL VALUE WHEN THE SYMBOL IS BEING CREATED.

    THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
    MODULES:
      IKJCT441
    MACROS:
      SGIKJ441
  */.
++JCLIN.
++MOD(IKJCT441) DISTLIB(AOST4) TXLIB(IKJCT441).
++MACUPD(SGIKJ441) DISTLIB(AGENLIB).
```

ZP60039

```
++USERMOD(ZP60039)   REWORK(20220308)   .
++VER(Z038) FMID(FBB1221)
  PRE(UZ62088,UZ31484)
  REQ(ZP60040)
  SUP(ZUM0013,TMVS805)
/*
  PROBLEM DESCRIPTION:
    MESSAGE TEXT SUPPLIED TO THE WTO AND WTOR MACROS MUST BE INLINE.
    APPLICATIONS ISSUING WTO MESSAGES CANNOT SPECIFY DISPLAY
    TEXT WHICH IS REMOTE, THAT IS, NOT PHYSICALLY LOCATED
    WITHIN THE WTO OR WTOR PARAMETER LIST.

    CHANGES MADE BY THIS SYSMOD INCLUDE:
      - ENHANCE THE IEZWPL MACRO TO DESCRIBE THE EXTENDED WTO
        PARAMETER LIST (XWPL).
      - ENHANCE THE WTO MACRO TO ACCEPT THE TEXT= OPERAND AND
        CONSTRUCT A WPL OR XWPL AS REQUIRED.
      - ADD SUPPORT FOR THE XWPL INTO IEAVVWTO (SVC 35) AND
        IEAVMWTO (SVC 35 MULTI-LINE WTO SERVICE ROUTINE).
      - ALWAYS COPY THE WPL OR XWPL TO PROTECTED STORAGE,
        INSTEAD OF ONLY FOR UNAUTHORIZED CALLERS.
      - IMPROVED WPL VALIDATION TO AVOID INTERNAL ERRORS AND
        ISSUE SD23 ABENDS IN ACCORDANCE WITH DOCUMENTATION.
      - IMPROVE WTO MESSAGE CHARACTER RENDERING BY DISPLAYING
        MOST STANDARD KEYBOARD CHARACTERS UNTRANSLATED, AND
        SHOWING OTHER CODE POINTS AS A TILDE INSTEAD OF A BLANK.
      - SUBSUME THE FUNCTION OF USERMOD TMVS805 - ALSO WIDELY
        SHIPPED AS USERMOD ZUM0013 - BY KEVIN LEONARD, MAINLY
        BECAUSE THAT USERMOD WOULD NEED TO BE ADAPTED TO FIT THE
        UPDATES SHIPPED HERE.  THE TMVS805/ZUM0013 FUNCTION IS:
          - ALLOW IEECVXIT TO ACCESS "INTERNAL" MESSAGES, THEREBY
            FACILIATING MORE POWERFUL AUTOMATED OPERATIONS.
          - PREVENT HARDCOPY OF DELETED MESSAGES.
        NOTE THAT THE TMVS805/ZUM0013 CHANGES CAN BE DEACTIVATED
        BY ALTERING A SWITCH IN THE IEAVVWTO SOURCE CODE AND
        RECOMPILING.

    SPECIAL CONDITIONS:
      ACTION:
        A "CLPA" MUST BE PERFORMED AT IPL TIME FOR THIS SYSMOD TO
        BECOME ACTIVE.

    COMMENTS:
      PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NUMBER 39.

