

เอกสารอ้างอิง

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- 2) IBM, "Customer Information Control System / Virtual Storage (CICS/VS) Version1, Release 5 General Information", Form GC33 - 0066 - 5, Bangkok IBM Co.,Ltd. (Thailand)
- 3) IBM, "Customer Information Control System / Virtual Storage (CICS/VS) Version 1, Release 4 Introduction to Program Logic", Form SC33 - 0067 - 1, Bangkok: IBM Co.,Ltd. (Thailand)
- 4) IBM, "Customer Information Control System / Virtual Storage (CICS/VS) Version 1, Release 5 System Programmer's Guide (DOS/VS)", Form SC33 - 0070 - 3, Bangkok: IBM Co.,Ltd. (Thailand)
- 5) IBM, "Command Level Coding for CICS/VS Textbook", Form SR20 - 7341 - 0, Bangkok: IBM Co.,Ltd. (Thailand)
- 6) IBM, "Customer Information Contral System / Virtual Storage (CICS/VS) Version 1, Release 4 System Programmer's Reference Manual", Form SC33 - 0069 - 2, Bangkok: IBM Co.,Ltd. (Thailand)

ภาคผนวก ก

แม่โครและโปรแกรมที่ใช้

แม่โครที่ใช้สร้างตารางควบคุมโปรแกรม

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BKEND      Z. DFHPCT2$

PCT2      TITLE 'DFHPCT2$ CICS/VS PROGRAM CONTROL TABLE FOR CICS SAMPLE
              PROGRAMS'
PCT2$     DFHPCT TYPE=INITIAL, STARTER=YES, SUFFIX=2$, INDEX=YES
* *****
* UPDATED TO INCLUDE MASTER TERMINAL AND COMMAND INTERPRETER
*
* YOU CAN SPECIFY SECURITY TO RESTRICT USE OF SOME TRANSACTION
* CODES.
*
* THIS TABLE INCLUDES ENTRIES FOR JOURNALLING
*
* *****
* THESE ENTRIES ARE ONLY REQUIRED FOR COBOL SAMPLE PROGRAMS
MENU      DFHPCT TYPE=ENTRY,
              TRANSID=MENU,          SAMPLE COBCL PGM
              PROGRAM=XDFHINST,
              TPURGE=YES, SPURGE=YES
INQY      DFHPCT TYPE=ENTRY,
              TRANSID=INQY,          SAMPLE COBCL PGM
              PROGRAM=XDFHCALL,
              TPURGE=YES, SPURGE=YES
ADDS      DFHPCT TYPE=ENTRY,
              TRANSID=ADDS,          SAMPLE COBCL PGM
              PROGRAM=XDFHCALL,
              TPURGE=YES, SPURGE=YES
UPDT      DFHPCT TYPE=ENTRY,
              TRANSID=UPDT,          SAMPLE COBCL PGM
              PROGRAM=XDFHCALL,
              TPURGE=YES, SPURGE=YES
BRWS      DFHPCT TYPE=ENTRY,
              TRANSID=BRWS,          SAMPLE COBCL PGM
              PROGRAM=XDFHBRWS,
              PRIVATE=YES, ANTICPG=5,
              TPURGE=YES, SPURGE=YES
OREN      DFHPCT TYPE=ENTRY,
              TRANSID=OREN,          SAMPLE COBCL PGM
              PROGRAM=XDFHOREN,
              TPURGE=YES, SPURGE=YES
CCOM      DFHPCT TYPE=ENTRY,
              TRANSID=CCOM,          SAMPLE COBCL PGM
              PROGRAM=XDFHCCOM,
              TPURGE=YES, SPURGE=YES
INQH      DFHPCT TYPE=ENTRY,
              TRANSID=INQH,          SAMPLE COBCL PGM
              PROGRAM=XDFHINQH,
              TPURGE=YES, SPURGE=YES
REPT      DFHPCT TYPE=ENTRY,
              TRANSID=REPT,          SAMPLE COBCL PGM
              PROGRAM=XDFHREPT,
              TPURGE=YES, SPURGE=YES
* *****
* THESE ENTRIES ARE ONLY REQUIRED FOR PL/I SAMPLE PROGRAMS
PMNU      DFHPCT TYPE=ENTRY,
              TRANSID=PMNU,          PL/I SAMPLE PGM
              PROGRAM=XDFHPMNU,
              TPURGE=YES, SPURGE=YES
PINQ      DFHPCT TYPE=ENTRY,
              TRANSID=PINQ,          PL/I SAMPLE PGM
              PROGRAM=XDFHPALL,
              TPURGE=YES, SPURGE=YES
PADD      DFHPCT TYPE=ENTRY,
              TRANSID=PADD,          PL/I SAMPLE PGM
              PROGRAM=XDFHPALL,
              TPURGE=YES, SPURGE=YES
PUPD      DFHPCT TYPE=ENTRY,
              TRANSID=PUPD,          PL/I SAMPLE PGM
              PROGRAM=XDFHPALL,
              TPURGE=YES, SPURGE=YES
PBRW      DFHPCT TYPE=ENTRY,
              TRANSID=PBRW,          PL/I SAMPLE PGM
              PROGRAM=XDFHPBRW,
              PRIVATE=YES, ANTICPG=5,
              TPURGE=YES, SPURGE=YES
POKD      DFHPCT TYPE=ENTRY,

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TRANSID=PCOM, PL/I SAMPLE PGM
PROGRAM=XDFHPORD,
TPURGE=YES, SPURGE=YES
PCOM DFHPCT TYPE=ENTRY,
TRANSID=PCOM, PL/I SAMPLE PGM
PROGRAM=XDFHPCOM,
TPURGE=YES, SPURGE=YES
PINH DFHPCT TYPE=ENTRY,
TRANSID=PINH, PL/I SAMPLE PGM
PROGRAM=XDFHPINH,
TPURGE=YES, SPURGE=YES
PREP DFHPCT TYPE=ENTRY,
TRANSID=PREP, PL/I SAMPLE PGM
PROGRAM=XDFHPREP,
TPURGE=YES, SPURGE=YES
* *****
* THESE ENTRIES ARE ONLY REQUIRED FOR ASM SAMPLE PROGRAMS
AMNJ DFHPCT TYPE=ENTRY,
TRANSID=AMNJ, ASM SAMPLE PGM
PROGRAM=XDFHAMNJ,
TPURGE=YES, SPURGE=YES
AINQ DFHPCT TYPE=ENTRY,
TRANSID=AINQ, ASM SAMPLE PGM
PROGRAM=XDFHAALL,
TPURGE=YES, SPURGE=YES
AADD DFHPCT TYPE=ENTRY,
TRANSID=AADD, ASM SAMPLE PGM
PROGRAM=XDFHAALL,
TPURGE=YES, SPURGE=YES
AUPD DFHPCT TYPE=ENTRY,
TRANSID=AUPD, ASM SAMPLE PGM
PROGRAM=XDFHAALL,
TPURGE=YES, SPURGE=YES
ABRW DFHPCT TYPE=ENTRY,
TRANSID=ABRW, ASM SAMPLE PGM
PROGRAM=XDFHABRW,
PRIVATE=YES, ANTICPG=5,
TPURGE=YES, SPURGE=YES
AORD DFHPCT TYPE=ENTRY,
TRANSID=AORD, ASM SAMPLE PGM
PROGRAM=XDFHAREN,
TPURGE=YES, SPURGE=YES
ACOM DFHPCT TYPE=ENTRY,
TRANSID=ACOM, ASM SAMPLE PGM
PROGRAM=XDFHACOM,
TPURGE=YES, SPURGE=YES
AKEP DFHPCT TYPE=ENTRY,
TRANSID=AREP, ASM SAMPLE PGM
PROGRAM=XDFHAREP,
TPURGE=YES, SPURGE=YES
* *****
* THESE ENTRIES ARE ONLY REQUIRED FOR RPG SAMPLE PROGRAMS
RMNU DFHPCT TYPE=ENTRY,
TRANSID=RMNU, RPG SAMPLE PGM
PROGRAM=XDFHRMNU,
TPURGE=YES, SPURGE=YES
RINQ DFHPCT TYPE=ENTRY,
TRANSID=RINQ, RPG SAMPLE PGM
PROGRAM=XDFHRALL,
TPURGE=YES, SPURGE=YES
RADD DFHPCT TYPE=ENTRY,
TRANSID=RADD, RPG SAMPLE PGM
PROGRAM=XDFHRALL,
TPURGE=YES, SPURGE=YES
RUPD DFHPCT TYPE=ENTRY,
TRANSID=RUPD, RPG SAMPLE PGM
PROGRAM=XDFHRALL,
TPURGE=YES, SPURGE=YES
ROFD DFHPCT TYPE=ENTRY,
TRANSID=ROFD, RPG SAMPLE PGM
PROGRAM=XDFHREN,
TPURGE=YES, SPURGE=YES
RCOM DFHPCT TYPE=ENTRY,
TRANSID=RCOM, RPG SAMPLE PGM
PROGRAM=XDFHRCOM,
TPURGE=YES, SPURGE=YES
RBRW DFHPCT TYPE=ENTRY,
TRANSID=RBRW, RPG SAMPLE PGM

