



@SMIC WORKSHOP #7, 97.05.29

- Kei-ichi
- Shu
- Yukihiko
- Kei
- T.

PROPOSED PROTOCOLS, 1

SHOULD EACH KEYSTROKE GO TO BACK END? (Would it help Emacs?) 3

SHOULD OPLISTS BE POOLED, OR SEPARATE FOR EACH DOCUMENT? 4

THE PROBLEM OF RECURSIVE BACKTRACK TO REBUILD 5

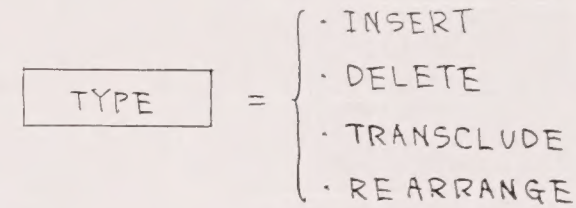
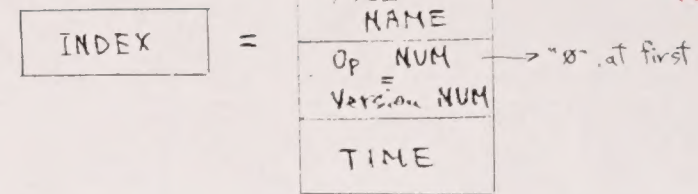
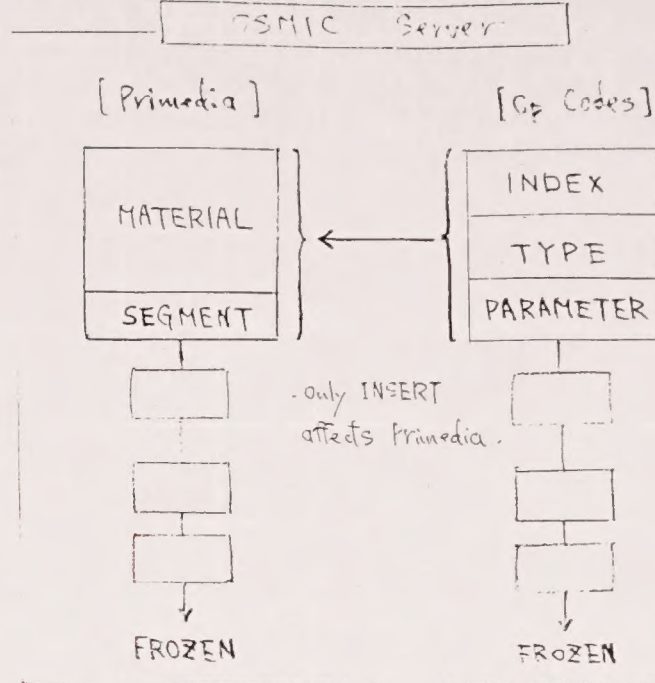
Therefore save each transaction list 6

'Generalized rearrange' doesn't work 7
Although 1-delimiter & 2-delimiter cases are unambiguous, 8.

Ken'ichi's proposed protocol.

Need such protocol.

* Addresses in Primedia is client-server global.

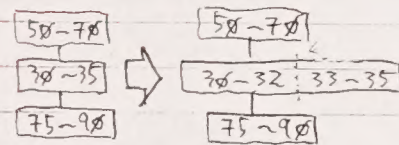


MAY 29 1997

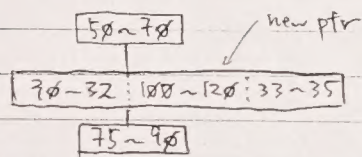
1

OVERVIEW

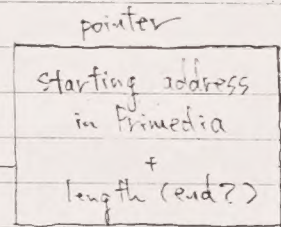
1. Select "INSERT"



2. Input string



3. String appears



4. Select "END"

INSERT DETAILS

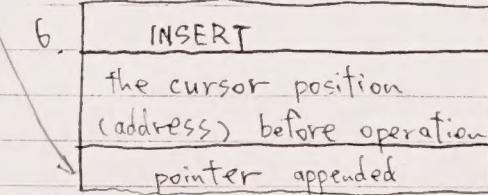
1. Client sends "INSERT" signal to the server

2. Client sends the current cursor position (address) (ex. 32)

3. Client sends string to Primedia

4. Primedia makes a new pointer (ex. 100-120)

5. Primedia returns the new pointer to the client



Saved as a parameter of operation code with incrementing the version number.

