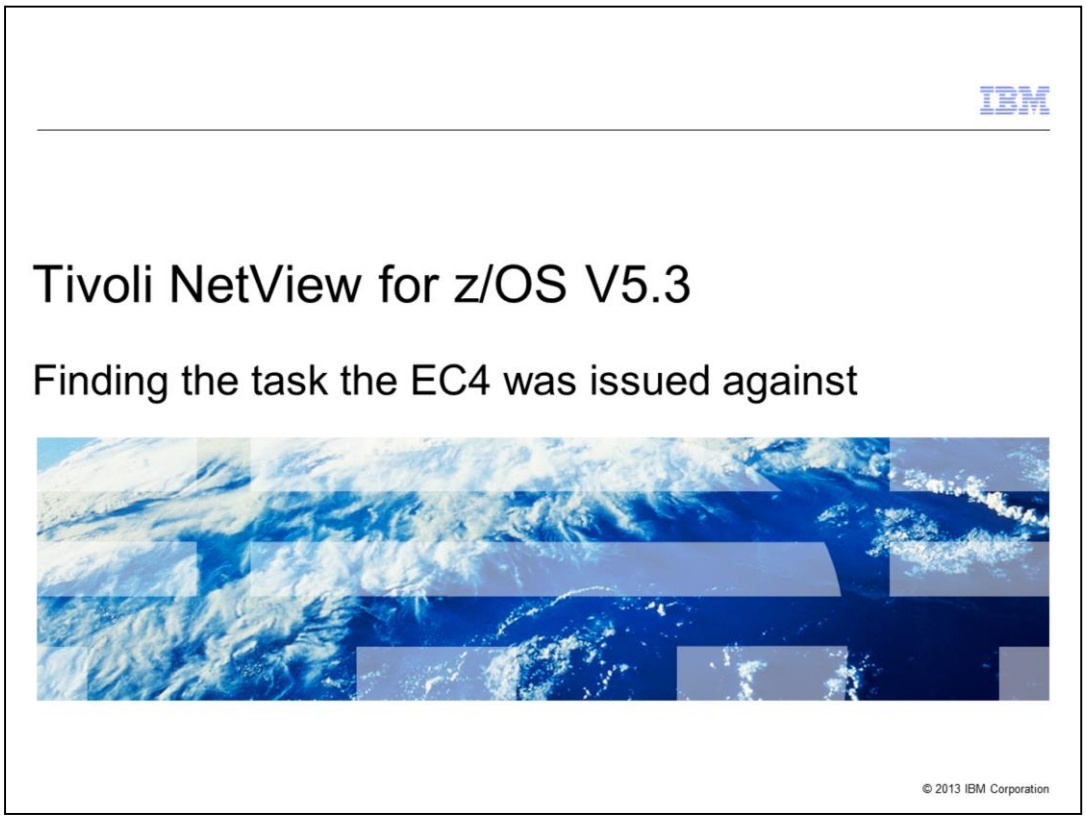
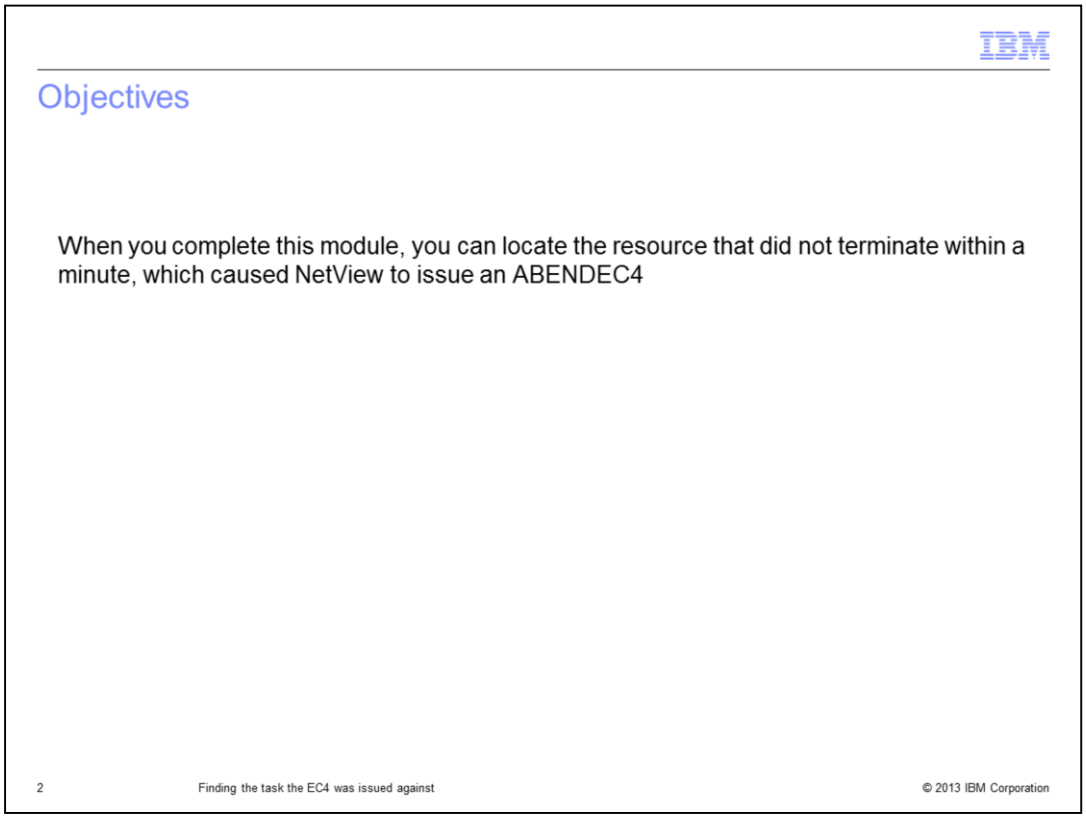


Tivoli® NetView® for z/OS® V5.3, Finding the task the EC4 was issued against.