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PROGAM=XDFHRBRW,
TPURGE=YES,SPURGE=YES
RREP      DFHPCT TYPE=ENTRY,
          TRANSID=RREP,          RPG  SAMPLE  PGM
          PROGAM=XDFHRREP,
          TPURGE=YES,SPURGE=YES
*****
* ENTRY FOR HIGH LEVEL LANGUAGE DEBUG FACILITY
CEDF      DFHPCT TYPE=ENTRY,PROGRAM=DFHEDFP,TRANSID=CEDF,FSLC=NC
*****
L86P      DFHPCT TYPE=ENTRY,          OPTICAL
          TRANSID=L86P,          TD AUTO INIT TASK
          PROGRAM=DFHTDWT$,      WRITE TO 3270 FILE
          TWASIZE=0,
          ANTICPG=5,
          PRIVATE=YES,TPURGE=YES,SPURGE=YES
*****
* SYSTEM ENTRIES OPTIONAL UNLESS YOU WISH TO USE THEM
HARDCOPY DFHPCT TYPE=GROUP,
          FN=HARDCOPY          BTAM 3270-FFTFEQ KEY
SIGNON   DFHPCT TYPE=GROUP,
          FN=SIGNON           SIGN ON/OFF
CONSOLE  DFHPCT TYPE=GROUP,
          FN=CONSOLE         WRITE TO CPU CONSOLE
MSWITCH  DFHPCT TYPE=GROUP,
          FN=MSWITCH        MSG S- TRANSACTION
BMS      DFHPCT TYPE=GROUP,
          FN=BMS            TERM PAGE RETRIEVAL
FE       DFHPCT TYPE=GROUP,
          FN=FE            FE TERMINAL TEST
MASITERM DFHPCT TYPE=GROUP,
          FN=(MASTERM,OPERATORS) OPERATOR TERMINAL
INTERP   DFHPCT TYPE=ENTRY,TRANSID=CECI,PROGRAM=DFHECIF,FSLC=NC
SYNCHK   DFHPCT TYPE=ENTRY,TRANSID=CECS,PROGRAM=DFHECSP,FSLC=NC
JOURNAL  DFHPCT TYPE=GROUP,
          FN=JOURNAL        LOG/JOURNAL TRANSACTION
AKP      DFHPCT TYPE=GROUP,
          FN=AKP           ACTIVITY KEYPOINT
AUTOSTAT DFHPCT TYPE=GROUP,
          FN=AUTOSTAT      AUTO STATISTICS
STANDARD DFHPCT TYPE=GROUP,
          FN=STANDARD     STANDARD ENTRIES
TIME     DFHPCT TYPE=GROUP,
          FN=TIME         TIME ADJUST
NUMERICS DFHPCT TYPE=GROUP,
          FN=NUMERICS     NUMERICS SIGNON GROUP
ATP      DFHPCT TYPE=GROUP,
          FN=ATP          ASYNCHRONOUS PACC GROUP
VTAMPRT  DFHPCT TYPE=GROUP,
          FN=VTAMPRT     PRINT REQUEST
RESPLOG  DFHPCT TYPE=GROUP,
          FN=RESPLOG     RESPONSE LOGGEF
VTAM     DFHPCT TYPE=GROUP,
          FN=VTAM        VTAM GROUP
RESEND   DFHPCT TYPE=GROUP,
          FN=RESEND     RESEND PGM, FOR SOME VTAM
ISC      DFHPCT TYPE=GROUP,
          FN=ISC        INTER SYSTEMS COUPLING GROUP
*****
DFHPCT TYPE=FINAL
*****
BKEND

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แม่โครที่ใช้สร้างตารางประมวลผลโปรแกรม

BKENC Z.DFHPPT2\$

PPT2 TITLE 'DFHPPT2\$ CICS/VS SAMPLE PROCESSING PROGRAM TABLE FOR CICS ONLY'

PPT2\$ DFHPPT TYPE=INITIAL,STARTER=YES,SUFFIX=2\$,INDEX=YES

* ***** *
* UPDATED FOR MASTER TERMINAL AND COMMAND INTERFETER *
* ***** *

* USER PROGRAM MODULES WITHOUT PCT ENTRIES

- DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDFHPMA
DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDFHPMB
DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDFHPMC
DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDFHPMD
DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDFHPME
DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDFHPMF
DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDFHPMK
DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDFHPML
DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDFHCMA
DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDFHCMB
DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDFHCMC
DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDFHCMD
DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDFHCME
DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDFHCMF
DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDFHCMK
DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDFHCML
DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDFHAMA
DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDFHAMB
DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDFHAMC
DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDFHAMD
DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDFHAMK
DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDFHAML
DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDRMA
DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDRMB
DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDRMC
DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDRMD
DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDRMK
DFHPPT TYPE=ENTRY, SAMPLE PROGRAM MAPS
PROGRAM=XDRML

* ENTRIES FOR PL/I OPTIMISER VERSION PROGRAMS.
* THESE ARE REQUIRED IF THE COMMAND LEVEL INTERFACE IS USED IN
* PL/I APPLICATIONS

- DFHPPT TYPE=GROUP,
FN=PL/I
XDFHINST DFHPPT TYPE=ENTRY, SAMPLE COBOL PGM
PROGRAM=XDFHINST,
PGMLANG=COBOL
XDFHC ALL DFHPPT TYPE=ENTRY, SAMPLE COBOL PGM
PROGRAM=XDFHCALL,
PGMLANG=COBOL