DELETE

1. Select "DELETE"

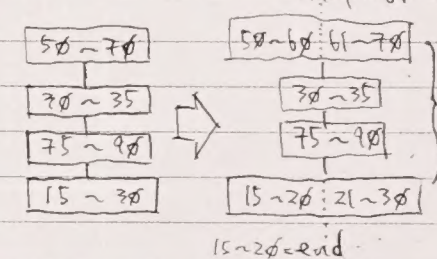
1. Client sends "DELETE" signal to the server

2. Specify the start position

2. Client sends the start address (ex. 61)

3. Specify the end position

3. Client sends the start = 61-70 end address (ex. 30) information



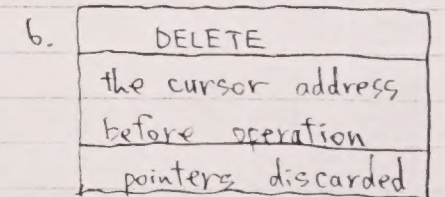
4. Client sends the pointers between start-end (ex. 61-70 + 30-35 + 75-90 + 15-20)

4. Select "done"

5. Remove the start-end pointers in VV and send the new VV to the client (ex. 50-60 + 21-30)

5. String disappears

6. Select "END"



Saved as a parameter with incrementing the version number.

ALTERNATIVE METHOD (less efficient) = increment or decrement pointer with each keystroke.

The client recognizes end of instruction and sends END code (allow definition of new instructions and new ends)

How will ENTER REQUEST ??

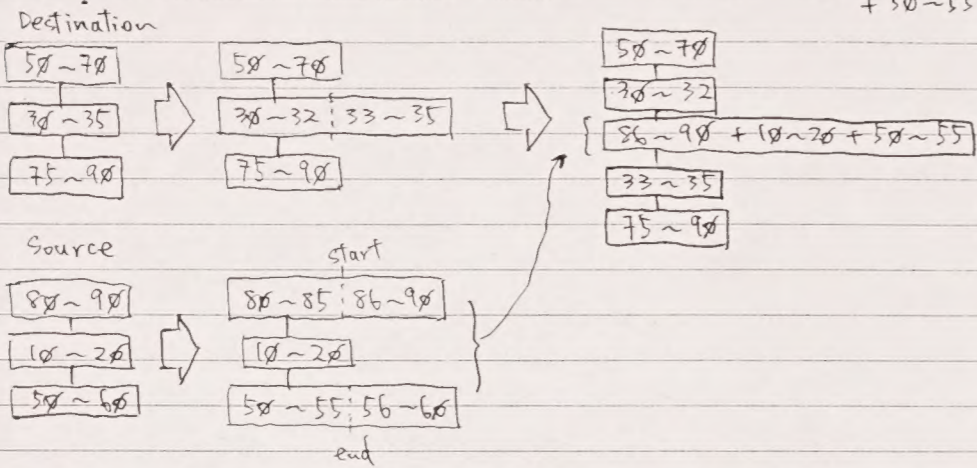
LET'S DO IT CHARACTER-BY-CHARACTER AT FIRST, IN ORDER TO SIMPLIFY FRONT END.

TRANSCLUDE

1. Select "TRANSCLUDE" → 1. Client sends "TRANSCLUDE" signal

2. Specify the start position → 2. Client send the address in the destination VV (ex. 32)

3. Specify the start-end → 3. Pointers are inserted in the source VV (Primedia or other VV) in the destination VV (ex. 86~90 + 10~20 + 50~55)



