IPCS COMMANDS AND DISPLAYS

Remember DFHPDnnn must be in the LINKLIST

To check in SDSF Enter:

/D PROG,LNKLST

Look for the HLQ.SDFHLINK dataset

DFHPD660 - CICS/TS 4.1
DFHPD670 - CICS/TS 4.2
DFHPD680 - CICS/TS 5.1
DFHPD690 - CICS/TS 5.2
DFHPD700 - CICS/TS 5.3

Select IPCS from the Main ISPF screen

Option 0 to change the Dump dataset name
CURRENT DEFAULTS:

Source ==> DSNAME('SYS1.RSMA.DMP00036')
Address space ==> ASID(X'005C')

OVERRIDE DEFAULTS:

Source ==> DSNAME('SYS1.RSMA.DMP00036')

Hit Enter
On the POINTERS Menu

(in order to ensure its a CICS dump)

Enter S under PTR heading and 7000 under Address

DSNAME('SYS1.RSMA.DMP00036') POINTERS ------------------------------------

Command ===>

ASID(X'005C') is the default address space

PTR Address            Address space                            Data type
00001 7000.              ASID(X'005C')                            AREA

Remarks: Kernel Anchor Block

If this is a CICS Dump, then this should display the Kernel Anchor Block

ASID(X'005C') ADDRESS(7000.) STORAGE --------------------------------------

Command ===>

00007000  05006EC4  C6C8D2C5  D2C3C240  40404040 | ..>DFHKEKCB |
Either in IPCS option 6 or from any IPCS screen:

IP VERBX DFHPD680 'KE=1'

* * * * * CICS 6.8.0 - IPCS EXIT * * * * *

CICS680 OPERANDS:

KE=1

=== SUMMARY OF ACTIVE ADDRESS SPACES

ASID(hex): JOBNAME:
005C CICSTS51
ADDRESS SPACE ASID NUMBER (HEX) = 005C

DUMP SUMMARY

DUMPID: 1/0021

DUMPCODE: SM0102

DATE/TIME: 30/01/18 16:48:22 (LOCAL)

MESSAGE: DFHSM0102 CICSTS51 A storage violation (code X'0F0C') has been detected by module DFHSMAR.

SYMPTOMS: PIDs/5655Y0400 LVLS/680 MS/DFHSM0102 RIDS/DFHSMAR PTFS/GM01 PRCS/00000F0C

TITLE: (None)

CALLER: (None)
ASID: X'005C'

Code X'OF0C' indicates that the Storage Violation occurred at the end of the Transaction. The CICS Region name is: CICSTS51

First to the Kernel Domain Summary Table

### KE: Kernel Domain KE_TASK Summary

<table>
<thead>
<tr>
<th>KE_NUM</th>
<th>KE_TASK</th>
<th>STATUS</th>
<th>TCA_ADDR</th>
<th>TRAN_#</th>
<th>TRANSID</th>
<th>DS_TASK</th>
<th>KE_KTCB</th>
<th>ERROR</th>
<th>TCB</th>
<th>CURRENT_PSW</th>
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<tbody>
<tr>
<td>0001</td>
<td>1F1F2000</td>
<td>KTCB Step</td>
<td>00000000</td>
<td>00000000</td>
<td>1F23E038</td>
<td>008F8588</td>
<td>078D1000</td>
<td>80000000</td>
<td>00000000 1F06F2FC</td>
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<td>00000000</td>
<td>1F23AE00</td>
<td>1F239200</td>
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<td>0005</td>
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<td>1F22E000 *<strong>Running</strong> 00000000</td>
<td>1F32D680 1F338F68</td>
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The KE_NUM is the TASENTRY and this is the representation of the Task to the KERNEL Domain

Scroll down to
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<thead>
<tr>
<th>KE_NUM</th>
<th>@STACK</th>
<th>LEN</th>
<th>TYPE</th>
<th>ADDRESS</th>
<th>LINK</th>
<th>REG</th>
<th>OFFSET</th>
<th>ERR</th>
<th>NAME</th>
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<td>001086</td>
<td>TAKE_SYSTEM_DUMP</td>
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</tbody>
</table>