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XDFHOREN DFHPPT TYPE=ENTRY,
PROGRAM=XDFHOREN, SAMPLE CCBCL PGM
PGMLANG=COBOL
XDFHCCOM DFHPPT TYPE=ENTRY,
PROGRAM=XDFHCCOM, SAMPLE CCECL PGM
PGMLANG=COBOL
XDFHINQH DFHPPT TYPE=ENTRY,
PROGRAM=XDFHINQH, SAMPLE COBCL PGM
PGMLANG=COBOL
XDFHBRWS DFHPPT TYPE=ENTRY,
PROGRAM=XDFHBRWS, SAMPLE CCBCL PGM
PGMLANG=COBOL
XDFHREPT DFHPPT TYPE=ENTRY,
PROGRAM=XDFHREPT, SAMPLE CCBCL PGM
PGMLANG=COBOL
XDFHPMNU DFHPPT TYPE=ENTRY,
PROGRAM=XDFHPMNU, PL/I SAMPLE PGM
PGMLANG=PL/I
XDFHPALL DFHPPT TYPE=ENTRY,
PROGRAM=XDFHPALL, PL/I SAMPLE PGM
PGMLANG=PL/I
XDFHPORD DFHPPT TYPE=ENTRY,
PROGRAM=XDFHPORD, PL/I SAMPLE PGM
PGMLANG=PL/I
XDFHPCOM DFHPPT TYPE=ENTRY,
PROGRAM=XDFHPCOM, PL/I SAMPLE PGM
PGMLANG=PL/I
XDFHPBRW DFHPPT TYPE=ENTRY,
PROGRAM=XDFHPBRW, PL/I SAMPLE PGM
PGMLANG=PL/I
XDFHPINH DFHPPT TYPE=ENTRY,
PROGRAM=XDFHPINH, PL/I SAMPLE PGM
PGMLANG=PL/I
XDFHPREP DFHPPT TYPE=ENTRY,
PROGRAM=XDFHPREP, PL/I SAMPLE PGM
PGMLANG=PL/I
XDFHAMNU DFHPPT TYPE=ENTRY,
PROGRAM=XDFHAMNU, ASM SAMPLE PGM
PGMLANG=ASSEMBLER
XDFHAALL DFHPPT TYPE=ENTRY,
PROGRAM=XDFHAALL, ASM SAMPLE PGM
PGMLANG=ASSEMBLER
XDFHABRW DFHPPT TYPE=ENTRY,
PROGRAM=XDFHABRW, ASM SAMPLE PGM
PGMLANG=ASSEMBLER
XDFHAREN DFHPPT TYPE=ENTRY,
PROGRAM=XDFHAREN, ASM SAMPLE PGM
PGMLANG=ASSEMBLER
XDFHACOM DFHPPT TYPE=ENTRY,
PROGRAM=XDFHACOM, ASM SAMPLE PGM
PGMLANG=ASSEMBLER
XDFHAREP DFHPPT TYPE=ENTRY,
PROGRAM=XDFHAREP, ASM SAMPLE PGM
PGMLANG=ASSEMBLER
XDFHAREP DFHPPT TYPE=ENTRY, RELOAD=YES,
PROGRAM=XDFHAREP, RPG SAMPLE PGM
PGMLANG=RPG
XDFHBRW DFHPPT TYPE=ENTRY, RELOAD=YES,
PROGRAM=XDFHBRW, RPG SAMPLE PGM
PGMLANG=RPG
XDFHRMNU DFHPPT TYPE=ENTRY, RELOAD=YES,
PROGRAM=XDFHRMNU, RPG SAMPLE PGM
PGMLANG=RPG
XDFHRALL DFHPPT TYPE=ENTRY, RELOAD=YES,
PROGRAM=XDFHRALL, RPG SAMPLE PGM
PGMLANG=RPG
XDFHREN DFHPPT TYPE=ENTRY, RELOAD=YES,
PROGRAM=XDFHREN, RPG SAMPLE PGM
PGMLANG=RPG
XDFHRCOM DFHPPT TYPE=ENTRY, RELOAD=YES,
PROGRAM=XDFHRCOM, RPG SAMPLE PGM
PGMLANG=RPG
* *****
DFHTDWT$ DFHPPT TYPE=ENTRY, DF-TNL-TO ALTO-INIT-TASK
PROGRAM=DFHTDWT$ WRITE TO L3277 PFTR
HARDCOPY DFHPPT TYPE=GROUP, BTAM FF TRC KEY
FN=HARDCOPY
CONSOLE DFHPPT TYPE=GROUP,

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SIGNON DFHPPT FN=CONSOLE WRITE TO CPU CONSOLE
        TYPE=GFOUP,
FE DFHPPT FN=SIGNON SIGNON TABLE
   TYPE=GROUP,
DFHPEP DFHPPT FN=FE FE TERMINAL TEST PGM
   TYPE=ENTRY,
        PROGRAM=DFHPEP
DFHTEPT DFHPPT FN=FEFE USER PROGRAM ERROR PGM
   TYPE=ENTRY,
        PROGRAM=DFHTEPT
OPENCLSE DFHPPT FN=OPENCLSE DYNAMIC OPEN/CLOSE PGM
   TYPE=GROUP,
MASTTERM DFHPPT FN=MASTTERM, OPERATORS MASTER TERMINAL PGM
   TYPE=GROUP,
INTERP DFHPPT FN=INTERPRETER COMMAND INTERPRETER
   TYPE=GROUP,
        PROGRAM=INTERPRETER
* REQUIRED ENTRIES FOR BMS PAGING AND MSG SWITCHING
MSWITCH DFHPPT FN=MSWITCH MSG SWITCH PGM
   TYPE=GROUP,
BMS DFHPPT FN=BMS TERM PAGE CLEAN UP
   TYPE=GROUP,
* *****
* REQUIRED SYSTEM ENTRIES FOR LOGGING/JOURNALING
JOURNAL DFHPPT FN=JOURNAL JOURNAL CONTROL KICK OFF
   TYPE=GROUP,
RECOVERY DFHPPT FN=RECOVERY TRANS BACKOUT PGM
   TYPE=GROUP,
* ENTRY MAY BE EQUIPPED FOR DFHUAKF USER KEY POINT PGM
AKP DFHPPT FN=AKP ACTIVITY KEYPOINT PGM
   TYPE=GROUP,
STANDARD DFHPPT FN=STANDARD STANDARD ENTRIES
   TYPE=GROUP,
* *****
TIME DFHPPT FN=TIME TIME ADJUSTMENT PGM
   TYPE=GROUP,
DFHTLT1$ DFHPPT FN=DFHTLT1$ TERM LIST TABLE
   TYPE=ENTRY,
        PROGRAM=DFHTLT1$
DFHXLT1$ DFHPPT FN=DFHXLT1$ OPTNL USED FOR SHUTDOWN
   TYPE=ENTRY,
        PROGRAM=DFHXLT1$ FOR CICS ONLY
DFHPLT1$ DFHPPT FN=DFHPLT1$ OPTNL USED FOR SHUTDOWN
   TYPE=ENTRY,
        PROGRAM=DFHPLT1$ FOR CICS ONLY
DFHSDR$ DFHPPT FN=DFHSDR$ OPTNL LOGS BTAM ERRS TO
   TYPE=ENTRY,
        PROGRAM=DFHSDR$ DCS IJSYSFC FILE FOR CE
AUTOSTAT DFHPPT FN=AUTOSTAT AUTO STATS SUMMARY PGM
   TYPE=GROUP,
EDF DFHPPT FN=EDF
   TYPE=GROUP,
ATP DFHPPT FN=ATP ASYNCH TRANS PRCC GROUP
   TYPE=GROUP,
MSP DFHPPT FN=MSWITCH MESSAGE SWITCHING
   TYPE=GROUP,
VTAMPRT DFHPPT FN=VTAMPRT VTAM PRINT FN.
   TYPE=GROUP,
RESPLOG DFHPPT FN=RESPLOG RESPONSE LOGGEE
   TYPE=GROUP,
VTAM DFHPPT FN=VTAM VTAM GROUP
   TYPE=GROUP,
RESEND DFHPPT FN=RESEND REQUIRED FOR SOME VTAM SYSS
   TYPE=GROUP,
BACKOUT DFHPPT FN=BACKOUT DYNAMIC BACKOUT PROGRAM
   TYPE=GROUP,
ISC DFHPPT FN=ISC INTER SYSTEMS COUPLING
   TYPE=GROUP,
RTY DFHPPT FN=DFHRTY OPTNL REPLY EXIT PROGRAM
   TYPE=ENTRY,
        PROGRAM=DFHRTY
* *****
* DFHPPT TYPE=FINAL
BKEND

```

```

1          PRINT NCGEN
2 *****
3 * * *
4 * * *  PROGRAM : READING JOURNAL FILE          V:00 D:28/09/84 * * *
5 * * *
6 *****
    
```

8 *** INITIALIZATION

```

10 PROG00  START 0
11          BALR 12,0          INITIALIZE BASE REGISTER
12          USING FIRST,12,8
13 FIRST   L      3,BASE
14          USING DFHJCRDS,11
15          OPEN  DFHJ01A,PF TR          ACTIVATE FILES
24          COMRG          GET CURRENT DATE
28          MVC   RPTDATE,0(1)
29          BAL   4,H10HEAD          PRINT HEADING
30          MVC   DETALINE,BLANK      CLEAR PRINT AREA
    
