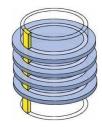






Architectures des Systèmes de Bases de Données

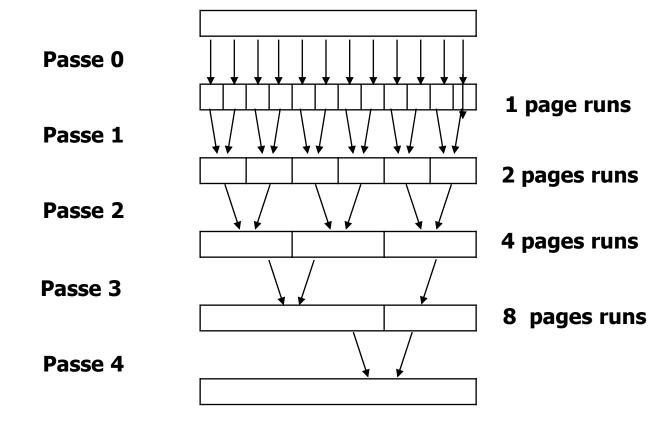
External Sort Merge SORT MERGE RUNS



2 way Sort Merge

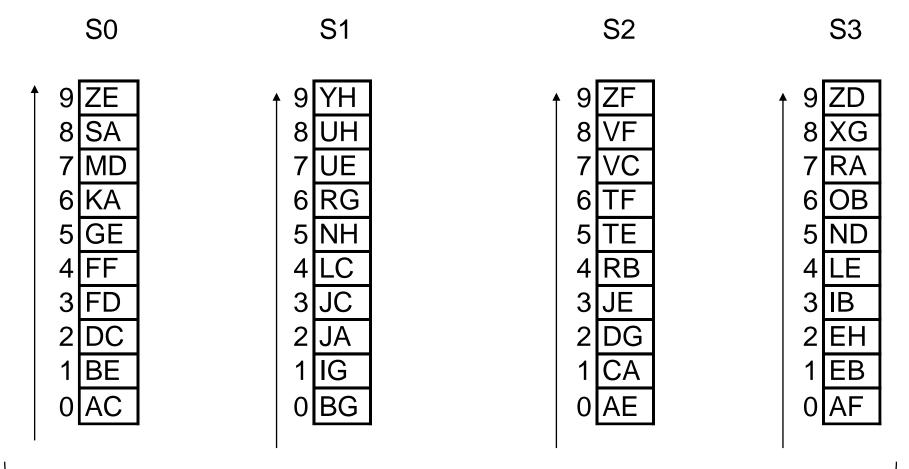






Pass 0: 1 block Run index (0..9)



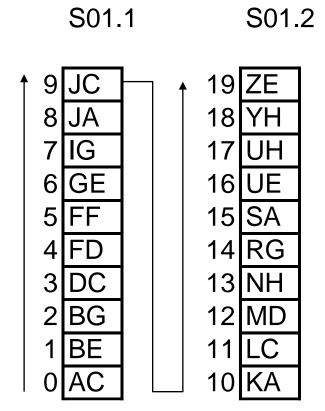


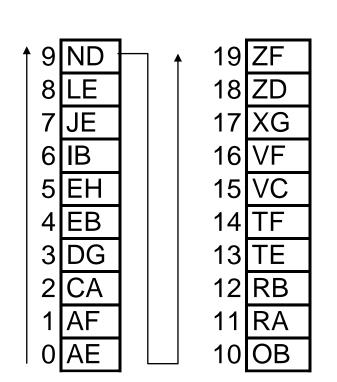
Pass 1: 2 blocks runs index (0..19)



S23.2

Run 01	Run 02
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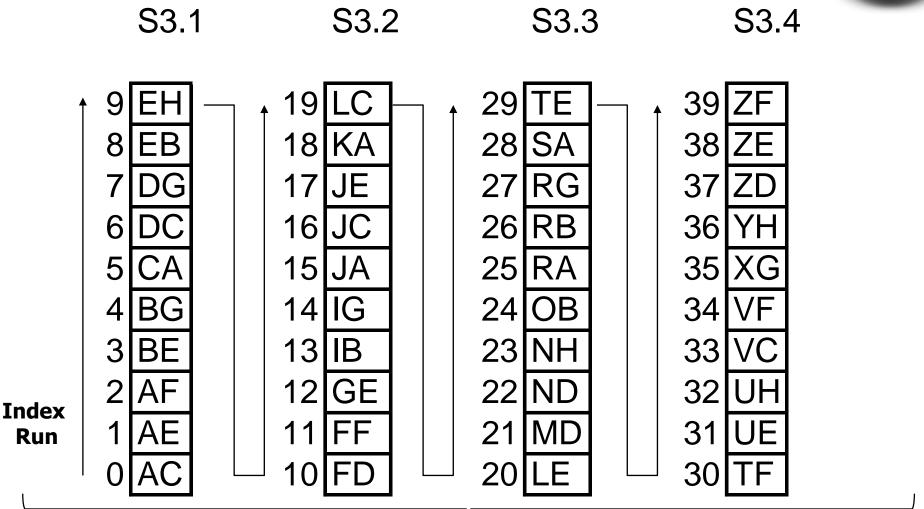




