



16

RACF

May 1999

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update

RACF Update

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Editor

Robert Burgess

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A year's subscription to *RACF Update*, comprising four quarterly issues, costs £190.00 in the UK; \$290.00 in the USA and Canada; £196.00 in Europe; £202.00 in Australasia and Japan; and £200.50 elsewhere. In all cases the price includes postage. Individual issues, starting with the August 1995 issue, are available separately to subscribers for £50.50 (\$77.50) each including postage.

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Printed in England.

Deleting RACF profiles

Have you ever encountered a RACF profile that could not be deleted? Under CICS protected by RACF, users can type a '‡' and the RACF profile cannot be deleted by an RDELETE command. The solution is to use the following RACFDGEN Assembler program and RACFEXEC.

RACFDGEN

```
//*
//ASM EXEC ASMACL,MAC1='SYS1.MODGEN',PARM.LKED='AC=1'
//ASM.SYSIN DD *
RACFDGEN CSECT ,
RACFDGEN AMODE 31                COMMAND'S ADDRESSING MODE
RACFDGEN RMODE ANY              COMMAND'S RESIDENCY MODE
RACFDGEN CSECT
*
* RACFDGEN : PGM ASM
*          DELETION OF A RACF RESOURCE
*
R0      EQU    0
R1      EQU    1
R2      EQU    2
R3      EQU    3
R4      EQU    4
R5      EQU    5
R6      EQU    6
R7      EQU    7
R8      EQU    8
R9      EQU    9
R10     EQU    10
R11     EQU    11
R12     EQU    12
R13     EQU    13
R14     EQU    14
R15     EQU    15
*
      USING RACFDGEN,R12,R11
      SAVE (14,12),,RACFDGEN.&SYSDATE  SAVE REGISTERS
      LR   R12,R15                      |
      LA   R11,4095(R12)                 |  INITIALIZATION OF BASE REGISTERS
      LA   R11,1(R11)                   |
      LR   R2,R13                        |  ADDRESS OF PRECEDING SAVEAREA
      LA   R13,SAVEAREA                 |  ADDRESS OF PROGRAM SAVEAREA
      ST   R13,8(R2)                    |  CREATION OF POINTERS FOR
      ST   R2,4(R13)                    |  SAVEAREA CHAIN
```

```

*
*
*      START OF PROGRAM
*
*****
*      RESOURCE DEFINED UNDER RACF?
*****
TSTGRESS DS      ØH
          WTO      '  '
          WTO      'RACFDGEN '
*
*      CLASS OF THE RESOURCE TO BE DELETED
          MVC      WCLASS(8),=C'STARTED '
*
*      LENGTH OF NAME OF THE RESOURCE TO BE DELETED
          MVC      WGRESSL(1),=FL1'6'
*
*      NAME OF RESOURCE TO BE DELETED
          MVC      WGRESS(6),=C'CIC*.*'
*
          LA      R8,FINWA1
          LA      R15,WRKAREA1
          SR      R8,R15
          ST      R8,WRKAREA1
          XC      WA1(FINWA1-WA1),WA1
LOCRESS  ICHEINTY LOCATE,TYPE='GEN',
          GENERIC=NO,
          ENTRY=WGRESSL,          FUNCTION
          CLASS=WCLASS,          CLASS-ID
          WKAREA=WRKAREA1,      WRKAREA
          RELEASE=(2.1),MF=I
*
          RELEASE=(1.8),DATAMAP=OLD,MF=I
*
TESTRF1  DS      ØH          CHECK RETURN CODE
          ST      RØ,RETCODEØ
          ST      R15,RETCODEF
          CH      R15,=XL2'ØC'          RC > ØC (12) -> ERREUR
          BH      ERRORICH
          B      BRCHTBL1(R15)
BRCHTBL1 DS      ØH          CHECK RETURN CODE
          B      DELGRESS  X'ØØ'      OK, FUNCTION FOUND
          B      ERRORICH  X'Ø4'      INVALID CODE
          B      ERRORICH  X'Ø8'      EXISTING ENTRY
          B      GRESSNF1  X'ØC'      ENTRY NOT FOUND
*
*
*****
*      DELETION OF THE RESOURCE
*****
DELGRESS DS      ØH
          WTO      'RACFDGEN : RESOURCE FOUND'
DELRESS  ICHEINTY DELETE,TYPE='GEN',

```

```

                GENERIC=NO,                                X
                ENTRY=WGRESSL,                            RESOURCE X
                CLASS=WCLASS,                             CLASS-ID  X
                RELEASE=(2.1),MF=I
*
*
TESTRF2  DS      0H                                CHECK  RETURN CODE
          ST      R0,RETCODE0
          ST      R15,RETCODEF
          CH      R15,=XL2'0C'                      RC > 0C (12) -> ERROR
          BH      ERRORICH
          B       BRCHTBL2(R15)
BRCHTBL2 DS      0H                                CHECK  RETURN CODE
          B       DELETEOK   X'00'                   OK, DELETION OK
          B       ERRORICH   X'04'                   INVALID CODE
          B       ERRORICH   X'08'                   EXISTING ENTRY
          B       GRESSNF2   X'0C'                   ENTRY NOT FOUND
*
01820506
DELETEOK DS      0H
          WTO     'RACFDGEN : DELETION COMPLETED'
*
*
* NORMAL END OF PROGRAM
FIN      DS      0H
          L       R13,SAVEAREA+4                     RESTORATION OF REGISTER 13
          RETURN (14,12),T,RC=0                     RETURN TO MVS
*
* NORMAL END OF PROGRAM
GRESSNF1 DS      0H
          WTO     'RACFDGEN : RESOURCE NOT FOUND 1'
          ABEND  1001,DUMP
          L       R13,SAVEAREA+4                     RESTORATION OF REGISTER 13
          RETURN (14,12),T,RC=1                     RETURN TO MVS
*
* FIN NORMALE DU PROGRAMME.
GRESSNF2 DS      0H
          WTO     'RACFDGEN : RESOURCE NOT FOUND 2'
          ABEND  1002,DUMP
          L       R13,SAVEAREA+4                     RESTORATION OF REGISTER 13
          RETURN (14,12),T,RC=2                     RETURN TO MVS
*
*
* END OF PROGRAM WITH ERROR
ERRORICH DS      0H
          WTO     'RACFDGEN: SERIOUS PROBLEM'
          ABEND  1111,DUMP
          L       R13,SAVEAREA+4                     RESTORATION OF REGISTER 13
          RETURN (14,12),T,RC=12                    RETURN TO MVS
*
*
* PREREQUISITES

```

```

                LTORG
WLIBCLAS DS    ØCL8
              DC    C'GCI'
WNUMCLAS DC    C' '
              DC    C'TRAN'
WZERO      DC    H'Ø'
*
SAVEAREA   DS    18F
*
              DC    C'RRRR'
RETCODEF   DS    F
RETCODEØ   DS    F
              DC    C'GGGG'
WGRESSL    DS    FL1                LENGTH OF NAME OF RESOURCE
WGRESS     DS    CL2Ø              NAME OF THE RESOURCE
              DC    C'CCCC'
WCLASS     DS    CL8                CLASS
*
*
              DC    C'WWW'
WRKAREA1   DS    ØF                WORKAREA FOR MACRO ICHEINTY. LEVEL
              DS    F                TOTAL LENGTH OF WORKAREA
WA1        DS    XL2Ø              RESERVED AREA
LNGDATA1   DS    F                LENGTH OF RETURNED DATA DS LA WA
DATA1      DS    ØX
ZTESTL1    DS    XL2                AREA TO TEST
LEVEL1     DS    1ØX              LEVEL
FINWA1     EQU    *
*
*
                END
//*
//*
//LKED.SYSLMOD DD DSN=RDVUSER.LINKLIB,DISP=SHR <-BIB AUTHORIZED
//LKED.SYSIN   DD *
                SETCODE AC(1)
                NAME RACFDGEN(R)
//*

```

RACFEXEC

```

//*
//*
//*
//STEP1     EXEC PGM=RACFDGEN
//STEPLIB   DD  DSN=RDVUSER.LINKLIB,DISP=SHR          BB AUTHORIZED
//SYSPRINT  DD  SYSOUT=T
//SYSUDUMP  DD  SYSOUT=T
//*

```

A RACFPROF ISPF interface

This program is designed to encourage user accountability and reduce the administration of dataset profiles/groups by the RACF administrator. It gives users a way of controlling access to their databases, allowing them to create/delete/modify and display the contents of dataset profiles/groups.

RACFPROF

```

/***** REXX *****/
/* Program name: */
/*   RACFPROF      (RACFPROF ISPF interface) */
/*- - - - - */
/* Purpose: */
/*   - To encourage user accountability and lessen the RACF */
/*     administration of dataset profiles/groups on the part */
/*     of the RACF administrator. */
/*   - To provide the user with an easy way to control access to */
/*     his/her datasets. */
/*   - Creation, deletion, modification and displaying contents */
/*     of dataset profiles/groups. */
/*- - - - - */
/* Invocation : TSO RACFPROF *you can add to your panel as an option */
/*- - - - - */
/* Input: */
/*   Parameters: */
/*     None is needed. */
/*- - - - - */
/* Process: */
/*   Upon invocation, the program will display the invoker */
/*   profiles by virtue of masking. */
/*   However, the user can display any other profile by */
/*   changing the mask field on the initial panel to any */
/*   other user-id or HLQ */
/*- - - - - */
/* Output:          : full panel interface. */
/*- - - - - */
/* RACF requirements : In order to fully utilize this utility, one or */
/*                    more of the following must be true: */

```

```

/*          1- You are the profile owner          */
/*          2- You have group special connection  */
/*          3- Auditor or Special attribute       */
/*          */
/*- - - - - - - - - - - - - - - - - - - - - - - */
/*****/
trace

ADDRESS ISPEXEC          /* set our environment          */
Call R_Open              /* display the panel via libdef services */
Mask = "*"              /* always default to the caller-id      */
RcProf = 0              /* set this variable                  */
Do while RcProf <= 8    /* as long as our return code is good  */
    Call Prof_Displ     /* go get the main RACF info          */
end                    /* finished for now                   */
Call R_Close           /* end the entire program             */
Return                 /* get back from all calls            */

/*****/
/* Display RACF lines, put in table, display in panel */
/*****/
Prof_Displ:
"CONTROL DISPLAY SAVE"
lcmd = ""
RacfMsg = ""

"TBCREATE,RacfProf,NAMES(ProfLine),
        NOWRITE,REPLACE"
X = OUTTRAP("RACF.", '*', "NOCONCAT")
ADDRESS TSO "SR MASK(" || Mask || ")"
DO I = 1 TO RACF.0
    ProfLine = Racf.i
    "TbAdd RacfProf"
END

"TbTop RacfProf"
OldMask = Mask
RcProf = 0
DO WHILE RcProf < 4
    "TbDispl RacfProf PANEL(RACFPROF) position(ProfPos)"
    RcProf = RC
    if Mask <= OldMask then do
        RcProf = 24
    end
    S1Prof = Ztdsels
    if lcmd = "INFO" & ztdsels > 0 then call Info_Displ
    if lcmd = "ADDG" & ztdsels > 0 then call Racf_Add_Grp
    if lcmd = "AUTH" & ztdsels > 0 then call Auth_Displ
    if lcmd = "DSNS" & ztdsels > 0 then call Dsns_Displ
    if lcmd = "PE" & ztdsels > 0 then call Racf_Permit
    if lcmd = "REM" & ztdsels > 0 then call Racf_Remove
    if lcmd = "ADD" & ztdsels > 0 then do

```



```

    call Racf_Add_Prof
    RcProf = 24
end
if lcmd = "DEL" & ztdsels > 0 then do
    call Racf_Del_Prof
    RcProf = 24
end
Ztdsels = S1Prof
DO WHILE Ztdsels > 1 & RcProf < 8
    "TBDISPL RacfProf position(ProfPos)"
    RcProf = RC
    S1Prof = Ztdsels
    if lcmd = "ADDG" then call Racf_Add_Grp
    if lcmd = "AUTH" then call Auth_Displ
    if lcmd = "DSNS" then call Dsns_Displ
    if lcmd = "PE" then call Racf_Permit
    if lcmd = "REM" then call Racf_Remove
    if lcmd = "ADD" then do
        call Racf_Add_Prof
        RcProf = 24
    end
    if lcmd = "DEL" then do
        call Racf_Del_Prof
        RcProf = 24
    end
    Ztdsels = S1Prof
END
END
lcmd = ""
"TBEND,RacfProf"
"CONTROL DISPLAY RESTORE"
RETURN RcProf

/*****/
/* Display Info lines, get me the creation date of said profile */
/*****/
/* New code starts here. */
Info_Displ:
"CONTROL DISPLAY SAVE"
lcmd = ""
RacfMsg = ""
"TBCREATE,RacfInfo,NAMES(InfoLine),
    NOWRITE,REPLACE" /* new table creation */
parse value profline with AuthMask " " . /* get me that info */
X = OUTTRAP("RACF.",'*',"NOCONCAT")
ADDRESS TSO "LD DA('' || AuthMask || '') HISTORY" /* issue command */
AuthFlag = 0
DO I = 1 TO RACF.0
    InfoLine = strip(Racf.i)
    if substr(InfoLine,1,1) = "-" then iterate /* don't need this */
    if substr(InfoLine,1,1) = " " then do

```

```

        parse value strip(Racf.24) with Cday Cmon .
        Cday = Cday "Day Of Year"      /* reformat to new form */
        Cmon = Cmon "Year"
    end
    if AuthFlag = 1 then "TbAdd RacfInfo"
END

"TbTop RacfInfo"
RcInfo = 0
DO WHILE RcInfo < 4
    "TbDispl RacfInfo PANEL(RACFINFO) position(InfoPos)"
    RcInfo = RC
    S1Info = Ztdsels
        "TbDelete RacfInfo"
    Ztdsels = S1Info
    DO WHILE Ztdsels > 1 & RcInfo < 8
        "TBDISPL RacfInfo position(InfoPos)"
        RcInfo = RC
            "TbDelete RacfInfo"
        Ztdsels = S1Info
    END
END
lcmd = ""
"TBEND,RacfInfo"
"CONTROL DISPLAY RESTORE"
RETURN 0
/* New code ends here */

/*****
/* Display RACF lines */
*****/
Auth_Displ:
"CONTROL DISPLAY SAVE"
lcmd = ""
RacfMsg = ""
"TBCREATE,RacfAuth,NAMES(AuthLine), NOWRITE,REPLACE"
parse value profline with AuthMask " " .
X = OUTTRAP("RACF.", '*', "NOCONCAT")
ADDRESS TSO "LD DA('' || AuthMask || '') AUTH"
AuthFlag = 0
DO I = 1 TO RACF.0
    AuthLine = strip(Racf.i)
    if substr(AuthLine,1,1) = "-" then iterate
    if substr(AuthLine,1,1) = " " then iterate
    if substr(AuthLine,1,20) = "ID ACCESS CLASS" then iterate
    if substr(AuthLine,1,11) = "YOUR ACCESS" then do
        parse value strip(racf.5) with . own uac . /* addition*/
        parse value strip(racf.9) with adt . /*new addition*/
        x = i + 2
        parse value strip(Racf.x) with YourAuth " " .
    end
end