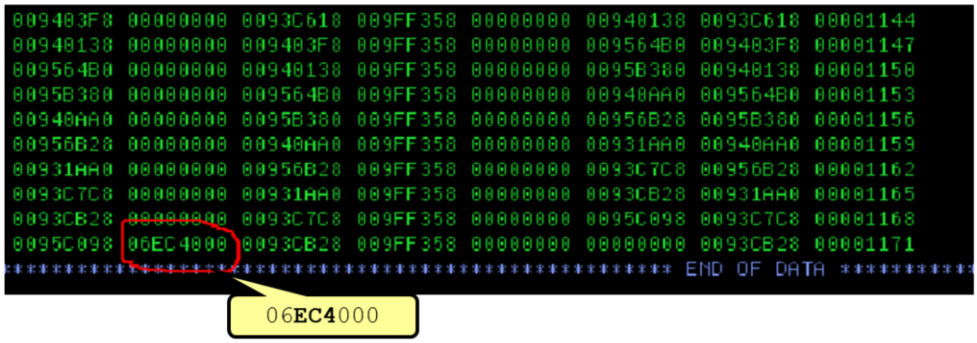
This module is about finding the resource that did not terminate within a minute and caused NetView to issue an ABENDEC4. It is for a single EC4 abend. The process does not work if there are multiple EC4 abends.



When you complete this module, you can locate the resource that did not terminate within a minute, which caused NetView to issue an ABENDEC4.

EC4 problem determination (1 of 2)

- Run the command **IP SUMM FORMAT** in the dump
- Max to the bottom
- Look for the **TCB** that shows an **EC4** abend



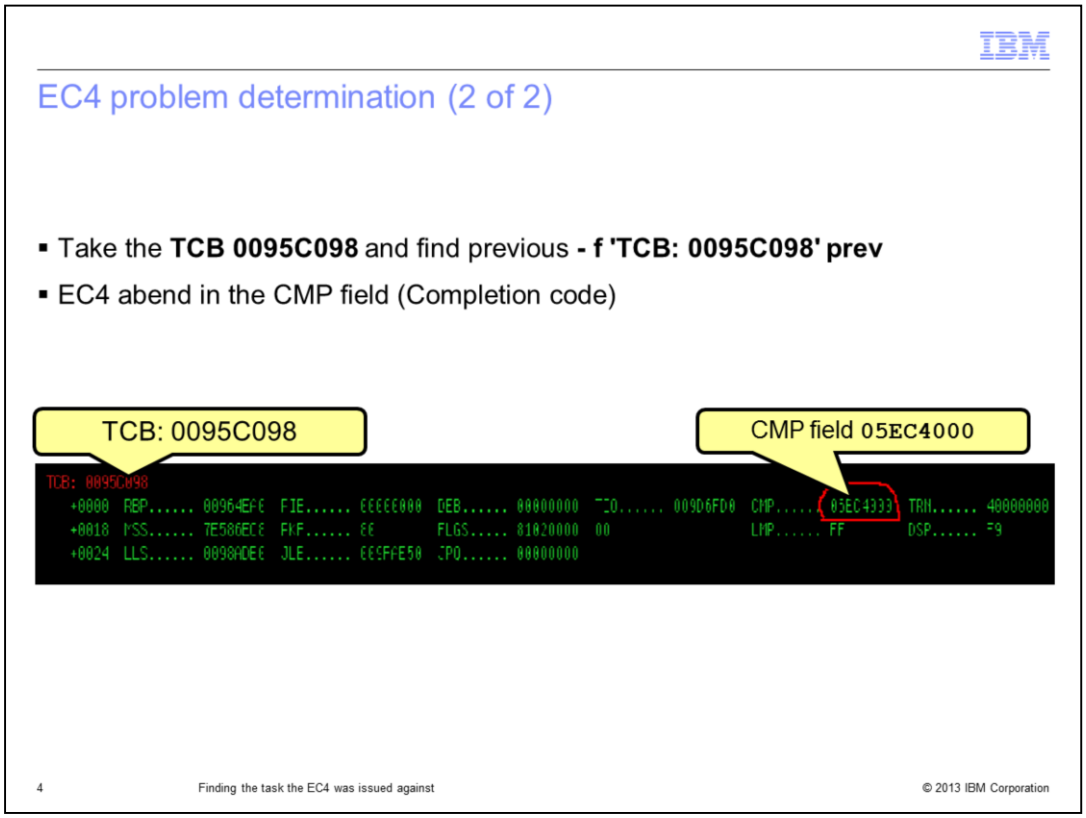
To start, run the issuing command **IP SUMM FORMAT** in the dump. Max to the bottom and start looking for the TCB that shows an **EC4 abend**.

An example of this JCL can be found in the *Tivoli Information Management for z/OS Planning and Install Guide* GC31-8751-00.

The **&SYSUID** symbol resolves to the submitting user ID.

Include any user-specific libraries in the relative DD statements.

The **SYSTSIN** is an example of running a **Search**; then the **Quit** command to exit InfoMan.

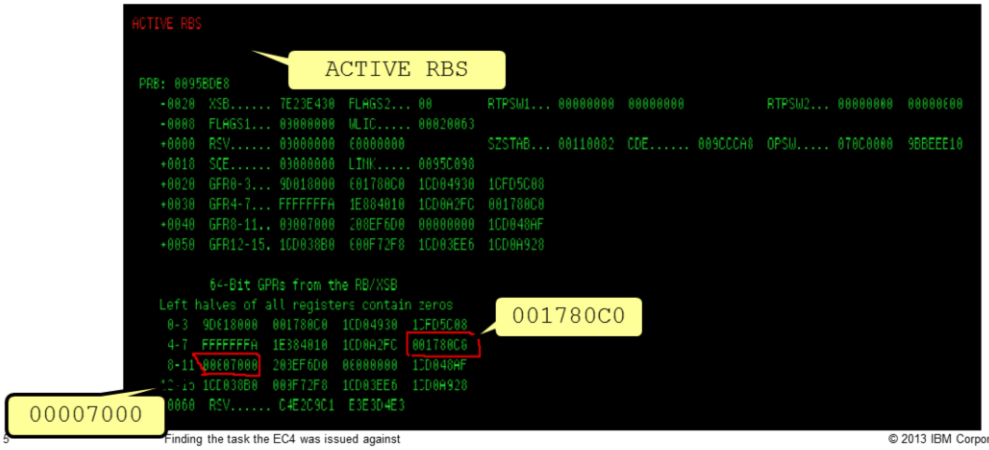


Run the **ISPSTART** command to invoke the **BLGINIT** program to initialize your InfoMan session that the batch job uses to log on to InfoMan and perform the task.

For more information, see *Tivoli Information Management for z/OS Planning and Install Guide* GC31-8751-00.

Correlating the TCB to a TVB

- Locate ACTIVE RBS
- Correlate the TCB to a TVB
- Look at the location in storage



5 Finding the task the EC4 was issued against © 2013 IBM Corporation

In the output, scroll forward until you locate **ACTIVE RBS**.