4. Transcluded document appears ← 4. Server sends a new VV list to the client

5. Select "END" → 5.

TRANSCLUDE
the cursor address before operation
pointers transcluded

 saved in the same way

REARRANGE

MAY 29 1997

2

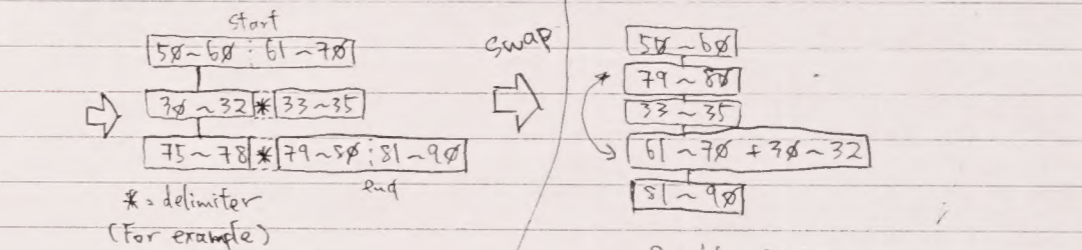
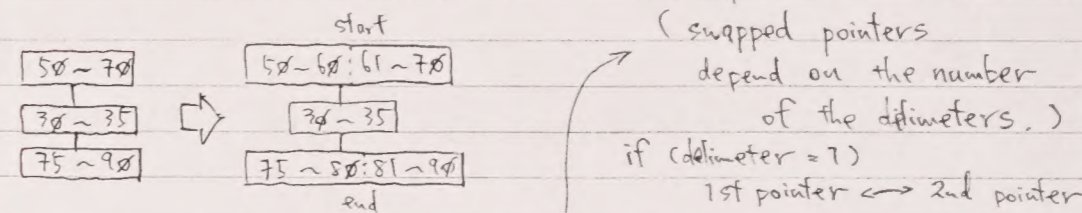
1. Select "REARRANGE" → 1. Client sends "REARRANGE" signal

2. Specify the start address → 2. sends the address (ex. 61)

3. Specify the end address → 3. sends the address (ex. 90)

4. Specify the dilimeter number & swap the pointers and address → splitted

Each arriving delimiter probably splits pointer.



if (delimiter = 1)
1st pointer ↔ 2nd pointer

if (delimiter = 2)
1st ↔ 3rd

if (delimiter = 3)
1st ↔ 4th 2nd ↔ 3rd

...

5. Select "done"

6. Rearranged document appears ← 5. Send a new VV to the client

7. select "END" → 6.

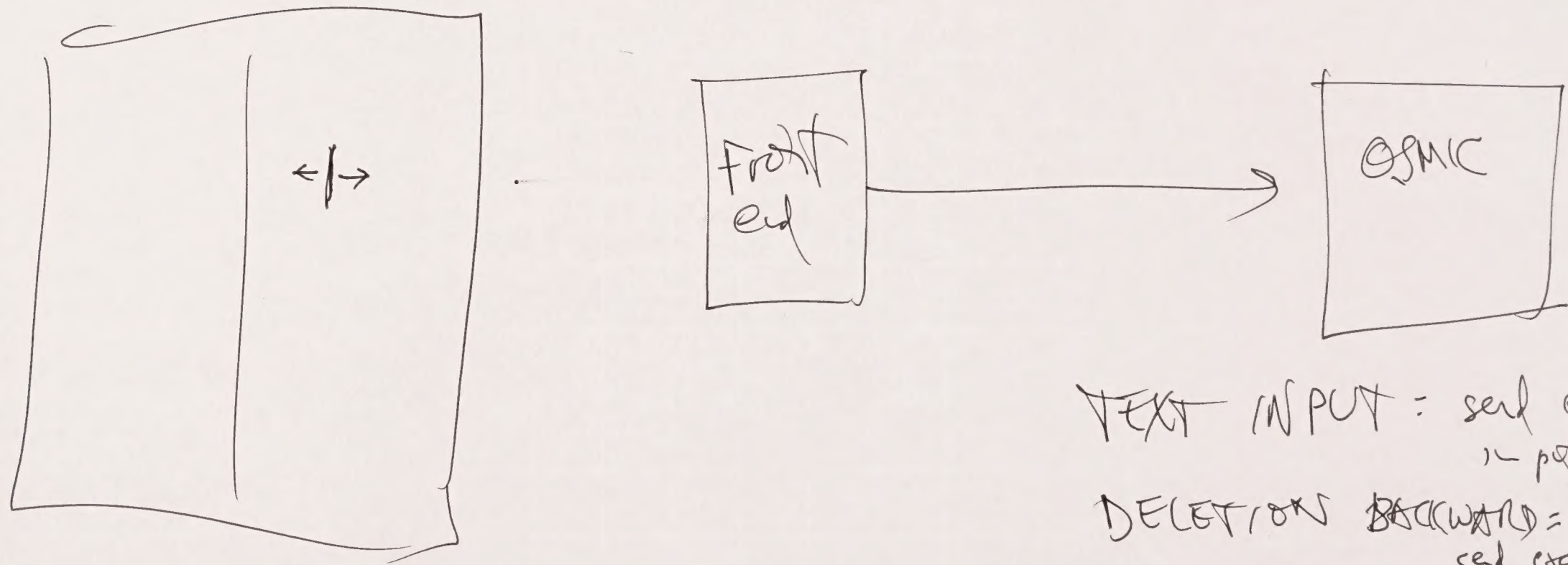
REARRANGE
the start address
pointers before rearranged

