IPCS for Networkers
Gaining Insight from Gigabytes of VTAM Dump Data

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https://ibm.biz/GeSe_dW

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Session 17295
It takes a special attitude to be a successful debugger.
With the latest advances of Communications Server in terms of scalability
and storage management dumps tend to get bigger and bigger.
As of today we still need to look into the details and try to find
clues in the data we've got, but who knows …
The Problem: CLOSEACB hang

VTAM dumping

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Symptom data</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIDS/569511701</td>
<td>569511701</td>
<td>Component identifier</td>
</tr>
<tr>
<td>LVLS/1D0</td>
<td>1D0</td>
<td>Program product release level</td>
</tr>
<tr>
<td>PCSS/ISTNAC01</td>
<td>ISTNAC01</td>
<td>Software statement</td>
</tr>
<tr>
<td>FLDS/ACDUNTNM</td>
<td>ACDUNTNM</td>
<td>Data field name</td>
</tr>
<tr>
<td>PCSS/FULL</td>
<td>FULL</td>
<td>Software statement</td>
</tr>
<tr>
<td>RIDS/ISTNACTT</td>
<td>ISTNACTT</td>
<td>Routine identifier</td>
</tr>
<tr>
<td>PCSS/TIMEOUT</td>
<td>TIMEOUT</td>
<td>Software statement</td>
</tr>
<tr>
<td>PCSS/CLOSE</td>
<td>CLOSE</td>
<td>Software statement</td>
</tr>
<tr>
<td>FLDS/PTRLUCB</td>
<td>PTRLUCB</td>
<td>Data field name</td>
</tr>
<tr>
<td>ADRS/1AF90D58</td>
<td>1AF90D58</td>
<td>Storage address</td>
</tr>
<tr>
<td>VALU/CIPRET601</td>
<td>IPRET601</td>
<td>Error related character value</td>
</tr>
</tbody>
</table>

The above FFST probe (probe id ISTNAC01) is issued because a CLOSE ACB issued by the application identified in field VALU did not complete in a timely manner. This is almost always because it had a session with a same-domain application and that other application is not being dispatched in a timely manner. If it is known that the system was very busy at the time of the probe, the customer could choose to ignore the probe. Otherwise, the probe dump is needed to identify the partner application that is causing the delay.
The Solution – the easy way out (V2R1+)

CLOSE ACB not completing in a timely manner: Suppress the dump!

NACPROBE start option

```
-NACPROBE--=-=-NODUMP------------
>>-+--------------------------+-<-'
'-NACPROBE--=-+-NODUMP------------+
 '+DUMP-------------+
 '-Number_of_minutes-
```

Specifies whether VTAM® takes an FFST™ probe dump when VTAM does not complete the CLOSE ACB processing for an application in a timely manner. The title of the dump is "NACCT -- CLOSE TIMER EXPIRED FOR applname". Alternatively, you can use this option to specify the time interval at which VTAM takes an FFST probe dump when VTAM does not complete the CLOSE ACB processing for another application in a timely manner.

VTAM must complete the CLOSE ACB processing in a timely manner; otherwise, VTAM takes an FFST probe dump to notify the user and forces the CLOSE ACB processing to complete.
The Solution II – Identify the application ... 

IPCS Commands used in this session

IP STATUS
IP SUMM FORMAT
IP SYSTRACE
IP VERBX SRMDATA
IP VERBX MTRACE
VERBX VTAMMAP routines
VTAM Internal Trace Formatter ISTRAFT1
The Solution II – Identify the application and

Bump up its Dispatching Priority in WLM

Or, code LOSTERM=IMMEDIATE on PLU APPL

Causes VTAM to terminate the Session without waiting for the APPL
Causes the Telnet ACB to close gracefully
Causes LU-mapped Telnet Clients to be able to reconnect again

Complete your session evaluations online at www.SHARE.org/Orlando-Eval
The Status Information

- **IP ST FAILDATA**

**Command:**
```
Command ===> ip st faildata
```

**Primary Symptom String:**
- PIDS/569511701 LVLS/1D0 PCSS/INSTAC01 FLDS/ACDUNTNM PCSS/FULL RIDS/INSTAC01 PCSS/TIMEOUT PCSS/CLOSE FLDS/PTRLUCB ADRS/1AF90D58 VALU/CIPRET601