    REWORK HISTORY:
      2018-08-20: INITIAL AVAILABILITY.
      2020-08-18: SILENTLY TRUNCATE EXCESSIVELY LONG TEXT.
      2022-03-08: REMOVE A BLANK LINE FROM THE WTO MACRO.
```

THIS IS SYSMOD NUMBER 1 OF 2 IN A PACKAGE TO SUPPORT TEXT= ON
WTO AND WTOR MACROS DEVELOPED BY TOM ARMSTRONG. BOTH SYSMODS
SHOULD BE ACTIVATED IN THE SAME IPL. THE SYSMOD DETAILS ARE:

I	USERMOD	I	FMID	I	COMP	I	PART	I	DESCRIPTION	I
+	-----	+	-----	+	-----	+	-----	+	-----	+

```

I ZP60039 I FBB1221 I SU64 I IEAVMWTO I MLWTO SERVICE ROUTINE I
I          I          I      I IEAVVWTO I WTO/WTOR PROCESSOR   I
I          I          I      I IEZWPL   I WTO PARAMETER LIST   I
I          I          I      I WTO      I INVOKE WTO SERVICE    I
+-----+-----+-----+-----+-----+
I ZP60040 I EBB1102 I BCP   I IGC0203E I WRITE TO PROGRAMMER  I
I          I          I      I WTOR      I INVOKE WTOR SERVICE  I
+-----+-----+-----+-----+-----+

```

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
MODULES:

IEAVMWTO
IEAVVWTO

MACROS:

IEZWPL
WTO

*/.

++MAC(IEZWPL) DISTLIB(AMODGEN) TXLIB(IEZWPL).

++MAC(WTO) DISTLIB(AMACLIB) TXLIB(WTO).

++MOD(IEAVMWTO) DISTLIB(AOSC5) TXLIB(IEAVMWTO).

++MOD(IEAVVWTO) DISTLIB(AOSC5) TXLIB(IEAVVWTO).

++USERMOD(ZP60040) REWORK(20230509)

++VER(Z038) FMID(EBB1102)

PRE(UY13810) .

++IF FMID(FBB1221) REQ(ZP60039)

/* ADD TEXT= TO WTO AND WTOR.

PROBLEM DESCRIPTION:

MESSAGE TEXT SUPPLIED TO THE WTO AND WTOR MACROS MUST BE INLINE.

APPLICATIONS ISSUING WTO MESSAGES CANNOT SPECIFY DISPLAY
TEXT WHICH IS REMOTE, THAT IS, NOT PHYSICALLY LOCATED
WITHIN THE WTO OR WTOR PARAMETER LIST.

THIS SYSMOD ENHANCES WTP (WRITE TO PROGRAMMER) TO SUPPORT
THE EXTENDED WTO PARAMETER LIST (XWPL), AND CHANGES THE
WTOR MACRO TO ACCEPT THE TEXT= OPERAND AND BUILD A WPL
OR XWPL AS REQUIRED.

SPECIAL CONDITIONS:

ACTION:

A "CLPA" MUST BE PERFORMED AT IPL TIME FOR THIS SYSMOD TO
BECOME ACTIVE.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NUMBER 40.

REWORK HISTORY:

2018-08-20: INITIAL AVAILABILITY.

2019-04-22: FIX TPUT OF WTP IN IGC0203E.

2020-08-18: SILENTLY TRUNCATE EXCESSIVELY LONG TEXT.

2022-03-08: REMOVE A BLANK LINE FROM THE WTOR MACRO.

2023-05-09: MOVE LABEL .MFE6C UP 1 LINE TO UNLABELLED ANOP.

THIS IS SYSMOD NUMBER 2 OF 2 IN A PACKAGE TO SUPPORT TEXT= ON
WTO AND WTOR MACROS DEVELOPED BY TOM ARMSTRONG. BOTH SYSMODS
SHOULD BE ACTIVATED IN THE SAME IPL. THE SYSMOD DETAILS ARE:

```

+-----+-----+-----+-----+-----+
I USERMOD I FMID      I COMP I PART      I DESCRIPTION          I
+-----+-----+-----+-----+-----+
I ZP60039 I FBB1221 I SU64 I IEAVMWTO I MLWTO SERVICE ROUTINE I
I          I          I      I IEAVVWTO I WTO/WTOR PROCESSOR   I
I          I          I      I IEZWPL   I WTO PARAMETER LIST   I

```

```

I          I          I      I WTO      I INVOKE WTO SERVICE  I
+-----+-----+-----+-----+-----+
I ZP60040 I EBB1102 I BCP  I IGC0203E I WRITE TO PROGRAMMER  I
I          I          I      I WTOR      I INVOKE WTOR SERVICE  I
+-----+-----+-----+-----+-----+

```

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES:

IGC0203E

MACROS:

WTOR

*/.

