

HP41CX Program Listing

Title:	System management
Program Label:	LBL "SYSCX" / 249 bytes
Version:	1.0
Date:	10/03/1989

Description

This program is used to set defaults and manage extended memory in the HP41CX.

There are four categories that this program addresses:

- **Reset:** Status of flags, stopping the stopwatch, setting time and date prefs.
- Uses the **STOFLAG** function to restore a previously saved copy of flags 00-43
- **Video:** Status of the flags that control the video interface.
- **Extended:** Recall of program files from extended memory and launcher.
- **Purge:** Purge files from extended memory by name.

Assigning **SYSCX** to a key makes it easy to manage these aspects of the machine's behaviour any time.

Core Logic

Reset

To enable the operation of the Reset functionality, you need to have an extended file called "**RST**" which contains the status of the flags 00-43 as you like to have them in their default state.

Create the file by entering **1** in the X reg, **RST** in the Alpha reg. and executing **CRFLD**.

To ensure the file pointer is set correctly, **CLX** and execute **SEEKPTA**.

Set the flags according to your preferences (take care if flags are being used by other programs) and execute **RCLFLAG** to place their states in the X reg. (The display of the status data is meaningless).

Execute **SAVEX** to copy the status data to the extended file **RST**.

Video

You need to have the video interface connected for the effects to the flag settings to be apparent.

Purge

You cannot undo the purging of a file!

Execution

When executed, the program displays the four options:

RS, V, EX, PUR

Touch the key corresponding to the first letter of the option and the program will prompt you accordingly.

Reset

The program will proceed and restore the flag settings saved previously in the extended file **RST** and set the preferences you encoded for the time and date.

Video

Touch **Y** or **N** in response to the **CURS: ON?** prompt and the cursor will be displayed or not.

Touch **Y** or **N** in response to the **CURS: IN/REP?** prompt and the cursor will change to the insert (arrow) or replace (block) form.

Extended

At the prompt, enter the program file name that you want to recall from extended memory and in response to the **RUN PROG?** prompt you can touch **R/S** to run the program you just recalled.

Purge

At the prompt, enter the extended file name that you want to delete.

A list of the contents of extended memory will then be displayed. You can stop it at any time by touching **R/S**, speed it up by holding down any key other than **R/S** or **ON**. When the listing is stopped you can use **SST** and **BST** to move through the list one file at a time.

This program uses the **QA** subroutine to prompt the user. You can find it on the IE site at: <http://www.inventors-emporium.co.uk> and follow the links to the HP41CX.

Program listing follows:



Line	Instruction	Comments
1	LBL "SYSCX"	
2	"10/3/89 V1"	
3	CF 16	
4	CF 15	
5	FS? 55	
6	CF 21	
7	CF 27	
8	"RS,V,EX,PUR"	Touch the key corresponding to the first letter of the process.
9	AVIEW	
10	STO 00	
11	LBL 00	
12	TONE 6	
13	GETKEY	
14	X=0?	
15	↑ GTO 00	Loops back if no key is pressed.
16	→ GTO IND X	Branches to the appropriate label.
17	LBL 43	Purge extended memory file: Called by touching P key
18	"PURGE WHAT?"	
19	AON	
20	PROMPT	
21	AOFF	
22	PURFL	Purges (deletes) a file from extended memory
23	"GADA"	Some existing file that is kept in main memory
24	FLSIZE	Defines a new current file
25	EMDIR	Lists the contents of extended memory
26	↓ GTO 10	
27	LBL 52	Reset: Called by touching R key
28	"*RESET*"	
29	AVIEW	
30	"RST"	
31	CLX	
32	SEEKPTA	
33	GETX	
34	STOFLAG	Sets flags 0 0 to 4 3 from the contents of the RST data file
35	CLA	
36	AOFF	
37	STOPSW	
38	CLK12	
39	CLKTD	
40	↓ GTO 10	

Line	Instruction	Comments
41	LBL 62	Video: Called by touching V key
42	FC? 55	
43	↓ GTO 10	
44	0.71	
45	"CURS: ON?"	Enter Y or N
46	← XEQ "QA"	
47	SF 21	
48	27	
49	ACCHR	
50	FS? 00	
51	62	
52	FC?00	
53	60	
54	ACCHR	
55	CF 21	
56	FC?C 00	
57	↓ GTO 10	
58	0.24	
59	"CURS: IN/REP?"	Choose I nsert or R eplace cursor mode
60	← XEQ "QA"	
61	SF 21	
62	27	
63	ACCHR	
64	FS? 00	
65	81	
66	FC?C 00	
67	82	
68	ACCHR	
69	↓ GTO 10	
70	LBL 15	Extended memory program file: Called by touching E key
71	"FILE NAME?"	
72	AON	
73	PROMPT	
74	AOFF	
75	ASTO 12	
76	GETSUB	
77	"RUN PROG?"	
78	TONE 4	
79	PROMPT	
80	→ GTO IND 12	

Line	Instruction	Comments
81	LBL10	
82	RCL 00	
83	FS? 55	
84	SF 21	
85	CLD	
86	END	

For more HP41CX programs, visit <<http://www.inventors-emporium.co.uk>>

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