#### z/OS 3.1 IBM Education Assistant

Solution Name: Recommend ASVT above 16M

Solution Element(s): MVS

July 2023



## Agenda

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#### Trademarks

- See url <a href="http://www.ibm.com/legal/copytrade.shtml">http://www.ibm.com/legal/copytrade.shtml</a> for a list of trademarks.
- Additional Trademarks:
  - None

## Objectives

• Describe the recommendation for ASVT and accompanying health check

#### Overview

- Who
  - All customers, all programmers
- What
  - ASVT control block (IHAASVT) is recommended to be above 16M (defaults to below 16M)
- Wow
  - z/OS 3.1 recommends that the ASVT be identified as being above 16M in order to help with below 16M virtual storage constraints.

## Usage & Invocation

The ASVT control block (mapped by IHAASVT) by default is below 16M. IBM recommends that it be above 16M in order to help with below 16M virtual storage constraints.

This can be accomplished by using a DIAGxx parmlib member (as identified by the DIAG system parameter such as DIAG=xx).

A statement within DIAGxx such as

CBLOC VIRTUAL31(IHAASVT)

can be used to accomplish the recommendation

The z/OS 3.1 Upgrade Workflow contains an upgrade action which will help you follow the recommendation for putting the ASVT above 16M.

## Usage & Invocation (cont 1)

Check(IBMSUP,SUP\_ASVT\_ABOVE\_16M) is provided.

It supports a parameter that defaults to "CBLOC(31)" to indicate what to check for. By default, due to "CBLOC(31)" it produces an exception message if the ASVT is not in 31-bit storage (AKA RMODE 31, AKA Above 16M).

Should you have a reason that you want the ASVT below 16M and want the check to help you notice if this unintentionally gets changed, you can change the parameter to "CBLOC(24)". In that case, the exception message is produced if the ASVT is not in 24-bit storage (RMODE 24, below 16M).

## Usage & Invocation (cont 2)

Check(IBMSUP,SUP\_ASVT\_ABOVE\_16M) messages:

IEAVEH120I The residency mode (RMODE) of the ASVT control block (macro IHAASVT) is {31 | 24} which matches what is expected.

IEAVEH121E The residency mode (RMODE) of the ASVT control block (macro IHAASVT) is expected to be {31 | 24} but is {24 | 31}

## Interactions & Dependencies

- Software Dependencies
  - None
- Hardware Dependencies
  - See Usage & Invocation
- Exploiters
  - None

#### Upgrade & Coexistence Considerations

- To exploit this solution, all systems in the Plex must be at the new z/OS level: No
- No upgrade/coexistence concerns
- No toleration/coexistence APARs/PTFs

# Installation & Configuration

No unique considerations

## Summary

- z/OS 3.1 ASVT recommended to be above 16M
- Check(IBMSUP,SUP\_ASVT\_ABOVE\_16M)

## Appendix

- z/OS MVS Initialization and Tuning Reference (DIAGxx parmlib member, CBLOC statement, ASVT operand)
- IBM Health Checker for z/OS User's Guide