

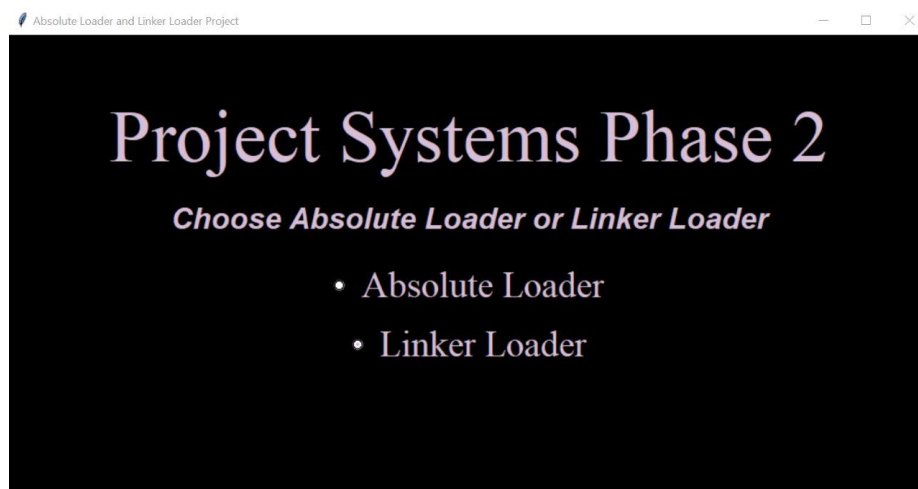
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Phase 2 project systems programming

Linker-Loader Project Report

Gui interface

When you run the program on terminal (python3 main.py) you will be presented with this Gui where you got to choose between absolute loader or linker loader .This program was coded using python 3 using tkinter for GUI and pandas dataframe for the tables presentations



1. Absolute Loader for SIC HTE record

To represent the sic program in the form of the table you choose the absolute loader and import the text file of HTE record to be represented in be represented in anther window in a table .



The screenshot shows the same 'Absolute Loader' window, but now displaying a table of data. The table has 16 columns labeled 0 through F. The first column contains addresses from 001000 to 002070. The subsequent columns contain hexadecimal values. The first row (001000) is highlighted in blue.

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
001000	14	10	33	48	20	39	00	10	36	28	10	30	30	10	15	48
001010	20	61	3C	10	03	00	10	2A	0C	10	39	00	10	2D	0C	10
001020	36	48	20	61	08	10	33	4C	00	00	45	4F	46	00	00	03
001030	00	00	00													
002030										04	10	30	00	10	30	E0
002040	20	5D	30	20	3F	D8	20	5D	28	10	30	30	20	57	54	90
002050	39	2C	20	5E	38	20	3F	10	10	36	4C	00	00	F1	00	10
002060	00	04	10	30	E0	20	79	30	20	64	50	90	39	D	20	79
002070	2C	10	36	38	20	64	4C	00	00	05						

2- linker loader

To represent SICXE in a form of a table we use the linker loader, where you get to import text file of HDRTME record and choose your desired starting address as the following programs in the text file will follow each other starting from this address (programs wont override like the absolute loader).You can also choose the option to show the ESTAB in another GUI (.csv) and an external .txt file will be generated.



Linker Loader

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
005020	03	20	1D	77	10	50	C7	05	00	14	0.0	0.0	0.0	0.0	0.0	0.0
005030	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
005040	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
005050	0.0	0.0	0.0	0.0	00	51	26	00	00	08	00	50	51	00	00	04
005060	00	00	83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
005070	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
005080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
005090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	03	10	50	40	77	20	27
0050A0	05	10	00	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0050B0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0050C0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0050D0	0.0	0.0	0.0	00	51	26	00	00	08	00	50	51	00	00	04	00

main.py × app.py × sic.py × sicxe.py × estable.csv ×

Plugins supporting *.csv files found.

	Address	Length	Labels
1	005000	000063	"{' <u>LISTA</u> ': '005040', 'END <u>A</u> ': '005054'}"
2			
3	005063	00007F	"{' <u>LISTB</u> ': '0050C3', 'END <u>B</u> ': '0050D3'}"
4			
5	0050e2	000051	"{' <u>LISTC</u> ': '005112', 'END <u>C</u> ': '005124'}"
6			
7			