You need to correlate the TCB to a TVB.

Look for low storage address, below 16m line. In this example, choose **001780C0** which might be the TVB address because it is the smallest address.

Address **00007000** is in MVS storage and points to the MVT. You can tell by looking at the location in storage. You can see that the first two bytes are F1, which indicate the MVT.

Locating the address to the dump

- Cut the address **001780C0** and locate it in the dump
- View these findings:
  - The **F2** in the first two positions indicates this address is a **TVB**
  - A VOST was involved, **DSI#2082**

6 Finding the task the EC4 was issued against

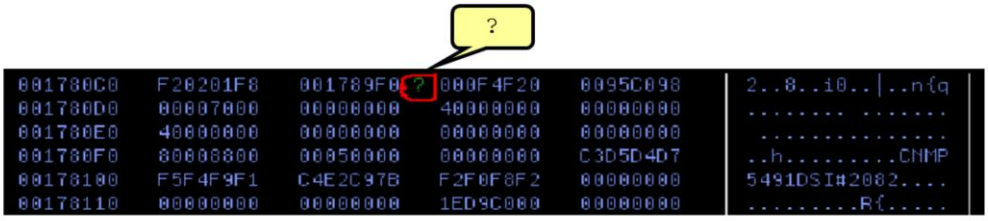
Cut the address **001780C0**, and locate it in the dump. The dump shows you two things.

First, the **F2** in the first two positions indicates this address is a **TVB**.

Second, in the right part of the image, you see that a VOST was involved, **DSI#2082**. The (#) in the name indicates that the item is a VOST.

Locating the LRCE chain

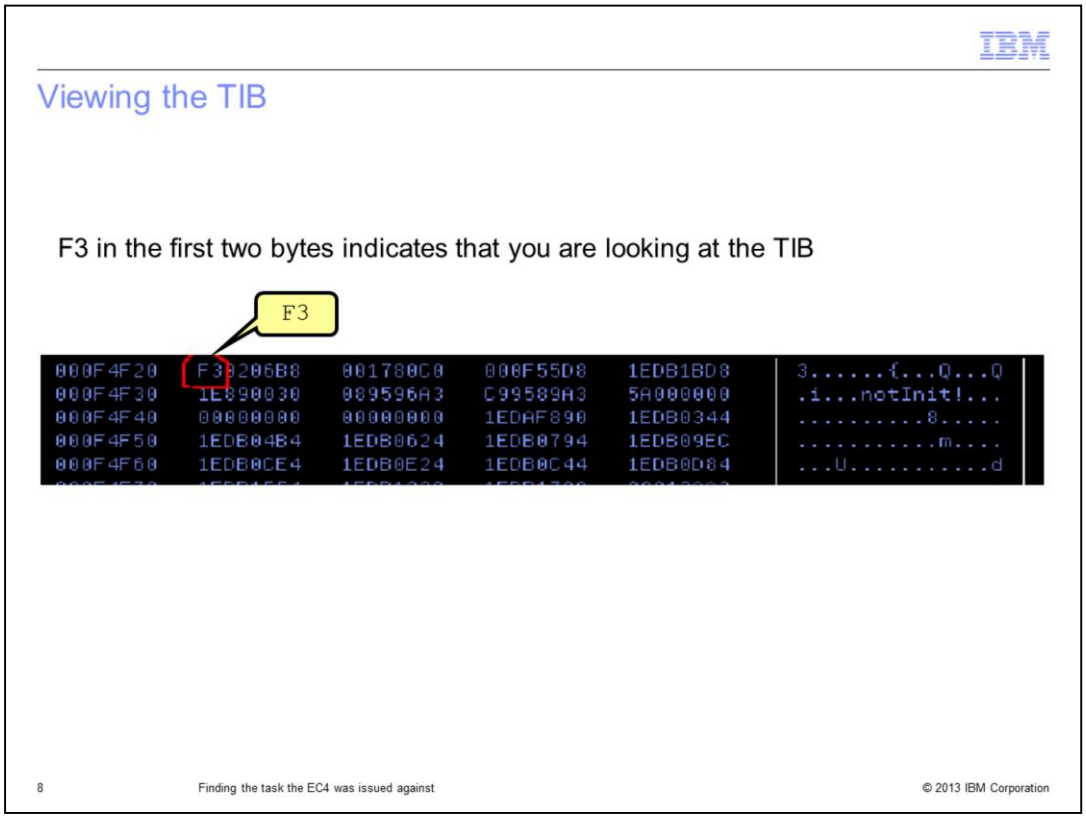
- Look for the LRCE chain to see what command the VOST issued
- To do this, start by going to the TVB +8 to get to the TIB



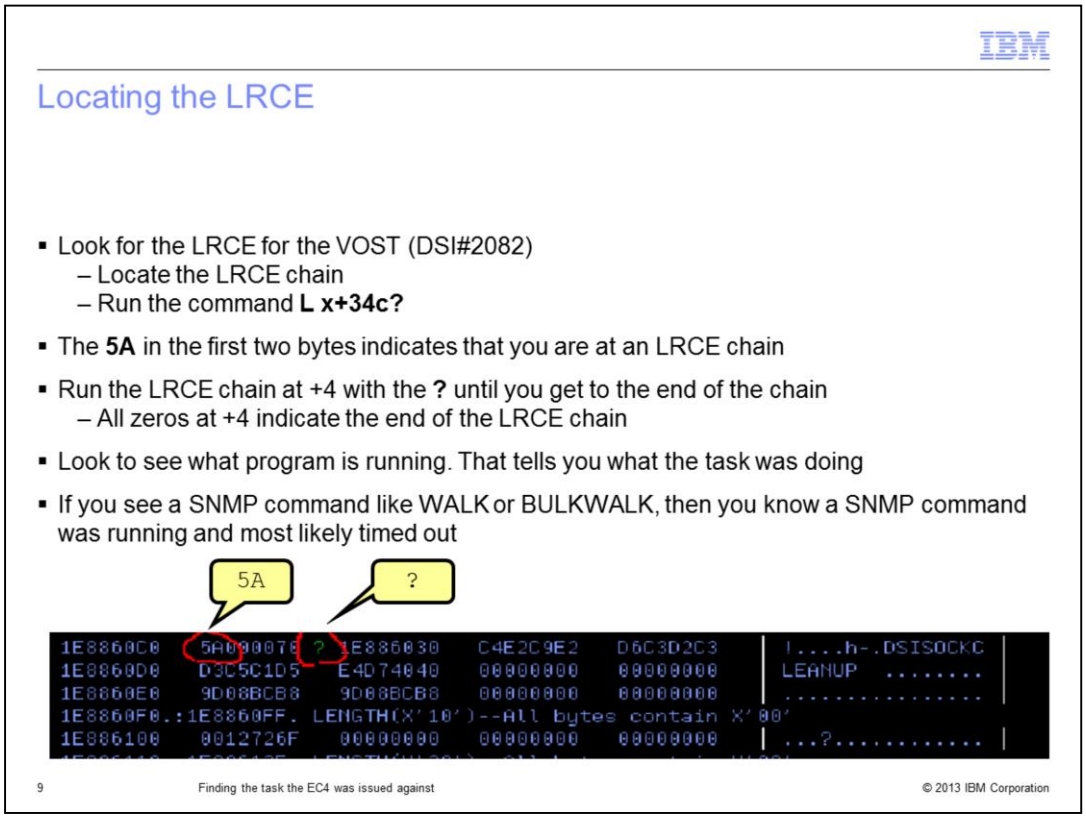
7 Finding the task the EC4 was issued against