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<td>TIMEOUT</td>
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<tr>
<td>PCSS/CLOSE</td>
<td>CLOSE</td>
<td>Software statement</td>
</tr>
<tr>
<td>FLDS/PTRLUCB</td>
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<tr>
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<td>1AF90D58</td>
<td>Storage address</td>
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<td>VALU/CIPRET601</td>
<td>CIPRET601</td>
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**INFO APAR II12578:**

II12578
The FFST probe ISTNAC01 is issued because a CLOSE ACB issued by the application identified in field VALU did not complete in a timely manner. This is almost always because it had a session with a same-domain application and that other application is not being dispatched in a timely manner.

If it is known that the system was very busy at the time of the probe, the customer could choose to ignore the probe. Otherwise, the probe **dump is needed to identify** the partner application that is causing the delay.

**APAR II12578:**

INFO APAR II12578: https://ibm.biz/BdXAtK

Complete your session evaluations online at www.SHARE.org/Orlando-Eval
The Status Information

**IP STATUS**

IPCS OUTPUT STREAM -----------------------------------
Command ===> IP ST
****************************************************** TOP 0

MVS Diagnostic Worksheet

Dump Title: NACCT -- CLOSE TIMER EXPIRED FOR IPRET601
CPU Model 2828 Version 00 Serial no. 02EA47 Address 000
Date: 02/03/2015     Time: 20:35:58.407087 Local
Original dump dataset: SYSTEM.SVCDUMP.SYSB.D150204.T043555.S00003

CSD

Alive Mask: C0000000 00000000 00000000 00000000 #CPUs:  2
CP    Mask: C0000000 00000000 00000000 00000000 #CPUs:  2
zAAP  Mask: 00000000 00000000 00000000 00000000 #CPUs:  0
zIIP  Mask: 00000000 00000000 00000000 00000000 #CPUs:  0

CPU Model 2828 is an IBM zEnterprise BC12 (zBC12):
http://www-03.ibm.com/systems/z/hardware/zenterprise/zbc12.html

This is a system running on 2 processors.

The dump was taken at 20:35:58h local time

Complete your session evaluations online at www.SHARE.org/Orlando-Eval
The VTAM Resource Definition Table Entries

- **IP VERBX VTAMMAP 'RDTSUM'**

### Command ==> IP VERBX VTAMMAP 'RDTSUM'

#### RDTSUM Analysis

<table>
<thead>
<tr>
<th>Resource</th>
<th>Address</th>
<th>Root Path</th>
<th>Resource Type</th>
<th>Resource Entry</th>
<th>State</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>$IPRET</td>
<td>1CC5DE80</td>
<td>RPRHDTYP 02</td>
<td>$IPRET</td>
<td>02</td>
<td>APPLICATION HDR</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RPRDAF 000000000000</td>
<td>RPRCURST 0505</td>
<td></td>
<td></td>
<td>ACTIV</td>
<td></td>
</tr>
<tr>
<td>IPRET101</td>
<td>1CC5DFB0</td>
<td>RPRHDTYP 02</td>
<td>IPRET101</td>
<td>55</td>
<td>APPL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RPRDAF 0000000100E2</td>
<td>RPRCURST 0200</td>
<td></td>
<td></td>
<td>CONCT</td>
<td></td>
</tr>
<tr>
<td>IPRET102</td>
<td>1CC5E0E0</td>
<td>RPRHDTYP 02</td>
<td>IPRET102</td>
<td>55</td>
<td>APPL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RPRDAF 0000000100E3</td>
<td>RPRCURST 0200</td>
<td></td>
<td></td>
<td>CONCT</td>
<td></td>
</tr>
<tr>
<td>IPRET103</td>
<td>1CC5E210</td>
<td>RPRHDTYP 02</td>
<td>IPRET103</td>
<td>55</td>
<td>APPL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RPRDAF 0000000100E4</td>
<td>RPRCURST 0200</td>
<td></td>
<td></td>
<td>CONCT</td>
<td></td>
</tr>
<tr>
<td>IPRET104</td>
<td>1CC5E340</td>
<td>RPRHDTYP 02</td>
<td>IPRET104</td>
<td>55</td>
<td>APPL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RPRDAF 0000000100E5</td>
<td>RPRCURST 0200</td>
<td></td>
<td></td>
<td>CONCT</td>
<td></td>
</tr>
<tr>
<td>IPRET601</td>
<td>1CC5E470</td>
<td>RPRHDTYP 02</td>
<td>IPRET601</td>
<td>55</td>
<td>APPL</td>
<td>PDELR</td>
</tr>
<tr>
<td></td>
<td>RPRDAF 0000000100E6</td>
<td>RPRCURST 010E</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The resource in question belongs to the $IPRET APPL majornode.
It's state is PDELR – Pending Delete Network Resource.
See z/OS Communications Server: IP and SNA codes:
- **Resource Status Codes:** [https://ibm.biz/BdENCf](https://ibm.biz/BdENCf)

