

# z/OS V2.5 IBM Education Assistant

Solution Name: RSM support for greater than 4TB real memory for a z/OS image

Solution Element(s): BCP RSM

August 2021



# Agenda

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# Trademarks

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

# Objectives

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- Make it possible to use more than four terabytes of physical storage to enable new workflows.

# Overview

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- Who (Audience)
  - System programmer pushing limits of the system memory size.
- What (Solution)
  - Allow 2G LFAREA to exceed the current 4TB memory limit.
- Wow (Benefit / Value, Need Addressed)
  - New workloads are now possible that require more storage than is currently available.

# Usage & Invocation

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- Specify more than 4TB of storage in your LPAR activation profile
- Specify a larger (2G) LFAREA in your IEASYSxx
  - LFAREA=(2G=*nn*)
  - *nn* can now be specified to use more than 4TB of memory.
- Adjust applications that make use of 2G frames to use more frames if applicable.
  - Such as Java, zCX, Db2, etc.

# Interactions & Dependencies

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- Software Dependencies
  - None
- Hardware Dependencies
  - Machine that supports more than 4TB of memory.
- Exploiters
  - Available to exploiters that use 2G pages like Db2, Java, zCX

# Upgrade & Coexistence Considerations

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- To exploit this solution, all systems in the sysplex must be at the new z/OS level:
  - No.
- List any toleration/coexistence APARs/PTFs.
  - None.
- List anything that doesn't work the same anymore.
  - CVTRLSTG should be changed to Rce\_OnlineFrameCountAtIPL to support values >4TB-1
  - SMF added a new field in record-type 0 to support 64-Bit Counts.



# Installation & Configuration

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- None.

# Summary

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- It's just more memory available for 2G pages.

# Appendix

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- None