

TX-0 COMPUTER
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
CAMBRIDGE 39, MASSACHUSETTS

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M-5001-31

TX-0 SUBROUTINE LIBRARY

SUBROUTINE INDEX

The following pages contain an index to the subroutines currently in the TX-0 subroutine library. The subroutines are classified according to general function, both in the index and the library itself. Also, for convenience in identifying the individual subroutine tapes, each subroutine has been assigned a number consisting of a two-letter prefix identifying the general classification of the subroutine, followed by a two-digit number identifying the individual subroutine. The numbering system is described below.

CONTENTS OF SUBROUTINE LIBRARY:

<u>Function</u>	<u>Number</u>
A. <u>Output Subroutines</u>	
1. Flexowriter Output	OF - XX
2. Scope Output	OS - XX
B. <u>Input Subroutines</u>	
1. Flexowriter Input	IF - XX
2. Scope Input	IS - XX
C. <u>Magnetic Tape Handling Subroutines</u>	MT - XX
D. <u>Programmed Arithmetic</u>	PA - XX
E. <u>Utility Subroutines</u>	US - XX
F. <u>Miscellaneous Subroutines</u>	MS - XX

OUTPUT SUBROUTINES

<u>Subroutine Name</u>	<u>Coded By</u>	<u>Number</u>
1. <u>Flexowriter Output</u>		
Decimal Integer Print Subroutine	R. L. Faber	OF - 01
Decimal Fraction Print Subroutine	H. Morse	OF - 02
Octal Integer Print Subroutine		OF - 03
Print I (Interpretive Routine)	P. Brady	OF - 04
Print II (Interpretive Routine)	P. Brady	OF - 05
2. <u>Scope Output</u>		
Grid Plotting Macro	H. Morse	OS - 01
$A+B = (x_A + x_B) + (Y_A + Y_B)$	J. Ward	OS - 02

INPUT ROUTINES

1. <u>Flexowriter Input</u>		
Numerical to Binary Conversion	H. Morse	IF - 01
2. <u>Scope Input</u>		
Follow the Pen	L. D. Earnest	IS - 01
Gun Follow I	J. Ward	IS - 02

PROGRAMMED ARITHMETIC

<u>Subroutine Name</u>	<u>Coded By</u>	<u>Number</u>
Signed Fraction Divide	H. Morse	PA - 01
Integer Multiply		PA - 02
Multiply Subroutine - Fractions	H. Morse	PA - 03
Integer Multiply (IM)		PA - 04
Double Length Multiply Subroutine	H. Morse	PA - 05
Floating Subroutines		PA - 06
Float (Interpretive Routine)		PA - 07

UTILITY SUBROUTINES

Flitloader Punch	US - 01
Relocating Punch	US - 02
Microflit Autoloader	US - 03

MISCELLANEOUS SUBROUTINES

Random Number Generator	J. B. Dennis	MS - 01
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Author

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Approved

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