

CICS/Swap

Run up to 8 logical sessions on a single CICS terminal



- Up to 8 sessions for each CICS terminal
- End users can override swap keys
- Automatically handles applications that have temp storage ids with termid as part of the name
- Supports applications with different screen sizes
- Runs on all current CICS releases
- Maintains integrity by preventing another user from inheriting screens on the same terminal

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CICS/SWAP is a facility allowing a single CICS terminal to function as up to eight logical terminals with each one running the same or different transaction. Each terminal or user can have a unique maximum session value. Navigation between the sessions is accomplished by pressing the designated SWAP (PF/PA) key to rotate forward or backward one session at a time. From the Selection Screen you can also hide low-priority sessions to make navigation between hot sessions easier or you can close unused sessions.

```

SWPMSEL                Mackinney Systems CICS/SWAP Ver 4.4          TERMID: T05A
                        Selection Screen                            MAXSES: 8
Enter S-select, C-close, F-force close, H-hide, U-unhide session  TS ID: +AC
                                                                Fwd: PF12
                                                                Bwd: PF11
                                                                Sel: PF9
-----TRANID-----
Sel Ses Status   Screen      TRANID  Grp  Fwd  Bwd  Sel
  1  1  SPY SESSION  SPYA    000  PF5  PF4
  2  2  ACTIVE      MSGA    000
  3  3  ACTIVE      LOGI    000
  4  4  CICS/HOTPRNT HGRA    000
  5  5  ACTIVE      ST2A    000
  6  6  INACTIVE    ....    000
  7  7  ACTIVE      EML     000
  8  8  *CURRENT  INACTIVE 000

ENTER=Process  PF1=Help  PF3=Return  PF5=NewSession

```

You can press the select (PF/PA) key or type in the "SWAP" transaction to bring up the Selection Screen, from where you can directly select a session or open a new session. This screen shows eight sessions with default forward (PF12), backward (PF11) and select (PF9) keys. The SPYA transaction in session 1 has override PFKeys for forward (PF5) and backward (PF4). Overrides for transactions are defined in the SWAP table by the administrator.

User Flexibility

Users can open up a specific number of sessions and override the default PF/PA keys by issuing the SWAP ON command with specific override parameters as shown here. A user can also request SWAP keys be ignored for a time by issuing the SWAP OFF command.

```
swap on,ses=3,fwd=pf12,bwd=pf11,sel=pf9
```

```
SWPE010-SWAP ENABLED FOR T05A WITH SES=3, FWD=PF12, BWD=PF11, SEL=PF9
```

In these samples, the user is requesting 3 sessions be started with a FWD key of PF12, a BWD key of PF11 and a SEL key of PF9.

