

XCOMS O

XCOMS

Xantho Cumulative Specs.

Started 27/8 August 1970

to kettle drum music in Stony Brook, NY.

1-17

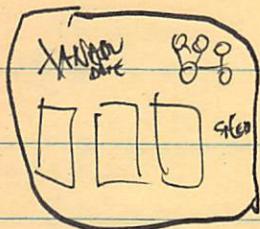
Kettle drum sect. on, 27/8 Aug 70.
Present: Nelson, Klugman, King, Serrao

18

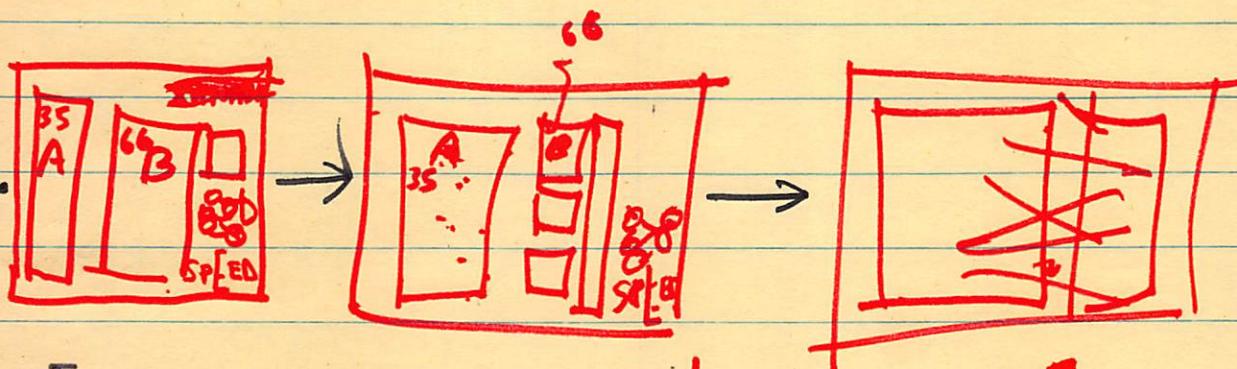
Magnificent, if vague, unflying strategy.
Present? Nelson(?)

XCOMS 1
27/8 Ag 70

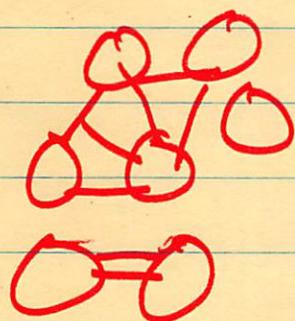
10- 10



Novel

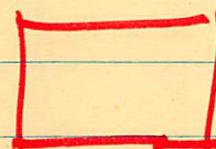


F
S P E D
R

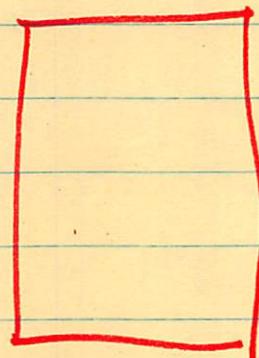


duty

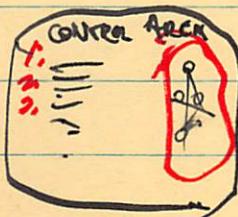
targets
how links out of picture.