Complete your session evaluations online at www.SHARE.org/Orlando-Eval
### The VTAM Session Information Blocks

**IP VERBX VTAMMAP 'FINDSIB'**

<table>
<thead>
<tr>
<th>SIB ADDR</th>
<th>FSMS</th>
<th>PLUNAME</th>
<th>SLUNAME</th>
<th>PLUNA</th>
<th>SLUNA</th>
<th>PCID</th>
</tr>
</thead>
<tbody>
<tr>
<td>1CD26910</td>
<td>FC00</td>
<td>IIMSTY</td>
<td>IPRETY02</td>
<td>0000000100DC</td>
<td>0000000100F5</td>
<td>FE978519CF8A6857</td>
</tr>
<tr>
<td>1CD26310</td>
<td>FC00</td>
<td>IIMSTY</td>
<td>IPRETY01</td>
<td>0000000100DC</td>
<td>0000000100F4</td>
<td>FE978519CF8A680C</td>
</tr>
<tr>
<td>1CD27F90</td>
<td>FC20</td>
<td>IIMST6</td>
<td>IPRET601</td>
<td>0000000100CE</td>
<td>0000000100E6</td>
<td>FE978519CF8A491C</td>
</tr>
<tr>
<td>1CC36490</td>
<td>FC00</td>
<td>IIMST6</td>
<td>IPRET602</td>
<td>0000000100CE</td>
<td>0000000100E7</td>
<td>FE978519CF8A491A</td>
</tr>
</tbody>
</table>

The Session Information Block SIB at 1CD27F90 contains information about the still existing session between IPRET601 and IIMST6.

IPRET601's FID4 address is: Subarea 1 Element 00E6

The PLU IIMST6's address is: Subarea 1 Element 00CE

---

Complete your session evaluations online at www.SHARE.org/Orlando-Eval
The VTAM Session Information Blocks

- IP VERBX VTAMMAP 'SIBCHECK sibaddr'

The SIB shows the session in Pending cleanup state. It is about to be terminated with a sense code of 80200007.

See z/OS Communications Server: IP and SNA codes:
- Session States and Modifiers: https://ibm.biz/BdENCm
- SNA Sense Codes: https://ibm.biz/BdENCG

Complete your session evaluations online at www.SHARE.org/Orlando-Eval
The VTAM Waiting Request Elements

- **IP VERBX VTAMMAP 'VTWRE DETAIL'**

### IPCS OUTPUT STREAM

**Command ==> ip verbx vtammap 'vtwre detail'**

```
----------------------------------------------------------------------------------
VTAMMAP input data
VTWRE DETAIL

VTWRE Analysis
```

<table>
<thead>
<tr>
<th>ATCIOLQB</th>
<th>WRE ADDR</th>
<th>RUPEADDR</th>
<th>CPCBOPC</th>
<th>URC</th>
<th>CODE</th>
<th>EVENT ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>1C924B90</td>
<td>00000000</td>
<td>0810602</td>
<td>IIMST6</td>
<td>0201</td>
<td>000000010001000000100CE02010810602</td>
<td></td>
</tr>
<tr>
<td>1C924190</td>
<td>1C81C3E8</td>
<td>0F320000</td>
<td>IPRET601</td>
<td>0202</td>
<td>0000000100CE000000100E602020F320000</td>
<td></td>
</tr>
<tr>
<td>1C924A10</td>
<td>00000000</td>
<td>0810629</td>
<td>IIMST6</td>
<td>0201</td>
<td>000000010001000000100CE02010810629</td>
<td></td>
</tr>
<tr>
<td>1C923010</td>
<td>1C81B620</td>
<td>00000000</td>
<td>IIMST6</td>
<td>0204</td>
<td>000000010001000000100E60204</td>
<td></td>
</tr>
<tr>
<td>1C924890</td>
<td>00000000</td>
<td>0C4102BF</td>
<td>IPRET601</td>
<td>0201</td>
<td>000000010001000000100002010C4102BF</td>
<td></td>
</tr>
</tbody>
</table>