Look for the LRCE chain to see what command the VOST issued.

To start the process, go to the TVB +8 to get to the TIB.



The F3 in the first two bytes indicates that you are looking at the TIB.



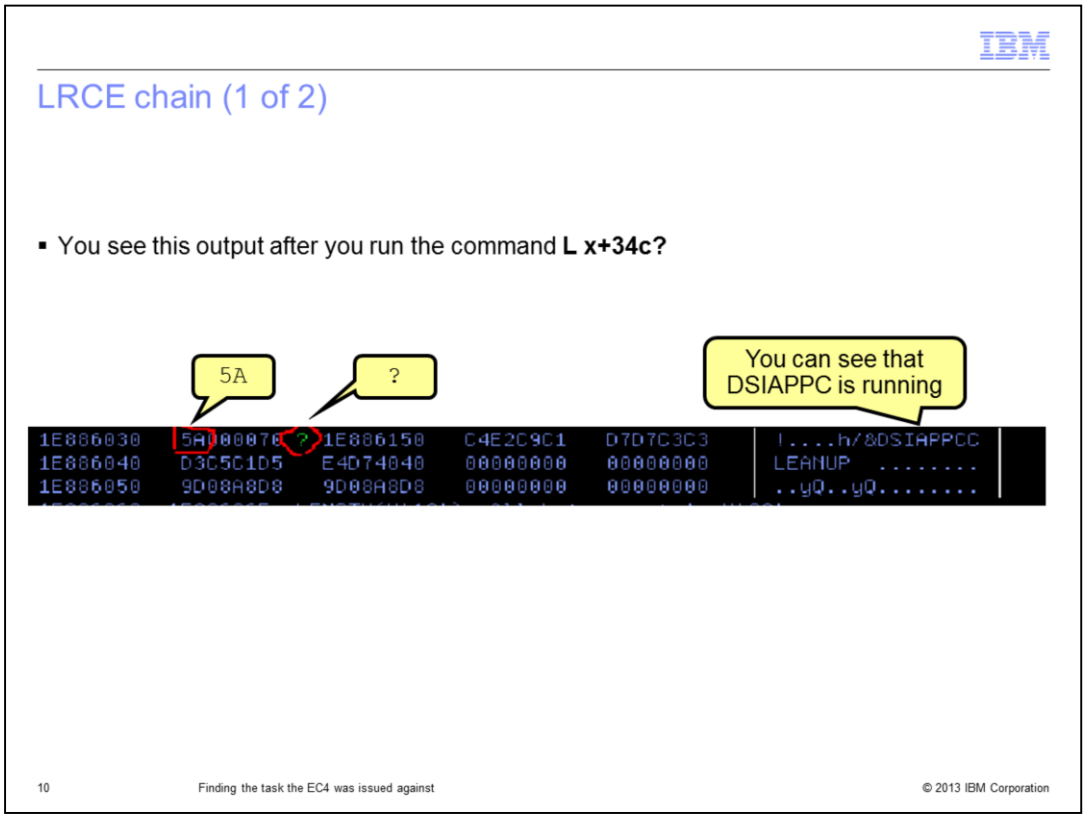
Now that you are at the TIB, you can start to look for the LRCE for the VOST (DSI#2082). To get to the LRCE chain, run the command **L x+34c?**.

You know that you are at an LRCE chain because of the **5A** in the first two bytes.

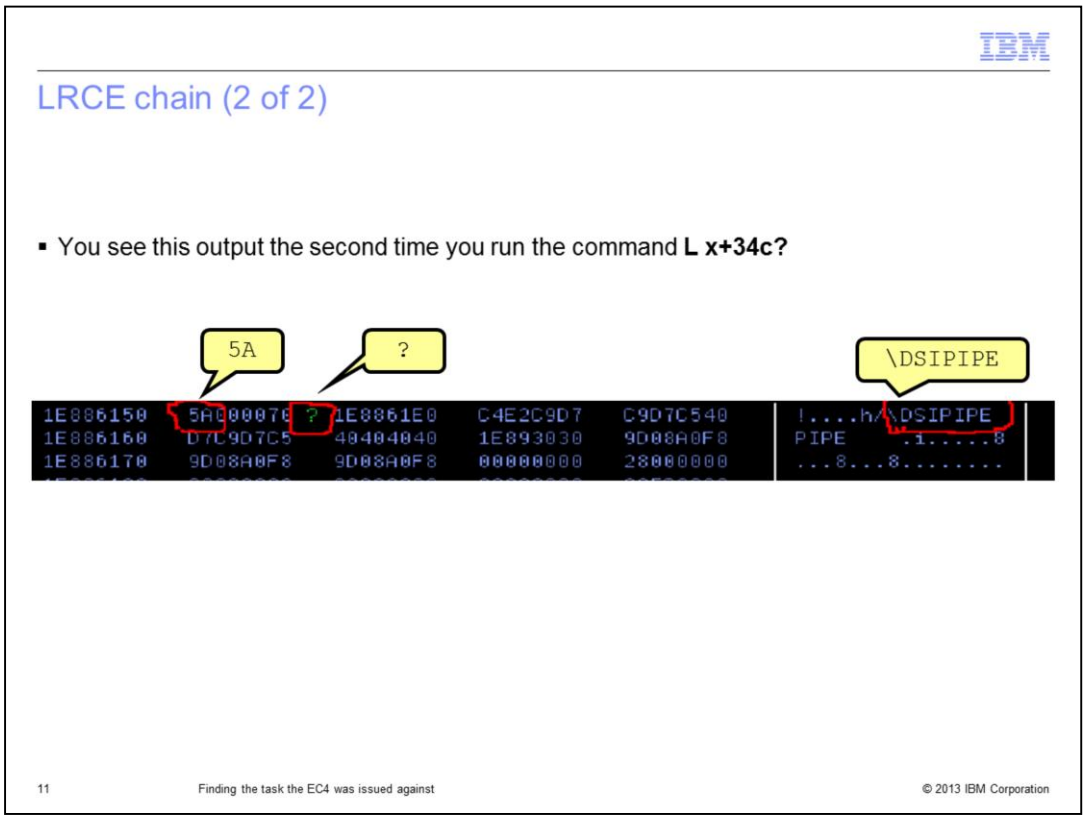
Next, you run the LRCE chain at +4 with the **?** until you get to the end of the chain. When you see all zeros at +4, you know that you are at the end of the LRCE chain.

