COMPUTATION CENTER
Massachusetts Institute of Technology
Cambridge 39, Massachusetts

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TO: All Programmers

FROM: The Consulting Staff

SUBJECT: Computation Center Version of FAP, the FORTRAN Assembly
         Program

The Center's operations impose certain restrictions and
conventions on the use of FAP. In some cases these conflict with
the usage described in the FAP Reference Manual.

I. General

   A. All FAP main subprograms must begin with a CALL .SETUP
       so that proper entries will be established for those
       routines which might cause a trap (FPT), (F2PM), and
       MITMR. See CC-167, CC-193, and one page write-up on
       (FPT).

   B. The "Standard Error Procedure" is in use at the
       Center so that all CALL statements will assemble
       into

                    TSX   subroutine, 4
                           argument list
                             .
                             .
                             .
                    TXI   *+2,,0
                    PZE

       Calling ERRØR in a subprogram will result in a
       printed trace-back to the main subprogram. See
       description in Reference Manual.

II. Control Cards

A. The following control cards should not be used.

   1. PACK

   2. CARDS COLUMN *(does work)*

III. Pseudo-Operations

A. Only tapes 9, 11, and 12 should be used with UPDATE. UPDATE tapes should not be written in blocked format.

B. ENTRY with a variable field of 0 (zero) should not be used.

C. NUMBER has been expanded so that a second subfield giving the increment of reserialization may be included. If not present, it is assumed to be one.

D. DELETE THRU cards must be punched with THRU beginning in column 15.

E. IFEOF should not be used.

F. A card with a $ in column 1 is not treated as a comment card.

IV. Macro-definitions

A. Hollerith literals with unmatched parentheses cannot be used in a macro-definition.

B. If the programmer forms an incorrect macro-definition, FAP indicates a machine error rather than the correct programmer error.

V. Instructions

A. The instruction HTR will be flagged with an error if a decrement is included with it.