S23.1

Pass 2: 4 block runs sorted index





Overall





S	28
9 YH 8 UH 7 UE 6 RG 5 NH 4 LC	
4 LC 3 JC 2 JA 1 IG 0 BG	

S01.2



S23.2

S3

^	
Y	

Pass 0

2 Blocks Run

S3.1

S01.1

9 ND	19 ZF
8 LE	18 ZD
7 JE	17 XG
6 IB	16 VF
5 EH	15 VC
4 EB	14 TF
3 DG	13 TE
2 CA	12 RB
1 AF	11 RA
0 AE	10 OB

S3.4

S23.1

S3.3



Pass 1

4 Blocks Run

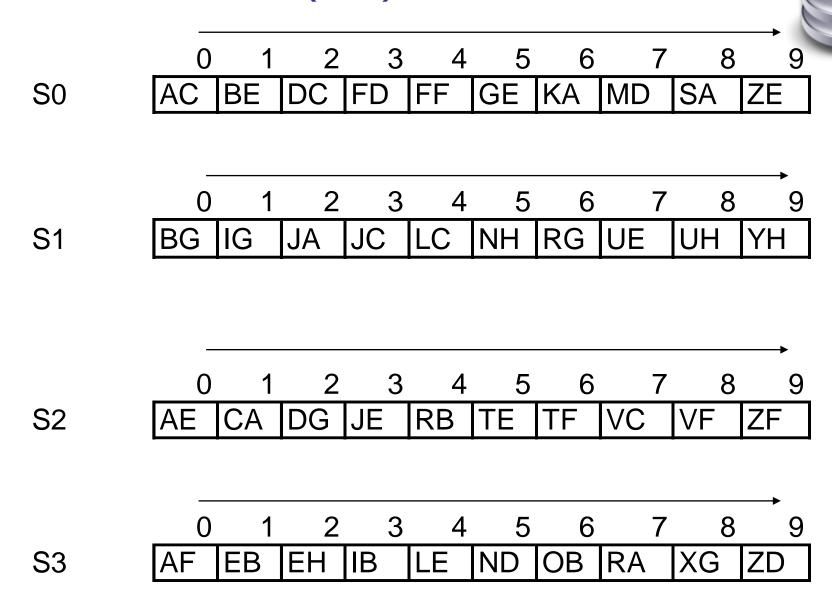
9 EH 8 EB 7 DG 6 DC 5 CA	17 16 15	LC KA JE JC JA	29 28 27 26 25	TE SA RG RB RA	39 38 37 36 35	ZF ZE ZD YH XC
8 EB	18	KA	28	SA	38	ZI
7 DG	17	JE	27	RG	37	ZI
6 DC	16	JC	26	RB	36	YI

S3.2



Pass 2

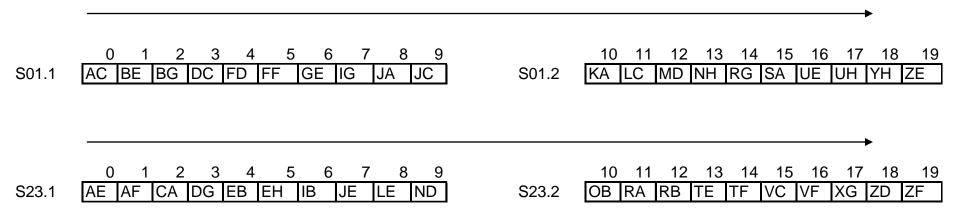
1 block Run index (0..9)



2 blocks runs index (0..19)



Index runs



4 Blocks runs index (0..39)



Index runs

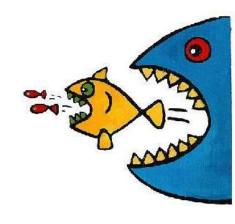
\$3.1 \$3.2 \$3.3 \$3.4

ZF | ZE | ZD | YH | XG | VF | VC | UH | UE | TF |

TE SA RG RB RA OB NH ND MD LE

LC KA JE JC JA IG IB GE FF FD 20 21 22 23 24 25 26 27 28 29

EH EB DG DC CA BG BE AF AE AC 30 31 32 33 34 35 36 37 38 39



Over all

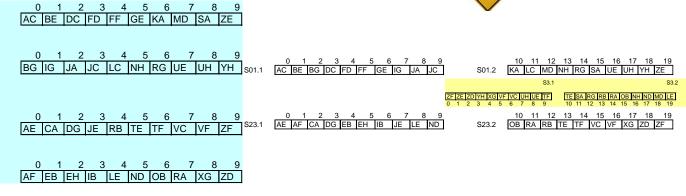
S0

S1











1 Block Run 2 Blocks Run 4 Blocks Run