```

```

    if AuthFlag = 1 then "TbAdd RacfAuth"
    if substr(AuthLine,1,13) = "ID      ACCESS" then AuthFlag = 1
END

"TbTop RacfAuth"
RcAuth = 0
DO WHILE RcAuth < 4
    "TbDispl RacfAuth PANEL(RACFAUTH) position(AuthPos)"
    RcAuth = RC
    S1Auth = Ztdsels
    if lcmd = "LU" & ztdsels > 0 then call Lst_User
    if lcmd = "LG" & ztdsels > 0 then call Lst_Group
    if lcmd = "ADDG" & ztdsels > 0 then call Racf_Add_Grp
    if lcmd = "REM" & ztdsels > 0 then do
        parse value authline with UserId " " .
        call Racf_Remove
        "TbDelete RacfAuth"
    end
    Ztdsels = S1Auth
    DO WHILE Ztdsels > 1 & RcAuth < 8
        "TBDISPL RacfAuth position(AuthPos)"
        RcAuth = RC
        if lcmd = "LU" then call Lst_User
        if lcmd = "LG" then call Lst_Group
        if lcmd = "ADDG" then call Lst_Group
        if lcmd = "REM" then do
            parse value authline with UserId " " .
            call Racf_Remove
            "TbDelete RacfAuth"
        end
        Ztdsels = S1Auth
    END
END

lcmd = ""
"TBEND,RacfAuth"
"CONTROL DISPLAY RESTORE"
RETURN 0

/*****
/* Display RACF lines
*****/
Dsns_Displ:
"CONTROL DISPLAY SAVE"
lcmd = ""
RacfMsg = ""
"TBCREATE,RacfDsns,NAMES(DsnsLine),
        NOWRITE,REPLACE"
parse value profline with DsnsMask " " .
X = OUTTRAP("RACF.",'*',"NOCONCAT")
ADDRESS TSO "LD DA('" || DsnsMask || "') DSNS"
DsnsFlag = 0

```

```

DO I = 1 TO RACF.Ø
  DsnsLine = Racf.i
  if substr(DsnsLine,1,1) = "-" then iterate
  if DsnsFlag = 1 then "TbAdd RacfDsns"
  if substr(DsnsLine,1,2Ø) = "CATALOGUED DATA SETS" then DsnsFlag = 1
END

```

```

"TbTop RacfDsns"
RcDsns = Ø
DO WHILE RcDsns < 4
  "TbDispl RacfDsns PANEL(RACFDSNS) position(DsnsPos)"
  RcDsns = RC
  S1Dsns = Ztdsels
  if lcmd = "PE" & ztdsels > Ø then call Racf_Permit
  if lcmd = "REM" & ztdsels > Ø then call Racf_Remove
  Ztdsels = S1Dsns
  DO WHILE Ztdsels > 1 & RcDsns < 8
    "TBDISPL RacfDsns position(DsnsPos)"
    RcDsns = RC
    if lcmd = "PE" then call Racf_Permit
    if lcmd = "REM" then call Racf_Remove
    Ztdsels = S1Dsns
  END
END

```

```

END
lcmd = ""
"TBEND,RacfDsns"
"CONTROL DISPLAY RESTORE"
RETURN Ø
/*-----
* Display the pop-up panel to update the RACF access
*-----*/

```

```

Racf_Permit:
"CONTROL DISPLAY SAVE"
lcmd = ""
RacfMsg = ""
Racf. = ""
"ADDDPOP POPLOC(Z) ROW(2) COLUMN(2)"
IF Rc = Ø THEN say "AddPop error Rc("Rc")," zerrlm
ELSE do
  parse value ProfLine with PermDsn " " .
  Racf.Ø = 1
  do while Racf.Ø > Ø
    X = OUTTRAP("RACF.", '*', "NOCONCAT")
    Racf.Ø = Ø
    "Display panel(RacfPop1)"
    if Rc < 8 then do
      RacfAcc = ""
      if None = "X" then RacfAcc = "NONE"
      if Execute = "X" then RacfAcc = "EXECUTE"
      if Update = "X" then RacfAcc = "UPDATE"
      if Read = "X" then RacfAcc = "READ"
    end do
  end do
end do

```

```

        if Control = "X" then RacfAcc = "CONTROL"
        if Alter = "X" then RacfAcc = "ALTER"
        ADDRESS TSO "PE '" || PermDsn || "' GEN ID(' || UserId || '),
                    ACC(' || RacfAcc ||')"
        if Racf.0 > 0 then RacfMsg = Racf.1 || ", " || Racf.2
    end
end
"REMPPOP  ALL"
    IF Rc = 0 THEN say "RemPop error Rc("Rc")," zerrlm
end
lcmd = ""
"CONTROL DISPLAY RESTORE"
return

/*-----
* Display the pop-up panel to delete the RACF access
*-----*/
Racf_Remove:
"CONTROL DISPLAY SAVE"
lcmd = ""
RacfMsg = ""
Racf. = ""
"ADDDPOP  POPLOC(Z)  ROW(2)  COLUMN(2)"
IF Rc = 0 THEN say "AddPop error Rc("Rc")," zerrlm
ELSE do
    parse value ProfLine with PermDsn " " .
    Racf.0 = 1
    do while Racf.0 > 0
        X = OUTTRAP("RACF.", '*', "NOCONCAT")
        Racf.0 = 0
        "Display panel(RacfPop5)"
        if Rc < 8 then do
            RacfAcc = ""
            ADDRESS TSO "PE '" || PermDsn || "' GEN ID(' || UserId || '),
                        DELETE"
            if Racf.0 > 0 then RacfMsg = Racf.1 || ", " || Racf.2
        end
    end
end
"REMPPOP  ALL"
    IF Rc = 0 THEN say "RemPop error Rc("Rc")," zerrlm
end
lcmd = ""
"CONTROL DISPLAY RESTORE"
return

/*-----
* Display the pop-up panel to update the RACF access
*-----*/
Racf_Add_Prof:
"CONTROL DISPLAY SAVE"
lcmd = ""
RacfMsg = ""

```

```

Racf. = ""
"ADDPop POPLOC(Z) ROW(2) COLUMN(2)"
IF Rc = 0 THEN say "AddPop error Rc("Rc")," zerrlm
ELSE do
  parse value profline with PermDsn " " .
  Racf.0 = 1
  do while Racf.0 > 0
    X = OUTTRAP("RACF.", '*', "NOCONCAT")
    Racf.0 = 0
    "Display panel(RacfPop2)"
    if Rc < 8 then do
      ADDRESS TSO "ADDSD " || PermDsn || "' GEN"
      if ModelDsn = " " then
        ADDRESS TSO "PE " || PermDsn || "' GEN FROM('' || ModelDsn || '''),
          FGEN FCLASS(DATASET)"
      else
        if Racf.0 > 0 then RacfMsg = Racf.1 || ", " || Racf.2
    end
  end
  "REMPop ALL"
  IF Rc = 0 THEN say "RemPop error Rc("Rc")," zerrlm
end
lcmd = ""
"CONTROL DISPLAY RESTORE"
return

/*-----
* Add Groups to RACF
*-----*/
Racf_Add_Grp:
"CONTROL DISPLAY SAVE"
lcmd = ""
RacfMsg = ""
Racf. = ""
"ADDPop POPLOC(Z) ROW(2) COLUMN(2)"
IF Rc = 0 THEN say "AddPop error Rc("Rc")," zerrlm
ELSE do
  "Display panel(RacfPop7)"
  if Rc < 8 then do
    if Supgroup = " " then /*Superior group requested...*/
      ADDRESS TSO "ADDGROUP " || Group || " SUPGROUP(" || Supgroup |
    else
      ADDRESS TSO "ADDGROUP " || Group || " "
  /* else
    if Racf.0 > 0 then RacfMsg = Racf.1 || ", " || Racf.2 */
  end
  "REMPop ALL"
  IF Rc = 0 THEN say "RemPop error Rc("Rc")," zerrlm
end
lcmd = ""
"CONTROL DISPLAY RESTORE"
RETURN

```

```

/*-----
 * Display the pop-up panel to update the RACF access
 *-----*/
Racf_Del_Prof:
"CONTROL DISPLAY SAVE"
lcmd = ""
RacfMsg = ""
Racf. = ""
"ADDPop POPLOC(Z) ROW(2) COLUMN(2)"
IF Rc = 0 THEN say "AddPop error Rc("Rc")," zerrlm
ELSE do
  parse value profline with PermDsn " " .
  Racf.0 = 1
  do while Racf.0 > 0
    X = OUTTRAP("RACF.", '*', "NOCONCAT")
    Racf.0 = 0
    "Display panel(RacfPop6)"
    if Rc < 8 then do
      ADDRESS TSO "DELDSD '" || PermDsn || "' GEN"
      if Racf.0 > 0 then RacfMsg = Racf.1 || ", " || Racf.2
    end
  end
  "REMPop ALL"
  IF Rc = 0 THEN say "RemPop error Rc("Rc")," zerrlm
end
lcmd = ""
"CONTROL DISPLAY RESTORE"
return

/*-----
 * Display the pop-up panel to update the RACF access
 *-----*/
Con_User:
"CONTROL DISPLAY SAVE"
lcmd = ""
RacfMsg = ""
Racf. = ""
"ADDPop POPLOC(Z) ROW(2) COLUMN(2)"
IF Rc = 0 THEN say "AddPop error Rc("Rc")," zerrlm
ELSE do
  Racf.0 = 1
  do while Racf.0 > 0
    X = OUTTRAP("RACF.", '*', "NOCONCAT")
    Racf.0 = 0
    "Display panel(RacfPop3)"
    if Rc < 8 then do
      ADDRESS TSO "CONNECT '" || ConUser || "' GROUP(' || ConGroup || ')"
      if Racf.0 > 0 then RacfMsg = Racf.1 || ", " || Racf.2
    end
  end
  "REMPop ALL"

```

```

        IF Rc = 0 THEN say "RemPop error Rc("Rc")," zerrlm
end
lcmd = ""
"CONTROL DISPLAY RESTORE"
return

/*-----
* Display the pop-up panel to update the RACF access
*-----*/
Rem_User:
"CONTROL DISPLAY SAVE"
lcmd = ""
RacfMsg = ""
Racf. = ""
"ADDDPOP  POPLOC(Z)  ROW(2)  COLUMN(2)"
IF Rc = 0 THEN say "AddPop error Rc("Rc")," zerrlm
ELSE do
  Racf.0 = 1
  do while Racf.0 > 0
    X = OUTTRAP("RACF.", '*', "NOCONCAT")
    Racf.0 = 0
    "Display panel(RacfPop4)"
    if Rc < 8 then do
      ADDRESS TSO "REMOVE " || RemUser || " GROUP(" || RemGroup || ")"
      if Racf.0 > 0 then RacfMsg = Racf.1 || ", " || Racf.2
    end
  end
  "REMPPOP  ALL"
  IF Rc = 0 THEN say "RemPop error Rc("Rc")," zerrlm
end
lcmd = ""
"CONTROL DISPLAY RESTORE"
return

/*-----
* Display the pop-up panel to update the RACF access
*-----*/
Lst_User:
"CONTROL DISPLAY SAVE"
lcmd = ""
"TBCREATE,RacfLstu,NAMES(LstuLine),
NOWRITE,REPLACE"
parse value authline with LstuMask " " .
if substr(LstuMask,1,1) = "#" then LstuMask = substr(LstuMask,2)
LstuUser = " "
LstuName = " "
LstuGrp = " "
X = OUTTRAP("RACF.", '*', "NOCONCAT")
ADDRESS TSO "LU " || LstuMask
DO I = 1 TO RACF.0
  LstuLine = strip(Racf.i)

```



```

    if substr(Lstuline,1,5) = "USER=" then do
        parse value LstuLine with "USER=" LstuUser " " . "NAME=" LstuName
    end
    if substr(Lstuline,1,7) = "DEFAULT" then do
        parse value lstuline with "GROUP=" LstuGrp " " .
    end
    if substr(Lstuline,1,6) = "GROUP=" then "TbAdd RacfLstu"
END

"TbTop RacfLstu"
RcLstu = 0
DO WHILE RcLstu < 4
    "TbDispl RacfLstu PANEL(RACFLstu) position(LstuPos)"
    RcLstu = RC
    S1Lstu = Ztdsels
    Ztdsels = S1Lstu
    DO WHILE Ztdsels > 1 & RcLstu < 8
        "TBDISPL RacfLstu position(LstuPos)"
        RcLstu = RC
        S1Lstu = Ztdsels
        Ztdsels = S1Lstu
    END
END
"TBEND,RacfLstu"
lcmd = ""
"CONTROL DISPLAY RESTORE"
return

/*-----
* Display the pop-up panel to update the RACF access
*-----*/

Lst_Group:
"CONTROL DISPLAY SAVE"
lcmd = ""
"TBCREATE,RacfLstg,NAMES(LstgLine), NOWRITE,REPLACE"
parse value authline with LstgMask " " .
LstgSgrp = " "
LstgGrp = " "
X = OUTTRAP("RACF.", '*', "NOCONCAT")
ADDRESS TSO "LG " || LstgMask
LstgFlag = 0
DO I = 1 TO RACF.0
    LstgLine = strip(Racf.i)
    if substr(Lstgline,1,15) = "INFORMATION FOR" then do
        parse value LstgLine with "GROUP " LstgGrp " " .
    end
    if substr(Lstgline,1,06) = "REVOKE" then iterate
    if substr(Lstgline,1,07) = "CONNECT" then iterate
    if substr(Lstgline,1,08) = "SUPERIOR" then do
        parse value LstgLine with . "GROUP=" LstgSgrp " " .

```

```

    end
    if LstgFlag = 1 then "TbAdd RacfLstg"
    if substr(LstgLine,1,07) = "USER(S)" then LstgFlag = 1
END

"TbSort RacfLstg,fields(Lstgline,c,a)"
"TbTop RacfLstg"
RcLstg = 0
DO WHILE RcLstg < 4
    "TbDispl RacfLstg PANEL(RACFLstg) position(LstgPos)"
    RcLstg = RC
    S1Lstg = Ztdsels
    if lcmd = "CON" & ztdsels > 0 then do
        ConUser = " "
        ConGroup = LstgGrp
        call Con_User
    end
    if lcmd = "REM" & ztdsels > 0 then do
        parse value LstgLine with RemUser " " .
        RemGroup = LstgGrp
        call Rem_User
    end
    Ztdsels = S1Lstg
    DO WHILE Ztdsels > 1 & RcLstg < 8
        "TBDISPL RacfLstg position(LstgPos)"
        RcLstg = RC
        S1Lstg = Ztdsels
        if lcmd = "CON" then do
            ConUser = " "
            ConGroup = LstgGrp
            call Con_User
        end
        if lcmd = "REM" then do
            parse value LstgLine with RemUser " " .
            RemGroup = LstgGrp
            call Rem_User
        end
        Ztdsels = S1Lstg
    END
END

END
"TBEND,RacfLstg"
lcmd = ""
"CONTROL DISPLAY RESTORE"
return

/*-----*/
    Put the name of DSN that contains the panels
    -----*/

R_Open:
"LIBDEF ISPP LIB DATASET ID('your panel dsn')"
RETURN 0

```

```

/*****/
/* CLOSE ALL FILES AND TABLES */
/*****/
R_Close:
ADDRESS TSO "SETROPTS GENERIC(DATASET) REFRESH"
"LIBDEF ISPLIB"
RETURN Ø

```

RACFDSNS PANEL

```

)ATTR
+ TYPE(TEXT) INTENS(LOW) SKIP(ON) CAPS(ON)
% TYPE(TEXT) INTENS(HIGH) SKIP(ON) CAPS(ON)
_ TYPE(input) INTENS(HIGH) CAPS(ON) just(left) pad(' ')
# TYPE(input) INTENS(HIGH) CAPS(ON) just(left) pad('_')
@ TYPE(output) INTENS(low)
)BODY WIDTH(&ZSCREENW) EXPAND(//)
%/-/%RACF Dataset List %/-/
%COMMAND ==>_ZCMD %SCROLL
==>_AMT +
+
+Dataset Profile:%&DsnsMask
+
%PE +Permit Access
%REM +Remove Access
+
+ Catalogued dataset(s) affected by profile
+- - - - -
)MODEL
#z @dsnsline
)INIT
.CURSOR = ZCMD
.ZVARS = '(LCMD)'
&ZCMD = ' '
)REINIT
.CURSOR = ZCMD
)PROC
VER (&LCMD,LIST,PE,REM)
VPUT (AMT) PROFILE
)END

```

Editor's note: this article will be concluded in the next issue.