```

32 *** MAIN LOGIC

```

34 A10READ GET   DFHJ01A          READ A RECORD
39          CLI  JCRSTRID+1,X'45'   IS IT JOURNAL RECFD ?
40          BNE  A20                NO
42          CLI  JCRSTRID,X'80'     IS IT LABEL RECORD ?
43          BE   A50                YES
45 A20     BAL  4,B10MCVE          MOVE SYSTEM PREFIXES
47          CLI  JCRSTRID+1,X'11'   IS IT FILE CONTROL?
48          BNE  A30                NO
49          BAL  4,B20MOVE          MOVE FILE ID
51 A30     CP   LINECTR,ENDPAGE     END OF PAGE ?
52          BL   A40                NO
53          BAL  4,H10HEAD          YES
55 A40     BAL  4,B30MOVE          MOVE MODULE NAME
56          BAL  4,B60MOVE          MOVE FUNCTION NAME
57          BAL  4,D10DATA          PRINT DETAIL LINE
58          B    A10READ
60 **     LABEL RECFD C
62 A50     ZAP  JULIAN,=P'0'        CLEAR JULIAN-1001001001001
    
```

มหาวิทยาลัยศรีนครินทรวิโรฒ
 ภาควิชาคอมพิวเตอร์
 จุฬาลงกรณ์มหาวิทยาลัย


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63      MVD    JULIAN,JCLFDATE+1(1)          =|00|00|00|Y|C|
64      DP     JULIAN,=P'4'                  -|XX|XX|XY|Y|C|
65      CP     JULIAN+3(1),=P'0'             CHECK REMAINDER WITH ZERO ?
66      BE     A60                            -EQUAL
67      LA     9,YEARTAB1                     LOAD ADDRESS OF YEARTAB1
68      B      A70

70 A60   LA     9,YEARTAB2                     LCAD ADDRESS OF YEARTAB2

72 A70   ZAP   JULIAN,=P'0'                   CLEAR JULIAN=|00|00|00|0|C|
73      MVD   JULIAN,JCLFDATE+1(1)          =|00|00|00|Y|C|
74      ZAP   JULIANDT,JCLFDATE+2(2)        SET JULIANDT=|00|00|00|C|

76 A80   CP     JULIANDT,0(2,9)              COMPARE DAY WITH YEAR TABLE ?
77      BNH   A85                            LOW OR EQUAL
78      AH    9,=H'3'                         INCREMENT R.9
79      B     A80

81 A85   MVD   JULIAN+1(2),2(1,9)           MOVE MM TO JULIAN=|CC|CM|MY|Y|C|
82      SH    9,=H'3'                         PEFER LAST ENTRY IN TABLE
83      SP    JULIANDT,C(2,9)                 CALCULATE DAY OF MONTH=|00|00|
84      SRP   JULIANDT,1,0                     SHIFT JULIANDT=|DD|0|C|
85      MVD   JULIAN(2),JULIANDT(1)          MOVE DD TO JULIAN=|00|00|MY|Y|C|
86      MVC   LGDATE,ECLGDATE                 MOVE EDIT FORM TO LGDATE=
                                         +
                                         |40|20|21|20|20|61|20|20|61|20|20|
87      ED    LGDATE,JULIAN                   EDIT JULIAN TO LGDATE=
                                         +
                                         |40|40|40|D|D|61|M|M|61|Y|Y|

88      B     A10R EAC

90 ***   E N D - O F - F I L E

92 A90END CLOSE DFHJO1A,PFTR
101      EOJ

105 **   MOVE SYSTEM PREFIX - SUBROUTINE

107 B10MOVE MVC   LOGDATE,LGDATE             MOVE LOG DATE TO DETALINE
108      MVC   TERMIDPR,JCSPTERM             MCVE TERMINAL ID TO DETALINE
109      MVC   TRANIDPR,JCSPTAN              MOVE TRANSACTION ID TO DETALINE
110      MVC   TIMERQ,EDTIMEEQ              MOVE TIME OF REQUEST PATTERN
111      ED    TIMERQ,JCSPTIME              FCRMAT TIME OF REQUEST
112      MVC   TIMERQPR,TIMERQ              MOVE TIME OF REQUEST TO DETALINE

114      BR    4

116 **   MOVE FILE ID-SUBROUTINE

118 B20MOVE MVC   FILEIDPR,JCSPPCFI         MCVE FILE ID TO DETALINE
119      BR    4

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121 **          MOVE MODULE NAME - SUBROUTINE

123 B30MOVE    LA      9,MODTAB          INIT. SEARCH FOR MODULE NAME
124 B35        CLC      JCF STRID+1(1),0(9)  COMPARE MODULE ID TO TABLE ENTRY
125           BL       B50EFCF          LOW - NOT IN TABLE
126           BE       B40              EQU - FOUND
127           AH       9,=H'30'        HI - INCREM. NEXT ADDRESS
128           B        B35

130 B40        MVC     MODNAMPF,1(9)      MOVE MODULE NAME TO DETALINE
131           BR       4

133 B50ERROR   MVC     MODNAMPF,ERROR1    MOVE ERROR MESSAGE TO DETALINE
134           BR       4

135 **          MOVE FUNCTION NAME - SUBROUTINE

138 B60MOVE    LA      9,FUNCTAB        INIT. SEARCH FOR FUNCTION NAME
139 B65        CLC      JCF STRID(2),0(9) COMPARE FUNCTION ID TO TABLE ENTRY
140           BL       B80EFCF          LOW - NOT IN TABLE
141           BE       B70              EQU - FOUND
142           AH       9,=H'32'        HI - INCREM. NEXT ADDRESS
143           B        B65

145 B70        MVC     FUNCNMPF,2(9)      MOVE FUNCTION NAME TO DETALINE

147 B80ERRDR   MVC     FUNCIDPF,=C'X'CC'   SET FUNCTION ID (X'00') PATTERN
148           ZAP      FUNCID,=F'C'       CLEAR FUNCID=|00|0C|
149           MVO      FUNCID,JCFSTRID(1)  MOVE FUNCTION ID
150           UNPK     FUNCIDBF,FUNCID     UNPACK TO FUNCIDBF |FO|FO|CO|
151           MVZ      FUNCIDBF+2(1),FUNCIDBF+1 CHANGE FUNCIDBF |FO|FO|FO|
152           TR       FUNCIDBF+1(2),TRTABLE
153           MVC     FUNCIDPF+2(2),FUNCIDBF+1 MOVE FUNCTION ID TO DETALINE

155           BR       4
156 **          PRINT DATA LINE - SUBROUTINE

158 D10DATA    MVC     PRINT,DETALINE
159           BAL      5,P20WSP1          PRINT & SPACE 1
160           MVC     DETALINE,BLANK      CLEAR PRINT AREA
161           BR       4

163 **          PRINT HEADING - SUBROUTINE

165 H10HEAD    BAL      5,P10SKIP         SKIP TO NEXT PAGE
166           MVC     PAGEPR,ECPAGE      SET UP HEADING LINE 1
167           ED      PAGEPR,PAGECTR
168           MVC     PRINT,HEADING1
169           BAL      5,P20WSP1          PRINT & SPACE 1
170           MVC     PRINT,HEADING2
171           BAL      5,P30WSP2          PRINT & SPACE 2

```

```

172      MVC      PPRINT,HEADING3
173      BAL      5,P30WSP2
174      ZAP      LINECTR,TOPAGE
175      AP       PAGECTR,=P'1'
176      BR       4

```

PRINT & SPACE 2
INITIALIZE LINE COUNT
INCREMENT PAGE NO.