See z/OS Communications Server: SNA Diagnosis Vol 1, Techniques and Procedures:
- **VTWRE:** [https://ibm.biz/BdENuW](https://ibm.biz/BdENuW)
- **CPCB Operation Codes:** [https://ibm.biz/BdENLX](https://ibm.biz/BdENLX)

Complete your session evaluations online at [www.SHARE.org/Orlando-Eval](http://www.SHARE.org/Orlando-Eval)
The VTAM Internal Trace

- **IP VERBX VTAMMAP 'VTVIT LIST(Y)'

Command ===> ip verbx vtammap 'vtvit list(Y)'

*****************************************************************
VTVIT Analysis

VTAM internal trace options active at the time of this dump

API PSS SMS PIU MSG SSCP CIO NRM

Pages in VTAM internal trace table (Decimal) = 1024

VIT - Start of VTAM internal trace table: 000001EF_82700000

VITC - Current VTAM internal trace table entry: 000001EF_82ACE740

VITO - Oldest VTAM internal trace table entry: 000001EF_82ACE760

VITE - End of VTAM internal trace table: 000001EF_82B00000

VTAM internal trace table (oldest to newest entry)

VITPAGE: 000001EF_82ACE760

+0000 D7C9E4F2 40404040 08C9C5D4 C9D4E2F2 ! PIU2 .IEMIMS2 !

See z/OS Communications Server: SNA Diagnosis Vol 2, FFST Dumps and the VIT:
- VIT Trace options: https://ibm.biz/BdXuAr

Complete your session evaluations online at www.SHARE.org/Orlando-Eval
The VTAM Internal Trace

- **IP VERBX VTAMMAP 'VTVIT LIST(Y)'**

<table>
<thead>
<tr>
<th>Command: ip verbx vtammap 'vtvit list(Y)'</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1C9F12C 6E220028 7F0DA980 7C00006A 00002400 10800000 10289450 80008012</td>
</tr>
<tr>
<td>C1C9F200 9C3C74C4 00000000 00000000 C9D7D9C5 E3F6F0F1 00000000 00000000</td>
</tr>
<tr>
<td>C1C9F300 00000000 00000000 00000000 00000000 00000000 00000000 00000000 40404040 40404040</td>
</tr>
<tr>
<td>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 30 Line</td>
</tr>
<tr>
<td>D7C9E440 42540000 1C81A1C8 40000000 00000000 000000001 00000001 1C0000CE</td>
</tr>
<tr>
<td>D7C9E4F2 00010100 00210B80 00810602 00200000 00151400 00000100 CE000000</td>
</tr>
<tr>
<td>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 138 Line</td>
</tr>
<tr>
<td>C3D7E6E3 42000000 1CD5C26C 00000000 1AEB42B8 0BA10000 D7E4C3C1 00000000</td>
</tr>
<tr>
<td>C3D7E6F2 9C638982 00000000 00000000 00000000 00000000 00000000 00000000 00000000</td>
</tr>
<tr>
<td>C3D7E6F3 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000</td>
</tr>
<tr>
<td>C3D7E6F4 00000012 C9D7D9C5 E3F6F0F1 C4C5C1C3 E3C9E5C1 E3C50000 00000000</td>
</tr>
<tr>
<td>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 33 Line</td>
</tr>
<tr>
<td>D7C9E440 42540000 1C81BE00 40000000 00000000 00000001 00000001 1C0000CE</td>
</tr>
<tr>
<td>D7C9E4F2 00010101 001F0B80 00810629 00000015 14000000 0100CE00 00000100</td>
</tr>
<tr>
<td>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 86 Line</td>
</tr>
<tr>
<td>D7C9E440 6E9918D9 1AFFA360 40000000 00000000 00000001 00000001 1D0000CE</td>
</tr>
<tr>
<td>D7C9E4F2 00E67504 00066B80 00320A00 00000000 00000000 00000000 00000000</td>
</tr>
<tr>
<td>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 3060 Line</td>
</tr>
<tr>
<td>5C5C5C5C 40C9E2E3 D5C1C3F0 F140D4D6 C4C57ED5 40404040 40404040 40404040</td>
</tr>
<tr>
<td>5C5C5C5C 40C4C9E2 C1C2D3C5 C440C6D6 D940E5E3 C1D461C6 C6E2E340</td>
</tr>
</tbody>
</table>