Salah Balboul
System Programmer (USA)

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Replacement for the RACF Report Writer – part 5

This month we continue the code for the reporting tool in SAS which can act as a replacement for the RACF Report Writer. This enables you to have SQL-like capabilities without having to keep your SMF data in databases.

The article is an extensive piece of work which will be published over several issues of RACF Update. To enable the article to be published in a manageable form, considerable editing of the original code has been necessary. The original, unedited code is available on our Web site (www.xephon.com) and can be downloaded in the usual way. This service is free to subscribers.

```
UNLFOUID = 'Owner UID'
UNLFOGID = 'Owner GID'
UNLLSTD L = 'Last link deleted?'
UNLFILPL = 'File pool'
UNLFILSP = 'File space'
UNLINODE = 'Inode'
UNLSCID = 'File SCID'
UNLDCE LK = 'DCE link'
UNLAUTYP = 'Request type'
;
  OUTPUT RACF.UNLINK;
END;
%END;
%MEND UNLINK;
./          ADD    LIST=ALL,NAME=UMNTFSYS
%MACRO UMNTFSYS(REQ=);
  %LET REQ = %UPCASE(&REQ);
  %IF &REQ = DEFINE %THEN
    %DO;
      %PUT Including variables from UMNTFSYS extension;
      RACF.UMNTFSYS (KEEP=%SMFHDR
                    %SMF80HDR(REQ=DEFINE)
                    UFSCLASS
                    UFSUSERN
                    UFSUTKNE
                    UFSUPRE
                    UFSUVFYX
                    UFSUNJEU
                    UFSUUAUD
                    UFSUSPEC
                    UFSUDFLT
                    UFSUUNDF
```

UFSUERR
UFSUTRST
UFSUSEST
UFSUSURO
UFSURMT
UFSUPRVL
UFSUSECL
UFSUEXND
UFSUSUSR
UFSUSNOD
UFSUSGRP
UFSUSPOE
UFSUSPCL
UFSUTUSR
UFSUTGRP
UFSUTDFT
UFSUTSEC
UFSAPPC
UFAUDIT
UFSORUID
UFSOEUID
UFSOSUID
UFSORGID
UFSOEGID
UFSOSGID
UFSPATHN
UFSFILID
UFSFOUID
UFSFOGID
UFSHFSDS
UFSDCCLK
UFSAUTYP

)

```
%END;  
%IF &REQ = EXTRACT %THEN  
%DO;  
  %PUT Including datadefinition for UMNTFSYS extension;  
  WHEN('UMNTFSYS') DO;  
    INPUT %SMF80HDR(REQ=EXTRACT)  
      UFSCLASS $      282-289  
      UFSUSERN $      291-310  
      UFSUTKNE $      312-315  
      UFSUPRE  $      317-320  
      UFSUVFYX $      322-325  
      UFSUNJEU $      327-330  
      UFSUUAUD $      332-335  
      UFSUSPEC $      337-340  
      UFSUDFLT $      342-345  
      UFSUUNDF $      347-350  
      UFSUERR  $      352-355  
      UFSUTRST $      357-360
```

UFSUSEST	\$	362-369
UFSUSURO	\$	371-374
UFSURMT	\$	376-379
UFSUPRVL	\$	381-384
UFSUSECL	\$	386-393
UFSUEXND	\$	395-402
UFSUSUSR	\$	404-411
UFSUSNOD	\$	413-420
UFSUSGRP	\$	422-429
UFSUSPOE	\$	431-438
UFSUSPCL	\$	440-447
UFSUTUSR	\$	449-456
UFSUTGRP	\$	458-465
UFSUTDFT	\$	467-470
UFSUTSEC	\$	472-475
UFSAPPC	\$	477-492
UFSAUDIT	\$	494-504
UFSORUID		506-515
UFSOEUID		517-526
UFSOSUID		528-537
UFSORGID		539-548
UFSOEGID		550-559
UFSOSGID		561-570
UFSPATHN	\$	572-771
UFSFILID	\$	1596-1627
UFSFOUID		1629-1638
UFSFOGID		1640-1649
UFSHFSDS	\$	1651-1694
UFSDCCLK	\$	1696-1711
UFSAUTYP	\$	1713-1725

```

;
LABEL UFSCLASS = 'Class name'
      UFSUSERN = 'User name'
      UFSUTKNE = 'Utoken encr.?'
      UFSUPRE  = 'Pre-1.9?'
      UFSUVFYX = 'VERIFYX propagation?'
      UFSUNJEU = 'Undefined NJE user?'
      UFSUUAUD = 'UAUDIT?'
      UFSUSPEC = 'RACF special?'
      UFSUDFLT = 'Default token?'
      UFSUUNDF = 'Undefined user?'
      UFSUERR  = 'Token in error?'
      UFSUTRST = 'User trusted?'
      UFSUSEST = 'Session type'
      UFSUSURO = 'Surrogate user?'
      UFSURMT  = 'Remote job?'
      UFSUPRVL = 'Privileged user?'
      UFSUSECL = 'User SECLABEL'
      UFSUEXND = 'Execution node'
      UFSUSUSR = 'Submitting user'
      UFSUSNOD = 'Submitting node'

```

```

UFSUSGRP = 'Submitting group'
UFSUSPOE = 'Port of entry'
UFSUSPCL = 'Class of POE'
UFSUTUSR = 'Userid'
UFSUTGRP = 'Groupid'
UFSUTDFT = 'Default group?'
UFSUTSEC = 'Default SECLABEL?'
UFSAPPC = 'APPC key link'
UFAUDIT = 'Audit code'
UFSORUID = 'Old real UID'
UFSOEUID = 'Old effective UID'
UFSOSUID = 'Old saved UID'
UFSORGID = 'Old real GID'
UFSOEGID = 'Old effective GID'
UFSOSGID = 'Old saved GID'
UFSPATHN = 'Path name'
UFSFILID = 'File id'
UFSFOUID = 'Owner UID'
UFSFOGID = 'Owner GID'
UFSHFSDS = 'HFS datasetname'
UFSDCCLK = 'DCE link'
UFSAUTYP = 'Request type'
;
    OUTPUT RACF.UMNTFSYS;
END;
%END;
%MEND UMNTFSYS;
./      ADD LIST=ALL,NAME=CHKFOWN
%MACRO CHKFOWN(REQ=);
%LET REQ = %UPCASE(&REQ);
%IF &REQ = DEFINE %THEN
%DO;
%PUT Including variables from CHKFOWN extension;
RACF.CHKFOWN (KEEP=%SMFHDR
              %SMF80HDR(REQ=DEFINE)
              CFOCLASS
              CFOUSERN
              CFOUTKNE
              CFOUPRE
              CFOUVFYX
              CFOUNDJEU
              CFOUUAUD
              CFOUSPEC
              CFOUDFLT
              CFOUUNDF
              CFOUERR
              CFOUTRST
              CFOUSEST
              CFOUSURO
              CFOURMT
              CFOUPRVL

```

```

        CFOUSECL
        CFOUEXND
        CFOUSUSR
        CFOUSNOD
        CFOUSGRP
        CFOUSPOE
        CFOUSPCL
        CFOUTUSR
        CFOUTGRP
        CFOUTDFT
        CFOUTSEC
        CFOAPPC
        CFOAUDIT
        CFOORUID
        CFOOEUID
        CFOOSUID
        CFOORGID
        CFOOEGID
        CFOOSGID
        CFOPATHN
        CFOFILID
        CFOFOUID
        CFOFOGID
        CFOFILPL
        CFOFILSP
        CFOINODE
        CFOSCID
        CFODCELK
        CFOAUTYP
    )
%END;
%IF &REQ = EXTRACT %THEN
%DO;
    %PUT Including datadefinition for CHKFOWN extension;
    WHEN('CHKFOWN') DO;
        INPUT %SMF80HDR(REQ=EXTRACT)
            CFOCLASS $      282-289
            CFOUSERN $      291-310
            CFOUTKNE $      312-315
            CFOUPRE $       317-320
            CFOUVFYX $      322-325
            CFOUNJEU $      327-330
            CFOUUAUD $      332-335
            CFOUSPEC $      337-340
            CFOUDFLT $      342-345
            CFOUUNDF $      347-350
            CFOUERR $       352-355
            CFOUTRST $      357-360
            CFOUSEST $      362-369
            CFOUSURO $      371-374
            CFOURMT $       376-379

```


CFOUPRVL \$	381-384
CFOUSECL \$	386-393
CFOUEXND \$	395-402
CFOUSUSR \$	404-411
CFOUSNOD \$	413-420
CFOUSGRP \$	422-429
CFOUSPOE \$	431-438
CFOUSPCL \$	440-447
CFOUTUSR \$	449-456
CFOUTGRP \$	458-465
CFOUTDFT \$	467-470
CFOUTSEC \$	472-475
CFOAPPC \$	477-492
CFOAUDIT \$	494-504
CFOORUID	506-515
CFOOEUID	517-526
CFOOSUID	528-537
CFOORGID	539-548
CFOOEGID	550-559
CFOOSGID	561-570
CFOPATHN \$	572-771
CFOFILID \$	1596-1627
CFOFOUID	1629-1638
CFOFOGID	1640-1649
CFOFILPL \$	1651-1658
CFOFILSP \$	1660-1667
CFOINODE	1669-1678
CFOSCID	1680-1689
CFODCELK \$	1691-1706
CFOAUTYP \$	1708-1720

```

;
LABEL CFOCLASS = 'Class name'
CFOUSERN = 'User name'
CFOUTKNE = 'Utoken encr.?'
CFOUPRE = 'Pre-1.9?'
CFOUVFYX = 'VERIFYX propagation?'
CFOUNJEU = 'Undefined NJE user?'
CFOUUAUD = 'UAUDIT?'
CFOUSPEC = 'RACF special?'
CFOUDFLT = 'Default token?'
CFOUNDF = 'Undefined user?'
CFOUERR = 'Token in error?'
CFOUTRST = 'User trusted?'
CFOUSEST = 'Session type'
CFOUSURO = 'Surrogate user?'
CFOURMT = 'Remote job?'
CFOUPRVL = 'Privileged user?'
CFOUSECL = 'User SECLABEL'
CFOUEXND = 'Execution node'
CFOUSUSR = 'Submitting user'
CFOUSNOD = 'Submitting node'

```

```

CFOUSGRP = 'Submitting group'
CFOUSPOE = 'Port of entry'
CFOUSPCL = 'Class of POE'
CFOUTUSR = 'Userid'
CFOUTGRP = 'Groupid'
CFOUTDFT = 'Default group?'
CFOUTSEC = 'Default SECLABEL?'
CFOAPPC = 'APPC key link'
CFOAUDIT = 'Audit code'
CFOORUID = 'Old real UID'
CFOOEUID = 'Old effective UID'
CFOOSUID = 'Old saved UID'
CFOORGID = 'Old real GID'
CFOOEGID = 'Old effective GID'
CFOOSGID = 'Old saved GID'
CFOPATHN = 'Path name'
CFOFILID = 'File id'
CFOFOUID = 'Owner UID'
CFOFOGID = 'Owner GID'
CFOFILPL = 'File pool'
CFOFILSP = 'File space'
CFOINODE = 'Inode'
CFOSCID = 'File SCID'
CFODCELK = 'DCE link'
CFOAUTYP = 'Request type'
;
    OUTPUT RACF.CHKFOWN;
END;
%END;
%MEND CHKFOWN;
./      ADD      LIST=ALL,NAME=CHKPRIV
%MACRO CHKPRIV(REQ=);
    %LET REQ = %UPCASE(&REQ);
    %IF &REQ = DEFINE %THEN
        %DO;
            %PUT Including variables from CHKPRIV extension;
            RACF.CHKPRIV (KEEP=%SMFHDR
                        %SMF80HDR(REQ=DEFINE)
                        CPRCLASS
                        CPRUSERN
                        CPRUTKNE
                        CPRUPRE
                        CPRUVFYX
                        CPRUNJEU
                        CPRUUAUD
                        CPRUSPEC
                        CPRUDFLT
                        CPRUUNDF
                        CPRUERR
                        CPRUTRST
                        CPRUSEST

```

```

CPRUSURO
CPRURMT
CPRUPRVL
CPRUSECL
CPRUEXND
CPRUSUSR
CPRUSNOD
CPRUSGRP
CPRUSPOE
CPRUSPCL
CPRUTUSR
CPRUTGRP
CPRUTDFT
CPRUTSEC
CPRAPPC
CPRAUDIT
CPRORUID
CPROEUID
CPROSUID
CPRORGID
CPROEGID
CPROSGID
CPRDCEK
CPRAUTYP
)
%END;
%IF &REQ = EXTRACT %THEN
%DO;
%PUT Including datadefinition for CHKPRIV extension;
WHEN('CHKPRIV') DO;
INPUT %SMF80HDR(REQ=EXTRACT)
CPRCLASS $      282-289
CPRUSERN $      291-310
CPRUTKNE $      312-315
CPRUPRE $       317-320
CPRUVFYX $      322-325
CPRUNJEU $      327-330
CPRUUAUD $      332-335
CPRUSPEC $      337-340
CPRUDFLT $      342-345
CPRUUNDF $      347-350
CPRUERR $       352-355
CPRUTRST $      357-360
CPRUSEST $      362-369
CPRUSURO $      371-374
CPRURMT $       376-379
CPRUPRVL $      381-384
CPRUSECL $      386-393
CPRUEXND $      395-402
CPRUSUSR $      404-411

```

CPRUSNOD	\$	413-420
CPRUSGRP	\$	422-429
CPRUSPOE	\$	431-438
CPRUSPCL	\$	440-447
CPRUTUSR	\$	449-456
CPRUTGRP	\$	458-465
CPRUTDFT	\$	467-470
CPRUTSEC	\$	472-475
CPRAPPC	\$	477-492
CRAUDIT	\$	494-504
CPRORUID		506-515
CPROEUID		517-526
CPROSUID		528-537
CPRORGID		539-548
CPROEGID		550-559
CPROSGID		561-570
CPRDCEK	\$	572-587
CRAUTYP	\$	589-601

```

;
LABEL CPRCLASS = 'Class name'
CPRUSERN = 'User name'
CPRUTKNE = 'Utoken encr.?'
CPRUPRE = 'Pre-1.9?'
CPRUVFYX = 'VERIFYX propagation?'
CPRUNJEU = 'Undefined NJE user?'
CPRUUAUD = 'UAUDIT?'
CPRUSPEC = 'RACF special?'
CPRUDFLT = 'Default token?'
CPRUUNDF = 'Undefined user?'
CPRUERR = 'Token in error?'
CPRUTRST = 'User trusted?'
CPRUSEST = 'Session type'
CPRUSURO = 'Surrogate user?'
CPRURMT = 'Remote job?'
CPRUPRVL = 'Privileged user?'
CPRUSECL = 'User SECLABEL'
CPRUEXND = 'Execution node'
CPRUSUSR = 'Submitting user'
CPRUSNOD = 'Submitting node'
CPRUSGRP = 'Submitting group'
CPRUSPOE = 'Port of entry'
CPRUSPCL = 'Class of POE'
CPRUTUSR = 'Userid'
CPRUTGRP = 'Groupid'
CPRUTDFT = 'Default group?'
CPRUTSEC = 'Default SECLABEL?'
CPRAPPC = 'APPC key link'
CRAUDIT = 'Audit code'
CPRORUID = 'Old real UID'
CPROEUID = 'Old effective UID'
CPROSUID = 'Old saved UID'

