

Note Language: English**Version:** 3 **Validity:** Valid Since 04.12.2012

Summary

Symptom

In order to have high performance when handling big data, it is required to process data in parallel.

Other terms

Parallel Execution Framework Scalability Performance

Reason and Prerequisites

Solution

Introduction

In order to enhance Business Planning and Consolidation in terms of scalability and performance we introduced the parallel execution framework by which the system resource (CPU, RAM etc.) will be leveraged as much as possible. This framework is supposed to be transparent to end users and can be further leveraged by other Business Planning and Consolidation components to boost performance.

In order to gain performance benefits from this framework the user should make sure that the system has sufficient hardware resource including CPU, RAM and dialog sessions etc. In an environment where there is serious resource contention there will be possibly no performance improvement but even downgrades.

In Business Planning and Consolidation v10 SP09 there are 2 major components have been built upon the parallel execution framework which are data manager (to different extent by process chains) and legal consolidation.

Configuration Parameters

Please go to IMG with T-Code "SPRO" to set those parameters properly to gain the maximum benefit from this framework.

Parameter Name	Level	Default	Purpose
ENABLE_PARALLEL_EXECUTION	GLOBAL		Toggle Parallel Mode, set X to enable.
PARALLEL_SERVER_GROUP	GLOBAL		Name the server group to allocate the dialog process
MAX_SESSION_COUNT	GLOBAL	12	Max dialog session can be used by this framework
BUFFER_ROW_SIZE	GLOBAL	40000	How many data per package
BUFFER_MAX_ROW_SIZE	GLOBAL	90000	How many data per package at most
REFRESH_STATUS_INTERVAL	GLOBAL	10	How often (seconds) for

			each session to synchronize
BUFFER_MAX_PART_COUNT	GLOBAL	1000	How many partitions one input buffer instance can handle at most
BUFFER_WAIT_TIME_TO_EXIT	GLOBAL	5	How long (seconds) the input buffer wait if no data comes in
MONITOR_WAIT_TIME_TO_EXIT	GLOBAL	10	How long (seconds) the main session should exit if it can't start any instance
PARALLEL_EXECUTION(ON)	PKG	OFF	Enable parallel execution for this package

Installation

Please upgrade to SP09

* To view the available documentation for SAP BusinessObjects Planning and Consolidation 10.0, version for SAP NetWeaver, including application help and technical guides, see the SAP Help Portal at <http://help.sap.com/bopacnw100>.

Header Data

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Valid Releases

Software Component	Release	From Release	To Release	and Subsequent
CPMBPC	800	800	800	
CPMBPC	801	801	801	