

Share IDMS database files. Share IDMS buffer pools.

DB-SYNCHRO

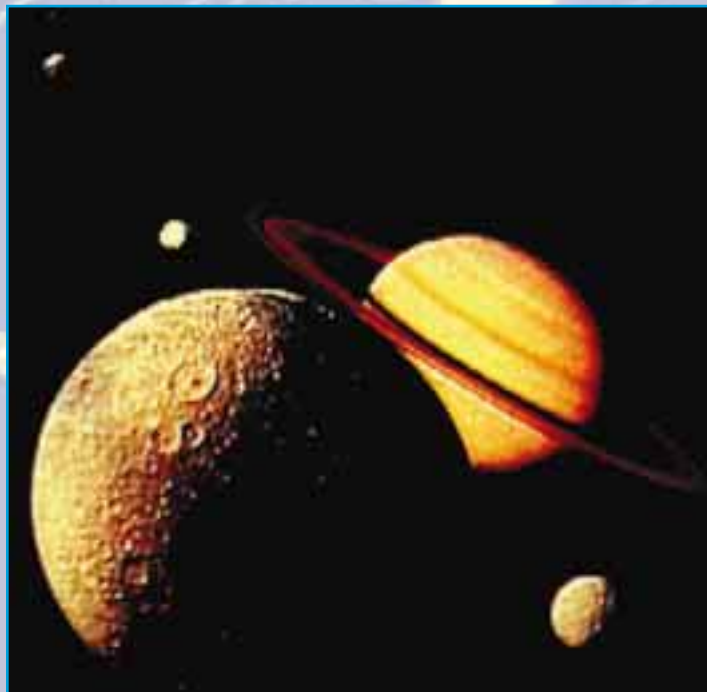
Safely share IDMS database files among CV's, Local Mode jobs or any combination of CV's and Local Mode jobs.

DB-XMVS

Safely share IDMS database files among CV'S, Local Mode jobs or any combination of CV's and Local Mode jobs when running on separate LPAR's or different physical machines.

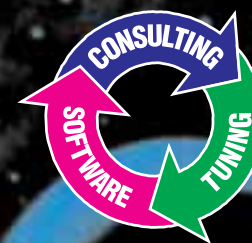
DB-SHARE

Share IDMS buffer pools among CV'S, Local Mode jobs or any combination of CV's and Local Mode jobs.



Software Solutions for the 90's and Beyond

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DB-SYNCHRO

You know how to share IDMS database files among CV's and Local Mode jobs. You know the tremendous benefits of having a Retrieval CV, and the benefits of running Retrieval-only jobs in Local Mode. You know that sharing IDMS database files will improve performance, increase throughput and avoid buffer thrashing when running long Retrieval jobs under CV.

However, you also know the dangers of doing so. You remember that the practice of sharing IDMS database files was always more trouble than it was worth, i.e. perceived broken chains, data inconsistency and data integrity problems.

The world of DB-SYNCHRO enables you to fully exploit the benefits of sharing IDMS database files, while completely eliminating those dangerous problematic scenarios. With DB-SYNCHRO, you can confidently create a Retrieval CV, run Retrieval-only programs in Local Mode and reap the benefits of sharing IDMS database files among any combination of CV's and Local Mode jobs.

AT RUN-TIME...

When IDMS issues a Page Write, the Write to the database is completed, and then DB-SYNCHRO gets involved

DB-SYNCHRO searches the buffer pools of all CV's and Local Mode jobs that share the same IDMS file. If the Page is found in these buffer pools, DB-SYNCHRO tags the Page as if the Page is not there

The next time that Page is requested, the newly updated Page will be re-read from the database

DB-XMVS

All the features of DB-SYNCHRO when running on different LPAR's or different physical machines.

DB-SHARE

You always wished you could share buffer pools among any combination of CV's and Local Mode jobs. You know that sharing buffer pools will increase throughput and enhance the performance of your system. You know that a page found in the buffer is much cheaper than a page read from the database. You know that reducing I/O's guarantees improved performance.

The world of DB-SHARE enables any combination of CV's and Local Mode jobs to share their buffer pools. DB-SHARE enables true exploitation of in-memory databases in XA or ESA dataspace. You save I/O's because the algorithm for satisfying a page request is as follows:

AT RUN-TIME...

When a page is requested, IDMS first searches your private IDMS buffer pools only if the page is not found, IDMS issues a Read

DB-SHARE intercepts the Read and proceeds to search the buffer pools of all CV's and Local Mode jobs that share the same IDMS file. All page requests satisfied by DB-SHARE result in reduced I/O, reduced elapsed time and reduced CPU time

IDMS will Read the page from disk only if not found in any buffer pools

DB90s (R4.1) ShareBuffer Group Status Display 09:36 95.235

Group Name: D2SYNCH Creation Date: 07/03/95 11.59 PC: YES Stack: 0
Current CV: IDMSD2 ShrdUPDT: D2SYUPDT ShrdREAD: D2SYREAD ShrdXMVS:

MEMBER	S	SVC	CV#	ASID	JOBNAME	WR-CHKS	WR-HITS	RD-CHKS	RD-HITS	
1*	IDMSD2	R	209	5	260	IDMSD2	0	0	2523763	345654
2*	IDMSR1	R	209	6	278	IDMSR1	6349721	3486	1983726	106235
3*	IDMSR2	R	209	7	279	IDMSR2	5290742	1603	0	0
4*	.	0	0	0	0	0	0	0	0	0
5*	.	0	0	0	0	0	0	0	0	0
6*	.	0	0	0	0	0	0	0	0	0
7*	.	0	0	0	0	0	0	0	0	0
8*	.	0	0	0	0	0	0	0	0	0
9*	.	0	0	0	0	0	0	0	0	0
10*	.	0	0	0	0	0	0	0	0	0

<ENTER> REFRESH <CLEAR> EXIT <PF09> MODE SWITCH <PF8> NEXT <PF7> PRIOR
ENTER NEW COMMAND BELOW

DB-SYNCHRO eliminated perceived broken chains and/or data integrity problems 3486 times for IDMSR1 and 1603 times for IDMSR2

DB-SHARE saved 345,654 I/O's on IDMSD2 and 106,235 I/O's on IDMSR1 by locating requested pages in shared buffer pools

DB90s (R4.1) ShareBuffer Group Status Display V0005 09:43:14 95.235

Group Name: D2SYNCH Creation Date: 07/03/95 11.59 PC: YES Stack: 0
Current CV: IDMSD2 ShrdUPDT: D2SYUPDT ShrdREAD: D2SYREAD ShrdXMVS:

MEMBER	S	SVC	CV#	12345678901234567890123456789012	R	RD-HITS	WR-HITS
1*	IDMSD2	R	209	5 .23.....	.	345654	0
2*	IDMSR1	R	209	6 1.3.....	.	106235	3486
3*	IDMSR2	R	209	7 1.....	.	0	1603
4*	.	0	0	.....	.	0	0
5*	.	0	0	.....	.	0	0
6*	.	0	0	.....	.	0	0
7*	.	0	0	.....	.	0	0
8*	.	0	0	.....	.	0	0
9*	.	0	0	.....	.	0	0
10*	.	0	0	.....	.	0	0

<ENTER> REFRESH <CLEAR> EXIT <PF09> MODE SWITCH <PF8> NEXT <PF7> PRIOR
ENTER NEW COMMAND BELOW

This indicates that CV#5 and CV#6 as well as CV#6 and CV#7 are sharing files and buffer pools

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