Enhancing Buffer Pool performance!

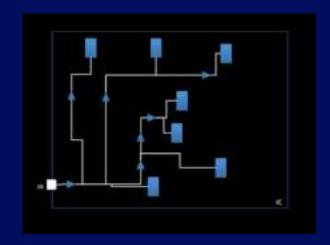
When was the last time anyone in your organization looked at the IMS Buffer assignments?

Processing costs continue to rise, I/O gets more expensive every day.

Are you paying more and getting less bang for your processing dollar because your system is constantly reading and re-reading data?

IBM can help!





IMS always looks for data in the buffers first, then, if it isn't found, makes a costly read of the database.

The more data placed in the buffers, the less I/O.

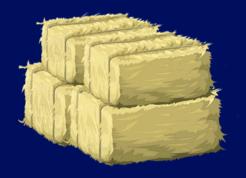
Ideally, it would be nice to have the entire database loads

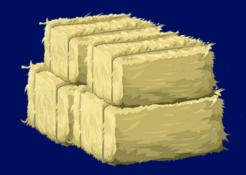
that isn't practical.





IMS Buffer Pool Analyzer can give you the next best thing – maximum use of the buffers that are available!





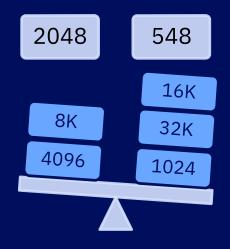


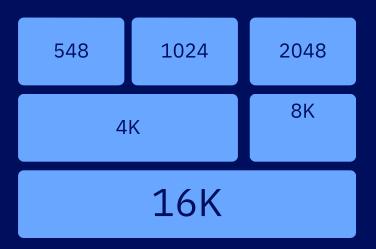
So, What exactly is IMS Buffer Pool

Analyzer?
IBM IMS Buffer Pool Analyzer for z/OS (also referred to as IMS Buffer Pool Analyzer) provides a way to analyze database buffer pool performance for both IMS batch jobs (DLI and DBB) and IMS subsystems (DBCTL and DB/DC).

IMS Buffer Pool Analyzer provides more information than just IMS database buffer pool hit ratios and I/O rates. It provides a way to determine the impact of buffer pool changes before they are made.

The IMS Buffer Pool Analyzer is designed to help the IMS support specialist tune IMS database buffer pools to gain optimized performance in online and batch processing





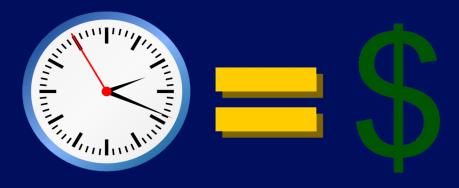
IMS Tools / Buffer Pool Analyzer/ November 29, 2017 / © 2017 IBM Corporation

Without a way to look at the buffers while processing, analyzing the buffer assignments in an IMS system can be a long drawn out process, filled with guesswork, and prone to

errors.

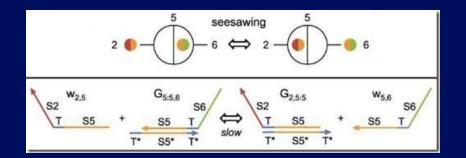


If you're making changes in a production environment, these changes can be time consuming if you have to enter a change request each time you try to implement your changes.

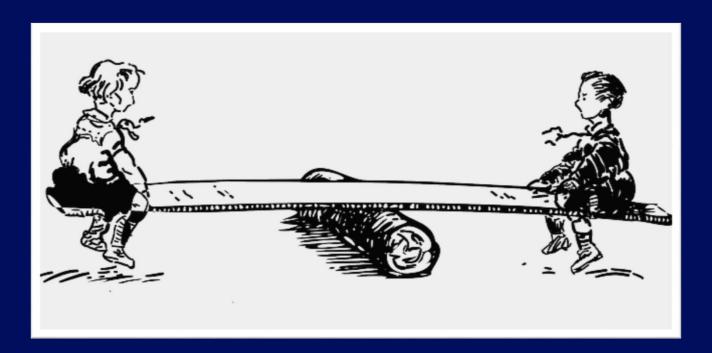


IMS DB Buffer Pool tuning is a balancing act. It is simply a tradeoff between I/O rate and storage. Wasting either resource can have negative impacts on IMS and the entire MVS system.