```

++MAC(WTOR) DISTLIB(AMACLIB)      TXLIB(WTOR).
++MOD(IGC0203E) DISTLIB(AOSB3)    TXLIB(IGC0203E).

```

ZP60040

```
++USERMOD(ZP60040)  /*
```

```
    This usermod belongs to the couple ZP60039 and ZP60040
```

```
    The function of ZP60040 is described in the coverletter  
    of ZP60039
```

```
*/.
```

ZP60041

```
++USERMOD(ZP60041)                /* ADD INDIRECT CATALOGING */ .
++VER(Z038) FMID(FBB1221)
  PRE(UZ50553,UZ56782)
/*
```

PROBLEM DESCRIPTION:

THERE IS NO WAY TO CATALOG A DATA SET ON "THE CURRENT SYSRES". CATALOG ENTRIES FOR SINGLE-VOLUME NON-VSAM DATA SETS SPECIFY THE DEVICE TYPE AND THE VOLUME SERIAL NUMBER. THERE IS NO WAY TO INDICATE THAT THE DATA SET WILL BE FOUND ON WHICHEVER VOLUME HAPPENS TO BE THE CURRENT IPL OR SYSTEM RESIDENCE VOLUME.

THIS USERMOD UPDATES ALLOCATION'S VOLUME/UNIT TABLE COMPLETION ROUTINE TO RECOGNISE THAT WHEN THE VOLUME SERIAL IN THE CATALOG ENTRY OF A SINGLE-VOLUME NON-VSAM DATA SET IS SIX ASTERISKS, THE DEVICE TYPE AND VOLUME SERIAL SHOULD BE RESOLVED TO BE THAT OF THE CURRENT SYSTEM RESIDENCE VOLUME.

NOTE THAT WITH NO CHANGE TO IDCAMS, A COMMAND SIMILAR TO
DEFINE NONVSAM(NAME(DS.NAME) VOLUME(*****) DEVT(3350))
WILL BE SUCCESSFULLY PERFORMED FOR VSAM (BUT NOT OS SYSCTLG OR CVOL) CATALOGS.

UNLIKE MVS/SP, DEVT(0000) IS NOT SUPPORTED - A VALID DEVICE TYPE MUST BE SPECIFIED. ANY SPECIFIED DEVICE TYPE IS REPLACED BY THE IPL VOLUME'S DEVICE TYPE WHEN THE SIX ASTERISKS ARE REPLACED BY THE IPL VOLUME'S VOLUME SERIAL NUMBER.

PROBLEM DESCRIPTION:

EACH VOLUME MUST BE NAMED IN PARMLIB TO SET MOUNT ATTRIBUTES. EVERY VOLUME REQUIRING NON-DEFAULT MOUNT ATTRIBUTES MUST BE EXPLICITLY NAMED IN THE ACTIVE VATLST MEMBER OF SYS1.PARMLIB. THERE IS NO PROVISION TO ASSIGN ATTRIBUTES TO A GROUP OF DASD VOLUMES WITH A SINGLE SPECIFICATION IN VATLST.

THIS USERMOD UPDATES THE VOLUME ATTRIBUTE PROCESSOR (IEAVAP00) TO ACCEPT GENERIC MASKS SUCH THAT A SINGLE VATLST STATEMENT CAN ASSIGN THE SPECIFIED MOUNT ATTRIBUTES TO EVERY ONLINE DASD VOLUME WITH A SERIAL NUMBER MATCHING THE MASK (AND WITH A MATCHING DEVICE TYPE).

GENERIC MASKS FOR VOLUME SERIAL NUMBERS MAY CONTAIN ASTERISKS AND PERCENT SIGNS WHERE EACH ASTERISK REPRESENTS A GROUP OF ZERO OR MORE CHARACTERS AND EACH PERCENT SIGN REPRESENTS EXACTLY ONE CHARACTER. VOLUME SERIAL CHARACTERS CORRESPONDING TO THESE MASKING CHARACTERS IN A COMPARE WILL BE CONSIDERED TO MATCH.

CONSECUTIVE ASTERISKS SHOULD NOT BE CODED EXCEPT FOR THE SPECIAL MASK OF SIX ASTERISKS WHICH CAN BE USED TO SPECIFY THE CURRENT IPL (OR SYSTEM RESIDENCE) VOLUME.

TO SPECIFY AN EXACT VOLUME SERIAL CONTAINING AN ASTERISK OR PERCENT SIGN, CODE AN 'S' IN COLUMN 7 INSTEAD OF A COMMA.

THE ONLY GENERIC MASK RECOGNISED FOR THE DEVICE TYPE FIELD IS

A SINGLE ASTERISK WHICH SPECIFIES THAT ALL DASD DEVICE TYPES ARE ACCEPTABLE. THIS DEVICE TYPE GENERIC MASK CAN BE USED ON VATLST STATEMENTS WITH A SPECIFIC OR A GENERIC VOLUME SERIAL.

IEA166I NO VOLUME MATCH
IS A NEW MESSAGE ISSUED WHEN NO VOLUMES WERE FOUND TO MATCH A GENERIC VOLUME MASK.

IEA855I MESSAGES WILL CONTINUE TO BE GENERATED WHEN NO VOLUMES MATCH A SPECIFICALLY NAMED VOLUME.

SPECIAL CONDITIONS:

ACTION:

THIS SYSMOD SHOULD BE ACTIVATED SIMULTANEOUSLY WITH ZP60042.
A "CLPA" MUST BE PERFORMED AT IPL TIME FOR THIS SYSMOD TO BECOME ACTIVE.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NUMBER 41.
IEFAB464 CHANGES CONTRIBUTED BY GREG PRICE.
IEAVAP00 CHANGES CONTRIBUTED BY TOM ARMSTRONG.

REWORK HISTORY:

2021-11-05: INITIAL AVAILABILITY.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES:

IEFAB464
IEAVAP00

*/.

