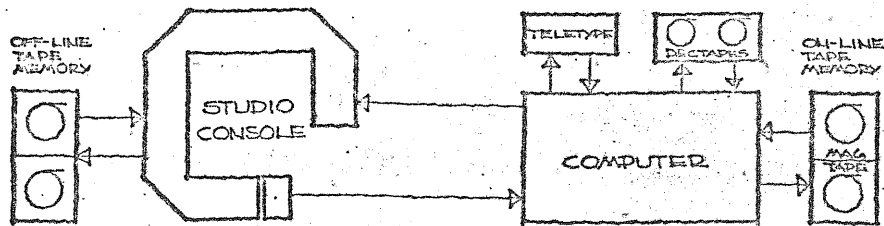


# THE COMPOSER'S VIEW



## MANUAL METHOD

SET CONNECTIONS AND VALUES FOR FREQUENCIES, LEVELS ETC. MANUALLY ON THE STUDIO CONSOLE AND LISTEN DIRECTLY.

A SEQUENCE OF SETTINGS AND TIMING INSTRUCTIONS CAN BE RECORDED ON TO THE OFF-LINE DIGITAL RECORDERS

AND PLAYED BACK.

THE RESULTING SOUND SEQUENCE MIGHT BE A COMPLETE COMPOSITION OR IT MIGHT BE A TEST IN ORDER TO DETERMINE WHICH VALUES TO FEED INTO THE COMPUTER.

## COMPUTER METHODS

A COMPOSITION MAY BE PRESENTED TO THE COMPUTER IN ONE OF THE AVAILABLE LANGUAGES.

CREATE A FILE CONSISTING OF THE SOURCE CODE WITH THE HELP OF THE EDIT PROGRAM OR THE OFF-LINE PAPER PUNCH.

THEN, LET ONE OF THE FOLLOWING PROGRAMS GENERATE CONTROL CODE FOR THE STUDIO

THIS CODE IS RECORDED ON MAGNETIC TAPE AND IS LATER ON PLAYED BACK IN THE STUDIO.

### I EMS 1

A SPECIAL-PURPOSE LANGUAGE WITH SIMPLE TERMS CORRESPONDING TO STUDIO DEVICES AND TERMS FOR EASY ENVELOPE, 'GLISSANDI' AND MOVING SOUND GENERATION. EMS 1 IS INTERACTIVE TO ALLOW

FOR:

- A. ON-LINE ENTERING OF SOURCE TEXT
  - B. SOME FILE CONTROL
  - C. PLAYBACK
- EMS 1 CONTAINS A FAIRLY POWERFUL MACRO FACILITY

### II FORTRAN

EMSDEV IS A SUBROUTINE PACKAGE THAT CORRESPONDS TO THE STUDIO DEVICES

TO GET THE RESULT: COMPILE THE

FORTRAN PROGRAM, EXECUTE IT AND PLAY THE RESULTING STUDIO CODE EITHER WITH A PLAY PROGRAM OR OFF-LINE.

### III EMS 1 + FORTRAN

COMBINES EASY-TO-USE INTERACTIVE EMS 1 WITH UNRESTRICTED POSSIBILITY FORTRAN. THE FORTRAN PROGRAMS ARE EMARLED BY EMS 1 CODE AND ARE

EXECUTED DURING THE STUDIO CODE GENERATION PHASE OF EMS 1.

### IV EXTÉMS

A PROGRAM INTENDED TO CONVERT DENSELY PACKED CODE, GENERATED

AT A FOREIGN COMPUTER INTO STUDIO CODE.