PILLOW

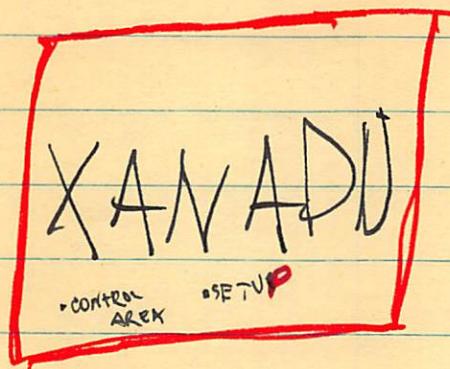


BED

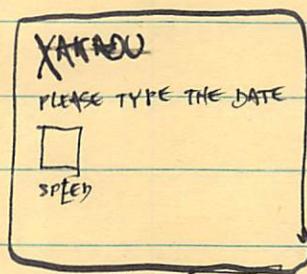


2

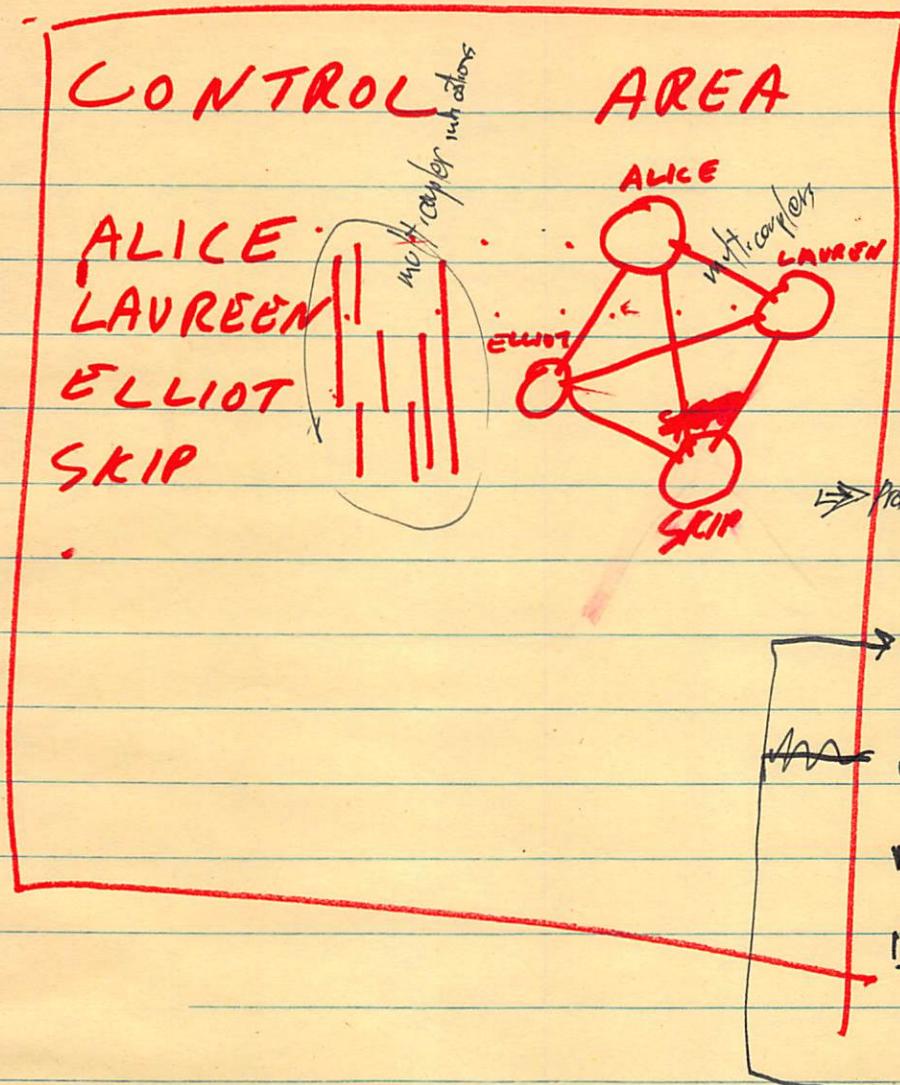
XCVMSZ



PRIMVAL SETUP



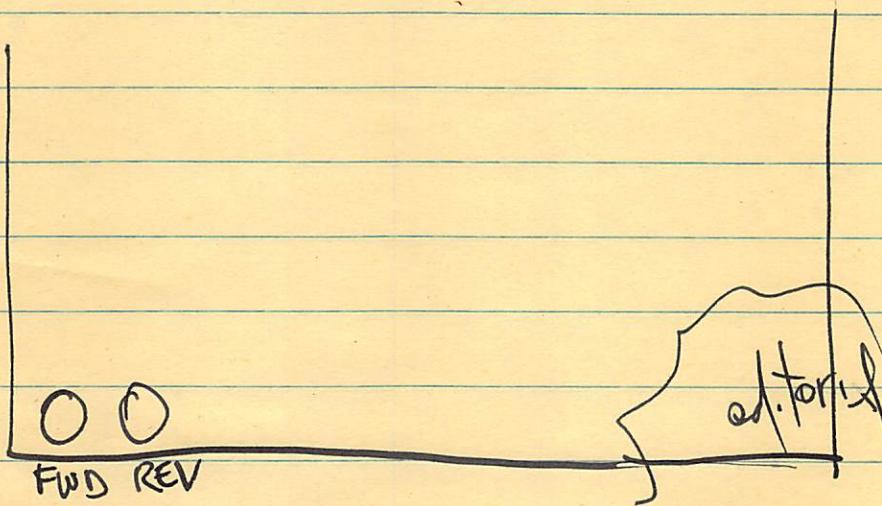
1. type The date
2. move anything



MULTICOUPLED FILES
MIGHT BE INDICATED BY
LINKS IN THEIR NAME LIST.
↳ Possibly multicoupled files will appear
when the file is selected.
TO MAKE A FILE BALL
DIAGRAM:

- POINT AT FILE NAME.
BALL APPEARS
UNDER PEN
- USER MOVES BALL
ANYWHERE.
- NEXT FILE SELECTED
SHOWS NEW BALL;
- IF COUPLED TO A
PREVIOUS BALL,
LINE TO THAT BALL
IS AUTOMATICALLY
SHOWN.
- ~~BALL IS PLACED BY LIGHT
PEN IN DIAPHRAGM.~~

BUTTONS



MORE BUTTONS:

'NEXT SETUP'

MAKE SETUP

DIM through five degrees, to disappearance.

Each disappeared they leaves visible residue.

