

# Middleware – Cloud Computing

Verwaltung großer Datenmengen (Zusatz)

Welche der Konstellationen sind im Google File System möglich?

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Lehrstuhl Informatik 4 (Systemsoftware)



Lehrstuhl für Informatik 4  
Systemsoftware

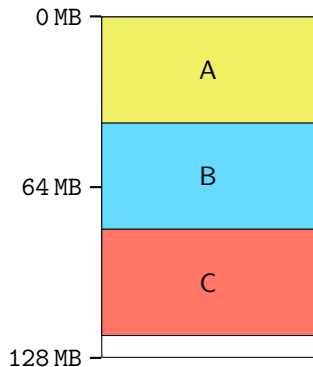


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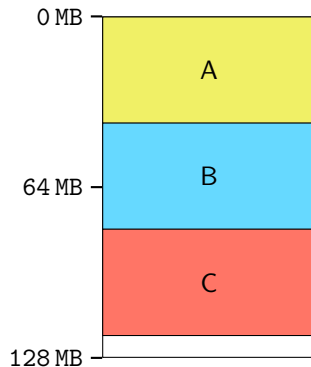
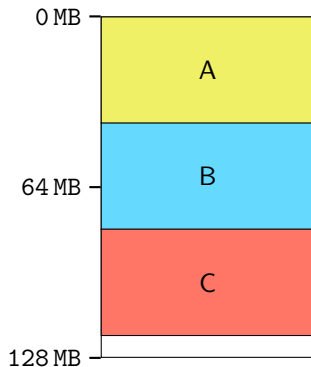
TECHNISCHE FAKULTÄT

## Client 1

WRITE A 40 MB at offset 0 MB  
WRITE B 40 MB at offset 40 MB  
WRITE C 40 MB at offset 80 MB



## Client 2



## Client 1

WRITE



A

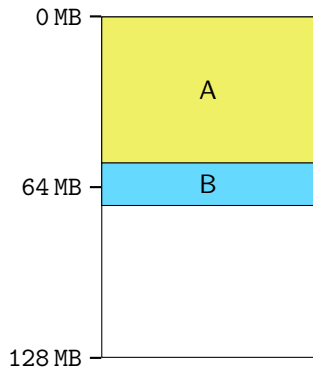
55 MB at offset 0 MB

APPEND

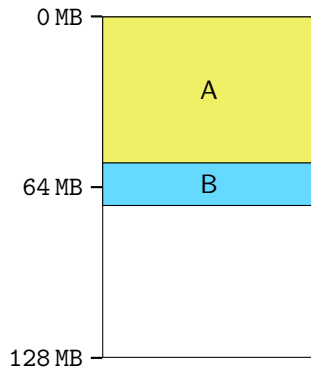
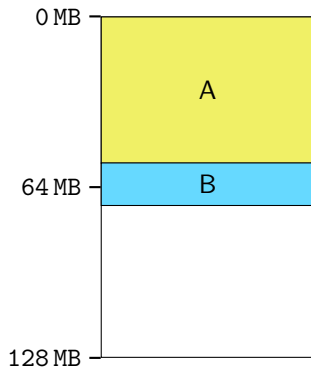


B

16 MB



## Client 2



## Client 1

WRITE



A

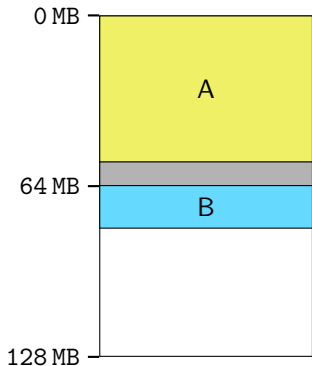
55 MB at offset 0 MB

APPEND

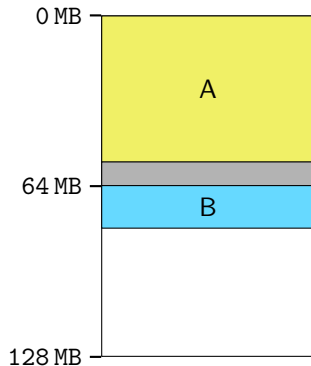
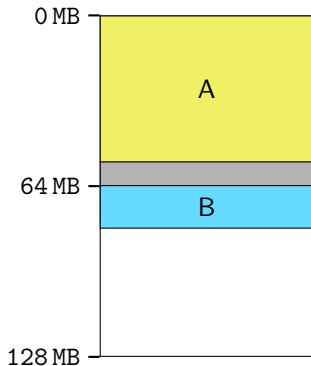