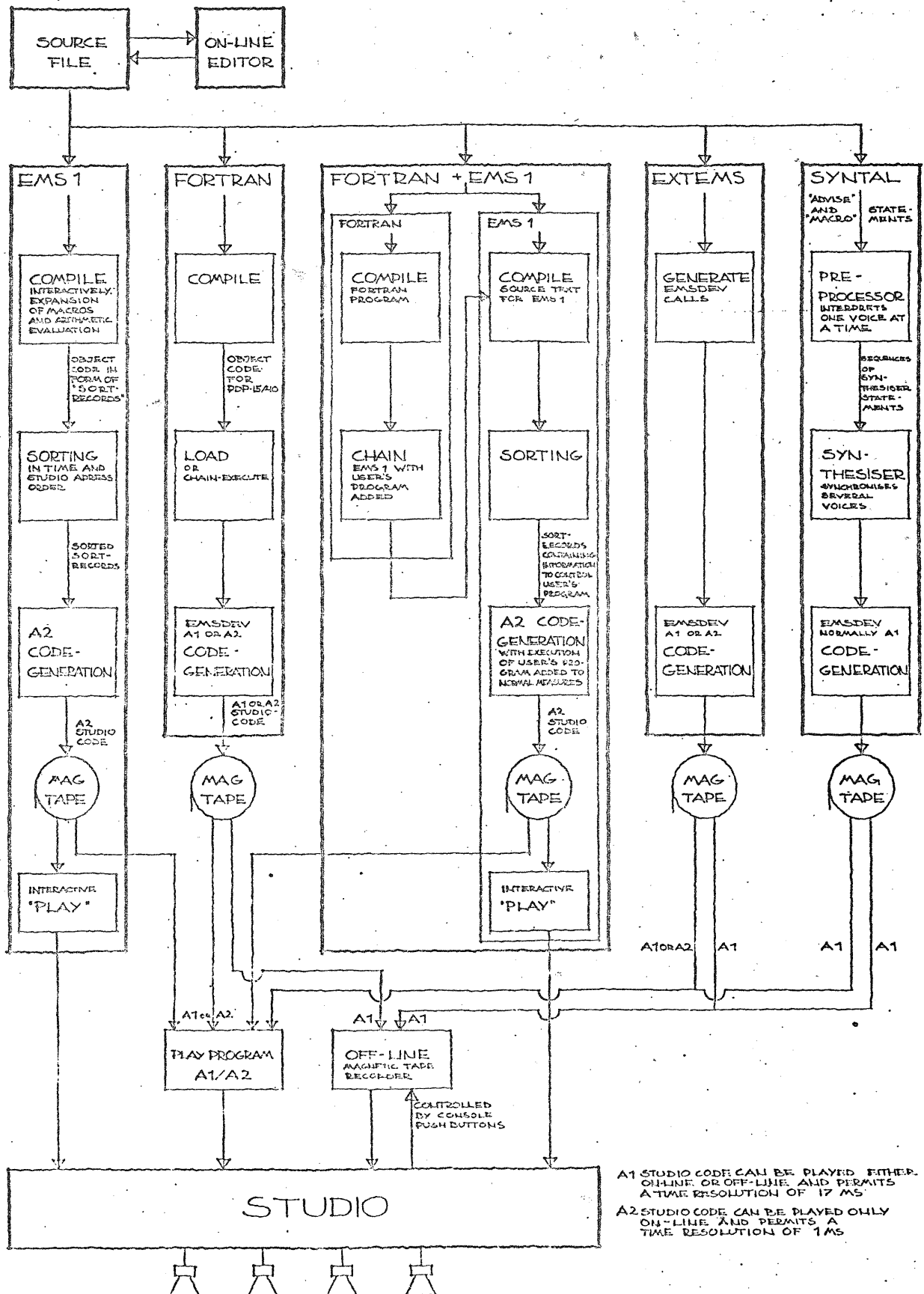
### V SYNTAL

A HIGH-LEVEL LANGUAGE FOR DETERMINISTIC COMPOSITION.