Complete your session evaluations online at www.SHARE.org/Orlando-Eval
Extracting the VTAM Internal Trace in Batch

• IP VERBX VTAMMAP 'VITAL DD(OUTVIT)'

```//IPCSXTRC EXEC PGM=IKJEFT01,DYNAMNBR=30
//STEPLIB DD DISP=SHR,DSN=&MIGLIB.
//IPCSDDIR DD DISP=SHR,DSN=&SYSUID..$2CIP.DDIR
//IPCSDDUMP DD *
//SYSTSPRT DD SYSOUT=* 
//SYSPRINT DD SYSOUT=*
//IPCSPRNT DD SYSOUT=*
//IPCSTOC DD SYSOUT=*
//SYSUDUMP DD SYSOUT=* 
//INDMP DD DSN=&INDMP.,DISP=SHR
//OUTVIT DD DSN=&OUTVT.,
//     DISP=(NEW,CATLG),
//     RECFM=VB,LRECL=27994,DSORG=PS,
//     UNIT=SYSDA,SPACE=(CYL,(500,100),RLSE)
//SYSTSIN DD *
PROFILE MSGID
    IPCS NOPARM
SETD PRINT NOTERM LENGTH(160000) NOCONFIRM
SETD FILE(INDMP)
DROPD
VERBX VTAMMAP 'VITAL DD(OUTVIT)'```
The VIT Analysis Tool – ISTRAFT1

- Requires an 'external' VIT

```//GESESYT3 JOB (7966,NCS),&SYSUID.,MSGLEVEL=(1,1),CLASS=A,
 //                     NOTIFY=&SYSUID.,MSGCLASS=K
 // SET INVIT='GESE.ORLANDO.NETDUMP.VIT'
 // SET MIGLIB='TOP.ZOSR1D.MIGLIB'
 //FILTER  EXEC PGM=ISTRAFT1,REGION=0M
 //STEPLIB  DD DISP=SHR,DSN=&MIGLIB.
 //SUMMARY  DD SYSOUT=*,DCB=(RECFM=V,LRECL=84)
 //DETAILS  DD SYSOUT=*,DCB=(RECFM=V,LRECL=84)
 //LOG      DD SYSOUT=*,DCB=(RECFM=V,LRECL=124)
 //OUTSTAN  DD SYSOUT=*,DCB=(RECFM=V,LRECL=124)
 //VITEXT   DD SYSOUT=*,DCB=(RECFM=V,LRECL=124)
 //*STARTIME(15:17:59.000)
 //*STOPTIME(15:18:59.000)
 //*ITEXT   DD DISP=SHR,DSN=GESE.VIT2GTF
 //TRACE    DD DISP=SHR,DSN=&INVIT
 //PARM      DD *
 VITEXT O'100E6' ! D'100CE' ! X'000100E6' ! X'000100CE' !
 VITEXT C'IPRET601' ! C'IIMST6' ! X'FE978519CF8A491C' !
 VITEXT CCO & C'OCC':12 ! C'IST804I'
 NOFORMAT
 WRAP```

See z/OS Communications Server: SNA Diagnosis Vol 1, Techniques and Procedures:
- Using the VIT Analysis Tool: https://ibm.biz/BdXuAY

Complete your session evaluations online at www.SHARE.org/Orlando-Eval
The VTAM Internal Trace Formatter ISTRAFT1

- ISTRAFT1 output

VTAM was waiting for 18 seconds before the Probe hit.

Complete your session evaluations online at www.SHARE.org/Orlando-Eval
The System Trace Table shows that both processors were 100% busy when the probe hit. Most CPU time was spent in TCB mode.
### The System Trace Table II.