Look to see what program is running, which tells you what the task was doing. If you see an SNMP command like WALK or BULKWALK, then you know that an SNMP command was running, and most likely timed out.

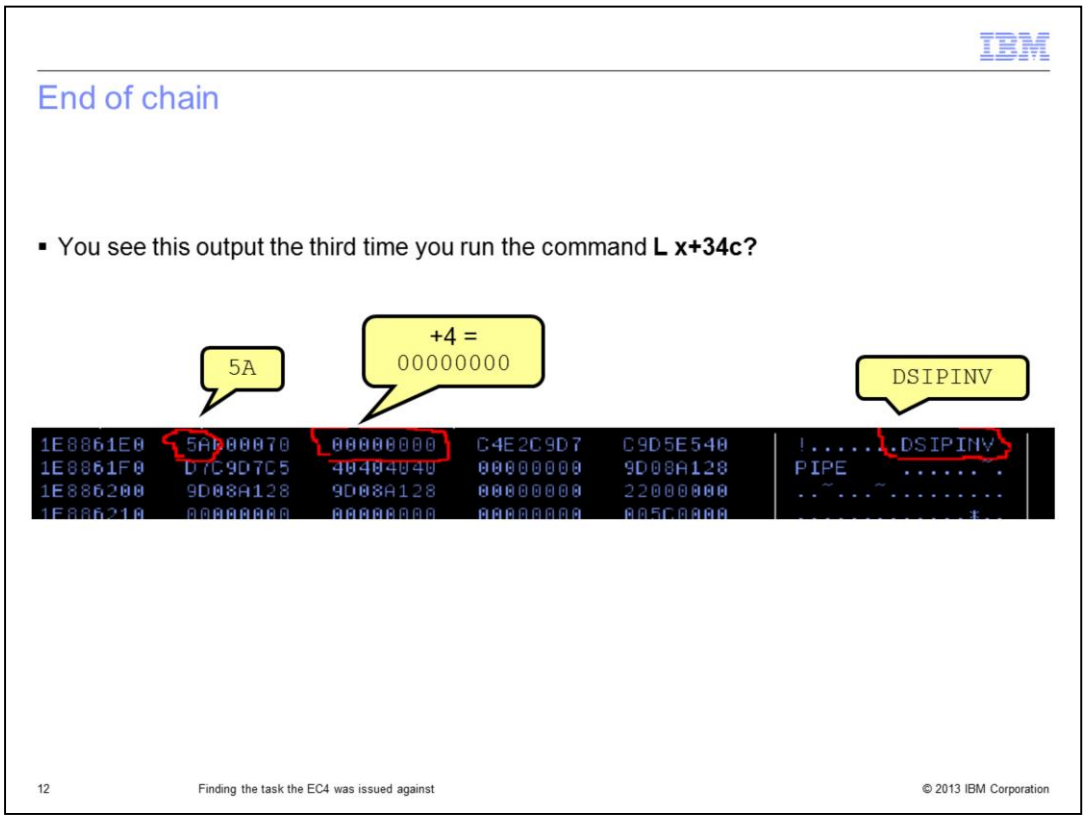
The next few slides take you through the process of searching for all zeros at +4.



After you run the command once, you generate the output that is shown here. You can see that you are still in an LRCE chain because the first two bytes are **5A**, and not at the end of the chain yet because **+4** is not zeros. You can see that **DSIAPPC** is running. Run the command again and keep looking.

