

Kernal Reference

Label	Jump	Vector	Real	Function	Function
Input/Output	addr	addr	code	Register Usage	Parameters
entry	return	used		Description	

CINT	FF81	----	FF5B	init VIC & screen editor	
- - -	- - -	A X Y			
IOINIT	FF84	----	FDA3	initialize CIA & IRQ	
- - -	- - -	A X Y			
RAMTAS	FF87	----	FD50	RAM test & search RAM end	
- - -	- - -	A X Y			
RESTOR	FF8A	----	FD15	restore default I/O vectors	
- - -	- - -	A - Y			
VECTOR	FF8D	----	FD1A	read/set I/O vectors	in: C=0 moves
from Y/X to vectors			- X Y - X - A - Y		C=1 moves
vectors to Y/X			- X Y - X - A - Y		
SETMSG	FF90	----	FE18	enable/disable KERNAL messages	in: A bit7=1
error msgs on			A - - - - A - -		bit6=1
control msgs on					
SECOND	FF93	----	EDB9	send secondary addr after listen	in: A=secondary
address			A - - - - A - -		
TKSA	FF96	----	EDC7	send secondary addr after talk	in: A=secondary
address			A - - - - A - -		
MEMTOP	FF99	----	FE25	read/set top of memory	in: C=0; Y/X
address			- X Y - X Y - - -		out:C=1; Y/X
address			- - - - X Y - X Y		
MEMBOT	FF9C	----	FE34	read/set bottom of memory	in: C=0; Y/X
address			- X Y - X Y - - -		out:C=1; Y/X
address			- - - - X Y - X Y		
SCNKEY	FF9F	----	EA87	scan keyboard	
- - -	- - -	A X Y			
SETTMO	FFA2	----	FE21	set IEEE timeout	in: A bit7=1
disable, bit7=0 enable			A - - A - - - - -		
ACPTR	FFA5	----	EE13	input byte from SERIAL	out:A=byte, C=1
and ST=2 if timeout			- - - A - - A - -		
CIOUT	FFA8	----	EDDD	output byte to SERIAL	in: A=byte, C=1
and ST=3 if timeout			A - - A - - - - -		
UNTLK	FFAB	----	EDEF	untalk all SERIAL devices	
- - -	- - -	A - -			
UNLSN	FFAE	----	EDFE	unlisten all SERIAL devices	
- - -	- - -	A - -			
LISTEN	FFB1	----	ED0C	make SERIAL device listen	in: A=device

number				A - - - - A - -	
TALK	FFB4	----	ED09	make SERIAL device talk	in: A=device
number				A - - - - A - -	
READST	FFB7	----	FE07	read I/O status byte	out:A=status
byte				- - - A - - A - -	
SETLFS	FFBA	----	FE00	set file parameters	in: A=logical
file number				A X Y A X Y - - -	X=device
number					Y=secondary
addr					
SETNAM	FFBD	----	FDF9	set file name	in: A=length of
filename				A X Y A X Y - - -	Y/X=pointer
to name addr					
OPEN	FFC0	031A	F34A	open log.file after SETLFS,SETNAM	out:A=error# if
C=1				- - - - - A X Y	
CLOSE	FFC3	031C	F291	close a logical file	in: A=logical
file number				A - - - - A X Y	
CHKIN	FFC6	031E	F20E	open channel for input	in: X=logical
file number				- X - - - - A X -	
CHKOUT	FFC9	0320	F250	open channel for output	in: X=logical
file number				- X - - - - A X -	
CLRCHN	FFCC	0322	F333	restore default devices	
- - - - -				A X -	
CHRIN	FFCF	0324	F157	input character	
out:A=character, C=1 and ST=error				- - - A - - A - -	
CHROUT	FFD2	0326	F1CA	output character	in:
A=character, C=1 and ST=error				A - - A - - - - -	
LOAD	FFD5	0330	F49E	load after call SETLFS,SETNAM	in: A=0 load,
a=1 verify				A X Y A X Y A X Y	Y/X =
dest.addr if sec.addr=0					
SAVE	FFD8	0332	F5DD	save after call SETLFS,SETNAM	in: A=zero page
pointer to start.addr				A X Y - - - A X Y	Y/X=ending
address					
SETTIM	FFDB	----	F6E4	set jiffy clock	in: A=MSB,
X=middle, Y=LSB				A X Y - - - - -	
RDTIM	FFDE	----	F6DD	read jiffy clock	out:A=MSB,
X=middle, Y=LSB				- - - A X Y A X Y	
STOP	FFE1	0328	F6ED	check stop key	out:Z=0 if STOP
not used; X unchanged				- - - A - - A - -	Z=1 if STOP
used; X changed				- - - A - - A X -	A=last line
of keyboard matrix					
GETIN	FFE4	032A	F13E	get a byte from channel	
out:keyboard:A=0 if puffer empty				- - - A - - A X Y	
RS232:status byte				- - - A - - A - -	
serial:status byte				- - - A - - A - -	

tape:status

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byte          - - - A - - A - Y
CLALL  FFE7  032C  F32F  close or abort all files
- - - - - - A X -
UDTIM  FFEA  ----  F69B  update jiffy clock
- - - - - - A X -
SCREEN  FFED  ----  E505  return screen size          out:X=columns,
Y=rows          - - - - X Y - X Y
PLOT   FFF0  ----  E50A  read/set cursor position    in: C=0, X=row,
Y=column        - X Y - X Y - - -
                                          out:C=1, X=row,
Y=column        - - - - X Y - X Y
IOBASE  FFF3  ----  E500  returns the addr of I/O devices
out:Y/X=addr($DC00)          - - - - X Y - X Y

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