```
++MOD(IEFAB464) DISTLIB(AOSB3) TXLIB(IEFAB464).  
++MOD(IEAVAP00) DISTLIB(AOSC5) TXLIB(IEAVAP00).  
++USERMOD(ZP60042) REWORK(20230628) /* ADD INDIRECT CATALOGING */.  
++VER(Z038) FMID(EDM1102)  
PRE(UZ50553,UZ72608,UZ65674)  
SUP(M096220)  
/*
```

PROBLEM DESCRIPTION:

THERE IS NO WAY TO CATALOG A DATA SET ON "THE CURRENT SYSRES".
CATALOG ENTRIES FOR SINGLE-VOLUME NON-VSAM DATA SETS SPECIFY THE DEVICE TYPE AND THE VOLUME SERIAL NUMBER. THERE IS NO WAY TO INDICATE THAT THE DATA SET WILL BE FOUND ON WHICHEVER VOLUME HAPPENS TO BE THE CURRENT IPL OR SYSTEM RESIDENCE VOLUME.

THIS USERMOD UPDATES SVC 26 TO OVERLAY THE RESULTS OF A LOCATE FOR A SINGLE-VOLUME DATA SET WHERE THE CATALOG ENTRY HAS A VOLUME SERIAL OF SIX ASTERISK. THE RESULT IS UPDATED SO THAT THE DEVICE TYPE AND THE VOLUME SERIAL INDICATE THE CURRENT IPL OR SYSTEM RESIDENCE VOLUME.

SPECIAL CONDITIONS:

ACTION:

A "CLPA" MUST BE PERFORMED AT IPL TIME FOR THIS SYSMOD TO BECOME ACTIVE.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NUMBER 42.

REWORK HISTORY:

2020-06-07: INITIAL AVAILABILITY.
2023-06-04: REMOVE LPA/NON-LPA CALLER DIFFERENTIATION.
2023-06-06: RECOGNIZE SYSTEM CALLERS IN A USER TASK.
2023-06-28: FIX MODULE IGG0CLBG DELETING DATASETS,
CATALOGED WITH VOL(*****).

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES:

IGG026DU

PROBLEM DESCRIPTION(S):

M096220 -

MsgIEA326I LOCATE FAILED FOR SYS1.LINKLIB and wait00A during
NIP when master catalog is on D/T3375, 3380 or 3390.

NIP LOCATE routine IEAVNP12 subroutine GETTRNM is called to
read the true name record for the target of a LOCATE. It
searches the catalog index to find the correct pointer to
the true name CI in the data component and builds the RBA
of the target data CI. When building the RBA, GETTRNM
incorrectly calculates the value using the index component
CI size instead of the data component CI size. No problem
results as long as index and data component have the same
CI size, as with a catalog on 3350. For 3375s, 3380s and
3390s, VSAM selects different CI sizes for catalog index
and data components, so the calculated value is wrong, an
incorrect data record is read and the LOCATE fails. When
LOCATE fails for SYS1.LINKLIB, the result is msgIEA326I
and wait00A.

IEAVNP12 subroutine GETTRNM is changed to use the correct
CI size when calculating the true name CI RBA.

While this usermod is not required for correct operation
of IEAVNP12 with a master catalog on devices other than 3375,
3380 or 3390, it will produce the correct results regardless
of catalog device type.

COMPONENT: 5752-SC1DE-EDM1102