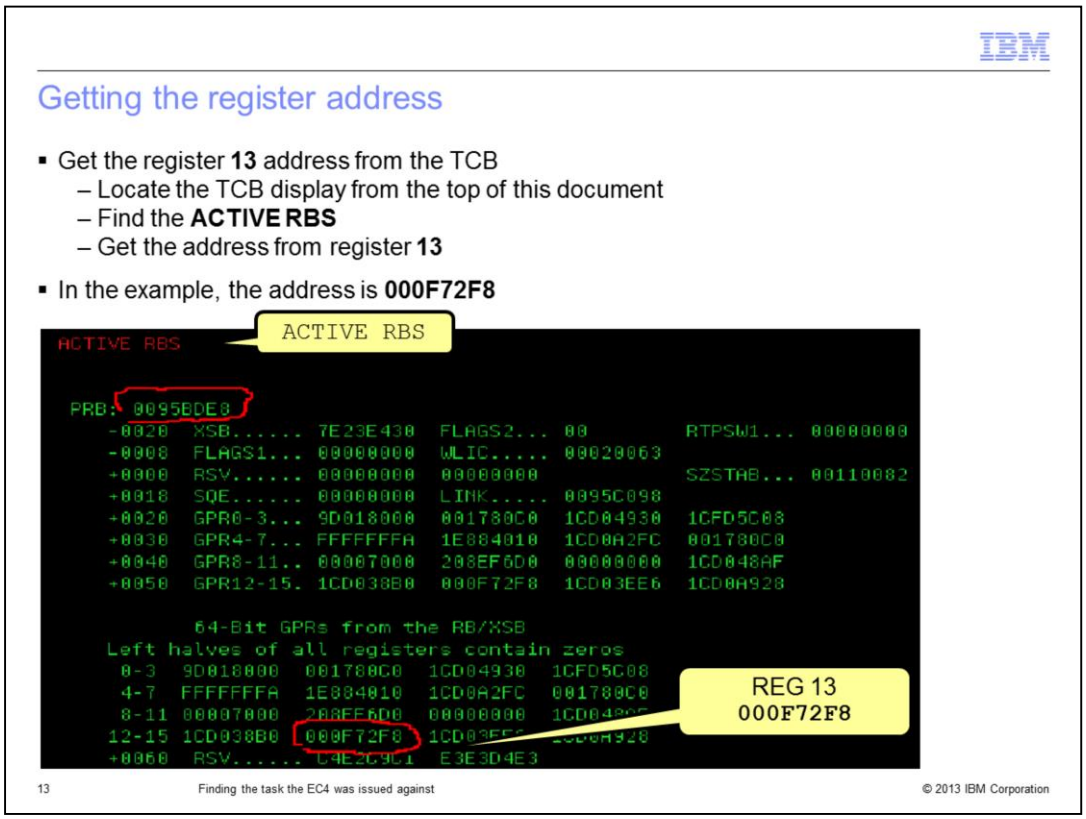


After you run the command a second time, you can see that first two bytes are **5A** and +4 is not zeros. You know that you are still in the LRCE chain. There is still more in the chain. You can see that DSIPIPE is running, which means the task was running a PIPE.



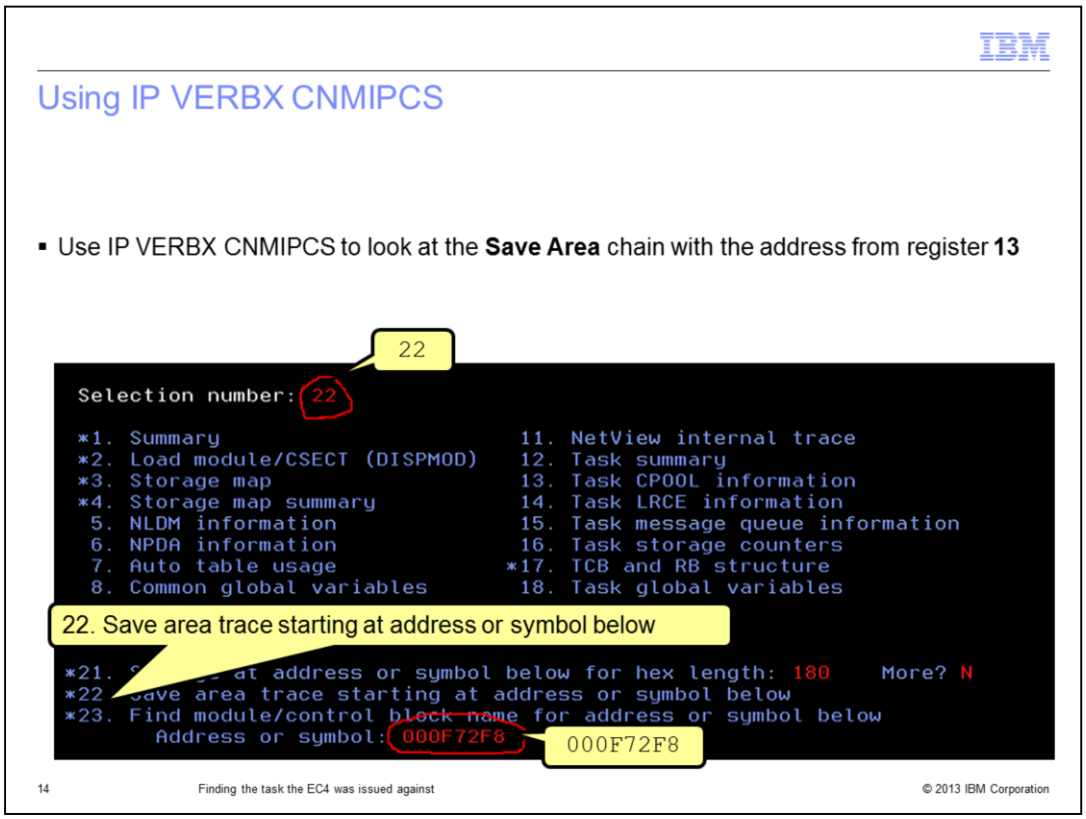
When the third command is completed, you can see you are still in the LRCE chain because the first two bytes are **5A**. Because +4 is all zeros, you know that you are at the end of the chain. You can see DSIPINV is running.

Because you are at the end of the chain, you need to look at the save area pointed to by REG 13 in the TCB with IP VERBX CNMIPCS.



To get the register 13 address from the TCB, scroll up the TCB display from the top of this document and find the **ACTIVE RBS** as shown near the upper part of the image.

In the lower part of the image, you can see the row with registers 12 through 15. Identify the address from register 13. In this example, it is **000F72F8**.



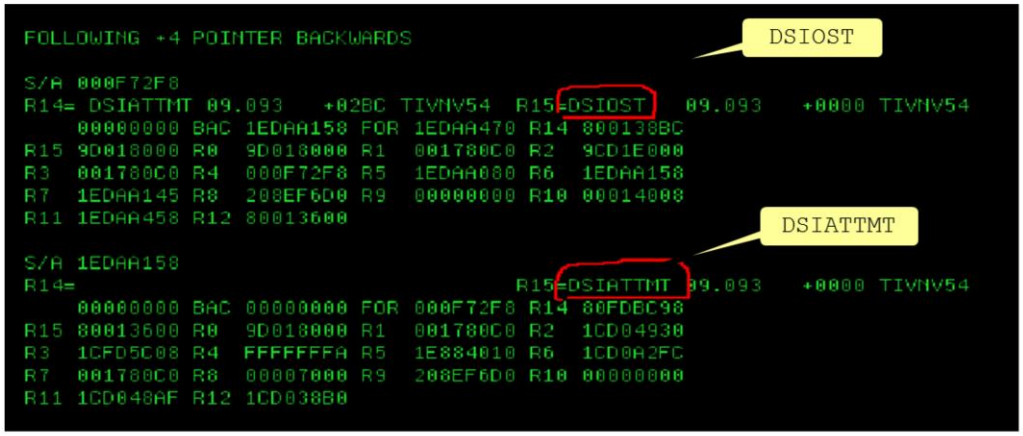
Use IP VERBX CNMIPCS to look at the **Save Area** chain with the address from register 13.

See the selection **22. Save area trace starting at address or symbol below** and the address selected, **000F72F8**.

