



IPCS for Networkers Gaining Insight from Gigabytes of VTAM Dump Data

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https://ibm.biz/GeSe_dW

Wednesday, August 12, 2015

08:30 AM – 09:30 AM

*Walt Disney World Dolphin Orlando, Asia 2
Session 17295*



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Big Data Analytics

A Dump of VTAM – z/OS V2R1 64bit



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 ...

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The Problem: CLOSEACB hang

VTAM dumping

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

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 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

The Status Information

- IP ST FAILDATA

Command ==> ip st faildata

Primary Symptom String:

PIDS/569511701 LVLS/1D0 PCSS

PCSS/TIMEOUT PCSS/CLOSE FLDS

Symptom	Symptom d
-----	-----
PIDS/569511701	569511701
LVLS/1D0	1D0
PCSS/ISTNAC01	ISTNAC01
FLDS/ACDUNTNM	ACDUNTNM
PCSS/FULL	FULL
RIDS/ISTNACTT	ISTNACTT
PCSS/TIMEOUT	TIMEOUT
PCSS/CLOSE	CLOSE
FLDS/PTRLUCB	PTRLUCB
ADRS/1AF90D58	1AF90D58
VALU/CIPRET601	IPRET601

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.**

Software statement

Data field name

Software statement

Routine identifier

Software statement

Software statement

Data field name

Storage address

Error related character value

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

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

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The VTAM Resource Definition Table Entries

- IP VERBX VTAMMAP 'RDTSUM'

Command ==> IP VERBX VTAMMAP 'RDTSUM'

RDTSUM Analysis

\$IPRET	ADDRESS	1CC5DE80	RPRHDTYP	02	RPRENTRY	02	APPLICATION	HDR
	RPRDAF	000000000000	RPRCURST	0505			ACTIV	
IPRET101	ADDRESS	1CC5DFB0	RPRHDTYP	02	RPRENTRY	55	APPL	
	RPRDAF	0000000100E2	RPRCURST	0200			CONCT	
IPRET102	ADDRESS	1CC5E0E0	RPRHDTYP	02	RPRENTRY	55	APPL	
	RPRDAF	0000000100E3	RPRCURST	0200			CONCT	
IPRET103	ADDRESS	1CC5E210	RPRHDTYP	02	RPRENTRY	55	APPL	
	RPRDAF	0000000100E4	RPRCURST	0200			CONCT	
IPRET104	ADDRESS	1CC5E340	RPRHDTYP	02	RPRENTRY	55	APPL	
	RPRDAF	0000000100E5	RPRCURST	0200			CONCT	
IPRET601	ADDRESS	1CC5E470	RPRHDTYP	02	RPRENTRY	55	APPL	
	RPRDAF	0000000100E6	RPRCURST	010E			PDELR	

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>

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The VTAM Session Information Blocks

- IP VERBX VTAMMAP 'FINDSIB'

FINDSIB Analysis							
SIB	ADDR	FSMS	PLUNAME	SLUNAME	PLUNA	SLUNA	PCID

1CD26910	FC00	IIMSTY	IPRETY02	0000000100DC	0000000100F5	FE978519CF8A6857	
1CD26310	FC00	IIMSTY	IPRETY01	0000000100DC	0000000100F4	FE978519CF8A680C	
- - - - -							
1CD27F90	FC20	IIMST6	IPRET601	0000000100CE	0000000100E6	FE978519CF8A491C	
1CC36490	FC00	IIMST6	IPRET602	0000000100CE	0000000100E7	FE978519CF8A491A	