SPECIAL CONDITIONS:

ACTION: An IPL is required after installation of this user
modification.

REWORK HISTORY:

2009/06/25: MVS 3.8J DASD extensions 1.02

CROSS REFERENCE-MODULE/MACRO NAMES TO USERMODS

IEAVNP12 M096220

CROSS REFERENCE-USERMODS TO MODULE/MACRO NAMES

M096220 IEAVNP12

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES

IEAVNP12

PROBLEM DESCRIPTION:

MSGIDC3009I RC=136, RSN=40 trying to delete NONVSAM datasets
cataloged with DEVT(uuuu) VOL(*****).

MODULE IGG0CLBG is corrected with a test of 6 stars in the volume of the NONVSAM entry. These are replaced by the current SYSRES volume and device type before deleting the dataset.

COMPONENT: 5752-SC1DE-EDM1102

SPECIAL CONDITIONS:

ACTION: An IPL with CLPA is required.

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:

MODULES

IGG0CLBG

COMMENTS:

LAST CHANGE: 2023/06/28

IEAVNP12 CHANGES CONTRIBUTED BY KEVIN LEONARD.

IGG026DU CHANGES CONTRIBUTED BY GREG PRICE.

IGG0CLBG CHANGES CONTRIBUTED BY ROB PRINS.

LISTEND

*/.

++MOD(IEAVNP12) DISTLIB(AOSC5) TXLIB(IEAVNP12).

++MOD(IGG026DU) DISTLIB(AOSD0) TXLIB(IGG026DU).

++ZAP(IGG0CLBG) DISTLIB(AOSA0).

++USERMOD(ZP60043) REWORK(20231007) /* RESOLVE SYSRES FOR APF */.

++VER(Z038) FMID(EBB1102)

PRE(UZ60307,UZ84276)

/*

PROBLEM DESCRIPTION:

THERE IS NO WAY TO SPECIFY THE IPL VOLUME FOR AN APF LIBRARY. ENTRIES FOR APF AUTHORIZED LIBRARIES IN THE IEAAPFX MEMBER OF SYS1.PARMLIB MUST SPECIFY THE ACTUAL VOLUME SERIAL OF THE LIBRARY, WHICH IS NOT CONDUCIVE TO RELIABLY CLONING SYSTEM RESIDENCE VOLUMES FOR ALTERNATE IPL CONFIGURATIONS.

THIS USERMOD FROM TOM ARMSTRONG UPDATES THE APF TABLE INITIALIZATION ROUTINE TO RECOGNIZE THAT A VOLUME SPECIFICATION OF SIX ASTERISKS INDICATES THE CURRENT IPL OR SYSTEM RESIDENCE VOLUME. THE ACTUAL IPL VOLUME SERIAL WILL BE SUBSTITUTED INTO THE TABLE AT IPL TIME.

MODULE IEFAB458

IMPLEMENT ***** NOTATION FOR THE CURRENT SYSTEMS RESIDENCE VOLUME WHEN DCB=DATASETNAME IS CODED ON JCL STATEMENTS WHERE THE PROVIDED DATASETNAME IS CATALOGED ON THE SYSTEMS RESIDENCE VOLUME USING ***** TO SPECIFY THE VOLUME.

SPECIAL CONDITIONS:

ACTION:

AN IPL MUST BE PERFORMED FOR THIS SYSMOD TO BECOME ACTIVE.

COMMENTS:

PRYCROFT SIX P/L PUBLIC DOMAIN USERMOD FOR MVS 3.8 NUMBER 43.

REWORK HISTORY:

2021-11-05: INITIAL AVAILABILITY.

2023-10-07: TOM ARMSTRONG: ADD THE SIX STARS FIX IN

THE OBTAIN IN MODULE IEFAB458

THE FOLLOWING MODULES AND/OR MACROS ARE AFFECTED BY THIS USERMOD:
MODULES:

IEAVNPA5
IEFAB458

*/.

++MOD(IEAVNPA5) DISTLIB(AOSC5) TXLIB(IEAVNPA5).
++MOD(IEFAB458) DISTLIB(AOSB3) TXLIB(IEFAB458).

ZP60042