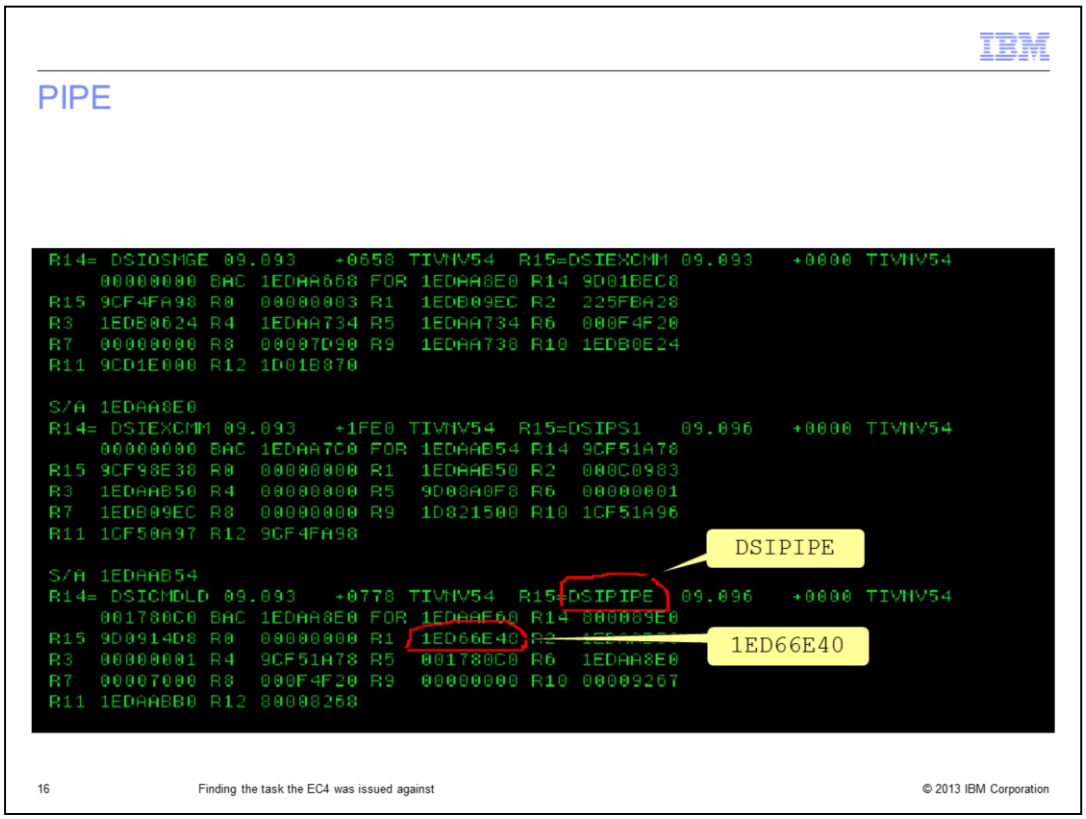
IBM

Save Area chain

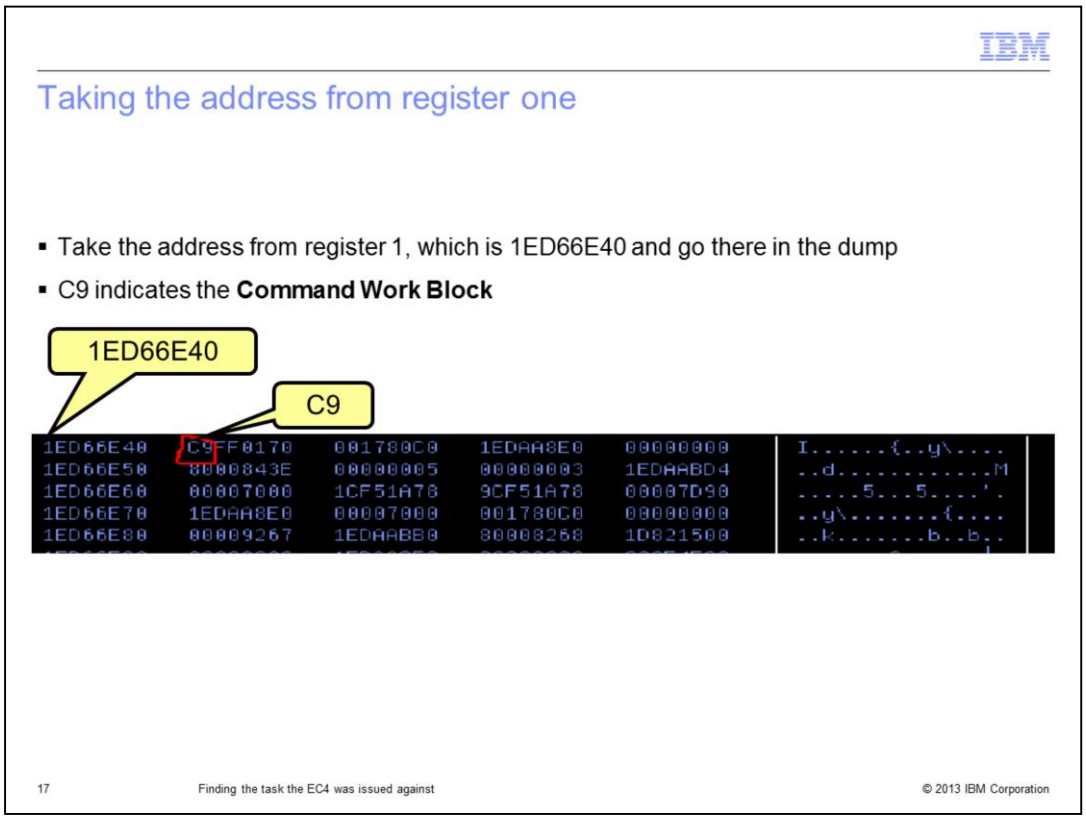
- Save Area chain



Here you see the Save Area chain. Look at the program names until you see a PIPE running. You look for a PIPE because DSIPIPE is in the LRCE chain. Scroll through the list.



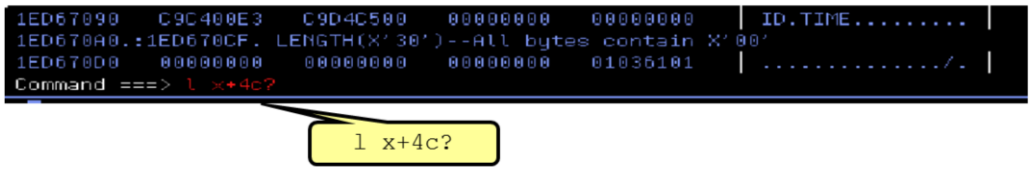
Finally, you can see the PIPE in the output and can identify the register 1ED66E40.



