Winshuttle Custom Memory Monitoring -Transaction

Purpose

During script execution, the WFM checks SAP memory consumption and generates a Winshuttle Custom Memory Exception before the SAP memory limit is reached.

Description

There are different types of SAP memory; these include roll memory, extended memory, and heap memory. During script execution, the various memory types are allocated in a sequence – for example: Roll memory-> Extended memory-> Heap Memory. When the combined total memory for any work process reaches its allocated maximum limit, an SAP memory dump is generated.

An additional memory type, paging memory, is assigned separately and is used for internal tables and for importing and exporting objects. When the paging memory limit is reached, any user can produce an SAP dump named 'MEMORY_NO_MORE_PAGING'.

Winshuttle Custom Memory Monitoring

There are two scenarios in which the WFM will monitor the usage of different types of memory at run time. In these scenarios, Winshuttle Custom Memory Monitoring will generate a custom exception as below.

Scenario 1

The WFM will raise the exception 'MAX_ALLOCATED_MEMORY_EXCEEDED' if the usage of **extended memory** and/or **heap memory** reaches 90% of the available limits.

SAP Memory	Curr.Use %	CurUse [KB]	MaxUse[KB]	In Mem[KB]	OnDisk[KB]	SAPCurCach	HitRatio %
Roll area	0.44	1.144	3.032	262,144	0	IDs	99.89
Page area	26.39	69,185	262,136	131,072	131,072	Statement	99.00
Extended memory	11.76	1,478,656	2,818,048	12,578,816	0		0.00
Heap memory		0	0	380,222	0		0.00

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Scenario 2

The WFM will raise the exception 'MAX_ALLOCATED_MEMORY_EXCEEDED' if the usage of paging memory reaches 90% of its available limit.

SAP Memory	Curr.Use %	CurUse [KB]	MaxUse[KB]	In Mem[KB]	OnDisk[KB]	SAPCurCach	HitRatio %
Roll area Page area	0.44	1,144	3,032	262,144	0	IDs Statement	99.89 99.00
Extended memory Heap memory	11.76	1,478,656 0	2,818,048 0	12,578,816 380,222	0		0.00

Activate Winshuttle Custom Memory Monitoring

Custom Memory Monitoring is set to 'off' by default. You can activate it by entering the values indicated in the tables below. Scenario 1 covers activation for use with all t-codes, and Scenario 2 covers activation for use with just one t-code.

Scenario 1: Activate Winshuttle Custom Memory Monitoring for all t-codes

In the Message Class field of the /WINSHTLQ/TRCTAB table (example below), enter 20,000 or a number greater than 20,000. If you do not enter a number in the Message Class field, 20,000 will be entered by default.

Data Browser: Table /WIN	ISHTLQ/TRCTAL	3: S
🕼 🚸 🛃 🚺 Number of Entries		
ID('TRULE' or 'ERROR' ot 'TVAL	MRULE	to
Transaction code	ALL_TCODES	to
Message Class	20000	to
Message Number		to

The number 20,000 in the Message Class field indicates that Custom Memory Monitoring will start for scripts with BDC_TAB tables that have 20,000 or more rows. The Message Class field prevents memory monitoring from activating for small scripts and ensures activation for large and very large scripts. (Please note that in BDC_TAB tables, there can be ten rows for each line item.)

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In the Message Class field of the /WINSHTLQ/TRCTAB table (example below), enter 30,000 or a number greater than 30,000. If you do not enter a number in the Message Class field, the number 30,000 will be entered by default.

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Data Browser: Table /WI	INSHTLQ/TRO	TAB: Select
🚱 🚸 🗟 🚺 Number of Entries		
ID('TRULE' or 'ERROR' ot 'TVAL	MRULE	to
Transaction code	FB50	to
Message Class	30000	to
Message Number		to

Required Authorization

To run Winshuttle Custom Memory Monitoring, assign the authorization below at the user level. (This authorization is not required unless Custom Memory Monitoring is activated.)

AUTHORITY-CHECK OBJECT 'S_ADMI_FCD' ID 'S_ADMI_FCD' FIELD 'STOR'