```

```

CPRORGID = 'Old real GID'
CPROEGID = 'Old effective GID'
CPROSGID = 'Old saved GID'
CPRDCELK = 'DCE link'
CPRAUTYP = 'Request type'
;
  OUTPUT RACF.CHKPRIV;
END;
%END;
%MEND CHKPRIV;
./      ADD  LIST=ALL,NAME=OPENSTTY
%MACRO OPENSTTY(REQ=);
  %LET REQ = %UPCASE(&REQ);
  %IF &REQ = DEFINE %THEN
    %DO;
      %PUT Including variables from OPENSTTY extension;
      RACF.OPENSTTY (KEEP=%SMFHDR
                    %SMF80HDR(REQ=DEFINE)
                    OSTCLASS
                    OSTUSERN
                    OSTUTKNE
                    OSTUPRE
                    OSTUVFYX
                    OSTUNJEU
                    OSTUUAUD
                    OSTUSPEC
                    OSTUDFLT
                    OSTUUNDF
                    OSTUERR
                    OSTUTRST
                    OSTUSEST
                    OSTUSURO
                    OSTURMT
                    OSTUPRVL
                    OSTUSECL
                    OSTUEXND
                    OSTUSUSR
                    OSTUSNOD
                    OSTUSGRP
                    OSTUSPOE
                    OSTUSPCL
                    OSTUTUSR
                    OSTUTGRP
                    OSTUTDFT
                    OSTUTSEC
                    OSTAPPC
                    OSTAUDIT
                    OSTORUID
                    OSTOEUID
                    OSTOSUID
                    OSTORGID

```

```

                                OSTOEGID
                                OSTOSGID
                                OSTTRUID
                                OSTTEUID
                                OSTTSUID
                                OSTTPID
                                )
%END;
%IF &REQ = EXTRACT %THEN
%DO;
  %PUT Including datadefinition for OPENSTTY extension;
  WHEN('OPENSTTY') DO;
    INPUT %SMF80HDR(REQ=EXTRACT)
      OSTCLASS $      282-289
      OSTUSERN $      291-310
      OSTUTKNE $      312-315
      OSTUPRE  $      317-320
      OSTUVFYX $      322-325
      OSTUNJEU $      327-330
      OSTUUAUD $      332-335
      OSTUSPEC $      337-340
      OSTUDFLT $      342-345
      OSTUUNDF $      347-350
      OSTUERR  $      352-355
      OSTUTRST $      357-360
      OSTUSEST $      362-369
      OSTUSURO $      371-374
      OSTURMT  $      376-379
      OSTUPRVL $      381-384
      OSTUSECL $      386-393
      OSTUEXND $      395-402
      OSTUSUSR $      404-411
      OSTUSNOD $      413-420
      OSTUSGRP $      422-429
      OSTUSPOE $      431-438
      OSTUSPCL $      440-447
      OSTUTUSR $      449-456
      OSTUTGRP $      458-465
      OSTUTDFT $      467-470
      OSTUTSEC $      472-475
      OSTAPPC  $      477-492
      OSTAUDIT $      494-504
      OSTORUID $      506-515
      OSTOEUID $      517-526
      OSTOSUID $      528-537
      OSTORGID $      539-548
      OSTOEGID $      550-559
      OSTOSGID $      561-570
      OSTTRUID $      572-581
      OSTTEUID $      583-592

```

```

                OSTTSUID          594-603
                OSTTPID           605-614
                ;
LABEL OSTCLASS = 'Class name'
      OSTUSERN = 'User name'
      OSTUTKNE = 'Utoken encr.?'
      OSTUPRE  = 'Pre-1.9?'
      OSTUVFYX = 'VERIFYX propagation?'
      OSTUNJEU = 'Undefined NJE user?'
      OSTUUAUD = 'UAUDIT?'
      OSTUSPEC = 'RACF special?'
      OSTUDFLT = 'Default token?'
      OSTUUNDF = 'Undefined user?'
      OSTUERR  = 'Token in error?'
      OSTUTRST = 'User trusted?'
      OSTUSEST = 'Session type'
      OSTUSURO = 'Surrogate user?'
      OSTURMT  = 'Remote job?'
      OSTUPRVL = 'Privileged user?'
      OSTUSECL = 'User SECLABEL'
      OSTUEXND = 'Execution node'
      OSTUSUSR = 'Submitting user'
      OSTUSNOD = 'Submitting node'
      OSTUSGRP = 'Submitting group'
      OSTUSPOE = 'Port of entry'
      OSTUSPCL = 'Class of POE'
      OSTUTUSR = 'Userid'
      OSTUTGRP = 'Groupid'
      OSTUTDFT = 'Default group?'
      OSTUTSEC = 'Default SECLABEL?'
      OSTAPPC  = 'APPC key link'
      OSTAUDIT = 'Audit code'
      OSTORUID = 'Old real UID'
      OSTOEUID = 'Old effective UID'
      OSTOSUID = 'Old saved UID'
      OSTORGID = 'Old real GID'
      OSTOEGID = 'Old effective GID'
      OSTOSGID = 'Old saved GID'
      OSTTRUID = 'Tgt. real UID'
      OSTTEUID = 'Tgt. effective UID'
      OSTTSUID = 'Tgt. saved UID'
      OSTTPID  = 'Tgt. process ID'
                ;
                OUTPUT RACF.OPENSTTY;
                END;
                %END;
%MEND OPENSTTY;
./      ADD      LIST=ALL,NAME=RACLINK
%MACRO RACLINK(REQ=);
        %LET REQ = %UPCASE(&REQ);
        %IF &REQ = DEFINE %THEN

```

```

%DO;
  %PUT Including variables from RACLINK extension;
  RACF.RACLINK (KEEP=%SMFHDR
                %SMF80HDR(REQ=DEFINE)
                RACUSERN
                RACUTKNE
                RACUPRE
                RACUVFYX
                RACUNJEU
                RACUUAUD
                RACUSPEC
                RACUDFLT
                RACUUNDF
                RACUERR
                RACUTRST
                RACUSEST
                RACUSURO
                RACURMT
                RACUPRVL
                RACUSECL
                RACUEXND
                RACUSUSR
                RACUSNOD
                RACUSGRP
                RACUSPOE
                RACUSPCL
                RACUTUSR
                RACUTGRP
                RACUTDFT
                RACUTSEC
                RACPHASE
                RACISNOD
                RACISID
                RACSRCID
                RACTGNOD
                RACTGID
                RACTGAID
                RACSRSMF
                RACSRTME
                RACSRDTE
                RACPWDST
                RACASCST
                RACSPEFD
                )
  %END;
%IF &REQ = EXTRACT %THEN
%DO;
  %PUT Including datadefinition for RACLINK extension;
  WHEN('RACLINK') DO;
    INPUT %SMF80HDR(REQ=EXTRACT)
          RACUSERN $      282-301

```


RACUTKNE	\$	303-306
RACUPRE	\$	308-311
RACUVFYX	\$	313-316
RACUNJEU	\$	318-321
RACUUAUD	\$	323-326
RACUSPEC	\$	328-331
RACUDFLT	\$	333-336
RACUUNDF	\$	338-341
RACUERR	\$	343-346
RACUTRST	\$	348-351
RACUSEST	\$	353-360
RACUSURO	\$	362-365
RACURMT	\$	367-370
RACUPRVL	\$	372-375
RACUSECL	\$	377-384
RACUEXND	\$	386-493
RACUSUSR	\$	395-402
RACUSNOD	\$	404-411
RACUSGRP	\$	413-420
RACUSPOE	\$	422-429
RACUSPCL	\$	431-438
RACUTUSR	\$	440-447
RACUTGRP	\$	449-456
RACUTDFT	\$	458-461
RACUTSEC	\$	463-466
RACPHASE	\$	468-487
RACISNOD	\$	489-496
RACISID	\$	498-505
RACSRCID	\$	507-514
RACTGNOD	\$	516-523
RACTGID	\$	525-532
RACTGAID	\$	534-541
RACSRSMF	\$	543-546
RACSRTME	\$	548-555
RACSRDTE	\$	557-566
RACPWDST	\$	568-575
RACASCST	\$	577-584
RACSPEFD	\$	586-785

;

LABEL RACUSERN = 'User name'
 RACUTKNE = 'Utoken encr.?'
 RACUPRE = 'Pre-1.9?'
 RACUVFYX = 'VERIFYX propagation?'
 RACUNJEU = 'Undefined NJE user?'
 RACUUAUD = 'UAUDIT?'
 RACUSPEC = 'RACF special?'
 RACUDFLT = 'Default token?'
 RACUUNDF = 'Undefined user?'
 RACUERR = 'Token in error?'
 RACUTRST = 'User trusted?'

```

RACUSEST = 'Session type'
RACUSURO = 'Surrogate user?'
RACURMT  = 'Remote job?'
RACUPRVL = 'Privileged user?'
RACUSECL = 'User SECLABEL'
RACUEXND = 'Execution node'
RACUSUSR = 'Submitting user'
RACUSNOD = 'Submitting node'
RACUSGRP = 'Submitting group'
RACUSPOE = 'Port of entry'
RACUSPCL = 'Class of POE'
RACUTUSR = 'Userid'
RACUTGRP = 'Groupid'
RACUTDFT = 'Default group?'
RACUTSEC = 'Default SECLABEL?'
RACPHASE = 'Phase of command'
RACISNOD = 'Originating node'
RACISID  = 'Originating id'
RACSRCID = 'Association id'
RACTGNOD = 'Destination node'
RACTGID  = 'Destination id'
RACTGAID = 'Establishing id'
RACSRSMF = 'Destination SMF id'
RACSRTE  = 'Time originated'
RACSRDTE = 'Date originated'
RACPWDST = 'Password status'
RACASCST = 'Association status'
RACSPEFD = 'Keywords specified'
;
  OUTPUT RACF.RACLINK;
END;
%END;
%MEND RACLINK;
./      ADD  LIST=ALL,NAME=IPCCHK
%MACRO IPCCHK(REQ=);
  %LET REQ = %UPCASE(&REQ);
  %IF &REQ = DEFINE %THEN
    %DO;
      %PUT Including variables from IPCCHK extension;
      RACF.IPCCHK (KEEP=%SMFHDR
                  %SMF80HDR(REQ=DEFINE)
                  ICHCLASS
                  ICHUSERN
                  ICHUTKNE
                  ICHUPRE
                  ICHUVFYX
                  ICHUNJEU
                  ICHUUAUD
                  ICHUSPEC
                  ICHUDFLT
                  ICHUUNDF

```

```

        ICHUERR
        ICHUTRST
        ICHUSEST
        ICHUSURO
        ICHURMT
        ICHUPRVL
        ICHUSECL
        ICHUEXND
        ICHUSUSR
        ICHUSNOD
        ICHUSGRP
        ICHUSPOE
        ICHUSPCL
        ICHUTUSR
        ICHUTGRP
        ICHUTDFT
        ICHUTSEC
        ICHAPPC
        ICHAUDIT
        ICHORUID
        ICHOEUID
        ICHOSUID
        ICHORGID
        ICHOEGID
        ICHOSGID
        ICHKOUID
        ICHKOGID
        ICHREQRE
        ICHREQWR
        ICHREQEX
        ICHRSV1
        ICHACTYP
        ICHALWRE
        ICHALWWR
        ICHRSV2
        ICHKEY
        ICHID
        ICHCRUID
        ICHCRGID
    )
%END;
%IF &REQ = EXTRACT %THEN
%DO;
    %PUT Including datadefinition for IPCCHK extension;
    WHEN('IPCCHK') DO;
        INPUT %SMF80HDR(REQ=EXTRACT)
            ICHCLASS $      282-289
            ICHUSERN $      291-310
            ICHUTKNE $      312-315
            ICHUPRE  $      317-320

```

ICHUVFYX	\$	322-325
ICHUNJEU	\$	327-330
ICHUUAUD	\$	332-335
ICHUSPEC	\$	337-340
ICHUDFLT	\$	342-345
ICHUUNDF	\$	347-350
ICHUERR	\$	352-355
ICHUTRST	\$	357-360
ICHUSEST	\$	362-369
ICHUSURO	\$	371-374
ICHURMT	\$	376-379
ICHUPRVL	\$	381-384
ICHUSECL	\$	386-393
ICHUEXND	\$	395-402
ICHUSUSR	\$	404-411
ICHUSNOD	\$	413-420
ICHUSGRP	\$	422-429
ICHUSPOE	\$	431-438
ICHUSPCL	\$	440-447
ICHUTUSR	\$	449-456
ICHUTGRP	\$	458-465
ICHUTDFT	\$	467-470
ICHUTSEC	\$	472-475
ICHAPPC	\$	477-492
ICHAUDIT	\$	494-504
ICHORUID		506-515
ICHOEUID		517-526
ICHOSUID		528-537
ICHORGID		539-548
ICHOEGID		550-559
ICHOSGID		561-570
ICHKOUID		572-581
ICHKOGID		583-592
ICHREQRE	\$	594-597
ICHREQWR	\$	599-602
ICHREQEX	\$	604-607
ICHRSV1	\$	609-612
ICHACTYP	\$	614-621
ICHALWRE	\$	623-626
ICHALWWR	\$	628-631
ICHRSV2	\$	633-636
ICHKEY	\$	638-645
ICHID		647-656
ICHCRUID		658-667
ICHCRGID		669-678

;

```

LABEL ICHCLASS = 'Class name'
      ICHUSERN = 'User name'
      ICHUTKNE = 'Utoken encr.?'
      ICHUPRE  = 'Pre-1.9?'

```

```

ICHUVFYX = 'VERIFYX propagation?'
ICHUNJEU = 'Undefined NJE user?'
ICHUUAUD = 'UAUDIT?'
ICHUSPEC = 'RACF special?'
ICHUDFLT = 'Default token?'
ICHUUNDF = 'Undefined user?'
ICHUERR = 'Token in error?'
ICHUTRST = 'User trusted?'
ICHUSEST = 'Session type'
ICHUSURO = 'Surrogate user?'
ICHURMT = 'Remote job?'
ICHUPRVL = 'Privileged user?'
ICHUSECL = 'User SECLABEL'
ICHUEXND = 'Execution node'
ICHUSUSR = 'Submitting user'
ICHUSNOD = 'Submitting node'
ICHUSGRP = 'Submitting group'
ICHUSPOE = 'Port of entry'
ICHUSPCL = 'Class of POE'
ICHUTUSR = 'Userid'
ICHUTGRP = 'Groupid'
ICHUTDFT = 'Default group?'
ICHUTSEC = 'Default SECLABEL?'
ICHAPPC = 'APPC key link'
ICHAUDIT = 'Audit code'
ICHORUID = 'Old real UID'
ICHOEUID = 'Old effective UID'
ICHOSUID = 'Old saved UID'
ICHORGID = 'Old real GID'
ICHOEGID = 'Old effective GID'
ICHOSGID = 'Old saved GID'
ICHKOUID = 'Key owner UID'
ICHKOGID = 'Key owner GID'
ICHREQRE = 'Read req?'
ICHREQWR = 'Write req?'
ICHREQEX = 'Exec req?'
ICHRSV1 = 'Reserved'
ICHACTYP = 'Access type'
ICHALWRE = 'Read allowed?'
ICHALWWR = 'Write allowed?'
ICHRSV2 = 'Reserved'
ICHKEY = 'IPC key'
ICHID = 'IPC unique id'
ICHCRUID = 'Creator UID'
ICHCRGID = 'Creator GID'
;
    OUTPUT RACF.IPCCHK;
END;
%END;
%MEND IPCCHK;

```

```

./          ADD    LIST=ALL,NAME=IPCGET
%MACRO IPCGET(REQ=);
  %LET REQ = %UPCASE(&REQ);
  %IF &REQ = DEFINE %THEN
    %DO;
      %PUT Including variables from IPCGET extension;
      RACF.IPCGET (KEEP=%SMFHDR
                  %SMF80HDR(REQ=DEFINE)
                  IGTCLASS
                  IGTUSERN
                  IGTUTKNE
                  IGTUPRE
                  IGTUVFYX
                  IGTUNJEU
                  IGTUUAUD
                  IGTUSPEC
                  IGTUDFLT
                  IGTUUNDF
                  IGTUERR
                  IGTUTRST
                  IGTUSEST
                  IGTUSURO
                  IGTURMT
                  IGTUPRVL
                  IGTUSECL
                  IGTUEXND
                  IGTUSUSR
                  IGTUSNOD
                  IGTUSGRP
                  IGTUSPOE
                  IGTUSPCL
                  IGTUTUSR
                  IGTUTGRP
                  IGTUTDFT
                  IGTUTSEC
                  IGTAPPC
                  IGTAUDIT
                  IGTORUID
                  IGTOEUID
                  IGTOSUID
                  IGTORGID
                  IGTOEGID
                  IGTOSGID
                  IGTKOUID
                  IGTKOGID
                  IGTRSV1
                  IGTRSV2
                  IGTRSV3
                  IGTRQORD
                  IGTRQOWR

