

All Change

CONVERSION TO NAS-SYS

BY RICHARD BEAL

Many readers have requested a table showing equivalent codes for old monitors and for Nas-Sys. Many new INMC members have only ever used Nas-Sys, and have come across old programs they wish to convert. Derek Brough has made a tremendous effort in converting the T4 library to Nas-Sys, so you will find it easier to get some of these programs from the new Nas-Sys machine code program library.

To keep the table simple we have compared T4 to Nas-Sys. The older T2 and B-Bug monitors were subsets of T4, so the conversion works in the same way for them. It is not possible to show every detail because there are so many small differences, in particular the method of input and output.

Name ====	Function performed =====	T4 ==	Nas-Sys =====
RIN	Get input character	CD 3E 00	CF
ROUT	Output a character	CD 4A 0C	F7
		or F7	
		or CD 3B 01	
PRS	Print a string	EF ...00	EF...00
RCAL	Relative call	D7 ..	D7 ..
SCAL	Subroutine call	NONE	DF ..
RDEL	Delay	FF	FF
		or CD 35 00	
BRKPT	Breakpoint	E7	E7
START	Reset computer	C7	C7
MRET	Return to monitor	C3 86 02	DF 5B
		or CF	
TDEL	Long delay	NONE	DF 5D
FFLP	Flip bits in port 0	CA 4A 00	DF 5E
MFLP	Flip tape drive LED	CD 51 00	DF 5F
ARGS	Load arguments	CD 97 06	DF 60
IN	Scan for input character	CD 4D 0C	DF 62
		or CD 69 00	
INLIN	Obtain input line	NONE	DF 63
NUM	Convert from ASCII to binary	CD 5A 02	DF 64
TBCD3	Output HL in ASCII	CD 32 02	DF 66
TBCD2	Output A in ASCII	CD 2B 02	DF 67
B2HEX	Output A in ASCII	CD 44 02	DF 68
SPACE	Output space	CD 3C 02	DF 69
CRLF	Output carriage return	CD 40 02	DF 6A
ERRM	Output error message	NONE	DF 6B
TX1	Output HL,DE in ASCII	CD 5B 04	DF 6C
SOUT	String of characters to serial output	CD CC 06	DF 6D
SRLX	Character to serial output	CD 5D 00	DF 6F
		or CD 5E 00	
RLIN	Get arguments from input line	NONE	DF 79
B1HEX	Output half of A in ASCII	CD 4D 02	DF 7A
BLINK	Blink cursor, get input	NONE	DF 7B
CPOS	Find start of line	NONE	DF 7C