So 003B is the TASENTRY of the offending Task
Next:

IP VERBX DFHPD680 'TR=3'

Search for:  *EXC  (remember this *EXC entry will be placed into the Trace Table even if the Trace is turned off)

XM  QR  SM 0F0C SMAR  *EXC* Storage_check_failed_at_address 2053D170 RELEASE_TRANSACTION_STG
=003216=

Failed Storage Address : 2053D170  (note this down)

Now take the Trace Link number :  =003216=  and find this in the Extended trace


1-0000  00280000 00000001 00000000 00000000 00000000 00000000 02000100 00000000  *.......J........................*
0020  00000000 00000000

*.......  *

2-0000  2053D170
  *..J.*

3-0000  00000060
  *...*

4-0000  E4F0F0F0  F2F8F4F9 00000000 00000000 00000000 00000000 00000000 00000000  *U002849.........................*
0020  00000000 00000000 00000000 00000000  *................*
Make sure that you confirm the Taskentry number 003B and the Failed Storage Address at number : 2

Now we know the Task number of the transaction : 0002849

Recall that the first letter indicates the DSA that the Storage Areas was Getmain from :

M = CDSA = below the Line
B = UDSA = below the Line
C = ECDSA = Above the line
U = EUDSA = Above the Line

(check the CICS/TS TRACE ENTRIES manual for SM 0F0C layout)

Now to the STORAGE MANAGER Domain

IP VERBX DFHPD680 'SM=3'
issue F DFHSMANC (check you can find the Storage Manager Anchor Block - DFHSMANCHOR)

Now find the Storage areas associated with this Task

F SCA.U0002849

SCA.U0002849 1F357CE0 Subpool Control Area

SCE.U0002849 0000050_40708770 Storage Element Descriptor
The Storage Control Element (SCE) manages each task's Getmain

Our Violation address: 2053D170 Length of Storage returned 00000060 (decimal 96 (80 requested and 16 for the two 8 byte Storage Check Zones))

Now back to our Browse menu:

Specify R on 00001 to create another entry

DSNAME('SYS1.RSMA.DMP00036') POINTERS ------------------------------------

Command ==> ASID(X'005C') is the default address space

PTR Address Address space Data type
00001 7000. ASID(X'005C') AREA

Remarks: Kernel Anchor Block

S0002 2053D170. ASID(X'005C') AREA
Remarks: Storage Violation error

Select this Storage Address

ASID(X'005C') ADDRESS(2053D170.) STORAGE -------------------------------

Command ==>  
2053D170 E4F0F0F0 F2F8F4F9 00000000 00000000 | U0002849....... |
2053D180.:2053D1BF. LENGTH(X'40')--All bytes contain X'00'
2053D1C0 00000000 00000000 FFFFFFFF F2F8F4F9 | ............2849 |

The above storage lists our storage address for X'60' bytes

Now let us find the Transaction name :

The Transaction Manager Domain is the entry and exit for Terminal Attached Transactions

IP VERBX DFHPD680 'XM=1'
**XM: TRANSACTION SUMMARY**

The TxdAddr is the representation of the Task to the Transaction Manager Domain

<table>
<thead>
<tr>
<th>Tran</th>
<th>Tran</th>
<th>TxdAddr</th>
<th>Start</th>
<th>Sys</th>
<th>Status</th>
<th>DS</th>
<th>Facility</th>
<th>Facility</th>
<th>AP</th>
<th>PG</th>
<th>XS</th>
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**CSOL 00004 1F409500 C**  Yes  ACT  000C0003 None