Panel: two dots

* READY [Elliot's suggestion for permanently off act.]
TYPE SIZE

USER COMMANDS

SELECT PANEL: point at edge or interior
~~then~~ to specify a) which panel moves
 and/or b) which panel will change content

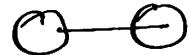
SELECT FILE: point at labelled file ball.

MAY DO IT MORE THAN ONCE FOR
 INTERLEAVED FILES.

END FILE SELECT: hit panel again.



TO GET LINKS: hit line between file balls



CHANGE COMMANDS

ADD (insert)

REMOVE (delete)

MOVE (rearrange)

REPLACE (substitute)

DUPPLICATE (copy)

TRANSFER [copy] from one file to another, will automatic link]

Approaches:

Menu

Button-Box

Editing pattern, e.g.

single or mult. steps:
e.g., 'move' ← INS + DEL

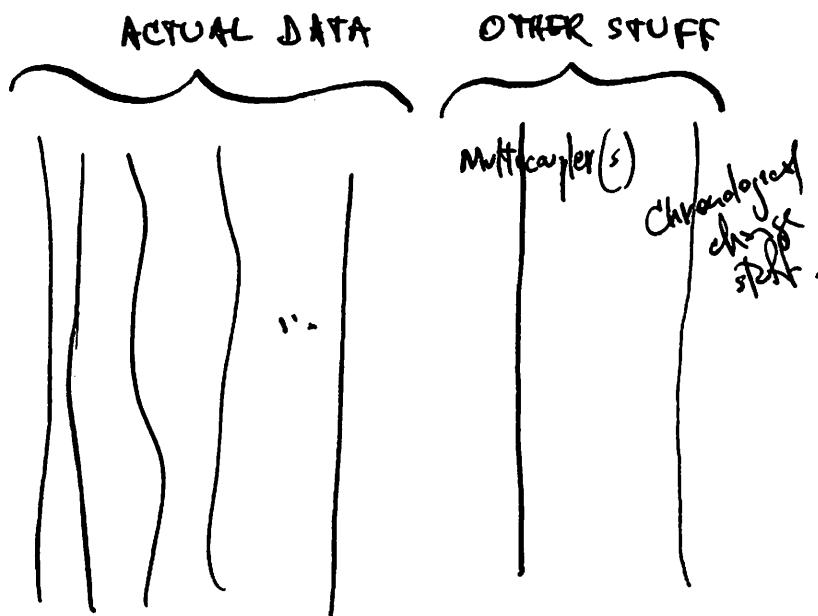


CHANGE COMMANDS ARE STORED SEQUENTIALLY.