B

16 MB



## Client 2



## Client 1

WRITE



55 MB at offset 0 MB

APPEND

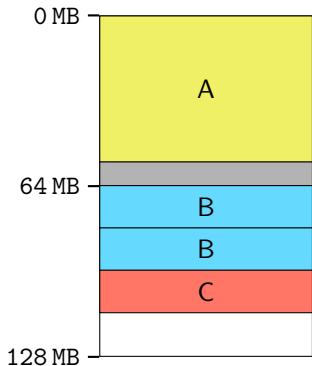


16 MB

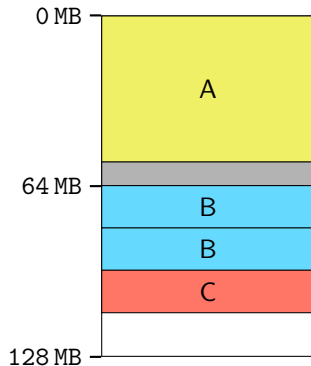
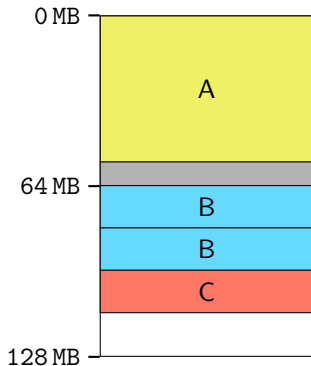
APPEND



16 MB



## Client 2

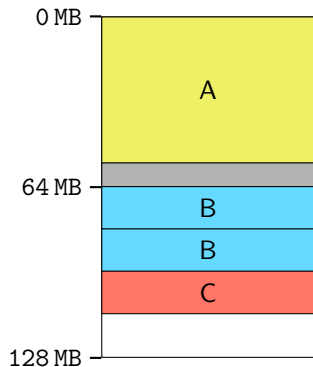


## Client 1

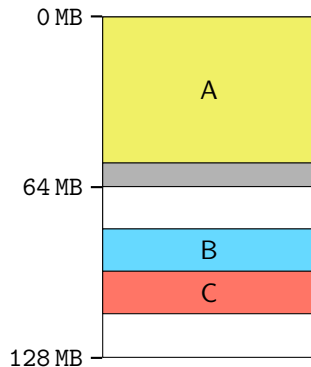
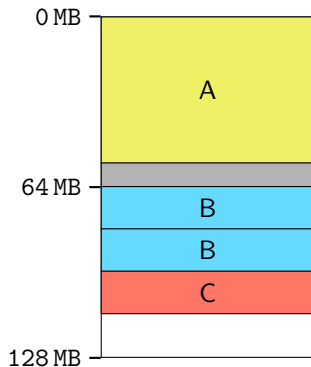
WRITE A 55 MB at offset 0 MB

APPEND B 16 MB

APPEND C 16 MB



## Client 2

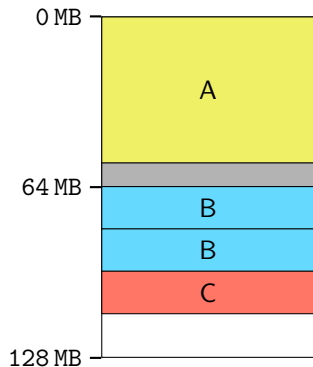


## Client 1

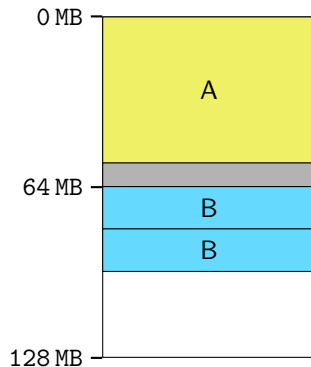
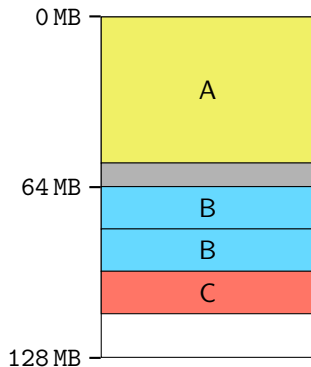
WRITE A 55 MB at offset 0 MB

