SAP Extended Global Memory (EG) parameters

Purpose

Explain the SAP parameters involved in the EG shared memory area.

Overview

EG are shared segments shared globally among all work processes. This is a Memory area that belongs to the Extended Memory (EM). The goal of this Wiki is to explain what are the memory parameter that determine the total size of EG memory.

Extend Global Memory area

The size of the EG is obtained from the total of the parameter values:

- As from 74.X Kernel
  \[
  \text{em/global\_area\_MB} + \text{abap/shared\_objects\_size\_MB} + \text{zcsa/table\_buffer\_area} + \text{zcsa/db\_max\_buf\_tab}
  \]
- Before 74.X Kernel
  \[
  \text{em/global\_area\_MB} + \text{abap/shared\_objects\_size\_MB}
  \]

It is required that the address space for EG can be provided by the EM and also by the Operating System. In order to monitor the EG area it is possible to use different tools:

- SE38 -> RSMEMORY -> EG Overview or
- SE38 RSMEMORY EG Consumer (to displays the different consumers using EG memory) as from Netweaver 7.4
- transaction SHMM displays the content of the abap/shared_objects area
- ST02 --> Detail analysis menu --> SAP Memory --> Mode list”, in the column "I-Mode Gl" and with the user-id via SM50 you could identify the work process using the EG memory at that time

Different applications use this memory area:

- ITS services that can be monitorized via SITSPMON transaction
- RTM (Runtime monitor): the memory specified along with profile parameter "abap/rtm\_high\_water" is being allocated out of the overall extended global memory area
- Coverage Analyizer (transaction SCOV)
- Batch jobs generating spool outputs. If these processes don't issue a commit for sometime there could occupied EG memory

Related Content
Related Documents

Related SAP Notes/KBAs

2148571 - Explanation for higher Extended Memory (EM) and Extended Global Memory (EG) consumption after upgrade to SAP Kernel 7.4x