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

The VTAM Session Information Blocks

- IP VERBX VTAMMAP 'SIBCHECK sibaddr'

```
Command ==> ip verbx vtammap 'sibcheck 1CD27F90'
                  SIB address: 1CD27F90

      OLU!SLU                                DLU!PLU
Name (from RDTE): IPRET601                Name (from RDTE): IIMST6
RDTE address: 1CC5E470                      RDTE address: 1CC5C7F0
RDTE type: APPL                             RDTE type: APPL
Network address: 00000001 00E6            Network address: 00000001 00CE
SIBFSMIN: FC = SIBIFSAC - Session Active
SIBFSMTM: 20 = SIBTFSCCL - Pending CLEANUP response
                        Analyze SIB Base
                        Failing sense code (SIBFSENS): 80200007
                        Original PCID (SIBPCID): FE978519CF8A491C
                        Timestamp from SIB (SIBBTIME): CE73EEC5F07C7C11
                        Converted timestamp (SIBBTIME): 02/03/15 12:59:20.167367
```

- 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'
***** TOP OF DATA
VTAMMAP input data
VTWRE DETAIL

                        VTWRE Analysis
ATCIOLQB
WRE ADDR RUPEADDR CPCBOPC   URC   CODE   EVENT ID
-----
1C924B90 00000000 08810602 IIMST6 0201 00000001000100000000100CE020108810602
1C924190 1C81C3E8 0F320000 IPRET601 0202 0000000100CE00000000100E602020F320000
1C924A10 00000000 08810629 IIMST6 0201 00000001000100000000100CE020108810629
1C923010 1C81B620 00000000 IIMST6 0204 0000000100CE00000000100E60204
1C924890 00000000 0C4102BF IPRET601 0201 000000010001000000001000002010C4102BF
```

See z/OS Communications Server: SNA Diagnosis Vol 1, Techniques and Procedures:

- VTWRE: <https://ibm.biz/BdENuW>
- CPCB Operation Codes: <https://ibm.biz/BdENLX>

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The VTAM Internal Trace

- IP VERBX VTAMMAP 'VTVIT LIST(Y)'

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

```
***** TOP OF
```

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)'

```

Command ==> ip verbx vtammap 'vtvit list(Y)'
C1C9F12C 6E220028 7F0DA980 7C00006A 00002400 10800000 10289450 80008012 ! AI1.>...".z.S.....m&...
C1C9F200 9C3C74C4 00000000 00000000 C9D7D9C5 E3F6F0F1 00000000 00000000 ! AI2....D.....IPRET601.....
C1C9F300 00000000 00000000 00000000 00000000 00000000 40404040 40404040 ! AI3.....
- - - - - 30 Line
D7C9E440 42540000 1C81A1C8 40000000 00000000 00000001 00000001 1C0000CE ! PIU .....aBH .....
D7C9E4F2 00010100 00210B80 00810602 00200000 00151400 00000100 CE000000 ! PIU2.....a.....
- - - - - 138 Line
C3D7E6E3 42000000 1CD5C26C 00000000 1AEB42B8 0BA10000 D7E4C3C1 00000000 ! CPWT.....NB%.....ß..PUCA...
C3D7E6F2 9C638982 00000000 00000000 00000000 00000000 00000000 00000000 ! CPW2..ib.....
C3D7E6F3 00000000 00000000 00000000 00000000 00000000 00000000 00000000 ! CPW3.....
C3D7E6F4 00000012 C9D7D9C5 E3F6F0F1 C4C5C1C3 E3C9E5C1 E3C50000 00000000 ! CPW4....IPRET601DEACTIVATE....
- - - - - 33 Line
D7C9E440 42540000 1C819BE0 40000000 00000000 00000001 00000001 1C0000CE ! PIU .....a.ö .....
D7C9E4F2 00010101 001F0B80 00810629 0000C015 14000000 0100CE00 00000100 ! PIU2.....a....ä.....
- - - - - 86 Line
D7C9E440 6E9918D9 1AFFA360 40000000 00000000 00000001 00000001 1D0000CE ! PIU >r.R..t- .....
D7C9E4F2 00E67504 00066B80 00320A00 00000000 00000000 00000000 00000000 ! PIU2.W....,.....
- - - - - 3060 Line
5C5C5C5C 40C9E2E3 D5C1C3F0 F140D4D6 C4C57ED5 40404040 40404040 40404040 ! *** ISTNAC01 MODE=N
5C5C5C5C 40E5C9E3 40C4C9E2 C1C2D3C5 C440C6D6 D940E5E3 C1D461C6 C6E2E340 ! *** VIT DISABLED FOR VTAM/FFST
    