It can feel like you're dealing with this:

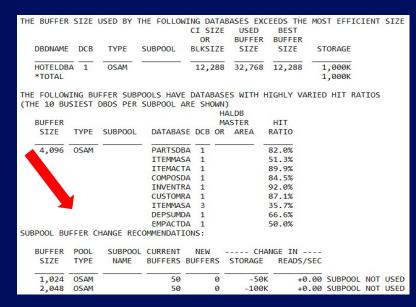


IMS Buffer Pool Manager can make it more like this:

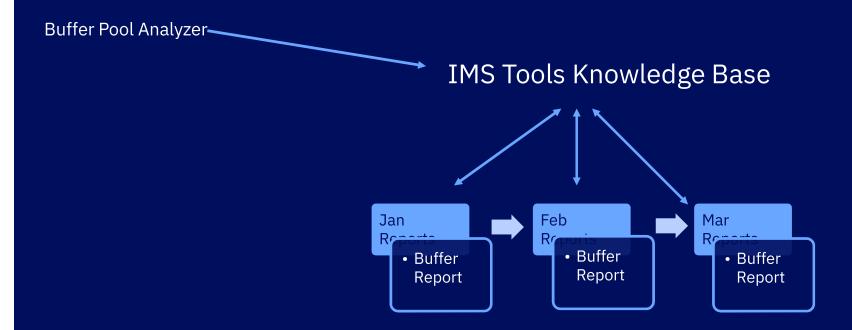


Not only will BPA show you what the buffers look like now, it will also show you what you can do to improve performance by improving buffer assignments.

BUFFER SUBPOOL SUMMARY IMS IEA1 BUFFER POOL REPORT									
DATABASE	SUBPOOL	SUMMARY							
				REQUESTS	REA	DS			
2225170	BUFFER		NUMBER	PER	PE	R	HIT	BUFFER	MARGINAL
TYPE	SIZE	SUBPOOL	BUFFERS	SECOND	SEC	OND	RATIO	LIFE	REDUCTION
OSAM	1,024		50			NO S	SUBPOOL	ACTIVIT	Υ
OSAM	2,048		50			NO S	SUBPOOL	ACTIVIT	Υ
OSAM	4,096		50	4		1	77.0%	53	4
OSAM	8,192		50	1		0	95.6%	995	0
OSAM	32,768		50	0		0	89.3%	2915	0
OSAM	*TOTAL		250	5		1	81.3%		
VSAM	512		50			NO S	SUBPOOL	ACTIVIT	Υ
VSAM	1,024		50			NO S	SUBPOOL	ACTIVIT	Υ
VSAM	2,048		50	1		0	99.4%	8163	0
VSAM	4,096		50	2		0	96.7%	927	2
VSAM	8,192		50	0		0	70.3%	2550	0
VSAM	16,384		50			NO S	SUBPOOL	ACTIVIT	Υ
VSAM	32,768		50			NO S	SUBPOOL	ACTIVIT	Υ
VSAM	*TOTAL		350	3		0	97.3%		
*GRANE	TOTAL		600	8		1	86.9%		



Buffer Pool Analyzer also provides support for IMS Tools Knowledge Base



IMS Buffer Pool Analyzer performs the following functions:

- 1. Reviews your buffer pool environment
- 2. Recommends changes to the sizes of buffers in each subpool
- 3. Recommends the number of buffers for each subpool
- 4. Provides the resulting changes in storage usage
- 5. Provides the amount of reduction in the number of database reads



This?

OR

This?



IBM IMS Tools Additional Resources

- IMS Tools Product Support Documentation IBM IMS Tools Support Documentation https://www-01.ibm.com/support/docview.wss?uid=swg27020942
- Shop z Support
 IBM Shop z User's Guide Documentation
 https://www304.ibm.com/software/shopzseries/ShopzSeries_public.wss?action=guide
- IMS Tools IMS Buffer Pool Analyzer

 https://www.ibm.com/us-en/marketplace/ims-buffer-pool-analyzer-for-zos