1F485700 00000000 00000000 00000000 2040A030 1F3E9064 FF51E600

1F49FDB0

00000000 1F4FB150 00000000 00000000 2040A158 00000000 00000000

**CEPM 00005 1F409700 C**  Yes  ACT  008C0003 None

1F486100 00000000 00000000 00000000 2040A698 1F3E90A8 FF51EB00

1F49FED0

00000000 1F4FB1E0 00000000 00000000 2040A7C0 00000000 00000000

**CSSY 00006 1F409900 C**  Yes  ACT  00040003 None

1F486700 00000000 00000000 00000000 2042F030 1F3E90EC FF51F100

1F49F030

01050000 1F4FB270 00000000 00000000 2042F158 00000000 00000000

**CSSY 00007 1F409B00 C**  Yes  ACT  00120003 None

1F487100 00000000 00000000 00000000 2042F698 1F3E9130 FF51F600

1F49F030

01050000 1F4FB300 00000000 00000000 2042F7C0 00000000 00000000
We know the Task number from the Trace : 0002849, so the offending Transaction Id is VIOL

Now let us find the Program name that this Transaction is invoking :

So to the PCT

IP VERBX DFHPD680 'PCT=2'

F VIOL

TXDINST.VIOL 20784270 TXD current instance
So the Program is CICSVIOL (of course we could logon to this CICS region and issue CEMT INQ TRAN(VIOL) )

Lets find the statement in the Program from where the Getmain was issued.

The LOADER Domain has all the Programs and their storage addresses
IP VERBX DFHPD680 'LD=1'

PROGRAM STORAGE MAP

PGM NAME ENTRY PT CSECT LOAD PT. REL

CICSVIOL A1810E70 -noheda- 21810E70

So now we know the Program's Load and Entry point addresses

So back to the Trace:

IP VERBX DFHPD680 'TR=3'

F *EXC

So this is again where CICS found the Storage Violation. Recall this entry:

XM QR SM 0F0C SMAR *EXC* Storage_check_failed_at_address 2053D170 RELEASE_TRANSACTION_STG
So recall that the Getmain in the program asked for 80 bytes, so we must ignore the first 8 bytes and concentrate on the address 2053D178

So when the GETMAIN was passed to the EXEC INTERFACE, this was the address returned before the two 8 byte SCZs were attached

So F 2053D178 Prev

02849 QR SM 0C02 SMMG EXIT GETMAIN/OK 2053D178
=003076=

Make sure you have the correct task number

Now find the associated Trace Link number =003076= in the Extended trace

TASK-02849 KE_NUM-003B TCB-QR /008FC240 RET-200561A3 TIME-16:48:21.4557486411 INTERVAL-00.0000043125 =003076=
But we want the entry that was passed to the EXEC INTERFACE, so it will be just above this, scroll up until you find this:

AP 00E1 EIP ENTRY GETMAIN
REQ(0004) FIELD-A(205392D0 ..k}) FIELD-B(08000C02 ....) BOUNDARY(0200)

TASK-02849 KE_NUM-003B TCB-QR /008FC240 RET-A181118A TIME-16:48:21.4557141411 INTERVAL=00.0000038125
=003073=

Now look at the RET field of: A181118A This is the contents of Register 14 when the GETMAIN was issued by the Program. So this is the Return address into the Program from where the GETMAIN was issued. The CALL to the EXEC INTERFACE

So now to find the Offset down the program by COBOL VERB, we

Subtract the Program Entry Address from the Getmain Return Address

GETMAIN RETURN ADDRESS   A181118A
PROGRAM ENTRY ADDRESS   A1810E70
So now to the COBOL Compile Listing, ensure it has been compiled with OFFSET in the Compile JCL Parm