```

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
//IPCSDUMP 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

```
VIT entry comment at 20:35:55.551 LOC (record 114,706)
5C5C5C5C 40C9E2E3 D5C1C3F0 F140D4D6 C4C57ED5 40404040 40404040 40404040 ***** ISTRAC01 MODE=N *
VIT entry comment at 20:35:55.558 LOC (record 114,707)
5C5C5C5C 40E5C9E3 40C4C9E2 C1C2D3C5 C440C6D6 D940E5E3 C1D461C6 C6E2E340 ***** VIT DISABLED FOR VTAM/FFST *
20:35:37.552 C1C9F12C 6E220028 7F0DA980 7C00006A 00002400 10800000 10289450 80008012 *AI1.>...".z.$.....m&....
20:35:37.552 C1C9F200 9C3C74C4 00000000 00000000 C9D7D9C5 E3F6F0F1 00000000 00000000 *AI2....D.....IPRET601.....
20:35:37.556 D7C9E440 42540000 1C81B620 40000000 00000000 00000001 00000001 1C000001 *PIU .....a.....
20:35:37.556 D7C9E4F2 00E60004 001C0B80 00810682 10000000 00150C00 00000100 CE000000 *PIU2.W.....a.b.....
20:35:37.556 D7C9E4F2 0100E600 00000000 00000000 00000000 00000000 00000000 00000000 *PIU2..W.....
20:35:37.560 C3D6F100 4254FC40 1C82D958 E2E2E4D7 9C595022 00000001 00010000 000100CE *CO1.... .br.SSUP...&.....
20:35:37.560 C3D6F254 81060200 20000000 15140000 000100CE 00000001 00E6C9C3 00000000 *CO2.a.....WIC....
20:35:37.560 C3D6F300 1CD27F90 FE978519 CF8A491C C9C9D4E2 E3F64040 C9D7D9C5 E3F6F0F1 *CO3..K"..pe.....IIMST6 IPRET601
20:35:37.562 D7C9E440 42540000 1C81A1C8 40000000 00000000 00000001 00000001 1C0000CE *PIU .....a H .....
20:35:37.562 D7C9E4F2 00010100 00210B80 00810602 00200000 00151400 00000100 CE000000 *PIU2.....a.....
20:35:37.562 D7C9E4F2 0100E6C9 C3C2C340 40404000 00000000 00000000 00000000 00000000 *PIU2..WABCD .....
20:35:37.574 D7C9E440 42990CD6 1B2B2C50 40000000 00000000 00000001 00000001 1D0000E6 *PIU .r.O...& .....W
20:35:37.574 D7C9E4F2 00CE7502 002F6B80 00FF3240 10090000 00000000 00000000 1C320100 *PIU2.....,.....
20:35:37.574 D7C9E4F2 00000060 14FE9785 19CF8A49 1C0BC9C3 C2C34BC9 C3C4D9D4 F4000000 *PIU2...-..pe.....ABCD.ICDRM4...
20:35:37.596 C3D7E6E3 42000000 1CD5C26C 00000000 1AEB42B8 0BA10000 D7E4C3C1 00000000 *CPWT.....NB%.....PUCA....
20:35:37.596 C3D7E6F2 9C638982 00000000 00000000 00000000 00000000 00000000 00000000 *CPW2..ib.....
20:35:37.596 C3D7E6F3 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *CPW3.....
20:35:37.596 C3D7E6F4 00000012 C9D7D9C5 E3F6F0F1 C4C5C1C3 E3C9E5C1 E3C50000 00000000 *CPW4....IPRET601DEACTIVATE.....
```

VTAM was waiting for 18 seconds before the Probe hit.

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The System Trace Table

- IP SYSTRACE PERFDATA CPUTYPE(S)

No address spaces with the ERROR attribute were found

Note: Only SYSTRACE records available for ALL PROCESSORS are considered.
PERFDATA Analysis:

CPU#	Went from	To	Seconds	SRB Time	TCB Time	Idle Time
00	04:35:55.187214	04:35:55.639467	0.452253	0.127814	0.293002	0.000000
01	04:35:55.187712	04:35:55.639511	0.451799	0.060168	0.375002	0.000000
			0.904053	0.187983	0.668005	0.000000
SRB time : 0.187983						
TCB time : 0.668005						
Idle time : 0.000000						
CPU Overhead : 0.058820						

Total : 0.904053						

The System Trace Table shows that both processors were 100% busy when the probe hit.
Most CPU time was spent in TCB mode

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The System Trace Table II.

- IP SYSTRACE PERFDATA CPUTYPE(S)

CPU breakdown by ASID:

ASID	Jobname	SRB Time	TCB Time	Total Time
----	-----	-----	-----	-----
0085	DB22DBM1	0.101644	0.001649	0.103294
02BE	TSTXMR01	0.000000	0.319040	0.319040
0285	TSTVMR01	0.000000	0.318761	0.318761

TCB breakdown by ASID:

ASID	Jobname	TCB Adr	# of DSPs	Time
----	-----	-----	-----	-----
0085	DB22DBM1	007A1E00	2	0.001649

ASID	Jobname	TCB Adr	# of DSPs	Time
----	-----	-----	-----	-----
02BE	TSTXMR01	007E3580	329	0.319040

ASID	Jobname	TCB Adr	# of DSPs	Time
----	-----	-----	-----	-----
0285	TSTVMR01	007E3590	318	0.318761

The ASCB – Dispatching Priorities and CPU Times

- IP SUMM FO JOBNAME(TSTXMR01,TSTVMR01,IMSTST6)