saved in the same way



FOR REFRESH AT EMACS LEVEL,

it could be easier to send something
~~each~~ for each keystroke (in insert, delete
& transclude)



TEXT INPUT = send every
 1 - put character

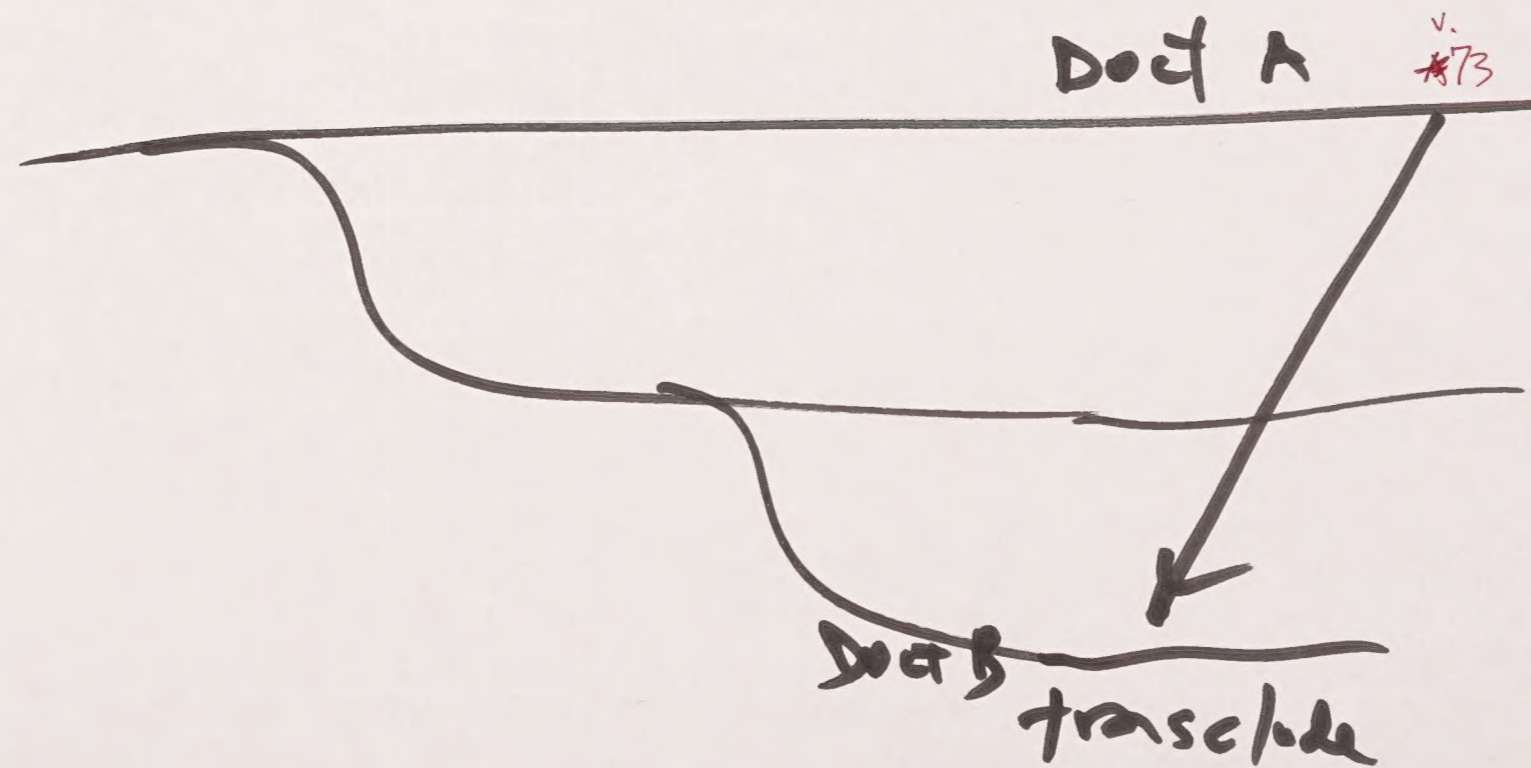
DELETIONS BACKWARD =
 send each backspace
 OR THE RESULT?