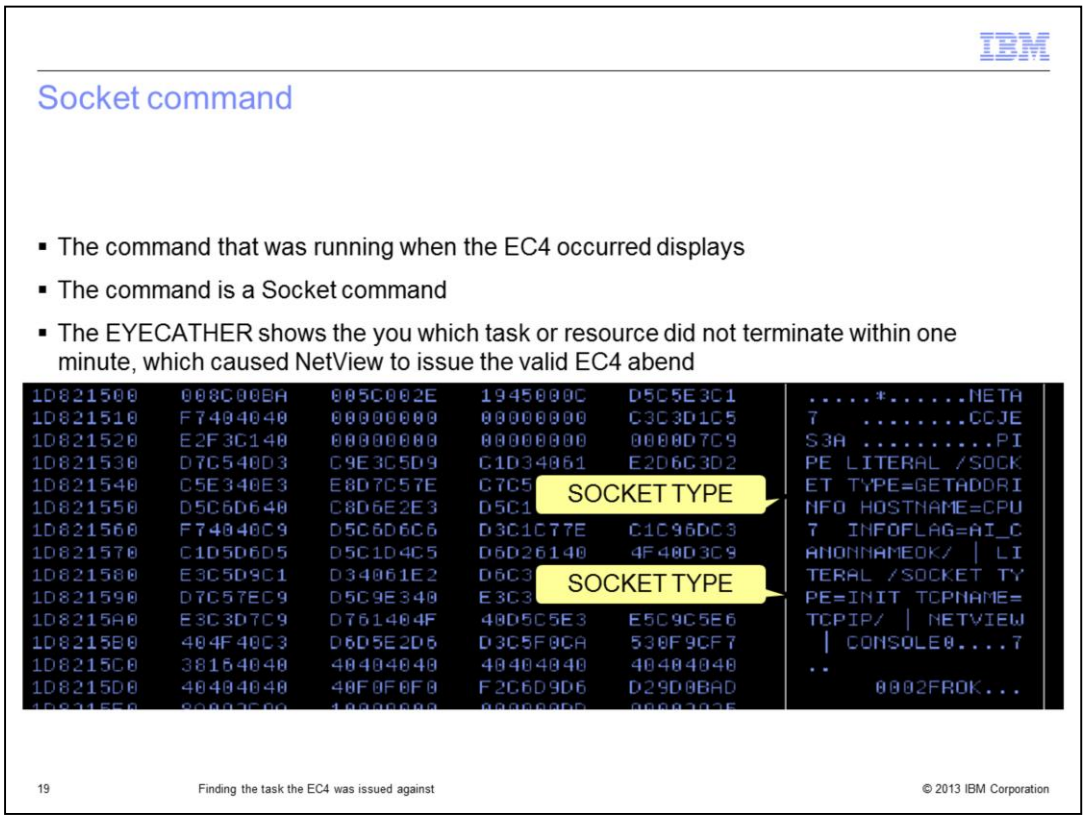
Take the address from register 1. In the example, it is 1ED66E40. Go there in the dump. The C9 in register 2 indicates that you are at the *Command Work Block* (CWB).

Viewing the command buffer

- To see the **Command Buffer**, you must go to **4c** from this address
- Run the command **l x+4c?**

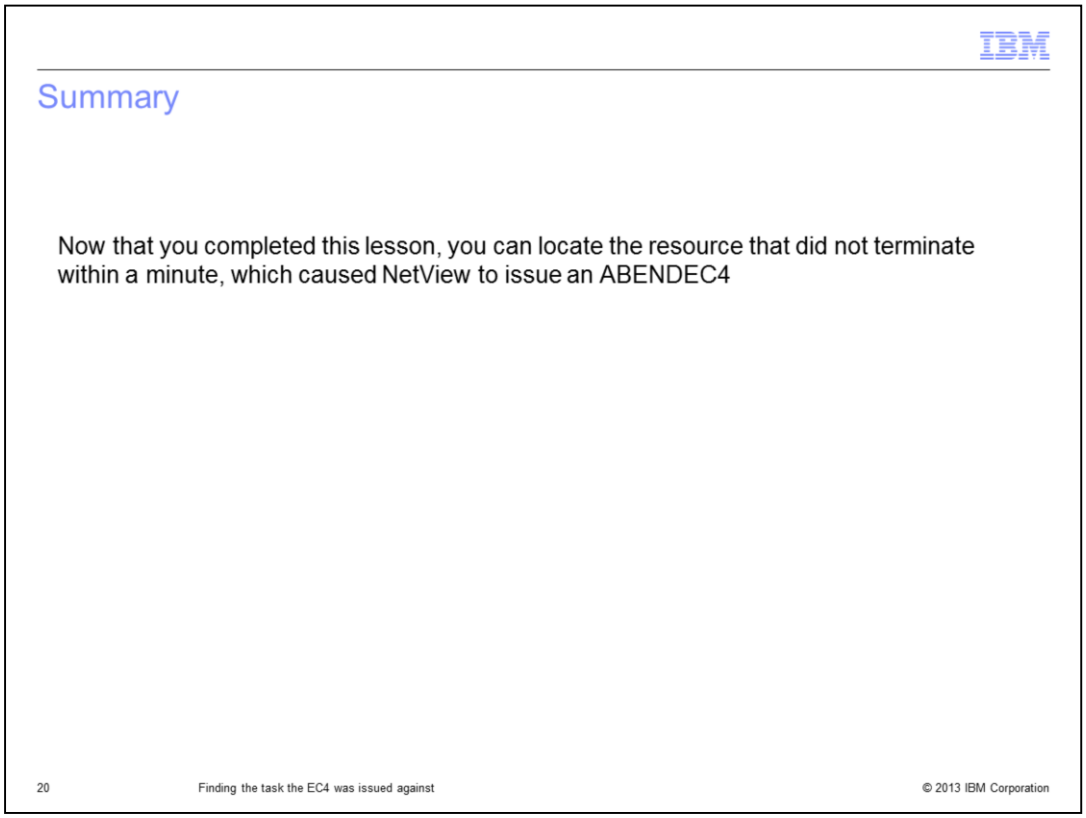


To see the command buffer, you want to go to **4c** from this address. Run the command **l x+4c?** to see what command was running.



This image shows the command buffer. You can see the command that was running when the EC4 occurred. It is a Socket command.

The EYECATHER shows you which task or resource did not terminate within one minute. The failure to terminate caused NetView to issue the valid EC4 abend.



Now that you completed this lesson, you can locate the resource that did not terminate within a minute, which caused NetView to issue an ABENDEC4.

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