<table>
<thead>
<tr>
<th>LINEID</th>
<th>HEXLOC</th>
<th>VERBCODE</th>
<th>LINEID</th>
<th>HEXLOC</th>
<th>VERBCODE</th>
<th>LINEID</th>
<th>HEXLOC</th>
<th>VERBCODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>000152</td>
<td>0001A4</td>
<td>CALL</td>
<td>000161</td>
<td>0001D2</td>
<td>MOVE</td>
<td>000162</td>
<td>0001D8</td>
<td>CALL</td>
</tr>
<tr>
<td>000175</td>
<td>0002CC</td>
<td>MOVE</td>
<td>000176</td>
<td>0002D2</td>
<td>CALL</td>
<td>000186</td>
<td>00031E</td>
<td>MOVE</td>
</tr>
<tr>
<td>000187</td>
<td>000324</td>
<td>MOVE</td>
<td>000188</td>
<td>000330</td>
<td>CALL</td>
<td>000192</td>
<td>00036E</td>
<td>MOVE</td>
</tr>
<tr>
<td>000193</td>
<td>000376</td>
<td>MOVE</td>
<td>000197</td>
<td>000394</td>
<td>MOVE</td>
<td>000198</td>
<td>00039C</td>
<td>CALL</td>
</tr>
<tr>
<td>000207</td>
<td>00042C</td>
<td>MOVE</td>
<td>000208</td>
<td>000438</td>
<td>CALL</td>
<td>000218</td>
<td>00048A</td>
<td>MOVE</td>
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<tr>
<td>000219</td>
<td>000490</td>
<td>MOVE</td>
<td>000220</td>
<td>00049C</td>
<td>CALL</td>
<td>000225</td>
<td>0004DA</td>
<td>CALL</td>
</tr>
<tr>
<td>000228</td>
<td>000500</td>
<td>GOBACK</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The OFFSET listing is read Left to Right, Top to Bottom

Now look for a HEXLOC that is just lower the 31A

and we find LINEID : 000176
Here is the full COBOL source of CICSVIOL

IDENTIFICATION DIVISION.

* PROGRAM-ID. CICSVIOL

*****************************************************************************

* *
* PROGRAM   CICSVIOL
* FUNCTION TO GENERATE A STORAGE VIOLATION
* *
*****************************************************************************

* *
ENVIRONMENT DIVISION.

*
DATA DIVISION.
*
WORKING-STORAGE SECTION.
*
01 CC-CONSTANTS.
   05 CC-VIOL           PIC X(4) VALUE 'VIOL'.
   05 CC-ABOUT-TO-CORRUPT-MSG PIC X(35) VALUE 'ABOUT TO CORRUPT STORAGE CHECK ZONE'.
   05 CC-COMPLETE-MSG   PIC X(32) VALUE 'STORAGE CORRUPTION HAS BEEN DONE'.
*
01 WS-NUMERICS.
   05 WS-RAWTIME       PIC S9(15) COMP-3.
   05 WS-INDEX         PIC S9(4) COMP.
   05 LOWVALUES        PIC S9(4) COMP.
01 WS-STORAGE-AREA.
   05 WS-OUTPUT-TIME   PIC X(8).
*
LINKAGE SECTION.
* 

01  DFHCOMMAREA.
    05  FILLER          PIC X.

01  LS-STOREAGE-AREA.
    05  LS-STOREAGE-AREA-ITEM PIC X(4) OCCURS 22 TIMES.

* 

PROCEDURE DIVISION.

* 

EXEC CICS ASKTIME
    ABSTIME(WS-RAWTIME)
END-EXEC.

* 

EXEC CICS FORMATTIME
    ABSTIME(WS-RAWTIME)
    TIMESEP(' : ')
    TIME(WS-OUTPUT-TIME)
END-EXEC.

* 

EXEC CICS GETMAIN  SET(ADDRESS OF LS-STOREAGE-AREA)
    INITIMG(LOWVALUES)
    FLENGTH(80)
END-EXEC.

EXEC CICS WRITEQ TD
    QUEUE('CSML')
    FROM(CC-ABOUT-TO-CORRUPT-MSG)
    NOHANDLE
END-EXEC.

MOVE 21 TO WS-INDEX.
MOVE HIGH-VALUES TO LS-STORAGE-AREA-ITEM(WS-INDEX).
    MOVE HIGH-VALUES TO LS-STORAGE-AREA-ITEM(WS-INDEX).

EXEC CICS SEND CONTROL CURSOR(160)
END-EXEC.

EXEC CICS SEND
    FROM(CC-COMPLETE-MSG)
END-EXEC.

EXEC CICS WRITEQ TD
    QUEUE('CSML')
    FROM(CC-COMPLETE-MSG)
NOHANDLE
END-EXEC.

* EXEC CICS RETURN END-EXEC
GOBACK.