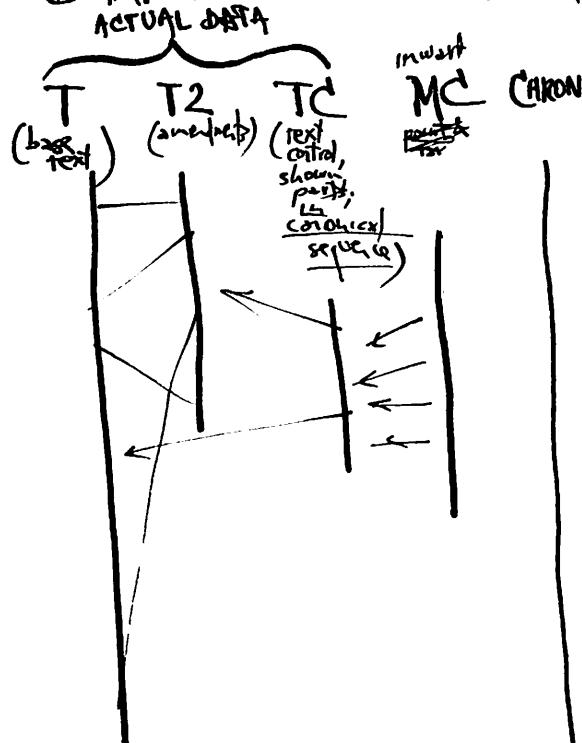
Note: if text moves, it should first move under light pen.
[e.g. MOVE or COPY].

XANADU FILE consists of n parallel streams, slightly fucked up.

There are two types.



EXAMPLE. The enriched text case.

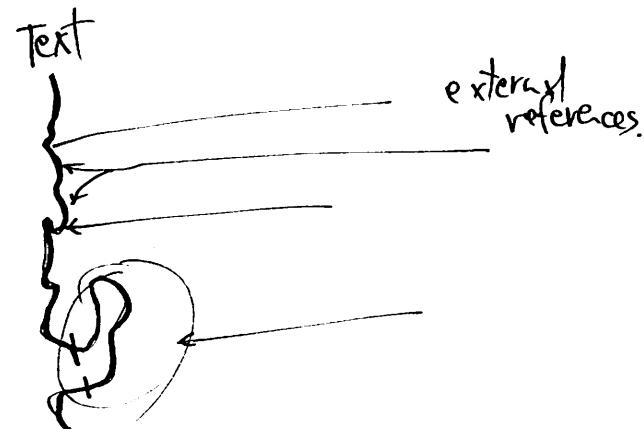


WHAT IS TEXT?

Some say corflakes.
(characters in a row.)

Some say measures.
(symbol structures representing context.)

