FROM:

R. Fenichel

SUBJ:

Legacy of Fenichel

1. Inter Console Communication

RFLXC8

PMTAF1

TCORB8

LGAB8F

are special modules for this. The arrays OKPROG and OKPROB have been kludged into lower core; they should be lifted into common.

2. SQZALL

SQZALL uses Wolman's SQZBCD to replace multi-track FAP and MAD files with FAPSQZ and MADSQZ equivalents. To squeeze all your FAP and MAD files, type

RESUME SQUALL

3. UPDSYS

UPDSYS is a routine mainly designed for reassembling the whole system, as specified by a given CTSSLD file. See UPDSYS notes for further information.

4. TEST INFO

This file describes the testing programs for the inter console and interprogram packages.

5. SPY

To X-RAY the system, type

RESUME SPY

To cause the console with logical user number N to become a slave of logical user number M, type

RESUME SPY M N

6. MERGE

MERGE & BYS C1 C2 C3 ... Cn

Herges files $V\beta$ and $\delta\beta$ into file $\alpha\beta$. $\lambda\beta$ is the correction file, so that in case of duplicate lines in λ and δ , the one from λ is taken.

Cl, C2, ... are specifications of deletions: Each argument is a line number or 'THRU'.

- 1. If & is '*', it is taken to be empty.
- 7. If S is omitted, it is taken to be A.
- 3. If it is intended to delete all lines of δ from nmnnn to the end, the command may be written

Merge LB T6 . . . nnnnn thru

Flowchart of MERGE:

SET	THRUBX	ZERO	[NOT DELETING THRU R]
SET	DLET	n ∮ n− zero	[CORRECTIONS COMING]
SET	MERGE	nøn-zero	[GAMMA COMING]
START	AT FIRST	ARGUMENT	

GET ARGUMENT. IF FENCE, ERROR ARGUMENT IS

GET ARGUMENT. IF FENCE, ERROR

IF *, SET MERGE 0

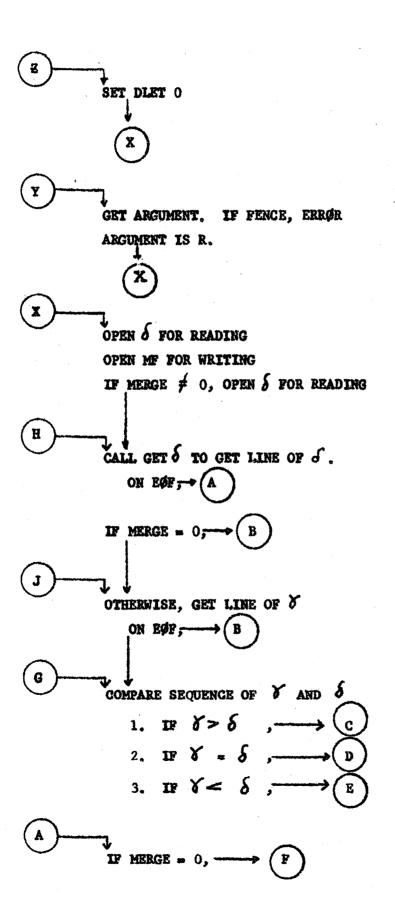
OTHERWISE, ARGUMENT IS 8

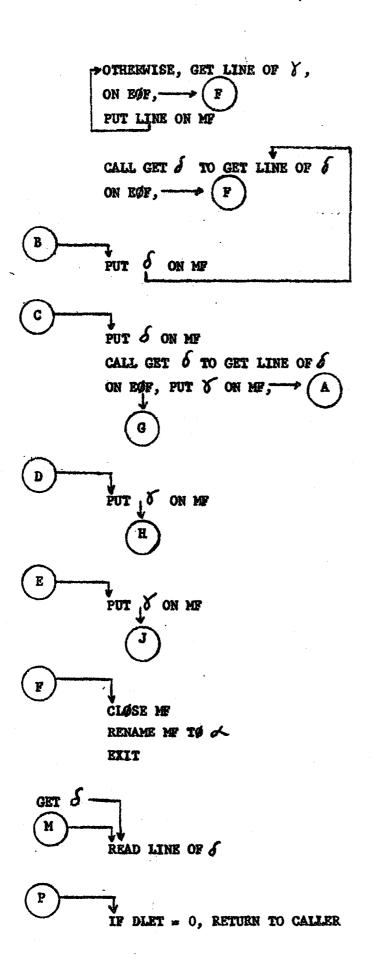
GET ARGUMENT. IF FENCE, —> 2

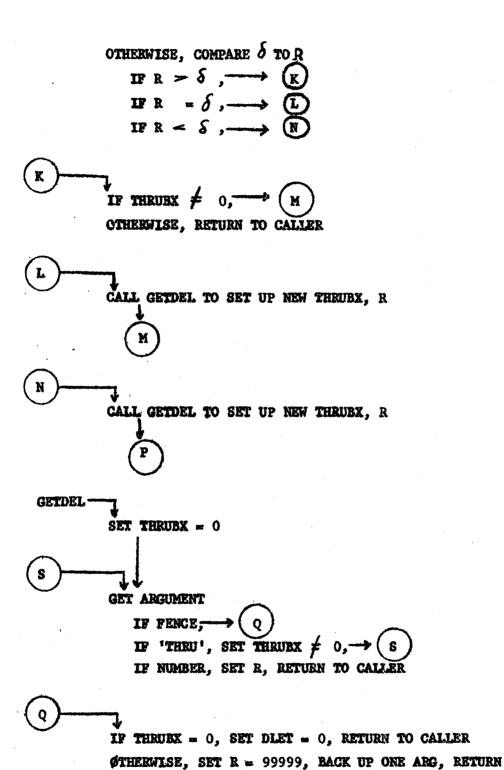
IF NUMERICAL, ARGUMENT IS R

IF THRU, SET THRUBK NON-ZERO, —> Y

OTHERWISE, ARGUMENT IS







7. **FIB**

FIB with the new I/G System

- 1. General-Purpose Facilities Needed
- A) SAVE command which preserves activity of temporary files, common file status, etc. Possibly save should generate a file which is closer to a runcom file [of comfil commands, etc.] than to a core image.
 - B) RESTOR to suit
- C) A command to channel all <u>WRFIXed</u> lines into a designated file, rather than to the T/W.
 - D) A command to undo the work of C)
- E) A command to associate a symbol with the command's line in a RUNCOM file.
- F) A command to skip forward in a RUNCOM to a specified symiol, after a specified amount of time.

: Special Purpose Facilities Needed

A) SETFIB A

A command to put RUNCOM file A onto the FIB queue.

In response to this command, the supervisor will tell the user what FIB number has been assigned to the specified job.

B) GETFIB FIBN

To retrieve a FIB job. In response to this command, the user will be asked to accept, one by one, the files created by the job specified. A saved file, preserving the final machine conditions of the job, will be among these.

- C) DELFIB FIBN
 - To delete a FIB job from the queue.
- D) FIBSTT

To determine the status of jobs submitted by the user.

E) LØSPLC

To go to the end of the queue (Command only for use by FIB jobs).

3, STRATEGY

When a FIB job is received, a fictitious U.F.D. is created, composed wholly of linkages to the files of the user submitting the Job.

When the job comes to the head of the queue, the fictitious user, having the same probe as the real user, is logged in on the real user's time. The fictitious user runs like a real user except that

- (1) calls to WRFLK, unless shunted into a file by the facilities proposed above, are ignored.
- (2) going dead, going dormant, calling RDFLK, or any other wait results in the termination of the job.