178 ** PF INT - SUBROUTINE

```

180 P10SKIP MVI     CTLCHAR,SKIP
181      B       P90

```

SKIP TO NEW PAGE

```

183 P20WSP1 MVI     CTLCHAR,WSP1
184      AP      LINECTR,=P'1'
185      B       P90

```

PRINT & SPACE1
ADD TO LINE COUNTER

```

187 P30WSP2 MVI     CTLCHAR,WSP2
188      AP      LINECTR,=P'2'

```

PRINT & SPACE2
ADD TO LINE COUNTER

```

190 P90     MVC     0(133,1C),PRINT
191      PJT     PRTR
196      BR     5

```

PRINT
RETURN

```

198 SKIP    EQU     X'8B'
199 WSP1    EQU     X'09'
200 WSP2    EQU     X'11'

```

202 * D E C L A R A T I V E S

```

204 DFHJ01A DTFSD  BLKSIZE=1024,
                DEVADDR=SYS008,
                EOFADDR=A90ENC,
                IOAREA1=ICARDK1,
                RECFORM=VAFBLK,
                IOREG=(11),
                TYPEFL=INPUT

```

DISK INPUT DECLARATIVE
SYS008->DFHJ01A

```

266      DS     OH
267 IOARDK1 DS     CL1024

```

ALIGN ON EVEN NUMBER
BUFFER-1 DISK FILE

```

269 PRTR    DTFPR  BLKSIZE=133,
                CTLCHR=YES,
                DEVADDR=SYS1ST,
                DEVICE=3203,
                IOAREA1=PRBUFF1,
                IOAREA2=PREUFF2,
                ICREG=(110)

```

DEFINE PRINTER FILE

```

291 PRBUFF1 DC     CL133' '
292 PRBUFF2 DC     CL133' '

```

PRINTER BUFFER-1
PRINTER BUFFER-2

294	PRINT	DS	OCL133	PRINT OUTPUT AREA
295	CTLCHAR	DS	CL1	PRINT CTRL CHARACTER
296		DC	CL132' '	*
298	HEADING1	DS	OCL133	1ST HEADING LINE
299		DC	CL44' '	
300		DC	CL48' C I C S / V S O P E R A T I O N R E P C R T'	
301		DC	CL41' '	
303	HEADING2	DS	OCL133	2ND HEADING LINE
304		DC	CL8' '	
305		DC	CL12' REPCFT DATE'	
306	RPTDATE	DS	CL8	
307		DC	CL89' '	
308		DC	CL5' PAGE'	
309	PAGEPR	DS	ZL4	
310		DC	CL7' '	
312	HEADING3	DS	OCL133	3RD HEADING LINE
313		DC	CL2' '	
314		DC	CL47' LOG DATE TERMINAL TRANSACTION TIME REQUEST'	
315		DC	CL41' FILE ID MODULE NAME	
316		DC	CL43' FUNCTION NAME FUNCTION ID'	
318	BLANK	DC	C' '	BLANK TO CLEAR PRINT AREA
319	DETALINE	DS	OCL133	JOURNAL DETAIL PRINT LINE
320		DC	CL1' '	
321	LOGDATE	DS	CL11	
322		DC	CL2' '	
323	TERMIDPR	DS	CL4	
324		DC	CL8' '	
325	TRANIDPR	DS	CL4	
326		DC	CL6' '	
327	TIMERQPR	DS	CL9	
328		DC	CL4' '	
329	FILEIDPR	DS	CL8	
330		DC	CL2' '	
331	MODNAMPR	DS	CL29	
332		DC	CL2' '	
333	FJNCNMPR	DS	CL30	
334		DC	CL5' '	
335	FUNCIDPR	DS	CL5	
336		DC	CL3' '	
338	BASE	DC	A(FIK ST+4096)	
340		DS	OH	TABLE OF MODULE NAME
341	MODTAB	DC	X'03',CL29'TASK CONTROL'	
342		DC	X'04',CL29'PROGRAM CONTROL'	
343		DC	X'05',CL29'STOPPAGE CONTROL'	
344		DC	X'07',CL29'DUMP CONTROL'	



345	DC	X'06',CL29'INTERVAL CONTROL'
346	DC	X'10',CL29'TERMINAL CONTROL'
347	DC	X'11',CL29'FILE CONTROL'
348	DC	X'12',CL29'TRANSIENT DATA'
349	DC	X'13',CL29'TEMPORARY STORAGE'
350	DC	X'39',CL29'DL/I INTERFACE'
351	DC	X'40',CL29'BASIC MAPPING'
352	DC	X'45',CL29'JOURNAL CONTROL'
353	DC	X'54',CL29'KEYPOINT PROGRAM'
354	DC	X'55',CL29'BUILT-IN FUNCTIONS'
355	DC	X'58',CL29'ACTIVITY KEYPOINT PROGRAM'
356	DC	X'59',CL29'SYNC-POINT PROGRAM'
357	DC	X'FF',CL29'RESVD.FOR USER SYNC-PT.SUPRT'

359	*		FUNCTION TABLE
360	FUNCTAB	DC	X'8058',CL30'ACTIVITY KEYPOINT START'
361		DC	X'8158',CL30'ACTIVITY KEYPOINT END'
362		DC	X'A011',CL30'FILE CONTROL READ-ONLY (AJ)'
363		DC	X'A111',CL30'FILE CONTROL READ-UPDATE (AJ)'
364		DC	X'A211',CL30'FILE CONTROL WRITE-UPDATE (AJ)'
365		DC	X'A311',CL30'FILE CONTROL WRITE-ADD (AJ)'
366		DC	X'C011',CL30'FILE CONTROL READ-ONLY (AL)'
367		DC	X'C111',CL30'FILE CONTROL READ-UPDATE (AL)'
368		DC	X'C211',CL30'FILE CONTROL WRITE-UPDATE (AL)'
369		DC	X'C311',CL30'FILE CONTROL WRITE-ADD (AL)'
370		DC	X'E011',CL30'FILE CONTROL READ-ONLY (AL)'
371		DC	X'E111',CL30'FILE CONTROL READ-UPDATE (AL)'
372		DC	X'E211',CL30'FILE CONTROL WRITE-UPDATE (AL)'
373		DC	X'E311',CL30'FILE CONTROL WRITE-ADD (AL)'
374		DC	X'F155',CL30'LOGICAL START OF SYNC POINT'
375		DC	X'F255',CL30'LOGICAL END-OF-TASK'
376		DC	X'F355',CL30'PHYSICAL END-OF-TASK'
377		DC	X'F555',CL30'SYNC POINT REQUEST'

378	*		YEAR TABLE 1
380	YEARTAB1	DC	PL2'0',X'00'
381		DC	PL2'31',X'01'
382		DC	PL2'55',X'02'
383		DC	PL2'9C',X'03'
384		DC	PL2'120',X'04'
385		DC	PL2'151',X'05'
386		DC	PL2'181',X'06'
387		DC	PL2'212',X'07'
388		DC	PL2'243',X'08'
389		DC	PL2'273',X'09'
390		DC	PL2'304',X'10'
391		DC	PL2'334',X'11'
392		DC	PL2'365',X'12'

393	*		YEAR TABLE 2
394	YEARTAB2	DC	PL2'0',X'00'
395		DC	PL2'31',X'01'

396 DC PL2'60',X'C2'
 397 DC PL2'91',X'03'
 398 DC PL2'121',X'04'
 399 DC PL2'152',X'05'
 400 DC PL2'182',X'06'
 401 DC PL2'213',X'07'
 402 DC PL2'244',X'08'
 403 DC PL2'274',X'09'
 404 DC PL2'305',X'10'
 405 DC PL2'335',X'11'
 406 DC PL2'366',X'12'

403 TRTABLE DC 240X'5C'
 409 DC X'F0F1F2 F3 F4 F5 F6 F7F8F9C1C2C3C4C5C6'

411 * EDIT WORD :
 412 EDPAGE DC X'402C2020'
 413 EDTIMERQ DC X'40212C7A2C2C7A2020'
 414 EDLGDATE DC X'402C212C612C2C612020'

415 * PACKED DECLARATIVES :
 416 LINECTR DC PL2'0'
 417 PAGECTR DC PL2'1'
 418 TOPAGE DC P'5'
 419 ENDPAGE DC P'55'