POOLED OPERATIONS VERSUS
SEPARATE OPLIST FOR EACH DOCT.



Prob. best idea

BUT

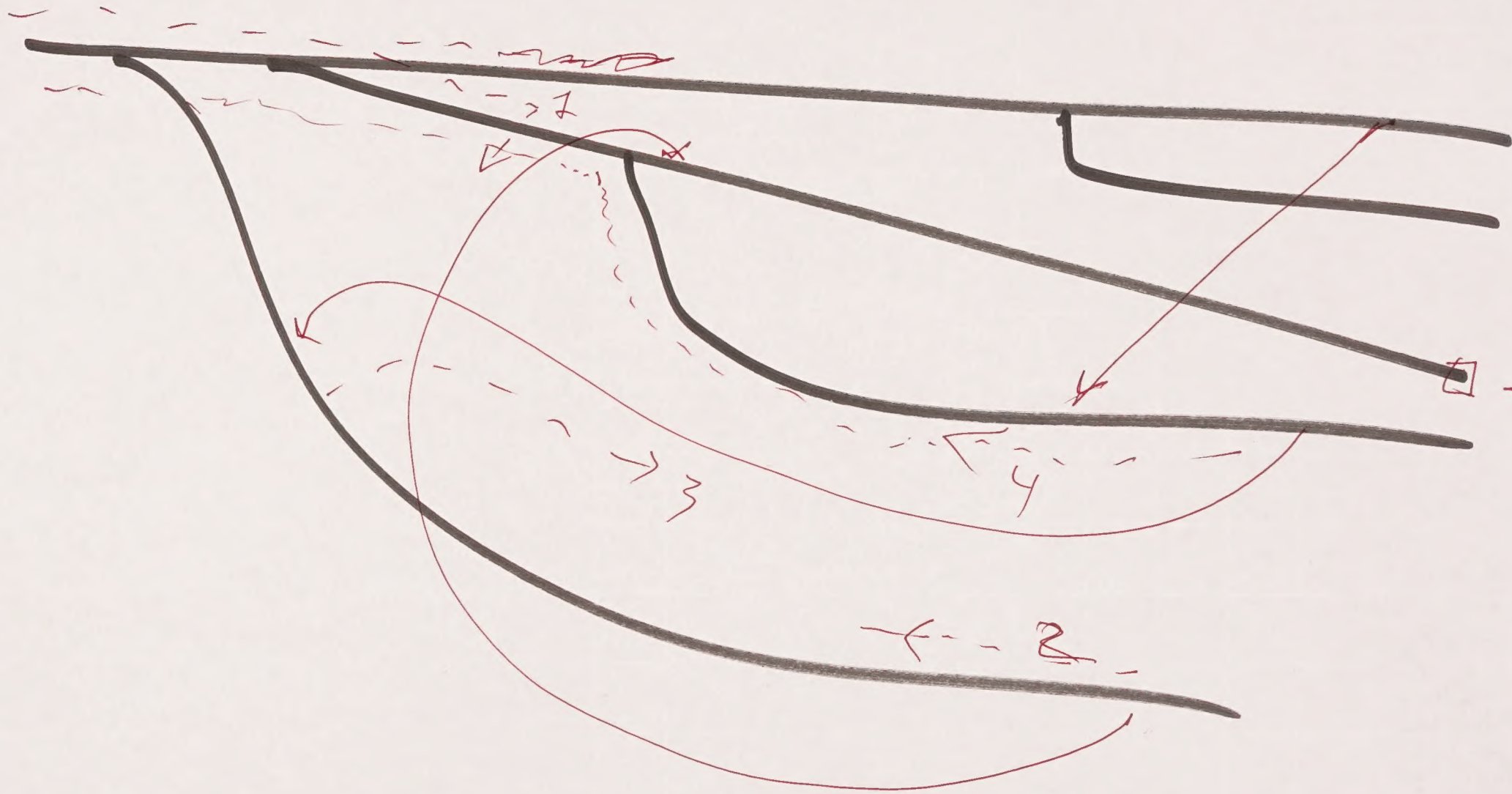


If there's no virtual version for 73 it has to REBUILD A in order to make B!



MAY 29 1997

5



If you have