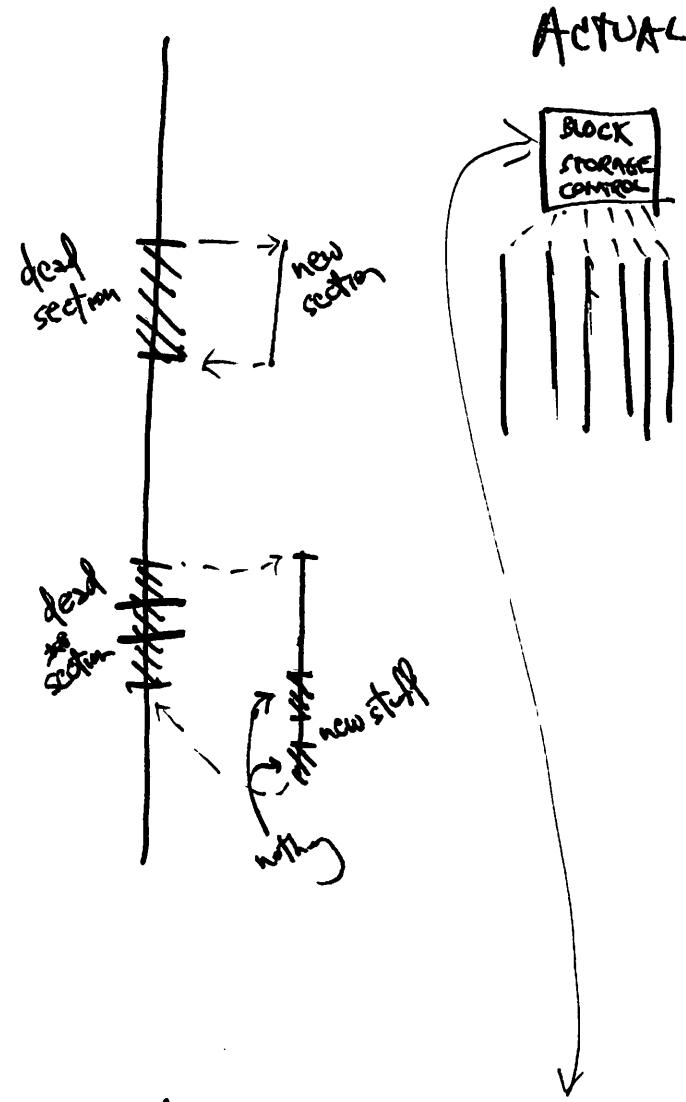
Some say
+ say sequenced structures
having externally referenced parts.



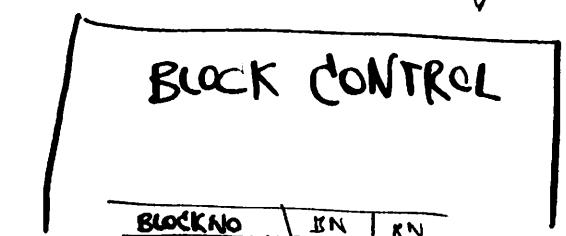
TRUE STREAM



STORAGE STREAM



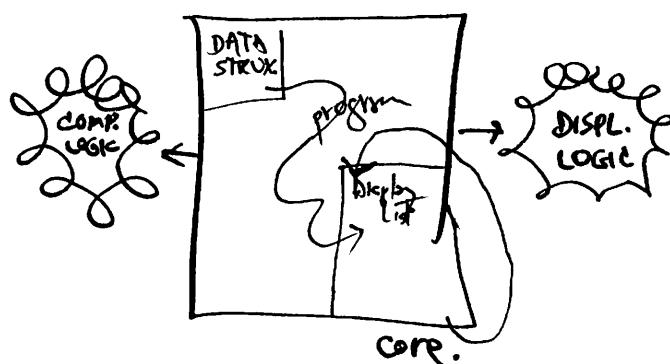
ACTUAL



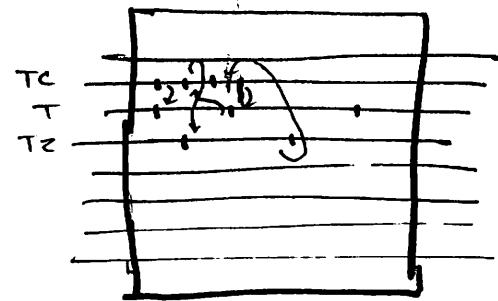
changes when blocks are changed in storage stream