```

```

IGTRQOEX
IGTRQGRD
IGTRQGWR
IGTRQGEX
IGTRQWRD
IGTRQWWR
IGTRQWEX
IGTKEY
IGTID
IGTCRUID
IGTCRGID
)
%END;
%IF &REQ = EXTRACT %THEN
%DO;
%PUT Including datadefinition for IPCGET extension;
WHEN('IPCGET') DO;
  INPUT %SMF80HDR(REQ=EXTRACT)
    IGTCLASS $      282-289
    IGTUSERN $      291-310
    IGTUTKNE $      312-315
    IGTUPRE $       317-320
    IGTUVFYX $      322-325
    IGTUNJEU $      327-330
    IGTUUAUD $      332-335
    IGTUSPEC $      337-340
    IGTUDFLT $      342-345
    IGTUUNDF $      347-350
    IGTUERR $       352-355
    IGTUTRST $      357-360
    IGTUSEST $      362-369
    IGTUSURO $      371-374
    IGTURMT $       376-379
    IGTUPRVL $      381-384
    IGTUSECL $      386-393
    IGTUEXND $      395-402
    IGTUSUSR $      404-411
    IGTUSNOD $      413-420
    IGTUSGRP $      422-429
    IGTUSPOE $      431-438
    IGTUSPCL $      440-447
    IGTUTUSR $      449-456
    IGTUTGRP $      458-465
    IGTUTDFT $      467-470
    IGTUTSEC $      472-475
    IGTAPPC $       477-492
    IGTAUDIT $      494-504
    IGTORUID        506-515
    IGTOEUID        517-526
    IGTOSUID        528-537

```

IGTORGID	539-548
IGTOEGID	550-559
IGTOSGID	561-570
IGTKOUID	572-581
IGTKOGID	583-592
IGTRSV1 \$	594-597
IGTRSV2 \$	599-602
IGTRSV3 \$	604-607
IGTRQORD \$	609-612
IGTRQOWR \$	614-617
IGTRQOEX \$	619-622
IGTRQGRD \$	624-627
IGTRQGWR \$	629-632
IGTRQGEX \$	634-637
IGTRQWRD \$	639-642
IGTRQWWR \$	644-647
IGTRQWEX \$	649-652
IGTKEY \$	654-661
IGTID	663-672
IGTCRUID	674-683
IGTCRGID	685-694

;

```

LABEL IGTCLASS = 'Class name'
      IGTUSERN = 'User name'
      IGTUTKNE = 'Utoken encr.?'
      IGTUPRE  = 'Pre-1.9?'
      IGTUVFYX = 'VERIFYX propagation?'
      IGTUNJEU = 'Undefined NJE user?'
      IGTUUAUD = 'UAUDIT?'
      IGTUSPEC = 'RACF special?'
      IGTUDFLT = 'Default token?'
      IGTUUNDF = 'Undefined user?'
      IGTUERR  = 'Token in error?'
      IGTUTRST = 'User trusted?'
      IGTUSEST = 'Session type'
      IGTUSURO = 'Surrogate user?'
      IGTURMT  = 'Remote job?'
      IGTUPRVL = 'Privileged user?'
      IGTUSECL = 'User SECLABEL'
      IGTUEXND = 'Execution node'
      IGTUSUSR = 'Submitting user'
      IGTUSNOD = 'Submitting node'
      IGTUSGRP = 'Submitting group'
      IGTUSPOE = 'Port of entry'
      IGTUSPCL = 'Class of POE'
      IGTUTUSR = 'Userid'
      IGTUTGRP = 'Groupid'
      IGTUTDFT = 'Default group?'
      IGTUTSEC = 'Default SECLABEL?'
      IGTAPPC  = 'APPC key link'

```



```

IGTAUDIT = 'Audit code'
IGTORUID = 'Old real UID'
IGTOEUID = 'Old effective UID'
IGTOSUID = 'Old saved UID'
IGTORGID = 'Old real GID'
IGTOEGID = 'Old effective GID'
IGTOSGID = 'Old saved GID'
IGTKOUID = 'Key owner UID'
IGTKOGID = 'Key owner GID'
IGTRSV1 = 'Reserved'
IGTRSV2 = 'Reserved'
IGTRSV3 = 'Reserved'
IGTRQORD = 'Owner read req ?'
IGTRQOWR = 'Owner write req ?'
IGTRQOEX = 'Owner exec req ?'
IGTRQGRD = 'Group read req ?'
IGTRQGWR = 'Group write req ?'
IGTRQGEX = 'Group exec req ?'
IGTRQWRD = 'Other read req ?'
IGTRQWWR = 'Other write req ?'
IGTRQWEX = 'Other exec req ?'
IGTKEY   = 'IPC key'
IGTID    = 'IPC unique id'
IGTCRUID = 'Creator UID'
IGTCRGID = 'Creator GID'
;
    OUTPUT RACF.IPCGET;
END;
%END;
%MEND IPCGET;
./      ADD    LIST=ALL,NAME=IPCCTL
%MACRO IPCCTL(REQ=);
    %LET REQ = %UPCASE(&REQ);
    %IF &REQ = DEFINE %THEN
        %DO;
            %PUT Including variables from IPCCTL extension;
            RACF.IPCCTL (KEEP=%SMFHDR
                        %SMF80HDR(REQ=DEFINE)
                        ICTCLASS
                        ICTUSERN
                        ICTUTKNE
                        ICTUPRE
                        ICTUVFYX
                        ICTUNJEU
                        ICTUUAUD
                        ICTUSPEC
                        ICTUDFLT
                        ICTUUNDF
                        ICTUERR
                        ICTUTRST

```

ICTUSEST
ICTUSURO
ICTURMT
ICTUPRVL
ICTUSECL
ICTUEXND
ICTUSUSR
ICTUSNOD
ICTUSGRP
ICTUSPOE
ICTUSPCL
ICTUTUSR
ICTUTGRP
ICTUTDFT
ICTUTSEC
ICTAPPC
ICTAUDIT
ICTORUID
ICTOEUID
ICTOSUID
ICTORGID
ICTOEGID
ICTOSGID
ICTKOID
ICTKOGID
ICTUID
ICTGID
ICTRSV1
ICTRSV2
ICTRSV3
ICTOLORD
ICTOLWR
ICTOLOEX
ICTOLGRD
ICTOLGWR
ICTOLGEX
ICTOLWRD
ICTOLWWR
ICTOLWEX
ICTRSV4
ICTRSV5
ICTRSV6
ICTNWORD
ICTNWWR
ICTNWOEX
ICTNWGRD
ICTNWGWR
ICTNWGEX
ICTNWRD
ICTNWWW

ICTNWWEX
ICTSRVCD
ICTRSV7
ICTRSV8
ICTRSV9
ICTRQORD
ICTRQOWR
ICTRQOEX
ICTRQGRD
ICTRQGWR
ICTRQGEX
ICTRQWRD
ICTRQWWR
ICTRQWEX
ICTKEY
ICTID
ICTCRUID
ICTCRGID

Editor's note: this article will be concluded in the next issue.

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Cross-checking RACF/MVS definitions – part 2

This month we conclude the article on cross-checking the interdependency of certain MVS and RACF definitions.

FROM A RACF USER POINT OF VIEW

This routine will look at the definitions from the point of view of a RACF user:

```
//STEP1 EXEC PGM=IEBGENER GENERATE CLIST
//SYSIN DD DUMMY
//SYSPRINT DD SYSOUT=*
//SYSUT2 DD DSN=&&TEMP(CLIST),DISP=(,PASS),SPACE=(TRK,(1,1,1)),
// UNIT=VIO
//SYSUT1 DD *
/*
/* CHECK THAT USER FROM RACF HAS APPROPRIATE
/* RACF/ALIAS/DATASET/NOT IN UADS/ DEFINITIONS
/*
/* Parameters:
/* RC1 - RCn: mail receivers
/*
PROC Ø ID('USER RACF CHECK') DEBUG(NEBUG) RC1(MAILUS1) RC2() +
RC3() RC4() RC5() RC6() RC7() RC8()
CONTROL MSG NOFLUSH NOLIST NOCONLIST NOSYMLIST
ATTN DO
SET &FLUSH = FLUSH /* NEXT STATEMENT MUST BE NULL LINE */

END
ERROR DO
SET &RET = &LASTCC
RETURN
END
IF &FLUSH = FLUSH THEN DO
EXIT CODE(Ø)
END
IF &STR(&DEBUG) = DEBUG THEN DO
CONTROL MSG NOFLUSH LIST CONLIST SYMLIST
END
OPENFILE OUT OUTPUT
SET OUT = USER STATUS FROM A RACF POINT OF VIEW
PUTFILE OUT
IF &SYSPREF.. = . THEN DO
PROFILE PREFIX(INSTPREF) /* Default prefix */
END
```

```

ELSE DO
  PROFILE PREFIX(&SYSUID)
END
SET &TSTAMP = +
&STR(T)&SUBSTR(1:2,&SYSTIME)&SUBSTR(4:5,&SYSTIME)&SUBSTR(7:8,&SYSTIME)
DEL '&SYSPREF..&TSTAMP..TEMP.LIST'
SET &CNT = 0
SET &RET = 0
ALLOC FI(LIST) DA('&SYSPREF..&TSTAMP..TEMP.LIST') +
NEW SPACE(1 1) CYLINDERS +
STORCLAS(TEMP) MGMTCLAS(TEMP) RECFM(F B) LRECL(80) BLKSIZE(27920) REUSE
DO WHILE &RET NE 0 AND &CNT < 300 THEN DO
  SET &TSTAMP = +
  &STR(T)&SUBSTR(1:2,&SYSTIME)&SUBSTR(4:5,&SYSTIME)&SUBSTR(7:8,&SYSTIME)
  DEL '&SYSPREF..&TSTAMP..TEMP.LIST'
  SET &RET = 0
  ALLOC FI(LIST) DA('&SYSPREF..&TSTAMP..TEMP.LIST') +
  NEW SPACE(1 1) CYLINDERS +
  STORCLAS(TEMP) MGMTCLAS(TEMP) RECFM(F B) LRECL(80) BLKSIZE(27920) REUSE
  IF &RET NE 0 THEN DO
    FREE DA('&SYSPREF..&TSTAMP..TEMP.LIST')
  END
  SET &CNT = &CNT + 1
  SLEEP 15
END
SET &PREFIX = &SYSPREF
OPENFILE LIST OUTPUT
SET LIST = USER STATUS FROM A RACF POINT OF VIEW
PUTFILE LIST
SET &RP = &STR()
PROFILE NOPREFIX
SET &SYSOUTTRAP = 999999
SEARCH ALL CLASS(USER) NOMASK LIST
SET &SYSOUTTRAP = 0
SET &MAXLINE = &SYSOUTLINE
SET &USER = USER
SET &P = 0
SET &RET = 0
DO WHILE &P < &MAXLINE
  SET &P = &P + 1
  SET &SYSDVAL = &STR(&&SYSOUTLINE&P)
  SET &SYSDVAL = &STR(&SYSDVAL)
  READDVAL &A1 &A2 &A3 &A4 &A5 &A6 &A7 &A8
  SET &&USER&P = &STR(&A1)
END
SET &P = 0
SET &RET = 0
DO WHILE &P < &MAXLINE
  SET &P = &P + 1
  SET &A1 = &STR(&&USER&P)

```

```

IF &STR(&A1) NE &STR() THEN DO
WRITE
WRITE &STR(=====>) INFORMATION FOR USER &STR("&A1")
SET &HLQ = NO
SET &DS = NO
SET &RACFU = NO
SET &RACFT = NO
SET &GROUP = NO
SET &DSP = NO
SET &UADS = NO
SET &SYSOUTTRAP = 99999
SET &RET = Ø
LISTC ALL ENT('&A1'&RP
SET &SYSOUTTRAP = Ø
IF &RET = Ø THEN DO
SET &HLQ = YES
SET &SYSOUTTRAP = 99999
SET &RET = Ø
LISTC LEVEL(&A1&RP
SET &SYSOUTTRAP = Ø
IF &RET = Ø THEN DO
SET &DS = YES
WRITE SOME DATASETS/ENTRIES DO EXIST UNDER ALIAS &STR("&A1")
END
ELSE DO
WRITE NO DATASETS/ENTRIES EXIST UNDER ALIAS &STR("&A1")
END
END
ELSE DO
WRITE NO ALIAS EXISTS FOR &STR("&A1") ANY LONGER
END
SET &RET = Ø
LG &A1
IF &RET = Ø THEN DO
SET &GROUP = YES
END
ELSE DO
WRITE NO RACF GROUP EXISTS FOR &STR("&A1")
CONTROL NOMSG
SET &SYSOUTTRAP = 999999
SET &RET = Ø
LU &A1
SET &SYSOUTTRAP = Ø
SET &LURET = &RET
CONTROL MSG
IF &LURET < 4 THEN DO
SET &RACFU = YES
WRITE "&A1" USER EXISTS IN RACF
SET &SYSOUTTRAP = 999999
LU &A1 TSO NORACF

```

```

SET &SYSOUTTRAP = 0
SET &MAXTSO = &SYSOUTLINE
SET &RACFTSO = &STR()
SET &N = 0
SET &RET = 0
DO WHILE &N < &MAXTSO
  SET &N = &N + 1
  SET &SYSDVAL = &STR(&&SYSOUTLINE&N)
  SET &SYSDVAL = &STR(&SYSDVAL)
  READDVAL &B1 &B2 &B3 &B4 &B5 &B6 &B7 &B8
  IF &STR(&B1) = NO AND &STR(&B2) = TSO AND &STR(&B3) = INFORMATION +
  THEN DO
    WRITE "&A1" IS NOT DEFINED AS TSO USER IN RACF
    SET &RACFTSO = NO
  END
END
IF &RACFTSO NE NO THEN DO
  SET &RACFT = YES
  WRITE "&A1" IS DEFINED AS TSO USER IN RACF
END
ELSE DO
  WRITE "&A1" DOES NOT EXIST AS USER IN RACF
END
END
SET &RET = 0
SET &MEMBER = &A1
SET &MEMBER = &MEMBER.&STR(.)
SEARCH ALL CLASS(DATASET) MASK(&MEMBER) LIST
IF &RET > 0 THEN DO
  WRITE NO RACF DATASET PROFILES EXIST FOR &STR("&A1")
END
ELSE DO
  SET &DSP = YES
END
SET &MEMBER = &A1
SET &MEMBER = &MEMBER.0
IF &LENGTH(&STR(&A1)) < 8 THEN DO
  SET &UADS = &STR(&SYSDSN('SYS1.UADS(&MEMBER)'))
  WRITE TSO DEFINITION IN SYS1.UADS = &UADS FOR &STR("&A1")
  IF &STR(&UADS) = OK THEN DO
    SET &UADS = YES
  END
END
ELSE DO
  WRITE TSO DEFINITION IN SYS1.UADS = MEMBER NOT FOUND FOR &STR("&A1")
END
IF &RACFU NE YES THEN DO
  WRITE ==> LOGICAL ERROR: USER &STR("&A1") MISSING
  SET &OUT = &STR(LOGICAL ERROR: USER &STR("&A1") MISSING)