420 * PACKED DEFINE STORAGE:
 421 FUNCID DS PL2
 422 JULIAN DS PL4
 423 JLIANDT DS PL2

424 * CHARACTER DECLARATIVES
 425 ERRORI DC C'WRONG MODULE IDENTIFIER'
 426 * CHARACTER DEFINE STORAGE :
 427 LGDATE DS CL10
 428 TIMERQ DS CL9
 429 FUNCIDBF DS CL3

431 PRINT GEN

433 DFHJCR CICSYST=YES MAP JOURNAL RECORDS

434+*****
 435+* * * * *
 436+* * * * * JOURNAL CONTROL RECORD * * * * *
 437+* * * * *
 438+*****
 439+DFHJCFDS DSECT JOURNAL LOGICAL RECORD @
 440+JCRBA EQU * JOURNAL RECORD BEGIN ADDR @
 441+JCRLL DS H VARIABLE-LENGTH RECORD LL @
 442+* BYTES
 443+JCRBB DS H VARIABLE-LENGTH RECORD BB @
 444+* BYTES
 445+JCRSTRID DS H SYSTEM TYPE-RECORD ID @
 446+* CONSISTS OF:-

```

447+*                                     (SEE DFHMIDS DSECT)
448+*                                     ...FUNCTION ID, PLUS
449+*                                     ...MODULE ID.
450+*
451+JCRUTRID DS      H      USER TYPE-RECORD ID (USER          @
452+*                                     SPECIFIED)
453+JCRLRN  DS      PL2    LOGICAL RECORD NUMBER            @
454+*                                     (WITHIN BLOCK)
455+*      ABOVE TEN BYTES ALWAYS THE SAME FOR ALL JOURNAL RECORDS.
456+*      EXCEPT FOR 'LABEL' RECORD (FIRST ONE IN EVERY BLOCK),
457+*      ALL JOURNAL RECORDS CONTINUE WITH THE 'SYSTEM PREFIX'....
458+*
459+* = = = = =
460+* -
461+* - CONTENTS AND SEQUENCE OF FOLLOWING FIELDS OF THIS DSECT
462+* - SHOULD BE KEPT IDENTICAL WITH CORRESPONDING FIELDS OF
463+* - 'DSECT' DFHJCA, FOR DATA MOVES BY JCP.
464+* -
465+*****
466+* * *      SYSTEM PREFIX: COMMON ROOT SEGMENT      * * *
467+*****
468+JCSPPA  EQU      *      SYSTEM PREFIX BEGIN ADDRESS          @
469+JCSPLL  DS      H      SYSTEM PREFIX LENGTH 'LL'            @
470+JCSPPS  DS      OCL3   SYSTEM-PREFIX FLAGS BYTES:          @
471+*      DS      BL2     (RESERVED FOR FUTURE USAGE)            @
472+JCSPP1  DS      B      FLAGS BYTE1                          @
473+JCSPP2  EQU      X'01'  ...USER PREFIX PRESENT              @
474+JCSPP3  EQU      X'02'  ...(PHYSICAL) START-OF-TASK          @
475+JCSPP4  EQU      X'04'  ...LOGICAL START-OF-TASK             @
476+JCSPP5  EQU      X'08'  ...DFHRUP RECORD INFLIGHT           @
477+*      FLAG
478+JCSPP6  EQU      X'10'  ...OUTPUT-MESSAGE IN DCUBT          @
479+JCSPP7  DS      PL3    TASK NUMBER                          @
480+JCSPP8  DS      PL4    TIME OF REQUEST (HMMSSSS+)           @
481+JCSPP9  DS      CL4    TRANSACTION ID                        @
482+JCSPPA  DS      CL4    TERMINAL ID                          @
483+JCSPPB  EQU      *      SYSTEM PREFIX ROOT END              @
484+*      ADDRESS
485+JCSPPC  EQU      JCSPPA-JCSPPB  SYSTEM PREFIX ROOT LENGTH    @
486+* -
487+* = = = = =
488+*****
489+* *      SYSTEM PREFIX: FILE CONTROL VARIABLE SEGMENT      * * *
490+*****
491+*      ORG      JCSPPA  ORIGIN @ END OF SYS-PREFX RCCT          @
492+JCSPP1  DS      CL8    FILE CONTROL FILE ID                  @
493+JCSPP2  EQU      *      FILE CONTROL START OF RECORD          @
494+*      ID
495+JCSPP3  EQU      *-JCSPPA  FILE CONTROL SYSTEM PREFIX          @
496+*      LENGTH (LESS....
497+*      ...LENGTH OF RECORD ID)

```

```

498+*****
499+* *          SYSTEM PREFIX: TERMINAL CONTROL SEGMENT          @
500+*****
501+          ORG   JCSPFEA          CFG TC END OF SYSTEM PREFIX          @
502+*          FOOT
503+JCSPTCVS  DS    2H          VTAM SEQUENCE NUMBERS          @
504+JCSP TCL  EQU   *-JCSPBA          TC SYSTEM PREFIX LENGTH          @
505+*****
506+* *          SYSTEM PREFIX: SPF SEGMENT (INTERSYSTEM COMMUNICATION)  * *
507+*****
508+          ORG   JCSPFEA          @BBAI40D
509+JCSPISI   DS    H          NUMBER OF LAST SYSTEM          @BCAI40D
510+*          PREFIX FOOT INBOUND
511+JCSPISQ   DS    H          NUMBER OF LAST OUTBOUND SFR @BDAI40D
512+JCSPISFL  DS    C          FLAG          @BBAI40D
513+JCSPINDT  EQU   X'80'          'IN-DOUBT'          @BBAI40D
514+JCSPSSPR  EQU   X'40'          SENT SYSTEM PREFIX ROOT          @ECAI40D
515+JCSPISAB  EQU   X'20'          SUCCESSFUL ABCRT          @EBAI40D
516+JCSPNDTB  EQU   X'10'          NO BACKOUT IF 'IN-DOUBT'          @BBAI40D
517+JCSPFAIL  EQU   X'08'          SESSION FAILED          @BBAI40D
518+JCSP IWT  EQU   X'04'          WAIT FOR SESSION RECOVERY          @EIOI065
519+JCSPISOP  DS    CL3          OPERATOR ID          @EBAI40D
520+JCSP ISTM DS    CL4          INTERSYSTEM TERMINAL ID          @BBAI40D
521+JCSPISL   EQU   *-JCSPBA          INTERSYSTEM COMMUNICATION          @BCAI40D
522+*          PREFIX LENGTH

524+*****
525+* *          REMOTE SESSION QUALIFIER SEGMENT          * *
526+*****
527+          ORG   JCSPFEA          @EBCI80D
528+JCSPRSQ   DS    C          RSQ LENGTH          @BBDI80D
529+JCSPRSQ   DS    CL8          RSC (MAX 8 CHARS)          @BBDI80D
530+JCSPRQTM  DS    CL4          TERMINAL ID          @BBDI80D
531+JCSPRSL   EQU   *-JCSPBA          RSQ PREFIX LENGTH          @BBDI80D
532+*****