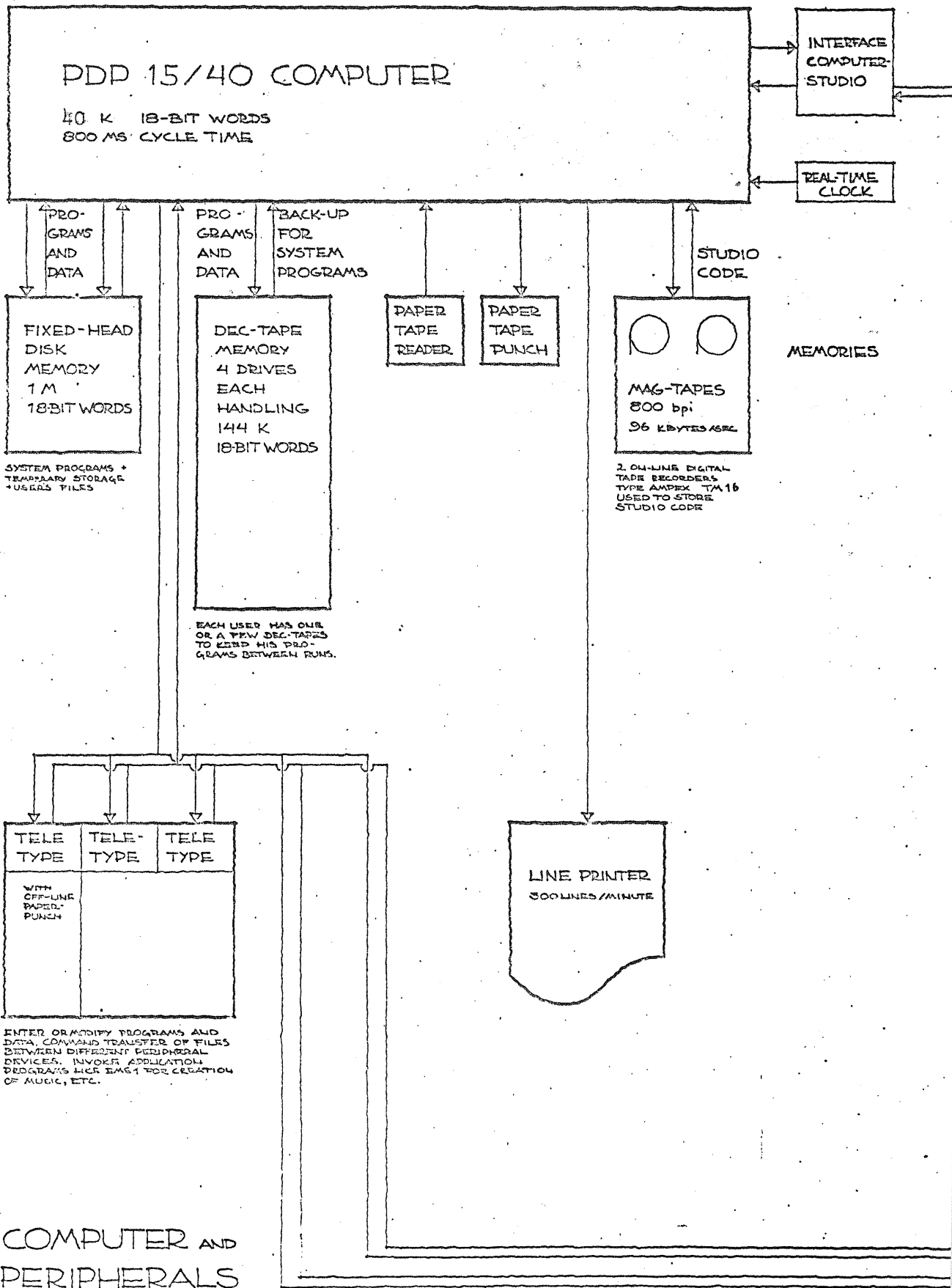
### VI MUSIC BOX

A MESSAGE-ORIENTED HIGH-LEVEL LANGUAGE