Administration

Administration of CICS/SWAP is accomplished by a combination of a simple table and online screens. In the table you define how many terminal entries to allow for, plus you define any default and special overrides (by terminal, user and transaction). You can prevent a user from swapping or require using different SWAP keys when a certain transaction is active for example.

```

TITLE 'SWPPTBL - SAMPLE TABLE'
PRINT GEN
* *****
* GENERATE DEFAULT SWAP AND SELECTION KEYS, DEFAULT MAX SESSIONS
* *****
SWAPTBL TYPE=INITIAL, PFKEY=PF12, STKEY=PF9, BWKEY=PF11, *
      MAXSES=8
* *****
* TERMINAL ENTRIES ELIGIBLE FOR SWAP WITH SPECIAL REQUIREMENTS (NO *)
* *****
SWAPTBL T001,TYPE=TERMINID,PFKEY=PF18,STKEY=NULL,BWKEY=PF17
SWAPTBL T003,TYPE=TERMINID,MAXSES=2
* *****
* TERMINAL ENTRIES TO BE AUTOMATICALLY GENERATED
* *****
SWAPTBL TYPE=AUTO,NUM=99
* *****
* TERMINAL ENTRIES TO BE EXCLUDED (* SUPPORTED)
* *****
SWAPTBL T09*,TYPE=EXCL
SWAPTBL T9**,TYPE=EXCL
* *****
* TRANSACTIONS WITH SPECIFIC LIMITATIONS (* SUPPORTED)
* *****
SWAPTBL PF1,TYPE=TRANID,LIMIT=SESSION1
SWAPTBL PF3,TYPE=TRANID,LIMIT=SESSION1
SWAPTBL PF13,TYPE=TRANID,LIMIT=SESSION1
SWAPTBL PF15,TYPE=TRANID,LIMIT=SESSION1
SWAPTBL ICCF,TYPE=TRANID,LIMIT=SESSION1
SWAPTBL I$$*,TYPE=TRANID,LIMIT=SESSION1
SWAPTBL ACCT,TYPE=TRANID,LIMIT=SESSION2
SWAPTBL STOP,TYPE=TRANID,LIMIT=EXCLUDE
SWAPTBL PFOV,TYPE=TRANID,PFKEY=PF5,STKEY=PF6,BWKEY=PF4
SWAPTBL NSWP,TYPE=TRANID,LIMIT=NONSWAP,STKEY=NULL
SWAPTBL CSSF,TYPE=TRANID,INACT=YES
SWAPTBL CESF,TYPE=TRANID,INACT=YES
SWAPTBL SPY*,TYPE=TRANID,DESC='SPY SESSION '
SWAPTBL SWP*,TYPE=TRANID,DESC='CICS/SWAP '
SWAPTBL HPR*,TYPE=TRANID,DESC='CICS/HOTPRNT'
SWAPTBL TYPE=GROUP
SWAPTBL G001,TYPE=TRANID,PFKEY=PF11,BWKEY=PF10
SWAPTBL G0**,TYPE=TRANID
SWAPTBL TYPE=GROUP
SWAPTBL H001,TYPE=TRANID,PFKEY=PF4
SWAPTBL H0**,TYPE=TRANID
* *****
* USERIDS WITH OVERRIDES (* SUPPORTED)
* *****
SWAPTBL PAY****,TYPE=USERID,PFKEY=PF8,STKEY=NULL,BWKEY=PF7, *
      MAXSES=3
SWAPTBL SYS****,TYPE=USERID,MAXSES=5
* *****
* ENDS TABLE
* *****
SWAPTBL TYPE=FINAL
END

```

SWPMOPT

CICS/SWAP Installation Options

```

SELECT TRAN: SWAP  Transid for user session selection
SWAP TRAN: SWPR   Transid for use by SWAP exit
CASE TRAN: SWPC   Transid for toggling uppercase translate
EXITS: VTAM      Exit(s) to enable (VTAM/BTAM/BOTH)
ICCF NOATI: N    Turn ATI off on SWAP out of ICCF (VSE only) (Y/N)
ATIOFF: N       Turn ATI off while logical session is active (Y/N)
UCTRAN: N       Force UCTRAN (Y) or warn (N) if mixed case on initial SWAP
SWAP TCTUA: Y    Maintain separate TCTUA (User area) for each session (Y/N)
CLEAR TCTUA: Y   If SWAP TCTUA=Y, zero TCTUA for each new session (Y/N)
SWAP ON: Y      Default SWAP status for dynamic terminals (Y-On/N-off)
AUTO OPEN: Y    Open new sesn if Fwd swap in last sesn if n < MAXSES (Y/N)
LOGICAL MRO: N  Support logical ids in MRO environment (Y/N)
TCTUA OFFSET: 000 Reserve 4 bytes at TCTUA offset if LOGICAL MRO=Y (0-251)
MENU TRAN: _____ Specify transid to be treated as inactive (optional)
XCTL PGM: SWPPSAM Specify program to XCTL to on initial SWAP (optional)

```

ENTER=Update PF1=Help PF3=End

The online administration screen allows you to customize CICS/SWAP for your environment. A user exit is available that receives control when a new session is opened. You can customize the exit to automatically start specific transactions for certain sessions, pop up a menu, or write out a message for the user.

CICS/Swap runs on all CICS releases under VSE or MVS. Download a free trial from www.mackinney.com or call for more information.

MacKinney Systems also markets a VTAM session manager (VTAM/SWITCH) which allows switching from CICS to TSO, etc. Please call for more information.

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