to rebuild
THIS
you have
to follow
this
whole
series

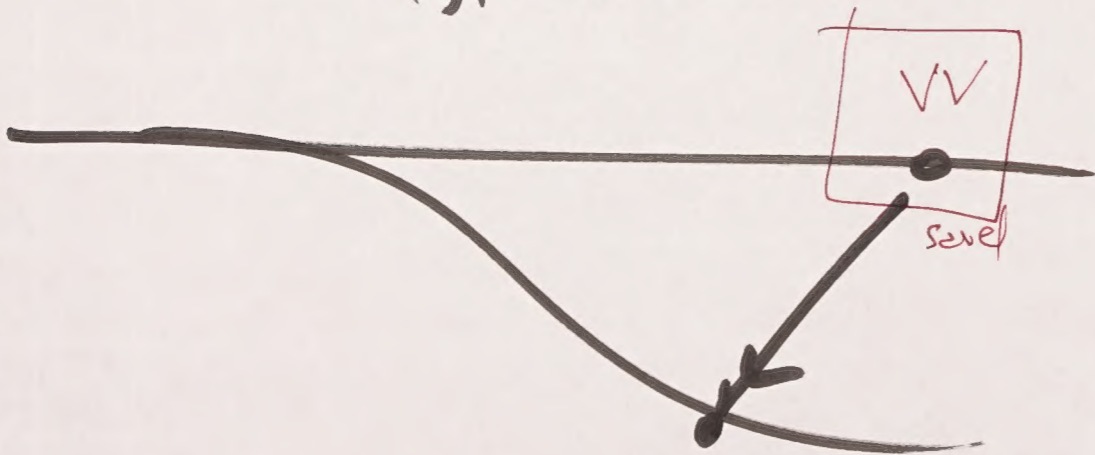
If printed
pages
are not saved
with
Transclude
operation

THEREFORE

A transclude operation should SAVE
with opcode
THE LIST WHICH IS TRANSCLUDED.