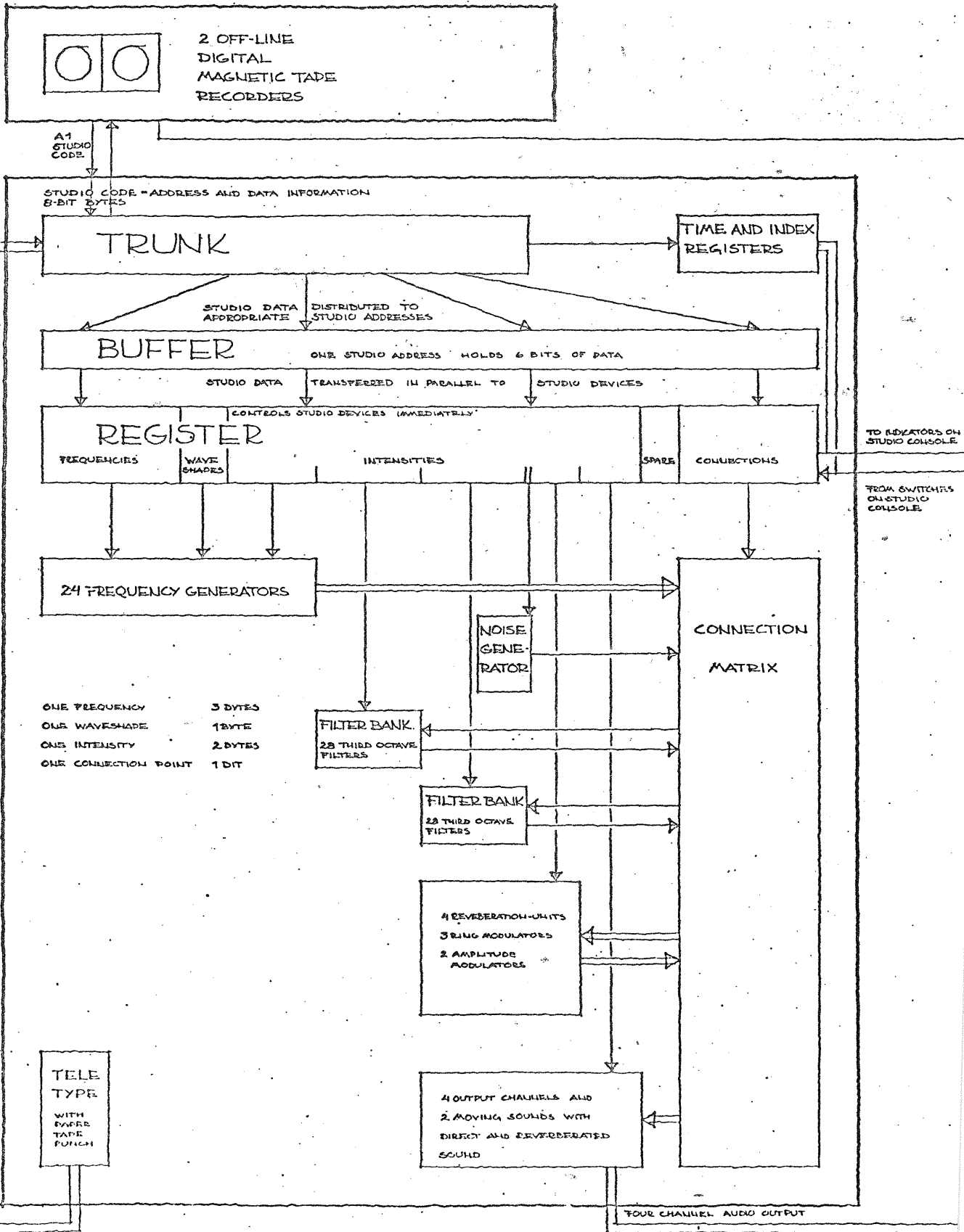
# THE PROGRAMMER'S VIEW



# COMPUTER ROOM



# ELECTRONICS ROOM



# STUDIO ROOM