~~DATA STRUCTURE~~ DYNAMIC DISPLAY }
 etc.
 1110M
 2250

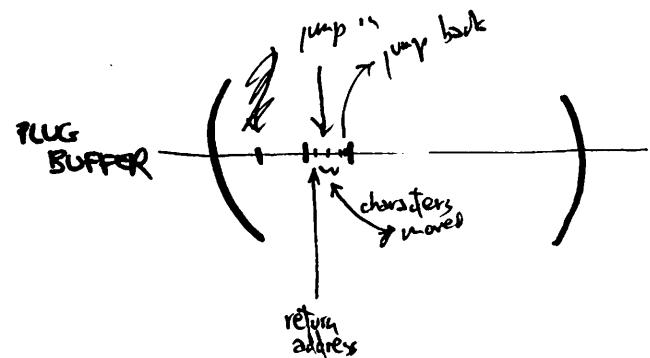
CONVENTIONAL METHOD



XANADU METHOD

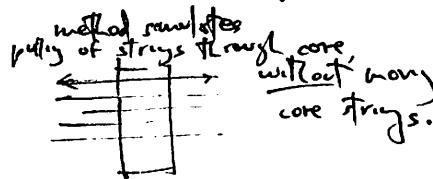


→ 0010
 0101
 :
JUMP



PLUG BUFFER IS A STREAM

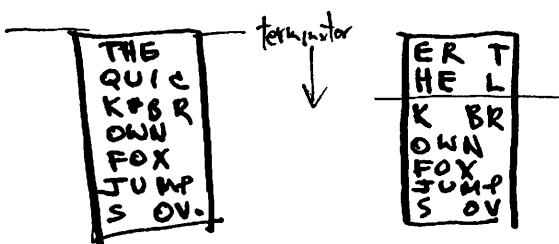
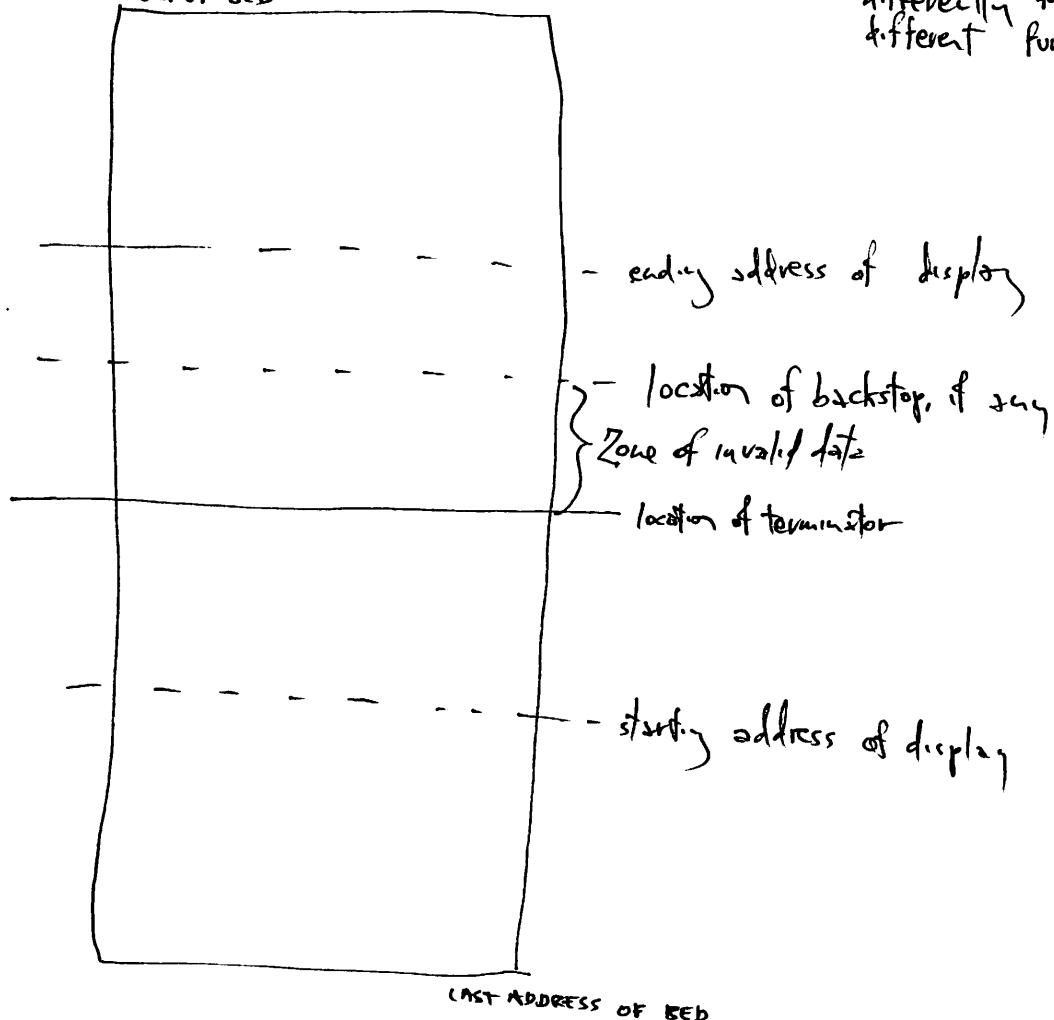
BFD & PABBUNG IN BFD.



