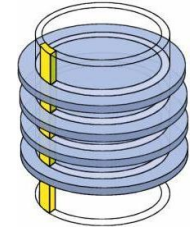


Conception Avancée de Bases de Données

“Disk” Merge join
External merge sorting
Exemple pass 0 : SORT



4 blocks relation S



ZE
SA
MD
KA
GE
FF
FD
DC
BE
AC

S0

UE
NH
JA
RG
IG
LC
JC
UH
BG
YH

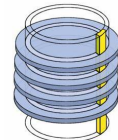
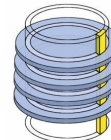
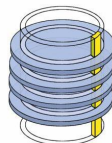
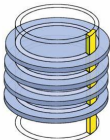
S1

RB
CA
AE
VC
VF
JE
DG
ZF
TE
TF

S2

IB
XG
ND
AF
EH
ZD
OB
LE
RA
EB

S3



Pass 0 : 1 block run sorterd



Sort



S0

ZE
SA
MD
KA
GE
FF
FD
DC
BE
AC

S1

UE
NH
JA
RG
IG
LC
JC
UH
BG
YH

S2

RB
CA
AE
VC
VF
JE
DG
ZF
TE
TF

S3

IB
XG
ND
AF
EH
ZD
OB
LE
RA
EB

S0

ZE
SA
MD
KA
GE
FF
FD
DC
BE
AC

S1

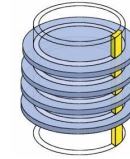
YH
UH
UE
RG
NH
LC
JC
JA
IG
BG

S2

ZF
VF
VC
TF
TE
RB
JE
DG
CA
AE

S3

ZD
XG
RA
OB
ND
LE
IB
EH
EB
AF



1 block Run index (0..9)

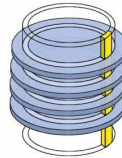


S0

9	ZE
8	SA
7	MD
6	KA
5	GE
4	FF
3	FD
2	DC
1	BE
0	AC

S1

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



S2

9	ZF
8	VF
7	VC
6	TF
5	TE
4	RB
3	JE
2	DG
1	CA
0	AE

S3

9	ZD
8	XG
7	RA
6	OB
5	ND
4	LE
3	IB
2	EH
1	EB
0	AF



1 block Run index (0..9)



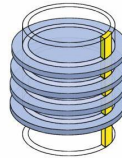
S0

9	ZE
8	SA
7	MD
6	KA
5	GE
4	FF
3	FD
2	DC
1	BE
0	AC



S1

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



S2

9	ZF
8	VF
7	VC
6	TF
5	TE
4	RB
3	JE
2	DG
1	CA
0	AE

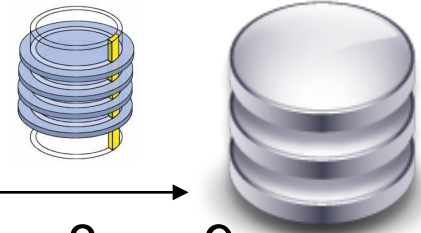


S3

9	ZD
8	XG
7	RA
6	OB
5	ND
4	LE
3	IB
2	EH
1	EB
0	AF



1 block Run index (0..9)



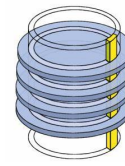
	0	1	2	3	4	5	6	7	8	9
S0	AC	BE	DC	FD	FF	GE	KA	MD	SA	ZE

	0	1	2	3	4	5	6	7	8	9
S1	BG	IG	JA	JC	LC	NH	RG	UE	UH	YH

	0	1	2	3	4	5	6	7	8	9
S2	AE	CA	DG	JE	RB	TE	TF	VC	VF	ZF

	0	1	2	3	4	5	6	7	8	9
S3	AF	EB	EH	IB	LE	ND	OB	RA	XG	ZD

1 block Run index (0..9)



S0

0	1	2	3	4	5	6	7	8	9
AC	BE	DC	FD	FF	GE	KA	MD	SA	ZE



S1

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



S2

0	1	2	3	4	5	6	7	8	9
AE	CA	DG	JE	RB	TE	TF	VC	VF	ZF



S3

0	1	2	3	4	5	6	7	8	9
AF	EB	EH	IB	LE	ND	OB	RA	XG	ZD