```

```

PUTFILE OUT
SET &LIST = &STR(&OUT)
PUTFILE LIST
WTP &STR(&OUT)
SET &ERROR = YES
END
IF &RACFT NE YES THEN DO
IF &UADS = YES THEN DO
WRITE ==> ERROR: &STR("&A1") TSO DEFINED IN UADS, SHOULD BE IN RACF
SET &OUT = +
&STR(ERROR: &STR("&A1") TSO DEFINED IN UADS, SHOULD BE IN RACF)
PUTFILE OUT
SET &LIST = &STR(&OUT)
PUTFILE LIST
WTP &STR(&OUT)
SET &ERROR = YES
END
IF &HLQ = YES THEN DO
/* Substitute the following names, USPFn, with users without TSO. */
/* Segment allowed to have HLQ defined, eg certain STCs */
IF &STR(&A1) NE USPFI AND &STR(&A1) NE USPFI AND +
&STR(&A1) NE USPFI AND &STR(&A1) NE USPFI +
THEN DO
WRITE ==> +
ERROR: ALIAS EXISTS FOR NON-TSO USER &STR("&A1")
SET &OUT = +
&STR(ERROR: ALIAS EXISTS FOR NON-TSO USER &STR("&A1"))
PUTFILE OUT
SET &LIST = &STR(&OUT)
PUTFILE LIST
WTP &STR(&OUT)
SET &ERROR = YES
END
END
IF &DS = YES THEN DO
/* Substitute the following names, USPFn, with users without TSO. */
/* Segment allowed to have datasets defined, eg certain STCs */
IF &STR(&A1) NE USPFI AND &STR(&A1) NE USPFI AND +
&STR(&A1) NE USPFI AND &STR(&A1) NE USPFI +
THEN DO
WRITE ==> +
ERROR: DATASET EXISTS FOR NON-TSO USER &STR("&A1")
SET &OUT = +
&STR(ERROR: DATASET EXISTS FOR NON-TSO USER &STR("&A1"))
PUTFILE OUT
SET &LIST = &STR(&OUT)
PUTFILE LIST
WTP &STR(&OUT)
SET &ERROR = YES
END
END

```



```

END
IF &DSP = YES THEN DO
  /* Substitute the following names, USPFn, with users without TSO. */
  /* Segment allowed to have DS profiles defined, eg certain STCs */
  IF &STR(&A1) NE USPF1 AND &STR(&A1) NE USPF2 AND +
  &STR(&A1) NE USPF3 AND &STR(&A1) NE USPF4 +
  THEN DO
    WRITE ==> +
    ERROR: DATASET PROFILE EXISTS FOR NON-TSO USER &STR("&A1")
    SET &OUT = +
    &STR(ERROR: DATASET PROFILE EXISTS FOR NON-TSO USER +
    &STR("&A1"))
    PUTFILE OUT
    SET &LIST = &STR(&OUT)
    PUTFILE LIST
    WTP &STR(&OUT)
    SET &ERROR = YES
  END
END
IF &DSP NE YES THEN DO
  IF &DS = YES THEN DO
    WRITE ==> ERROR: DATASET EXISTS FOR NON-TSO USER &STR("&A1") +
    WITHOUT RACF PROFILE
    SET &OUT = +
    &STR(ERROR: DATASET EXISTS FOR NON-TSO USER &STR("&A1") +
    WITHOUT RACF PROFILE)
    PUTFILE OUT
    SET &LIST = &STR(&OUT)
    PUTFILE LIST
    WTP &STR(&OUT)
    SET &ERROR = YES
  END
END
END
IF &RACFT = YES THEN DO
  IF &HLQ NE YES THEN DO
    WRITE ==> ERROR: ALIAS MISSING FOR USER &STR("&A1")
    SET &OUT = &STR(ERROR: ALIAS MISSING FOR USER &STR("&A1"))
    PUTFILE OUT
    SET &LIST = &STR(&OUT)
    PUTFILE LIST
    WTP &STR(&OUT)
    SET &ERROR = YES
  END
END
IF &DS NE YES THEN DO
  WRITE ==> POSSIBLE ERROR: NO DATASET FOR USER &STR("&A1")
  SET &OUT = &STR(POSSIBLE ERROR: NO DATASET FOR TSO USER &STR("&A1"))
  PUTFILE OUT
END
IF &DSP NE YES THEN DO

```

```

WRITE ==> ERROR: NO DATASET RACF PROFILE FOR USER &STR("&A1")
SET &OUT = &STR(ERROR: NO DATASET RACF PROFILE FOR USER &STR("&A1"))
PUTFILE OUT
SET &LIST = &STR(&OUT)
PUTFILE LIST
WTP &STR(&OUT)
SET &ERROR = YES
IF &DS = YES THEN DO
  WRITE ==>          BUT DATASETS EXIST.
  SET &OUT = &STR(          BUT DATASETS EXIST.)
  PUTFILE OUT
  SET &LIST = &STR(&OUT)
  PUTFILE LIST
  WTP &STR(&OUT)
END
END
IF &UADS = YES THEN DO
  /* The following users are allowed in UADs for emergency purposes */
  IF &STR(&A1) NE USER01 AND +
  &STR(&A1) NE USER02 AND +
  &STR(&A1) NE USER03 AND +
  &STR(&A1) NE USER04 THEN DO
    WRITE ==> ERROR: &STR("&A1") TSO USER BOTH IN RACF AND UADS
    SET &OUT = &STR(ERROR: &STR("&A1") TSO USER BOTH IN RACF AND UADS)
    PUTFILE OUT
    SET &LIST = &STR(&OUT)
    PUTFILE LIST
    WTP &STR(&OUT)
    SET &ERROR = YES
  END
END
END
END
END
CLOSFIL OUT
CLOSFIL LIST
IF &ERROR = YES THEN DO
  SET &RC = RC
  SET &N = 1
  SET &RC = &&RC&N
  DO WHILE &RC NE &STR() AND &N < 9
    %MAILSENS ID('&ID') RC('&RC') DS(&PREFIX..&TSTAMP..TEMP.LIST) +
    DEBUG(&DEBUG) RCDOMAIN(YES) /* INFORM ERROR STATUS VIA MAIL */
    SET &N = &N + 1
    SET &RC = &&RC&N
  END
END
FREE DA('&PREFIX..&TSTAMP..TEMP.LIST')
DEL '&PREFIX..&TSTAMP..TEMP.LIST'
/*

```

```

//STEP2 EXEC PGM=IKJEFT01,DYNAMNBR=128, EXECUTE CLIST
// PARM='%CLIST DEBUG(NEBUG) '
//SYSTSPRT DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//OUT DD SYSOUT=*
//SYSPROC DD DSN=&TEMP,DISP=(OLD,PASS)
// DD DSN=SYSTEM.CLIST,DISP=SHR
//SYSTSIN DD DUMMY
//SYSIN DD DUMMY
//*

```

FROM A SYS1.UADS POINT OF VIEW

This routine looks at the definitions from the point of view of SYS1.UADs:

```

//STEP1 EXEC PGM=IEBGENER GENERATE CLIST
//SYSIN DD DUMMY
//SYSPRINT DD SYSOUT=*
//SYSUT2 DD DSN=&&TEMP(CLIST),DISP=(,PASS),SPACE=(TRK,(1,1,1)),
// UNIT=VIO
//SYSUT1 DD *
/*
/* CHECK THAT USER FROM UADS HAS APPROPRIATE
/* RACF/ALIAS/DATASET DEFINITIONS.
/* NON-AUTHORIZED USERS DEFINED IN UADS WILL BE DELETED FROM UADS
/*
/* Parameters:
/* RC1 - RCn: mail receivers
/*
PROC 0 ID('UADS RACF CHECK') DEBUG(NEBUG) RC1(MAILUS1) RC2() +
RC3() RC4() RC5() RC6() RC7() RC8()
CONTROL MSG NOFLUSH NOLIST NOCONLIST NOSYMLIST
ATTN DO
SET &FLUSH = FLUSH /* NEXT STATEMENT MUST BE NULL LINE */

END
ERROR DO
SET &RET = &LASTCC
RETURN
END
IF &FLUSH = FLUSH THEN DO
EXIT CODE(0)
END
IF &STR(&DEBUG) = DEBUG THEN DO
CONTROL MSG NOFLUSH LIST CONLIST SYMLIST
END
OPENFILE OUT OUTPUT
SET OUT = STATUS FROM SYS1.UADS POINT OF VIEW

```

```

PUTFILE OUT
IF &SYSPREF.. = . THEN DO
  PROFILE PREFIX(INSTPREFIX)          /* Default prefix */
END
ELSE DO
  PROFILE PREFIX(&SYSUID)
END
SET &TSTAMP = +
&STR(T)&SUBSTR(1:2,&SYSTIME)&SUBSTR(4:5,&SYSTIME)&SUBSTR(7:8,&SYSTIME)
DEL '&SYSPREF..&TSTAMP..TEMP.LIST'
SET &CNT = 0
SET &RET = 0
ALLOC FI(LIST) DA('&SYSPREF..&TSTAMP..TEMP.LIST') +
NEW SPACE(1 1) CYLINDERS +
STORCLAS(TEMP) MGMTCLAS(TEMP) RECFM(F B) LRECL(80) BLKSIZE(27920) REUSE
DO WHILE &RET NE 0 AND &CNT < 300 THEN DO
  SET &TSTAMP = +
  &STR(T)&SUBSTR(1:2,&SYSTIME)&SUBSTR(4:5,&SYSTIME)&SUBSTR(7:8,&SYSTIME)
  DEL '&SYSPREF..&TSTAMP..TEMP.LIST'
  SET &RET = 0
  ALLOC FI(LIST) DA('&SYSPREF..&TSTAMP..TEMP.LIST') +
  NEW SPACE(1 1) CYLINDERS +
  STORCLAS(TEMP) MGMTCLAS(TEMP) RECFM(F B) LRECL(80) BLKSIZE(27920) REUSE
  IF &RET NE 0 THEN DO
    FREE DA('&SYSPREF..&TSTAMP..TEMP.LIST')
  END
  SET &CNT = &CNT + 1
  SLEEP 15
END
SET &PREFIX = &SYSPREF
OPENFILE LIST OUTPUT
SET LIST = STATUS FROM SYS1.UADS POINT OF VIEW
PUTFILE LIST
SET &RP = &STR()
PROFILE NOPREFIX
SET &USER = USER
SET &P = 0
SET &RET = 0
SET &SYSOUTTRAP = 999999
LISTDS 'SYS1.UADS' MEMBERS
SET &P = 0
SET &MAXLINE = &SYSOUTLINE
DO WHILE &P < &MAXLINE
  SET &P = &P + 1
  SET &SYSDVAL = &STR(&&SYSOUTLINE&P)
  SET &SYSDVAL = &STR(&SYSDVAL)
  READDVAL &A1 &A2 &A3 &A4 &A5 &A6 &A7 &A8
  IF &MEMBON = YES THEN DO
    SET &&USER&P = &STR(&A1)
  END
END

```

```

IF &STR(&A1) = &STR(-MEMBERS-) THEN DO
  SET &MEMBON = YES
END
END
SET &P = 0
SET &RET = 0
DO WHILE &P < &MAXLINE
  SET &P = &P + 1
  SET &A1 = &STR(&&USER&P)
  SET &A1 = &SUBSTR(1:&LENGTH(&A1)-1,&STR(&A1))
  IF &STR(&A1) NE &STR() THEN DO
    WRITE
    WRITE &STR(=====>) INFORMATION FOR USER &STR("&A1")
    SET &HLQ = NO
    SET &DS = NO
    SET &RACFU = NO
    SET &RACFT = NO
    SET &GROUP = NO
    SET &DSP = NO
    SET &UADS = NO
    SET &SYSOUTTRAP = 99999
    SET &RET = 0
    LISTC ALL ENT('&A1'&RP
    SET &SYSOUTTRAP = 0
    IF &RET = 0 THEN DO
      SET &HLQ = YES
      SET &SYSOUTTRAP = 99999
      SET &RET = 0
      LISTC      LEVEL(&A1&RP
      SET &SYSOUTTRAP = 0
      IF &RET = 0 THEN DO
        SET &DS = YES
        WRITE SOME DATASETS/ENTRIES DO EXIST UNDER ALIAS &STR("&A1")
      END
    ELSE DO
      WRITE NO DATASETS/ENTRIES EXIST UNDER ALIAS &STR("&A1")
    END
  END
  ELSE DO
    WRITE NO ALIAS EXISTS FOR &STR("&A1") ANY LONGER
  END
  SET &RET = 0
  LG &A1
  IF &RET = 0 THEN DO
    SET &GROUP = YES
  END
  ELSE DO
    WRITE NO RACF GROUP EXISTS FOR &STR("&A1")
    CONTROL NOMSG
    SET &SYSOUTTRAP = 999999
  END
END

```

```

SET &RET = 0
LU &A1
SET &SYSOUTTRAP = 0
SET &LURET = &RET
CONTROL MSG
IF &LURET < 4 THEN DO
  SET &RACFU = YES
  WRITE "&A1" USER EXISTS IN RACF
  SET &SYSOUTTRAP = 999999
  LU &A1 TSO NORACF
  SET &SYSOUTTRAP = 0
  SET &MAXTSO = &SYSOUTLINE
  SET &RACFTSO = &STR()
  SET &N = 0
  SET &RET = 0
  DO WHILE &N < &MAXTSO
    SET &N = &N + 1
    SET &SYSDVAL = &STR(&&SYSOUTLINE&N)
    SET &SYSDVAL = &STR(&SYSDVAL)
    READDVAL &B1 &B2 &B3 &B4 &B5 &B6 &B7 &B8
    IF &STR(&B1) = NO AND &STR(&B2) = TSO AND &STR(&B3) = INFORMATION +
    THEN DO
      WRITE "&A1" IS NOT DEFINED AS TSO USER IN RACF
      SET &RACFTSO = NO
    END
  END
  IF &RACFTSO NE NO THEN DO
    SET &RACFT = YES
    WRITE "&A1" IS DEFINED AS TSO USER IN RACF
  END
END
ELSE DO
  WRITE "&A1" DOES NOT EXIST AS USER IN RACF
END
END
SET &RET = 0
SET &MEMBER = &A1
SET &MEMBER = &MEMBER.&STR(.)
SEARCH ALL CLASS(DATASET) MASK(&MEMBER) LIST
IF &RET > 0 THEN DO
  WRITE NO RACF DATASET PROFILES EXIST FOR &STR("&A1")
END
ELSE DO
  SET &DSP = YES
END
SET &MEMBER = &A1
SET &MEMBER = &MEMBER.0
IF &LENGTH(&STR(&A1)) < 8 THEN DO
  SET &UADS = &STR(&SYSDSN('SYS1.UADS(&MEMBER)'))
  WRITE TSO DEFINITION IN SYS1.UADS = &UADS FOR &STR("&A1")

```

```

IF &STR(&UADS) = OK THEN DO
  SET &UADS = YES
END
ELSE DO
  WRITE TSO DEFINITION IN SYS1.UADS = MEMBER NOT FOUND FOR &STR("&A1")
END
IF &UADS NE YES THEN DO
  WRITE ==> LOGICAL ERROR: USER &STR("&A1") MISSING
  SET &OUT = &STR(LOGICAL ERROR: USER &STR("&A1") MISSING)
  PUTFILE OUT
  SET &LIST = &STR(&OUT)
  PUTFILE LIST
  WTP &STR(&OUT)
  SET &ERROR = YES
END
IF &UADS = YES THEN DO
  IF &HLQ NE YES THEN DO
    WRITE ==> ERROR: ALIAS MISSING FOR USER &STR("&A1")
    SET &OUT = &STR(ERROR: ALIAS MISSING FOR USER &STR("&A1"))
    PUTFILE OUT
    SET &LIST = &STR(&OUT)
    PUTFILE LIST
    WTP &STR(&OUT)
    SET &ERROR = YES
  END
  IF &DS NE YES THEN DO
    WRITE ==> POSSIBLE ERROR: NO DATASET FOR USER &STR("&A1")
    SET &OUT = &STR(POSSIBLE ERROR: NO DATASET FOR USER &STR("&A1"))
    PUTFILE OUT
  END
  IF &DSP NE YES THEN DO
    WRITE ==> ERROR: NO DATASET RACF PROFILE FOR USER &STR("&A1")
    SET &OUT = &STR(ERROR: NO DATASET RACF PROFILE FOR USER &STR("&A1"))
    PUTFILE OUT
    SET &LIST = &STR(&OUT)
    PUTFILE LIST
    WTP &STR(&OUT)
    SET &ERROR = YES
    IF &DS = YES THEN DO
      WRITE ==>          BUT DATASETS EXIST.
      SET &OUT = &STR(          BUT DATASETS EXIST.)
      PUTFILE OUT
      SET &LIST = &STR(&OUT)
      PUTFILE LIST
      WTP &STR(&OUT)
    END
  END
END
/* The following users are allowed in UADs for emergency purposes. */
/* Installation standard requires TSO users to be exclusively      */