- **IP SYSTRACE PERFDATA CPUTYPE(S)**

#### CPU breakdown by ASID:

<table>
<thead>
<tr>
<th>ASID</th>
<th>Jobname</th>
<th>SRB Time</th>
<th>TCB Time</th>
<th>Total Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>0085</td>
<td>DB22DBM1</td>
<td>0.101644</td>
<td>0.001649</td>
<td>0.103294</td>
</tr>
<tr>
<td>02BE</td>
<td>TSTXMR01</td>
<td>0.000000</td>
<td>0.319040</td>
<td>0.319040</td>
</tr>
<tr>
<td>0285</td>
<td>TSTVMR01</td>
<td>0.000000</td>
<td>0.318761</td>
<td>0.318761</td>
</tr>
</tbody>
</table>

#### TCB breakdown by ASID:

<table>
<thead>
<tr>
<th>ASID</th>
<th>Jobname</th>
<th>TCB Adr</th>
<th># of DSPs</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>0085</td>
<td>DB22DBM1</td>
<td>007A1E00</td>
<td>2</td>
<td>0.001649</td>
</tr>
<tr>
<td>02BE</td>
<td>TSTXMR01</td>
<td>007E3580</td>
<td>329</td>
<td>0.319040</td>
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<tr>
<td>0285</td>
<td>TSTVMR01</td>
<td>007E3590</td>
<td>318</td>
<td>0.318761</td>
</tr>
</tbody>
</table>
The ASCB – Dispatching Priorities and CPU Times

- IP SUMM FO JOBNAME(TSTXMR01,TSTVMR01,IMSTST6)
The WLM Settings

- **IP VERBX SRMDATA**

<table>
<thead>
<tr>
<th>JOB</th>
<th>IMSTST6</th>
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<tbody>
<tr>
<td>ASID</td>
<td>01F5</td>
</tr>
<tr>
<td>OUCB</td>
<td>025E7600</td>
</tr>
</tbody>
</table>

```
+11 (NSW) NONSWAPPABLE
+9C (TWSS) USER IS BEING MANAGED TO A PROTECTIVE PROCESSOR
STORAGE TARGET OF 00000058
(ASCBRSME) RAX ADDRESS IS 033611F0
SERVICE CLASS = ONDST1_S
WORKLOAD = STC_W
PERIOD = 01
```

<table>
<thead>
<tr>
<th>JOB</th>
<th>TSTVMR01</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASID</td>
<td>0285</td>
</tr>
<tr>
<td>OUCB</td>
<td>02B6F600</td>
</tr>
</tbody>
</table>

```
+11 (NSW) NONSWAPPABLE
+9C (TWSS) USER IS BEING MANAGED TO A PROTECTIVE PROCESSOR
STORAGE TARGET OF 000001C0
(ASCBRSME) RAX ADDRESS IS 03BAE1C8
SERVICE CLASS = ONDST3_S
WORKLOAD = STC_W
PERIOD = 01
ADDRESS SPACE IS BEING MANAGED AS A SERVER
```
The System Log

**IP VERBX MTRACE**

20:35:37.59 EZZ6035I TCPTELNB DEBUG CONN DETAIL 469

**IP..PORT:** 136.136.22.4..2195

**CONN:** 00032101 **LU:** IPRET601 **MOD:** EZBTTRCV

**RCODE:** 1001-01 *Client disconnected from the connection.*

**PARM1:** 00000000 **PARM2:** 00000000 **PARM3:** 00000000

20:35:37.59 EZZ6034I TCPTELNB CONN 00032101 LU IPRET601 SESS DROP CLNTDISC

**IP..PORT:** 136.136.22.4..2195

20:35:54.68 EZZ6034I TCPTELNB CONN 00033D12 LU **N/A** CONN DROP ERR 3003

**IP..PORT:** 136.136.22.4..2994 **EVBTPGLU**

So the TN3270 client couldn't connect due to its LU being “in use”.
Guess what the client will do?
See how to analyze a TN3270 High CPU problem in Session 17296
Thank You for attending this session!

Learn more about IPCS at the IPCS Network Debugging Workshop (ZONDE0DE) Info at IBM developerWorks https://ibm.biz/IPCS4Networkers

Your feedback is important:
This was session 17295 at SHARE in Orlando 2015

IBM SmartCloud: Georg Senfleben
georg_senfleben@de.ibm.com

Complete your session evaluations online at www.SHARE.org/Orlando-Eval