```
++USERMOD(ZP60042)  /*
```

```
    This usermod belongs to the triplet ZP60041, ZP60042  
    and ZP60043
```

```
    The function of ZP60042 is described in the coverletter  
    of ZP60041
```

```
*/.
```

ZP60043

```
++USERMOD(ZP60043)  /*
```

```
    This usermod belongs to the triplet ZP60041, ZP60042  
    and ZP60043
```

```
    The function of ZP60043 is described in the coverletter  
    of ZP60041
```

```
*/.
```

ZUM0001

```
++ USERMOD(ZUM0001) REWORK(20230201)      .  
++ VER(Z038)  
   FMID(EBB1102)  
   .  
++ MOD(IKJEFTE2)  
   DISTLIB(AOST4)  
   TXLIB(IKJEFTE2)  
   .
```

ZUM0002

```
++USERMOD (ZUM0002).  
++VER (Z038) FMID(EBB1102).  
++MOD(IEFACTRT) TXLIB(IEFACTRT).
```

ZUM0005

```
++USERMOD (ZUM0005) /*  
    DESC: Install USERMOD ZUM0005 to modify generation of MSTRJCL  
          JES2 will no longer be automagically be started  
          */.  
++VER (Z038) FMID(EBB1102).  
++MACUPD(SGIEE0MS).
```

ZUM0007

```
++USERMOD (ZUM0007) /*  
    Desc: INSTALL USERMOD ZUM0007  
          Y2K patch (by Michael Koehne  
          */.  
++VER (Z038) FMID(EBB1102)  
    PRE(UY17588 UZ27405).  
++ ZAP (IKJEFLA) .  
++ ZAP (IKJEFT25) .
```


ZUM0014

```
++ USERMOD(ZUM0014).  
++ VER(Z038)  
    FMID(EBB1102)  
    PRE(UZ78841)  
    .  
++ MOD(IKJEFTE8)  
    DISTLIB(AOST4)  
    TXLIB(IKJEFTE8).
```

ZUM0015

```
++USERMOD (ZUM0015) /* SET CONSOLES TO ROLL-DELETE MODE SP 3
   DESC: Install USERMOD ZUM0015 (put consoles in RD mode at IPL)
       */.
++VER (Z038) FMID(EBB1102) PRE(UZ35148,UZ34427).
++ZAP(IEECVETC) DISTLIB(A0SC5).
++UPDTE (IEECD CM) .
```