```

ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย




```

534+*****
535+* * *
536+* * *          JOURNAL CONTROL 'LABEL' RECORD
537+* * *
538+*****
539+          ORG   JCR BA          ORIGIN @ JOURNAL RECORD
540+*          BEGIN ADDRESS
541+JCLRBA    EQU   *          JOURNAL 'LABEL' RECORD BEGIN
542+*          ADDRESS
543+JCLRLL    DS    H          VARIABLE-LENGTH RECORD LL
544+*          BYTES
545+JCLRBB    DS    H          VARIABLE-LENGTH RECORD BB
546+*          BYTES
547+JCLRSTID DS    H          SYSTEM TYPE-RECORD
548+*          IDENTIFICATION = X'8045'
549+JCLRJTID DS    H          USER TYPE-RECORD
550+*          IDENTIFICATION = X'0000'
551+JCLRLEN   DS    PL2        LOGICAL RECORD NUMBER
552+*          (ALWAYS ONE)
553+* - - - - -
554+* -
555+* - CONTENTS AND SEQUENCE OF FOLLOWING FIELDS OF THIS DSECT
556+* - SHOULD BE KEPT IDENTICAL WITH CORRESPONDING FIELDS OF
557+* - DSECT DFHJCTE, FOR DATA MOVES BY JCP.
558+* -
559+JCLRJFID  DS    C          JOURNAL FILE ID
560+JCLRBKLN  DS    PL3        JOURNAL BLOCK NUMBER
561+          ORG   JCLRJFID    ...AND/OR...
562+JCLRECN   DS    CL4        EVENT CONTROL NUMBER
563+JCLRVCD   DS    PL4        VOLUME CREATION DATE (YYDDD+)
564+JCLRVSNN  DS    PL2        VOLUME SEQUENCE NUMBER (NNN+)
565+JCLRFBW   DS    F          LAST BLOCK WRITTEN
566+JCLRTBAL  DS    H          TRACK BALANCE
567+JCLRTIME  DS    PL4        TIME BLOCK WRITTEN (HHMMSSS+)
568+* -
569+* - - - - -
570+JCLRST    DS    PL4        RUN START TIME (HHMMSSS+)
571+JCLFDATE  DS    PL4        DATE BLOCK WRITTEN (YYDDD+)
572+JCLREA    EQU   *          JOURNAL 'LABEL' RECORD END
573+*          ADDRESS
574+JCLRL     EQU   JCLREA-JCLFBA JOURNAL 'LABEL' RECORD
575+*          LENGTH
576+*****

```

```

578          END          PROGO
579          =C'$$BOPEN '
580          =C'$$BCLCSE'
581          =A(DFHJOLA)
582          =A(PFTR)

```


ภาคผนวก ข

ผลการทำงานของโปรแกรมที่ใช้ในการทดสอบ

หน้าจอของเทอร์มินัลระบบ เมื่อทำการเตรียมแฟ้มข้อมูลบันทึกประจำวันระบบ

```

01 R RDR,*SYSTIM
02 F1 001 1R88I OK
03 F1 001 1Q47I BG SYSTIM01 07122 FROM 000 L. LERTCHAI
04 BG 000 LOG
05 BG 000 // JOB SYSTIM01
06 DATE 12/04/85,CLOCK 12/33/17
07 BG 000 // OPTION LOG
08 BG 000 // LIBDEF CL,SEARCH=PRDCLB,TEMP
09 BG 000 // DLBL JOURNAL,'CICS.SYSTEM.LOGA',0
10 BG 000 // EXTENT SYS011,SYSWK3,1,0,2760,120
11 BG 000 // ASSGN SYS011,DISK,VOL=SYSWK3,SHR
12 BG 000 1T20I SYS011 HAS BEEN ASSIGNED TO X'1C3'
13 BG 000 // EXEC DFHJCJFP
14 BG 000 DFH4599 - JOURNAL EXTENT INITIALIZED
15 BG 000 EOJ SYSTIM01
16 DATE 12/04/85,CLOCK 12/33/24,DURATION 00/00/07
17 BG 000 // JOB SYSTIM02
18 DATE 12/04/85,CLOCK 12/33/24
19 BG 000 // OPTION LOG
20 BG 000 // LIBDEF CL,SEARCH=PRDCLB,TEMP
** MESSAGE REDISPLAY FWD ALL=0031

```

```

01 BG 000 // DLBL JOURNAL,'CICS.SYSTEM.LOGB',0
02 BG 000 // EXTENT SYS011,SYSWK3,1,0,2880,120
03 BG 000 // ASSGN SYS011,DISK,VOL=SYSWK3,SHR
04 BG 000 1T20I SYS011 HAS BEEN ASSIGNED TO X'1C3'
05 BG 000 // EXEC DFHJCJFP
06 BG 000 DFH4599 - JOURNAL EXTENT INITIALIZED
07 BG 000 EOJ SYSTIM02
08 DATE 12/04/85,CLOCK 12/33/31,DURATION 00/00/07
09 BG 000 NOLOG
10 F1 001 1Q34I BG WAITING FOR WORK
11 F1 001 1Q34I LST WAITING FOR WORK ON 05E
12 ----- END OF FILE -----
13
14
15
16
17
18
19
20

```

** MESSAGE REDISPLAY FWD ALL=0011



หน้าจอเทอร์มินัลระบบเมื่อทำการเริ่มต้นระบบซีไอซีเอส วีเอส

```

01 F1 001 1R46I READER QUEUE P D C S CARDS FROM
02 F1 001 1R46I CICSYAN4 07125 9 L 3 58
03 R RDR,CICSYAN4
04 F1 001 1R88I OK
05 F1 001 1Q47I F3 CICSYAN4 07125 FROM 000
06 F3 003 // JOB SYSTMST CICS EXEC WITH VSAM FILEA ON 3340
07 DATE 12/04/85,CLOCK 12/43/47
08 F3 003 // PAUSE PRESS END TO RUN - ENTER CANCEL TO BYPASS
09*F3-003
10 3
11 F3 003 // UPSI 10 SYSIN OVER-RIDES AP=NO
12 F3 003 // OPTION LOG
13 F3 003 // LIBDEF CL,SEARCH=(USRCL1,PRDCLB),FROM=IJSYSRS,TEMP
14 F3 003 // LIBDEF RL,FROM=PRDRLB,TEMP
15 F3 003 // LIBDEF SL,FROM=PRISLB,TO=USRSL1,TEMP
16 F3 003 // DLBL IJSYSUC,'SIPOE.USER.CATALOG',,VSAM
17 F3 003 // EXTENT SYS007,SYSWK4
18 F3 003 // DLBL FILEA,'SAMPLE.TEST.FILEA',,VSAM USED FOR CICS SAMP PGMS
19 F3 003 // EXTENT SYS007,SYSWK4
20 F3 003 // DLBL DFHMPA,'CICS.DUMPA',,0 USED FOR CICS DUMPS
** MESSAGE REDISPLAY BWD ALL=0100 *****

```

```

01 F3 003 // EXTENT SYS010,SYSWK4,1,0,1056,120 CYL 88 FOR 10 CYL
02 F3 003 // DLBL DFHMFB,'CICS.DUMPB',,0 USED FOR CICS DUMPS
03 F3 003 // EXTENT SYS010,SYSWK4,1,0,1176,36 CYL 98 FOR 12 CYL
04 F3 003 // DLBL LOGUSR,'CICS.LOGUSR',,0 OPTNL USED FOR DCT=1$
05 F3 003 // EXTENT SYS010,SYSWK4,1,0,1356,12 CYL 669 FOR 1 CYL
06 F3 003 // DLBL MSGUSR,'CICS.MSGUSR',,0 OPTNL USED FOR DCT=1$
07 F3 003 // EXTENT SYS010,SYSWK4,1,0,1368,24 CYL 670 FOR 2 CYL
08 F3 003 // DLBL DFHTEMP,'XONL.DFHTEMP',,VSAM TEMP STOR ON VSAM
09 F3 003 // EXTENT SYS007,SYSWK4
10 F3 003 // DLBL DFHRSD,'CICS.RSD',,0,SD
11 F3 003 // EXTENT SYS008,SYSWK3,1,0,3000,120
12 F3 003 // DLBL DFHJ01A,'CICS.SYSTEM.LOGA',,0
13 F3 003 // EXTENT SYS008,SYSWK3,1,0,2760,120
14 F3 003 // DLBL DFHJ01B,'CICS.SYSTEM.LOGB',,0
15 F3 003 // EXTENT SYS006,SYSWK3,1,0,2880,120
16 F3 003 // ASSGN SYS011,X'358' LOCAL 3277 DISPLAY
17 F3 003 // ASSGN SYS012,X'359' LOCAL 3277 DISPLAY
18 F3 003 // ASSGN SYS013,X'35A' LOCAL 3277 DISPLAY
19 F3 003 // ASSGN SYS014,X'35B' LOCAL 3277 DISPLAY
20 F3 003 // ASSGN SYS015,X'35C' LOCAL 3277 DISPLAY
** MESSAGE REDISPLAY EWD ALL=0080 *****