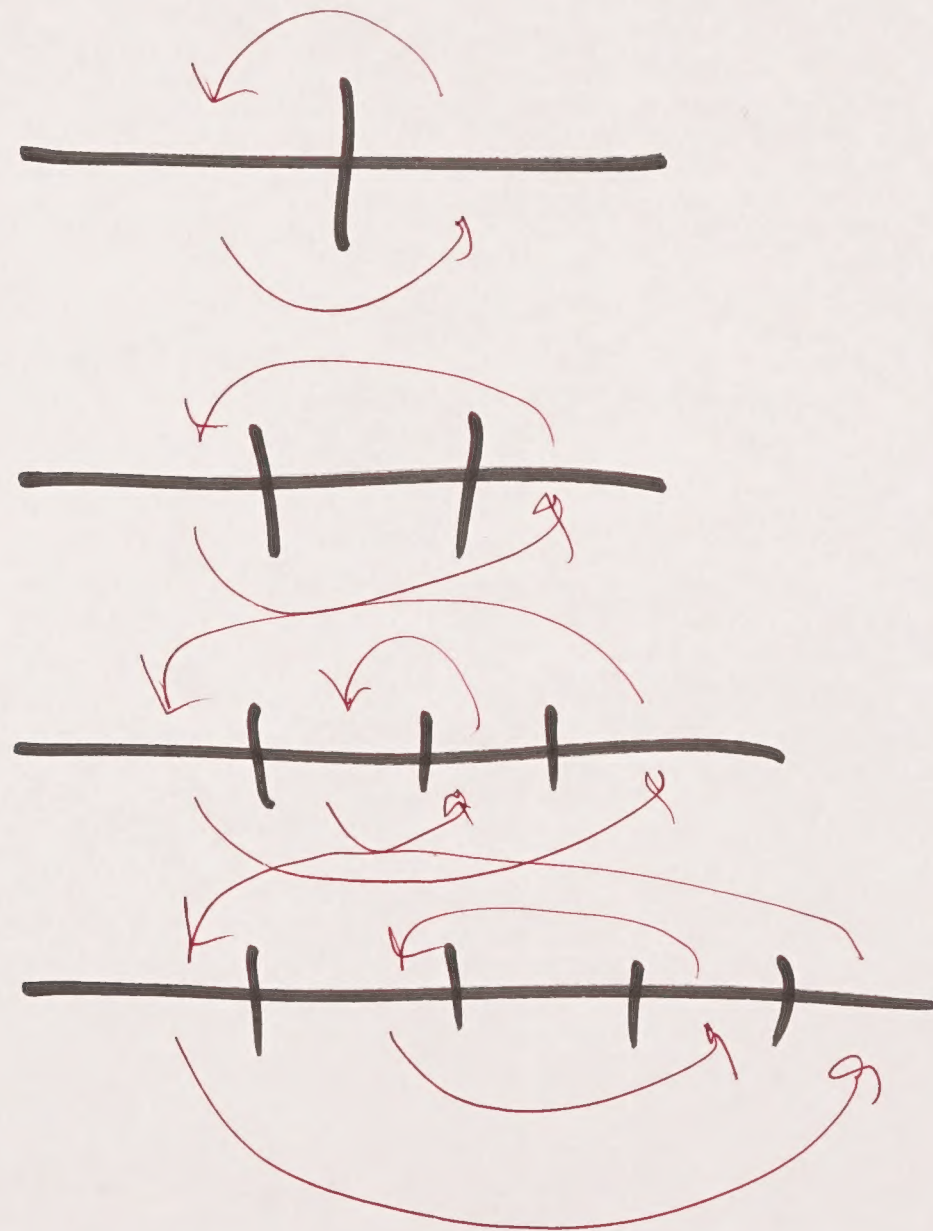
↳ ALLOWING EVERY DOCUMENT
TO BE REBUILT INDEPENDENTLY.

Alternative: save the VV
for every transclude origin
(about the equivalent in
space usage)





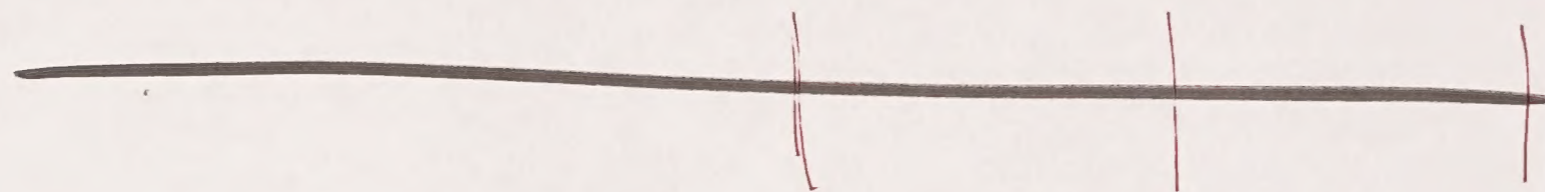
"Generalized rearrange" is incorrect.



User does not ordinarily want
end centers to rearrange.

Therefore delimiters at ends
are needed to specify
swaps of outside pieces.

So you need at least 3 delimiters.



No: if you only have 1 or 2,
AND order is rearrange,
IT'S UNAMBIGUOUS.

Frequent
type
of operatin.