```

```

/* defined using RACF TSO segment otherwise. */
IF &STR(&A1) NE USERØ1 AND +
&STR(&A1) NE USERØ2 AND +
&STR(&A1) NE USERØ3 AND +
&STR(&A1) NE USERØ4 THEN DO
  IF &RACFT = YES AND &UADS = YES THEN DO
    WRITE ==> ERROR: &STR("&A1") TSO USER BOTH IN RACF AND UADS
    SET &OUT = &STR(ERROR: &STR("&A1") TSO USER BOTH IN RACF AND UADS)
    PUTFILE OUT
    SET &LIST = &STR(&OUT)
    PUTFILE LIST
    WTP &STR(&OUT)
    SET &ERROR = YES
    ALLOC FI(UADS) DA('SYS1.UADS') SHR REUSE
    DEL 'SYS1.UADS(&STR(&A1.Ø))' FILE(UADS)
    DEL 'SYS1.UADS(&STR(&A1.1))' FILE(UADS)
    DEL 'SYS1.UADS(&STR(&A1.2))' FILE(UADS)
    /* delete evt up to suffix 9 */
    FREE FI(UADS)
    WRITE &STR(==> USER &A1 DELETED FROM UADS)
    SET &OUT = &STR(==> USER &A1 DELETED FROM UADS)
    PUTFILE OUT
    SET &LIST = &STR(&OUT)
    PUTFILE LIST
    WTP &STR(&OUT)
  END
END
/* Installation standard requires TSO users to be exclusively */
/* defined using RACF TSO segment. */
IF &RACFT = NO AND &UADS = YES THEN DO
  WRITE ==> ERROR: &STR("&A1") TSO USER IS DEFINED IN UADS; SHOULD +
  BE IN RACF ONLY
  SET &OUT = &STR(ERROR: &STR("&A1") TSO USER IS DEFINED IN UADS; +
  SHOULD BE IN RACF ONLY)
  PUTFILE OUT
  SET &LIST = &STR(&OUT)
  PUTFILE LIST
  WTP &STR(&OUT)
  SET &ERROR = YES
  ALLOC FI(UADS) DA('SYS1.UADS') SHR REUSE
  DEL 'SYS1.UADS(&STR(&A1.Ø))' FILE(UADS)
  DEL 'SYS1.UADS(&STR(&A1.1))' FILE(UADS)
  DEL 'SYS1.UADS(&STR(&A1.2))' FILE(UADS)
  /* delete evt up to suffix 9 */
  FREE FI(UADS)
  WRITE &STR(==> USER &A1 DELETED FROM UADS)
  SET &OUT = &STR(==> USER &A1 DELETED FROM UADS)
  PUTFILE OUT
  SET &LIST = &STR(&OUT)
  PUTFILE LIST

```



```

WTP &STR(&OUT)
END
IF &RACFU NE YES AND &GROUP NE YES THEN DO
WRITE ==> ERROR: &STR("&A1") NEITHER RACF USER NOR GROUP
SET &OUT = &STR(ERROR: &STR("&A1") NEITHER RACF USER NOR GROUP)
PUTFILE OUT
SET &LIST = &STR(&OUT)
PUTFILE LIST
WTP &STR(&OUT)
SET &ERROR = YES
END
IF &UADS = YES AND &GROUP = YES THEN DO
WRITE ==> ERROR: &STR("&A1") BOTH IN UADS AND RACF GROUP
SET &OUT = &STR(ERROR: &STR("&A1") BOTH IN UADS AND RACF GROUP)
PUTFILE OUT
SET &LIST = &STR(&OUT)
PUTFILE LIST
WTP &STR(&OUT)
SET &ERROR = YES
END
IF &UADS = YES AND &RACFU NE YES THEN DO
WRITE ==> ERROR: &STR("&A1") IN UADS BUT NOT A RACF NONTSO USER
SET &OUT = &STR(ERROR: &STR("&A1") IN UADS BUT NOT A RACF +
NONTSO USER.)
PUTFILE OUT
SET &LIST = &STR(&OUT)
PUTFILE LIST
WTP &STR(&OUT)
SET &ERROR = YES
END
END
END
END
CLOSFILE OUT
CLOSFILE LIST
IF &ERROR = YES THEN DO
SET &RC = RC
SET &N = 1
SET &RC = &&RC&N
DO WHILE &RC NE &STR() AND &N < 9
%MAILSENS ID('&ID') RC('&RC') DS(&PREFIX..&TSTAMP..TEMP.LIST) +
DEBUG(&DEBUG) RCDOMAIN(YES) /* INFORM ERROR STATUS VIA MAIL */
SET &N = &N + 1
SET &RC = &&RC&N
END
END
FREE DA('&PREFIX..&TSTAMP..TEMP.LIST')
DEL '&PREFIX..&TSTAMP..TEMP.LIST'
/*
//STEP2 EXEC PGM=IKJEFT01,DYNAMNBR=128, EXECUTE CLIST

```

```
// PARM='%CLIST DEBUG(NEBUG)'
//SYSTSPRT DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//OUT DD SYSOUT=*
//SYSPROC DD DSN=&TEMP,DISP=(OLD,PASS)
// DD DSN=SYSTEM.CLIST,DISP=SHR
//SYSTSIN DD DUMMY
//SYSIN DD DUMMY
//*
```

UTILITY PROGRAMS

The utility program SLEEP, providing the wait function:

```
//*
//* TSO COMMAND, EXEC PGM, CALL OR SUBROUTINE
//* SET THE ADDRESS SPACE IN WAIT THE NUMBER OF SECS INDICATED
//* Examples of how to call for waiting 10 seconds:
//* SLEEP 10
//* // EXEC PGM=SLEEP,PARM='10'
//* CALL 'SYSn.LINKLIB(SLEEP)' '10'
//*
// EXEC ASMCL, MEMBER=SLEEP,
// PARM.ASM='RENT',
// PARM.LKED='XREF,LET,LIST,RENT,REFR,REUS,AC=1'
    GBLC &ID
    GBLA &IDLEN
SLEEP INTR AMODE=31, RMODE=ANY, GENCODE=YES, SIZE=GETSIZE
WORKAREA DSECT
    ORG USERWORK
DW DS D WORK FOR CONVERT
INTVL DS F WAIT INTERVAL
GETSIZE EQU *-WORKAREA
&ID CSECT
    LTR R15,R15 TEST FOR ZERO DATA LENGTH
    BNP EXITRC16 IF NO DATA
    LR R8,R14 GET ADDR OF 1ST DATAADDR
SCAN EQU *
    TM OPTIONS,ATTN IS ATTN FLAG SET
    BO EXIT RETURN IF ATTN
    CLI 0(R8),C'0' TAKE AWAY LEADING NONDIGITS/0
    BH FIRSTDIG GOT A DIGIT
    LA R8,1(R8) POINT TO NEXT
    BCT R15,SCAN RECYCLE
    B EXITRC8 NO VALUE, THEN EXIT WITH ERROR
FIRSTDIG EQU *
    LR R9,R8 SAVE ADDR OF FIRST DIGIT
SCAN2 EQU *
    LA R9,1(R9) GET NEXT BYTE
```

	BCTR	R15,0	COUNT DOWN RESIDUAL COUNT
	LTR	R15,R15	SOMETHING LEFT
	BZ	ENDSCAN	NO MORE INPUT
	CLI	0(R9),C'0'	LOOK FOR NONDIGITS
	BNL	SCAN2	IF DIGIT RESCAN
ENDSCAN	EQU	*	
	SR	R9,R8	COMPUTE LENGTH
	CH	R9,=H'9'	TEST FOR TOO LONG
	BNH	LENOK	LENGTH OK
	LA	R9,9	ASSUME LENGTH OF 9
LENOK	EQU	*	
	BCTR	R9,R0	REDUCE FOR EXECUTE
	LA	R10,7	GET LENGTH OF DOUBLE WORD
	SLL	R10,R4	SHIFT TO HIGH ORDER
	OR	R10,R9	SET UP FOR EXECUTE
	EX	R10,PACK	PACK THE NUMBER
	CVB	R11,DW	CONVERT TO BINARY
	LA	R6,100	GET IN HUNDREDS
	MR	R10,R6	GET IN HUNDREDS
	ST	R11,INTVL	SAVE WAIT TIME
	STIMER	WAIT,BINTVL=INTVL	WAIT
	EXITR		RETURN
PACK	PACK	DW(0),0(0,R8)	EXECUTED PACK
	LTORG		
	END		

The utility program WTP, providing WTP-function:

```
// EXEC ASMCL, MEMBER=WTP
*
* ISSUES WTO WITH ROUTECODE 11 I.E A WTP
* PROGRAM CAN BE EXECUTED VIA JCL, TSO CALL OR AS TSO COMMAND.
*
* // EXEC PGM=WTP WITH INPUT FROM SYSIN OR
* // EXEC PGM=WTP, PARM='XXX XX' OR
* WTP XXX XX TSO COMMAND
*
PRINT NOGEN
CVT DSECT=YES, PREFIX=YES, LIST=NO
PRINT NOGEN
DCBD DSORG=PS
IHAASCB
IHAASXB
IHAPSA
USING PSA,R0
IKJTCTB
IHAACEE
IEZJSCB
IKJPSCB
IEFAJCTB
```

```

IEFTCT
IKJTSB
IEESMCA
IEFUCBOB PREFIX=YES
UCBPFLN EQU UCBCMSEG-UCB
IEFJESCT . JESCT
IEFJSCVT . JSCVT (SSCT)
IHASDWA DSECT=YES SDWA FOR ESTAE/SETRP MACRO
PRINT GEN
WORKAREA DSECT GETMAINED WORKARE
SAVEAREA DS CL72 SAVE AREA
STAXD STAX STAXEXIT,MF=L STAX LIST FORM
ESTAEW DS XL(LESTAE) ESTAE PARM LIST AREA
ESTAPARM DS 4F PARM LIST TO RETRY ROUTINE:
RETCODE DS A RETURN CODE
PARMADDR DS A ADDR OF PARMLIST
OPTIONS DS C EXECUTION OPTIONS
ATTN EQU X'80' ATTN FLAG SET
WORKLEN EQU *-WORKAREA LENGTH TO GETMAIN
ML EQU 120-10 MSG LENGTH - JOBID
&ID SETC 'WTP'
&IDLEN SETA K'&ID
&ID INITR SIZE=WORKLEN,AMODE=24,RMODE=24
USING WORKAREA,R13 ADDRESS WORKAREA
LA R15,WORKLEN-L'SAVEAREA SET UP FOR CLEAR OF GETMAINED
LA R14,WORKAREA+L'SAVEAREA POINT AFTER SAVE AREA
XR R2,R2 SET UP FOR CLEAR OF GETMAINED
XR R3,R3 SET UP FOR CLEAR OF GETMAINED
MVCL R14,R2 CLEAR GETMAINED
XC RETCODE,RETCODE CLEAR RETURN CODE
ST R1,PARMADDR SAVE ADDR OF PARMLIST
* SET UP RECOVERY ENVIRONMENT
LA R0,RTRYRTN1 RETRY ROUTINE - NO SDWA
ST R0,ESTAPARM STORE IN PARAMETER LIST
LA R0,RTRYRTN2 RETRY ROUTINE WITH SDWA
ST R0,ESTAPARM+4 STORE IN PARAMETER LIST
STM R12,R13,ESTAPARM+8 STORE BASE & DATA REG IN PARM
MVC ESTAEW(LESTAE),ESTAEL MOVE IN ESTAE PARAMETER LIST
ESTAE RECOVERY,CT,PARAM=ESTAPARM,MF=(E,ESTAEW) SETUP RCVRY
* SET UP ATTENTION ENVIRONMENT
MVC STAXD(STAXLEN),STAXL MOVE IN STAX LIST TO GETMAINED
STAX STAXEXIT,USADDR=OPTIONS,MF=(E,STAXD) SET ATTN EXIT
L R11,PARMADDR PTR PARM ADDR - FIRST COMMAND
L R11,0(R11) SAVE ADDR OF PARM IN R11
LA R10,INPUT ADDRESS DCB
USING IHADCB,R10 ADDRESS DCB
ICM R2,3,0(R11) LENGTH TO R2
BZ WTPGETIN YES - GET RECORD FROM SYSIN
CH R2,=AL2(4+&IDLEN) TEST FOR ZERO DATA
BL SUBROUT TRY EXEC/CALL

```

	CLC	4(&IDLEN,R11),=C'&ID'	TSO COMMAND
	BNE	SUBROUT	TRY EXEC/CALL
	CH	R2,=AL2(4+&IDLEN)	TEST FOR ZERO DATA
	BE	EXITRC8	IF ZERO, IGNORE
	SH	R2,=AL2(5+&IDLEN)	SUBTRACT LENGTH OF HEADER
	LA	R11,&IDLEN+5-2(R11)	SIMULATE EXEC PARM
SUBROUT	EQU	*	
	C	R2,=A(ML)	COMPARE LENGTH WITH MAX LENGTH
	BNH	WTPMOVE	LENGTH OF PARM OKAY
	LA	R2,ML	RESET PARM LENGTH TO MAX
WTPMOVE	EQU	*	
	MVC	WTPMSG,=CL(ML)' '	CLEAR OUT MSG AREA
	BCTR	R2,Ø	LENGTH-1 FOR MVC
	EX	R2,*+4	MOVE PARM INTO MSGAREA
	MVC	WTPMSG(Ø),2(R11)	EXEC INSTRUCTION TO MOVE PARM
	B	WTPGOTIN	PROCESS FIRST MSG
WTPGETIN	EQU	*	
	TM	DCBOFLGS,DCBOFOPN	ANY INPUT FILE
	BO	WTPGET	BR IF SO
	OPEN	(INPUT)	OPEN IT
	TM	DCBOFLGS,DCBOFOPN	DID IT OPEN
	BZ	EXITRC8	NO - NO VERIFICATION
WTPGET	EQU	*	
	GET	INPUT	READ RECORD FROM SYSIN
	MVC	WTPMSG(73),Ø(R1)	MOVE INPUT TO MSG AREA
WTPGOTIN	EQU	*	
	CLC	WTPMSG,=CL(ML)' '	TEST FOR BLANK MESSAGE
	BE	WTPGETIN	SKIP BLANK RECORD
	JOBNAME	(R7)	GET JOBNAME ADDR (MACRO)
JOBFND	EQU	*	
	MVC	WTPWTOL+4(8),Ø(R7)	JOB/STC/TSU ID
	MVC	WTPWTOL+12(2),=C': '	DELIMITER
	MVC	WTPWTOL+14(ML),WTPMSG	MOVE WTO MSG
	TM	OPTIONS,ATTN	IS ATTN FLAG SET
	BO	EXIT	RETURN IF ATTN
	XR	RØ,RØ	CLEAR REGISTER Ø BEFORE WTO
	WTO	MF=(E,WTPWTOL)	DISPLAY MSG
	ST	R15,RETCODE	SAVE RETURN CODE
	TM	DCBOFLGS,DCBOFOPN	ANY INPUT FILE
	BO	WTPGETIN	READ NEXT RECORD
WTPEOD	EQU	*	
	B	EXIT	RETURN TO CALLER
EXITRC4	EQU	*	
	MVC	RETCODE,=F'4'	SET RETURN CODE 4
	B	EXIT	GO EXIT
EXITRC8	EQU	*	
	MVC	RETCODE,=F'8'	SET RETURN CODE 8
	B	EXIT	GO EXIT
EXITRC12	EQU	*	
	MVC	RETCODE,=F'12'	SET RETURN CODE 12