APPEND B 16 MB

APPEND C 16 MB



## Client 2



## Client 1

WRITE



40 MB at offset 0 MB

WRITE

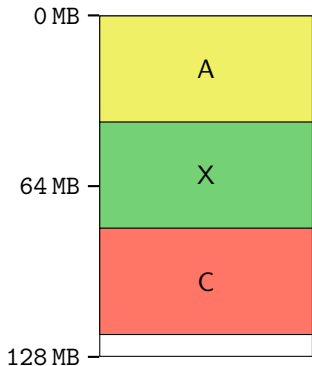


40 MB at offset 40 MB

WRITE



40 MB at offset 80 MB

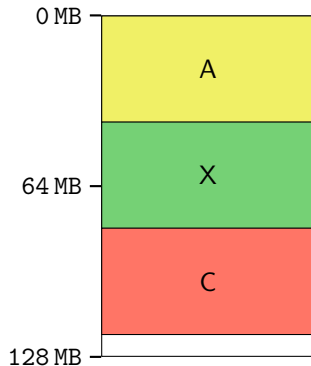
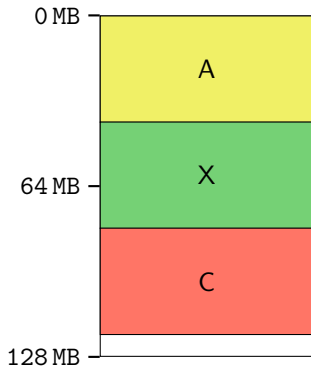


## Client 2

WRITE

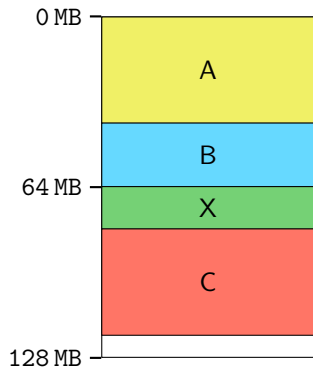


40 MB at offset 40 MB



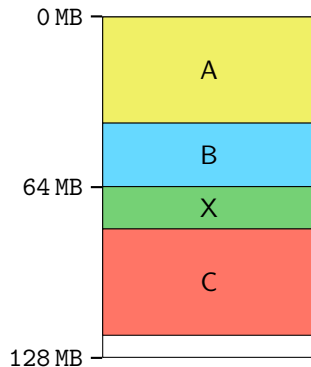
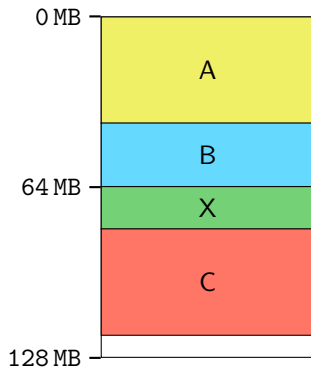
## Client 1

WRITE A 40 MB at offset 0 MB  
WRITE B 40 MB at offset 40 MB  
WRITE C 40 MB at offset 80 MB



## Client 2

WRITE X 40 MB at offset 40 MB



## Client 1

WRITE



40 MB at offset 0 MB

WRITE

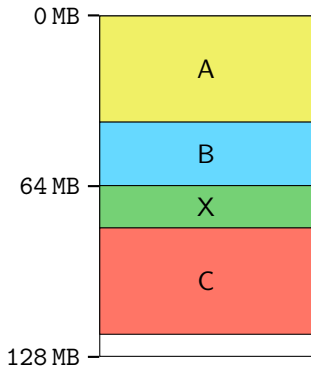


40 MB at offset 40 MB

WRITE



40 MB at offset 80 MB



## Client 2

WRITE



40 MB at offset 40 MB