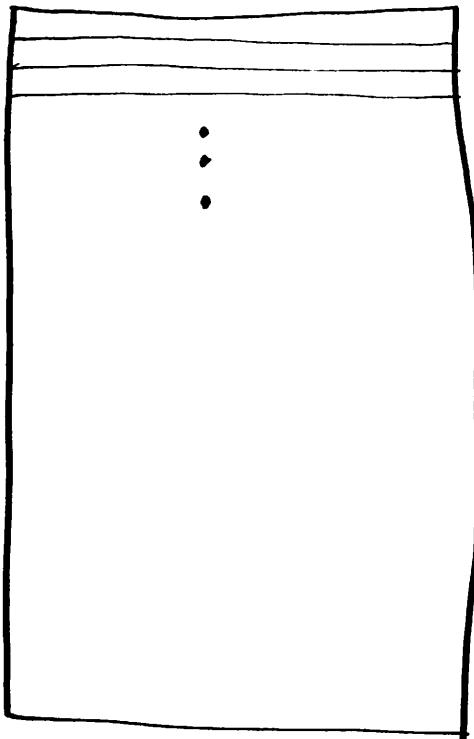
stream
part of stream
on core } part of stream
in core

core location
for section of stream
is \geq len.
Size is fixed
differently for
different functions.

STARTING ADDR. OF BFD



THE PILLOW. Preference for 16 words. Bit-packing no doubt essential.
fixed-length control table
 shown; status of a bed.



TO INCLUDE:

Starting location of bed
 End " "
 &/or length of bed.

PRESENT LOCATION OF TERMINATOR

[prob. first or last word]

" " " BACKSTOP

& Beginning of displayed area
 & ~~begin~~ End " " "

BED NOS. OF OTHER STREAMS IN FILE.

E.g. type of stream, e.g. Text Control
 Bed no.

★ REFERENT STREAM POSITION

★ LOCATION THEREOF

e.g., "Stream 10796 → Bed pos. 24"

ITEM LENGTH IN THIS STREAM

ADDRESS CRUNCH:

Given stream address,
 relate to
 referent stream position,
 location thereof,
~~bed location~~,
 terminatior position,
 bed length

RETURN: THIS STREAM ITEM IS IN CORE AT ____;
 IT IS NOT IN CORE (IT'S TOO HIGH/TOO LOW).

CORE

~~CORE~~

file/
stream-in-core table

Activity push stream (sets up etc.)

Layout Control: panel specifiers, control location specifiers (BUBBLES OUT)

↓ derive

Layout Display Buffer: panel display, speed control position & set., file ball list, brightness values
 (Actual
Display Code)

F1 {

F2 {

F3 {

⋮

P1 flow 1
P2
P3
⋮

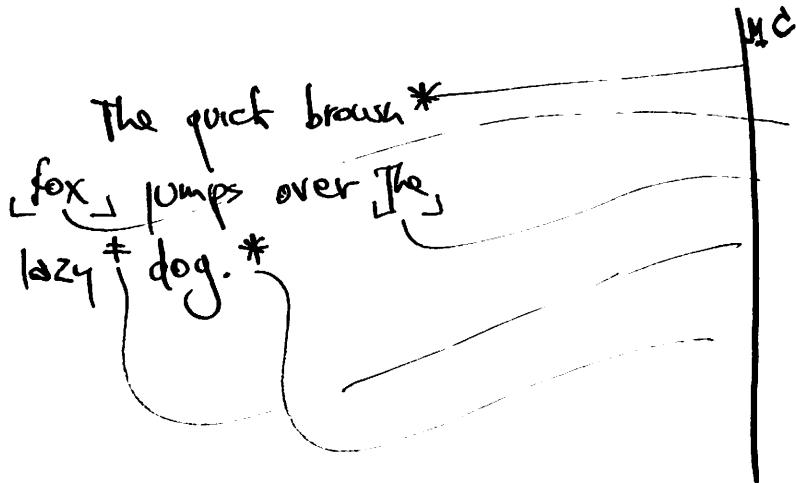
PROGRAM (may bubble some of t.)