```

```

01 F3 003 // ASSGN SYS016,X'35D' LOCAL 3277 DISPLAY
02 F3 003 // ASSGN SYS017,X'35E' LOCAL 3277 DISPLAY
03 F3 003 // ASSGN SYS018,X'35F' LOCAL 3277 DISPLAY
04 F3 003 // ASSGN SYS006,DISK,VOL=SYSWK3,SHR VSAM FILES
05 F3 003 1T20I SYS006 HAS BEEN ASSIGNED TO X'1C3'
06 F3 003 // ASSGN SYS007,DISK,VOL=SYSWK4,SHR VSAM FILES
07 F3 003 1T20I SYS007 HAS BEEN ASSIGNED TO X'1C4'
08 F3 003 // ASSGN SYS008,DISK,VOL=SYSWK3,SHR VSAM FILES
09 F3 003 1T20I SYS008 HAS BEEN ASSIGNED TO X'1C3'
10 F3 003 // ASSGN SYS010,DISK,VOL=SYSWK4,SHR CICS FILES
11 F3 003 1T20I SYS010 HAS BEEN ASSIGNED TO X'1C4'
12 F3 003 // ASSGN SYS009,SYSLOG
13 F3 003 1T20I SYS009 HAS BEEN ASSIGNED TO X'01F'
14 F3 003 // ASSGN SYS031,SYSPCH
15 F3 003 1T20I SYS031 HAS BEEN ASSIGNED TO X'00D'
16 F3 003 // EXEC IDCAMS,SIZE=AUTO
17 F3 003 // EXEC DFHSIP,SIZE=900K
18 F3 003 DFH1500 - CICS START-UP IS IN PROGRESS; VERSION 1.5, PTF LEVEL 0150
19 F3 003 DFH1500 - READING OVERRIDE PARAMETERS FROM SYSIPT
20 F3 003 SIT=2$,AKPFREQ=200,
** MESSAGE REDISPLAY BWD ALL=0060 *****

```

```

01 40800000
02 F3 003 PCP=3$,DCP=1$,KPP=1$,TBP=1$,DBP=1$, COBOL PL/I ASSEMBLER PGMS
03 41200000
04 F3 003 FCP=A$,FCT=YJ,TCT=LL,JCP=1$, VSAM FILEA ONLY
05 41600000
06 F3 003 PCT=2$,PPT=2$,NLT=2$,JCT=(1$,DISK),
07 F3 003 IIP=3$,MCP=3$,M32=3$,RLR=3$,PBP=3$,TPP=3$,DSB=3$,DCT=1$,
08 42000000
09 F3 003 $END
10 42400000
11 F3 003 DFH1501 - DFHSIT2$ IS BEING LOADED
12 F3 003 DFH1503 - INVALID KEYWORD SPECIFIED - TBP=
13 F3 003 DFH1500 - LOADING CICS NUCLEUS
14 F3 003 DFH1500 - PL/I MODULE WILL BE INCLUDED
15 F3 003 DFH1596A - INVALID APPLICATION MODULE DEFINED IN PPT
16 F3 003 IBMBCCLA IBMBEOCA IBMBETAA IBMBETBA IBMBETCA IBMBETIA IBMBETOA
17 IBMBETPA
18 F3 003 IBMBETQA IBMBETTA IBMDCRA IBMFEFCA IBMFESMA IBMFESNA IBMFKCSA
19 IBMFKMRA
20 F3 003 IBMFKPTA IBMFKTBA IBMFKTCA IBMFKTRA IBMFPGDA IBMFPMRA IBMFSTVA
** MESSAGE REDISPLAY BWD ALL=0040 *****

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01
02 F3 003 DFH1505 - REPLY GO OR CANCEL
03*F3-003
04 3 GO
05 F3 003 DFH1500 - TRANSIENT DATA SETS ARE BEING OPENED
06 F3 003 DFH1500 - DATA BASE DATASETS ARE BEING OPENED
07 F3 003 DFH1500 - TERMINAL DATA SETS ARE BEING OPENED
08 F3 003 DFH1500 - DUMP DATA SET IS BEING OPENED
09 F3 003 DFH1500 - INITIALIZING TEMPORARY STORAGE
10 F3 003 DFH1500 - LOADING RESIDENT APPLICATION MODULES
11 F3 003 DFH1500 - JOURNAL CONTROL SUBTASK IS BEING ATTACHED
12 F3 003 DFH1500 - SUBPOOL SIZE FOR THIS START-UP IS 380K
13 F3 003 DFH1500 - CPU-TERMINAL SUPPORT AVAILABLE
14 F3 003 DFH1500 - STXIT PC MACRO IS BEING ISSUED
15 F3 003 DFH1500 - STXIT AB MACRO IS BEING ISSUED
16 F3 003 DFH1500 - OPENING JOURNAL FILES
17 F3 023 DFH4508 - CICS SYSTEM LOG. PRIMARY EXTENT NOW RECEIVING OUTPUT ON
18 1C3
19 F3 003 DFH4500 - 01 OF 01 JOURNALS SUCCESSFULLY OPENED
20 F3 003 DFH1500 - CONTROL IS BEING GIVEN TO CICS
** MESSAGE REDISPLAY BWD ALL=0020 *****

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หน้าจอของเทอร์มินัลระบบเมื่อทำการหยุดระบบซีไอเอส วีเอส ด้วยคำสั่ง CMST SHUT,Y

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01 MSG F3
02 F3-003 0D16D READY
03 3 CSMT TAS
04 F3 003
05 F3 003 TASKNO TRANID ACT/SUSP FAC.NAME TYPE
06 F3 003 00077 CSMT ACT CNSL TERM
07 F3 003
08 F3-003 TIME= 13.09.02 DATE= 04/12/85
09 3 CSMT SHUT,Y
10 F3 003
11 F3 003 DFH1701 - C.I.C.S. IS BEING TERMINATED
12 F3 003 DFH4510 - ALL OPEN JOURNALS NOW CLOSED
13 F3 003 DFH1796 - KEYPOINT SUCCESSFUL
14 F3 003 DFH1799 - TERMINATION OF CICS/VSE IS COMPLETE
15 F3 003 EDJ SYSTMST
16 DATE 12/04/85,CLOCK 13/09/31 ,DURATION 00/25/44
17 F3 003 NOLOG
18 F1 001 1034I F3 WAITING FOR WORK
19 F1 001 1034I LST WAITING FOR WORK ON 05E
20

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เมื่อเริ่มต้นระบบซีไอซีเอส วีเอส แล้ว ได้ติดต่อกับซีไอซีเอส วีเอส ด้วยคำสั่ง
'DI DOSVSE 358' แล้วทดลองเรียกใช้ทรานแซคชัน ดังนี้

- INQY
- BRWS
- ADDS
- UPDT
- AREP
- REPT
- RREP
- PREP

จากนั้นเลิกใช้เทอร์มินัลดังกล่าว แล้วติดต่อกับซีไอซีเอส วีเอส ด้วยคำสั่ง
'DI DOSVSE 359' แล้วทดลองเรียกใช้ทรานแซคชันแบบเดียวกัน หลังจากนั้นจึงเลิกใช้
เทอร์มินัลดังกล่าว

ก่อนที่จะหยุดการทำงานของระบบซีไอซีเอส วีเอส ด้วยคำสั่ง 'CSMT SHUT,Y'
จากเทอร์มินัลระบบ ได้ติดต่อกับซีไอซีเอส วีเอส ด้วยคำสั่ง 'DI DOSVSE 358' และเรียก
ใช้ทรานแซคชัน แบบเดียวกันอีกครั้งหนึ่ง

เมื่อซีไอซีเอส วีเอส หยุดทำงานเรียบร้อยแล้ว ได้ส่งโปรแกรมอ่านแฟ้มข้อมูล
บันทึกรายวันเข้าไปประมวลผล และได้รายงานที่พิมพ์ออกมาดังนี้

ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย

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วิศวกรรมศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย ในปี พ.ศ.๒๕๒๓



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