FUJITSU Software BS2000 DSSM

Version V4.3C
June 2016

Readme file

1 INTRODUCTION

DSSM V4.3 extends the functions of DSSM V4.1 as follows:

- The command /REMOVE-SUBSYSTEM has been extended to allow the remove of BY-SLICE subsystems.
- DSSM V4.3 supports X86E architectures.

The release level is that of: March 2016.

This and other current Readme files are shipped on the SoftBooks DVD and are available online at http://manuals.ts.fujitsu.com/.

2 New functionalities of DSSM V4.3

2.1 Extension of /REMOVE-SUBSYSTEM

The command has been extended to allow the remove of BY-SLICE subsystems. Therefore it is possible to suppress a version and to add a new version of a BY-SLICE subsystem.

2.2 Support of new architecture

DSSM V4.3 supports X86E architectures.

2.3 Extension of /RELEASE-SUBSYSTEM-SPACE

The command has been extended with a new parameter MEMORY-TYPE. This is done because until now the /RELEASE-SUBSYSTEM-SPACE only allows to release address space reserved for non privileged subsystems and not address space reserved for BY-SLICE subsystems. The number of BY-SLICE subsystems is growing and the reserved address space becomes greater and greater and may lead to problem when trying to load a big program.
Therefore it has been requested that the command /RELEASE-SUBSYSTEM-SPACE allows also to free the address space reserved by BY-SLICE subsystems.

The syntax is adapted as follows:

OPERATION	OPERANDS
/RELEASE-SUBSYSTEM-SPACE	MEMORY-TYPE = | *NON-PRIVILEGED | *BY-SLICE | *ALL

OPERANDS:

MEMORY-TYPE =
Type of reserved address space to be released.
Default value is *NON-PRIVILEGED which is compatible with previous versions of DSSM.

*NON-PRIVILEGED
Reserved address space below 16MB is released.

*BY-SLICE
Reserved address space above 16MB used for private slice of "BY-SLICE" subsystems is released.

*ALL
Reserved address space above 16MB used for private slice of "BY-SLICE" subsystems as well as reserved address space below 16MB are released.

2.4 BY-SLICE subsystem on SPARC

It has been noticed that when the size specified for a BY-SLICE subsystem is odd, a problem may occur at subsystem loading.
To solve this problem, the following modifications have been implemented in DSSM for SPARC hardware only:

- At subsystem catalog loading during startup, DSSM checks that the size specified for a BY-SLICE subsystem is even.
  If not, the size is increased by 1 and the address space size and location are recomputed. The message ESM0345 informs about the fact that a recalculation of the address space for a BY-SLICE subsystem has been done.

- At /ADD-SUBSYSTEM time for TYPE=*NEW-SUBSYSTEMS, the size of BY-SLICE is checked. If the size is odd, the size is increased by 1.
  No message is sent in that case.

- At /MODIFY-SUBSYSTEM-PARAMETER, when the size of a BY-SLICE is modified and the specified size is odd, the size is increased by 1 without any warning message.

2.5 Support of message BLS0540

When the system runs with BLSSEC, it may happens that a data security check failure is detected and the message BLS0540 sent. In that case DSSM receives a special return code from BLS at subsystem code loading. This return code is processed by DSSM so that the subsystem creation is terminated abnormally and the subsystem status is reset to "NOT CREATED".