PLUG BUFFER (plugs from display list)

TAPE BUFFER [simulation of true bubble.]

Note: some bed-sorts need to be overlaid for historical retrace.

MULTICOUPLER points to points and ~~strings~~ (strings).



They may be assigned
to model types
[as here, *, #,].

Whatever happens to the original, the multicoupler keeps pointing to the ^{"same"} (succeeding) position.

The quick brown* dog jumps over the lazy# fox.*

What to do in weird cases? E.g.,

The star spangled banner → The ^{and crest} star spangled banner

FLAG THE USER, SO INFORM HIM.

The link can be split, passed to only half, etc.

SEPARATE LINK MODES SHD. HAVE NEATLY-DEFINED CONSEQUENCES!

MULTICOUPLER CAN WORK IN TERMS OF

- ¶ TRUE STREAM ADDRESSES
 - ¶ RELATIVE STR. ADDRESSES IN T, TL + BASE ADDRESSING
IN CONTROL BLOCK
 - ¶ " " " IN TC
- etc.

One problem: on a ~~split~~ field, how retain the link to two items where it had been one (in same MC stream position)?

HISTORICALS.

We distinguish: CURRENT file (updated to perfection in streams)
 PREVIOUS DRAFT (or null draft before work began)

BRUTE FORCE METHOD: to go back in time, undo the chronological tree one at a time,
 rolling the streams back and forth like well,
 OR go back to prev. draft & work forward.

KUHN METHOD: create list of pointers into it, II, etc.,
ASSEMBLE each with a chronological range during
 which its string is unbroken.

ASSEMBLE.

HYBRID METHOD: Save changes but not Kuhn list.
 To backtrack, use a Kuhn list, assemble.

ADVANTAGES:

1. Don't have to actually carry out edit. ops on streams.
2. Material is stored as dictated by other Xodus methods, then symbolically rearranged.
3. Need only assemble part you're looking at.
4. Possible to noodle back and forth around the time-range selected with comparative ease (since each piece has 2 valid time-ranges specified).

Note: "TIME" is not the variable. We have a evolving tree that can branch retroactively.



MULTICOUPLING PLUS HISTORICALS.

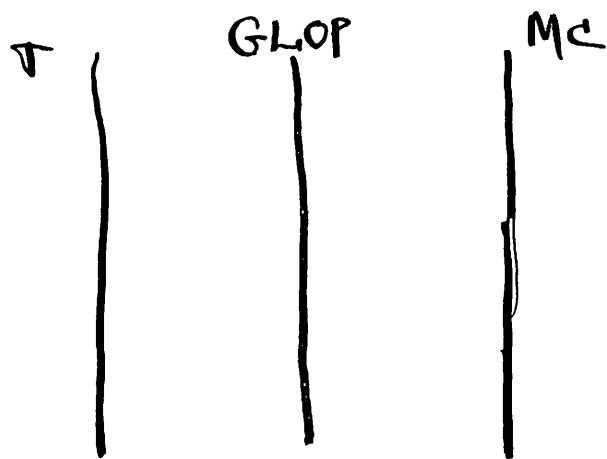
"If the multicopler can be made ^{neat} enough,
copying with historicals should be
no problem."

—Gen. Custer

XCOMS 17
28 Aug 70

HUGE BREAKTHROUGH!!!

Can not the file be three streams.



of: Glop stream contains, subsumes and superrogates the functions
of:
T2,
TC
TM [virtually obsolete anyway]
MC Amendments.

SECRETS OF THE GLOP STREAM:

Back-chaining of glop entries

permits their obsolescence to be ascertained.

Glop Stream can thus be compacted, revised,
repacked, stored and biffed freely.