```

JOB IMSTST6
  SELECTED BY: JOBNAME
+002A  DPH..... 00F2      TCBE..... 00000000  LDA..... 7FF16E10
+0040  EJST..... 00000016  EF04A074
+00C8  SRBT..... 00000006  320493EA      LTCB..... 00000000
+0130  INTS..... CE73B2D6  D8865D11      LL1..... 00

JOB TSTVMR01
  SELECTED BY: JOBNAME
+002A  DPH..... 00F4      TCBE..... 00000000  LDA..... 7FF16E10
+0040  EJST..... 0000054A  C49D59AA
+00C8  SRBT..... 00000000  015352A8      LTCB..... 00000000
+0130  INTS..... CE74B87D  CB9AF311      LL1..... 00

JOB TSTXMR01
  SELECTED BY: JOBNAME
+002A  DPH..... 00F4      TCBE..... 00000000  LDA..... 7FF16E10
+0040  EJST..... 00000109  45699A7C
+00C8  SRBT..... 00000000  01ACCF40      LTCB..... 00000000
+0130  INTS..... CE74B880  6442A710      LL1..... 00
  
```

The WLM Settings

- IP VERBX SRMDATA

```
JOB    IMSTST6
ASID   01F5
OUCB   025E7600 IN      QUEUE
                +11 (NSW) NONSWAPPABLE
                +9C (TWSS) USER IS BEING MANAGED TO A PROTECTIVE PROCESSOR
                        STORAGE TARGET OF 0000058
                (ASCBRSME) RAX ADDRESS IS 033611F0
                        SERVICE CLASS = ONDST1_S
                        WORKLOAD = STC_W
                        PERIOD = 01
```

```
JOB    TSTVMR01
ASID   0285
OUCB   02B6F600 IN      QUEUE
                +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                                EZBTPLU
```

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

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