	B	EXIT	GO EXIT
EXIT	EQU	*	
	ESTAE	Ø	CANCEL ESTAE EXIT
QUICKOUT	EQU	*	
	L	R15,RETCODE	GET RETURN CODE
	EXITR	RC=(R15)	RETURN TO CALLER
* ESTAE	EXIT	ROUTINE	
RECOVERY	EQU	*	
	PUSH	USING	SAVE PREVIOUS BASE REGS
	USING	*,R15	SET UP BASE REGISTER
	USING	SDWA,R1	SET UP ADDRESSABILITY TO SDWA
	LA	R4,12	PUT 12 IN REGISTER FOR COMPARE
	CR	RØ,R4	IS SDWA PRESENT?
	BNE	HAVESDWA	YES, BR TO PROCESS WITH SDWA
	L	RØ,Ø(R2)	LOAD RETRY ADDR FROM PARM LIST
	LA	R15,4	SET RC TO RETRY ADDR IN RØ
	BR	R14	RETURN WITH RETRY ADDR
HAVESDWA	EQU	*	ENTER HERE IF SDWA PRESENT
	ST	R14,12(R13)	SAVE RETURN ADDRESS
	L	R2,SDWAPARM	LOAD PARAM LIST ADDR FROM SDWA
	ST	R2,SDWASRØ1	SAVE POINTER TO ESTAE PARM LIST
	L	R2,4(R2)	LOAD RETRY ADDRESS
	SETRP	RC=4,,RETADDR=(2),RETREGS=YES,FRESDDWA=YES,REGS=(14)	
	DROP	R15,R1	DROP LOCAL ADDRESSABILITY
	POP	USING	RESTORE PREVIOUS BASE REGS
RTRYRTN1	EQU	*	RETRY ROUTINE WITH NO SDWA
RTRYRTN2	EQU	*	ESTAE RETRY ROUTINE WITH SDWA
	LM	R12,R13,8(R1)	LOAD REGS FOR ESTAE PARM LIST
	LA	R15,16	SET SEVERE ERROR
	ST	R15,RETCODE	INDICATE SEVERE ERROR
	B	QUICKOUT	AND EXIT
STAXEXIT	EQU	*	
	USING	*,R15	ADDRESS TEMPORARILY
	SAVE	(14,12)	SAVE REGS
	BALR	R12,Ø	SET UP BASE
STAXBASE	EQU	*	
	L	R15,STAXOFFS	SET UP BASE OFFSET
	SR	R12,R15	SET UP REAL BASE
	DROP	R15	LEAVE TEMPORARY ADDRESSING
* CLEAN UP WHAT NEED TO			
	L	R9,8(R1)	GET USER DATA
	OI	Ø(R9),ATTN	SET ATTN FLAG
	RETURN	(14,12),RC=8	RETURN
STAXOFFS	DC	A(STAXBASE-&ID)	STAX BASE OFFSET
* DEFINE	ESTAE	AND STAX LIST FORM	
ESTAEL	ESTAE	MF=L	CREATE MODEL ESTAE PARM LIST
LESTAEL	EQU	*-ESTAEL	NAME ITS LENGTH
STAXL	STAX	STAXEXIT,MF=L	STAX LIST FORM
STAXLEN	EQU	*-STAXL	LENGTH OF STAX
*			

```

INPUT   DCB   DDNAME=SYSIN,DSORG=PS,MACRF=(GL),EODAD=WTPEOD
WTPMSG  DC    CL(ML)' '          STORAGE FOR ONE MSG
        CNOP  0,4                ALIGN ON WORD
WTPWTOL WTO   '1234567891123456789212345678931234567894123456789512345*
        67896123456789712345678981234567899123456789A123456789B1*
        23456789C',                *
        ROUTCDE=(11),DESC=(7),MF=L

        LTORG
        END

```

The macro JOBNAME, used in the WTP program:

```

*
* RETURNS JOBNAME POINTER IN REGISTER, DEFAULT TO R15
* CAN BE OVERRITTEN BY JOBNAME (RX)
*
        MACRO
&NAME   JOBNAME &REG
        LCLC  &JOBFND,&JOBNFND,&RNULL
&JOBFND SETC  'JN1'.'&SYSNDX'
&JOBNFND SETC 'JN2'.'&SYSNDX'
&RNULL   SETC  'JN3'.'&SYSNDX'
        AIF  ('&REG' EQ '').RNULL
        AIF  ('&REG'(1,1) EQ '(').AREG
        AGO  .RNULL
AREG     ANOP
&REGR   SETC  '&REG(1)'
        AGO  .REG
RNULL   ANOP
&REGR   SETC  '15'
REG      ANOP
&NAME   DS    0H .
        L    &REGR,X'224'          GET ASCB ADDR
        CLC  &RNULL,X'AC'(&REGR)   ANY JOBNAME ADDR
        BE   &JOBNFND              NO
        L    &REGR,X'AC'(&REGR)   GET JOBNAME IF JOB
        B    &JOBFND                YES
&JOBNFND DS  0H .
        L    &REGR,X'B0'(&REGR)   ELSE STARTED TASK OR TSO
        B    &JOBFND                YES
&RNULL  DC    AL4(0)              NULL ADDRESS
&JOBFND DS  0H .
        MEXIT
        MEND

```

Nils Plum (Denmark)

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Monitoring RRSF connectivity

There are a number of external influences that can affect RRSF processing. Typically, the end user may be aware of password synchronization problems before the RACF administrator.

To reduce the number of calls to our Support Desk relating to connectivity failures, we have introduced a schedulable audit of RRSF connectivity based on the results of TARGET.

LIST COMMANDS

The following procedure will capture the results of a TARGET LIST command issued via batch SDSF. Use edit macros to reduce the TARGET LIST output to identify disconnected states, and wrap SEND command(s) around the remaining output. Finally, the SEND command(s) are executed for selected users (RACF administrators).

For the best results, we schedule this procedure to run on each of our RRSF MAIN systems at 08:00. Then, when the SEND message recipients first log-on for the day, they are in a position to take corrective action if necessary.

The edit macro code is flexible enough to handle additions to the size of our RRSF environment.

```
//RALRRSF PROC
//*
//* THIS PROCEDURE WILL REPORT ON RRSF CONNECTIVITY FAILURES.
//* TO CHANGE NOTIFIABLE USERS UPDATE HLQ.RACF.CLIST(RRSF3) .
//*
//S01PROC      EXEC PGM=IEFBR14
//SYSPRINT DD  SYSOUT=*
//SDA DD      DSN=HLQ.SDSF.RRSF,DISP=(OLD,DELETE)
//SDSF002      EXEC PGM=ISFAFD,PARM='++80,149'
//ISFOUT DD    DISP=(,CATLG,DELETE),DSN=HLQ.SDSF.RRSF,
//  DCB=(RECFM=FBA,BLKSIZE=27900,LRECL=150),
//  SPACE=(TRK,(1,1))
//ISFIN DD     DISP=SHR,DSN=HLQ.CSLIB(SDSF1)
//S03JEFT      EXEC PGM=IKJEFT01,DYNAMNBR=30
//SORTLIB DD   DUMMY
//ISPPROF DD   DSN=##PROFOLE,DISP=(,PASS),SPACE=(TRK,(1,1,1)),
//  DCB=(LRECL=80,BLKSIZE=6160,RECFM=FB),UNIT=SYSDA
```



```

//SYSLBC DD DSN=SYS1.BROADCAST,DISP=SHR
//SYSPROC DD DSN=HLQ.RACF.CLIST,DISP=SHR
//ISPPLIB DD DSN=HLQ.ISPPLIB,DISP=SHR
//ISPMLIB DD DSN=HLQ.ISPMLIB,DISP=SHR
//ISPSLIB DD DSN=HLQ.ISPSLIB,DISP=SHR
//ISPTLIB DD DSN=HLQ.ISPTLIB,DISP=SHR
//ISPCTL1 DD DSN=&&CTLA,DISP=(,PASS),UNIT=SYSDA,SPACE=(TRK,(5,5)),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//ISPCTL2 DD DSN=&&CTLB,DISP=(,PASS),UNIT=SYSDA,SPACE=(TRK,(5,5)),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//SYSTSPRT DD SYSOUT=*
//SYSTSIN DD DISP=SHR,DSN=HLQ.CSLIB(RRSF1)
//S04JEFT EXEC PGM=IKJEFT01,DYNAMNBR=30,COND=(0,NE,S03JEFT)
//SORTLIB DD DUMMY
//ISPPROF DD DSN=&&PROFOLE,DISP=(,PASS),SPACE=(TRK,(1,1,1)),
// DCB=(LRECL=80,BLKSIZE=6160,RECFM=FB),UNIT=SYSDA
//SYSLBC DD DSN=SYS1.BROADCAST,DISP=SHR
//SYSPROC DD DSN=HLQ.RACF.CLIST,DISP=SHR
//ISPPLIB DD DSN=HLQ.ISPPLIB,DISP=SHR
//ISPMLIB DD DSN=HLQ.ISPMLIB,DISP=SHR
//ISPSLIB DD DSN=HLQ.ISPSLIB,DISP=SHR
//ISPTLIB DD DSN=HLQ.ISPTLIB,DISP=SHR
//ISPCTL1 DD DSN=&&CTLC,DISP=(,PASS),UNIT=SYSDA,SPACE=(TRK,(5,5)),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//ISPCTL2 DD DSN=&&CTLD,DISP=(,PASS),UNIT=SYSDA,SPACE=(TRK,(5,5)),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//SYSTSPRT DD SYSOUT=*
//SYSTSIN DD DISP=SHR,DSN=HLQ.CSLIB(RRSF4)

```

***** HLQ.CSLIB(SDSF1)

```

SET DELAY 99
/RACF TARGET LIST
ULOG
PRINT ULOG
AFD REFRESH
PRINT CLOSE

```

***** HLQ.CSLIB(RRSF1)

```

ISPSTART CMD(RRSF2) BDISPMAX(500)

```

***** HLQ.RACF.CLIST(RRSF2)

```

CONTROL MSG LIST
ISREDIT MACRO
ISPEXEC EDIT DATASET ('HLQ.SDSF.RRSF') MACRO (RRSF3)
ISREDIT END
EXIT

```

***** HLQ.RACF.CLIST(RRSF3)

```

CONTROL MSG LIST
ISREDIT MACRO
/* DELETES ALL BUT 'TARGET LIST' OUTPUT AND ADJUSTS CONTINUED LINE.  */
ISREDIT BOUNDS = 1 150
ISREDIT EX ALL (RACF)
ISREDIT EX ALL ((RACF))
ISREDIT EX ALL 'STATE. '
ISREDIT EX ALL RESPONSE=
ISREDIT DEL ALL NX
ISREDIT RESET
ISREDIT CHANGE 'RESPONSE' ' RESPONSE' ALL
ISREDIT CHANGE '((RACF))' '' ALL
ISREDIT EX ALL ' (RACF)'
ISREDIT DEL ALL X
ISREDIT SAVE
ISREDIT CHANGE '(RACF)' '' ALL
ISREDIT SAVE
/* SETS COLUMN BOUNDARIES AND IDENTIFIES NUMBER OF LINES REMAINING.  */
ISREDIT (SCOL,ECOL) = BOUNDS
ISREDIT BOUNDS = 4 120
ISREDIT (TOTAL) = LINENUM .ZLAST
WRITE &TOTAL
/* PUTS INDIVIDUAL SYSNAME INFORMATION INTO A SINGLE LINE.  */
START: ISREDIT TFLOW &EVAL(&TOTAL-1) &ECOL
      SET &TOTAL = &TOTAL - 2
      WRITE &TOTAL
      IF &TOTAL = 1 THEN GOTO START
/* DELETES ALL BUT ERRONEOUS STATES.  */
      ELSE ISREDIT EX ALL ' ' 4
            ISREDIT EX ALL 'THE DEFINED STATE.'
            ISREDIT EX ALL 'THE OPERATIVE ACTIVE STATE.'
            ISREDIT DEL ALL EX
            ISREDIT SAVE
/* IF NO ERRONEOUS STATES CONSTRUCT MESSAGE TO THAT EFFECT.  */
      ISREDIT (TOTAL2) = LINENUM .ZLAST
      IF &TOTAL2 = 1 THEN +
        ISREDIT LINE_AFTER 1 = "IRRXXXXI THERE ARE NO ERRON-
          EOUS STATES WITH REMOTE RRSF FROM THIS SYSTEM."
      ELSE ISREDIT SAVE
            ISREDIT SAVE
/* RESETS COLUMN BOUNDARIES.  */
      ISREDIT BOUNDS = 1 150
/* WRAPS 'TSO SEND' COMMAND INFORMATION AROUND REMAINING LINES.  */
      ISREDIT CHANGE " " " TSOEXEC SE '" 1 ALL
      ISREDIT CHANGE ". " ".',USER(userid1 userid2 userid3-
        ),LOGON" ALL
      ISREDIT CHANGE " " " ',USER(userid1 userid2 userid3-
        ),LOGON" FIRST
      ISREDIT SAVE

```

ISREDIT END

***** HLQ.CSLIB(RRSF4)

ISPSTART CMD(RRSF5)

***** HLQ.RACF.CLIST(RRSF5)

EX 'HLQ.SDSF.RRSF'

Bruce Tyler

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Using RRSF and GTF – a warning

If you have a site that exploits RRSF, you should be aware of the following situation that can occur, allowing RACF passwords to be found in clear text.

We were in discussion with IBM concerning some problems we had encountered using RRSF, and a GTF trace was requested to enable them to diagnose the problem. Once we completed the trace, and before sending this to IBM, we formatted the records to make sure the data was OK. In doing this, we found that anyone who had changed their password during the trace period had their details trapped such that it was easy to see their new password.

Following some research, it was found that the system programmers guide actually states that “*trace records can contain passwords, so be sure that trace output datasets are appropriately protected*”.

Being aware of the problem, we edited the data before shipping, and ensured that all the users were notified to change their password again.

If you are concerned that this could affect your site, the trace to be wary of is for APPC events with a user record type of F44.

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RACF news

Vanguard Integrity Professionals has announced Version 2.1 of its Vanguard RioVision Windows interface for OS/390 Security Server administration, providing mainframe security administrators with a view of RACF and DB2 security data.

The Security Server group tree is represented in a Windows Explorer-type graphical format and the administrator can add or remove permissions, modify group or user profiles, add new users, and perform other security tasks.

New features include context-sensitive help down to the field level, and balloon help for all tool bar buttons. RioVision now shows existing 'managed' and 'peer' relationships, letting administrators define, approve, and un-define these relationships. It automatically generates the necessary RACLINK commands.

The new QUERY operator command displays the current RioVision/Security Server settings, the number and names of users currently signed onto RioVision, and the status of the maintenance that has been applied to the product.

RioVision can now apply revoke/resume changes to all connections of the group or user being administered, instead of one at a time. When a general resource class in Resource Explorer is selected, all its resources will immediately appear.

RioVision now has more diagnostics to pinpoint causes of problems. Trace capabilities have been added to components

to track several levels of detail.

The Security Assurance Framework integrates the previously separate functions of security administration, reporting, and assessment. The product suite includes Administrator for automated security server administration, Reporter for security reporting, and Analyzer for system integrity analysis.

For further information contact:

Vanguard Integrity Professionals, 180 South Anita Drive, Orange, CA 92668-3306, USA.
Tel: (714) 939 0377.

Sequal Software, Eastlands Court, St Peters Road, Rugby, CV21 3QP, UK.

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URL: <http://www.viplink.com>.

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