Government Engineering College Thrissur

CS331 – System Software LabDocumentation Exp12 – 2 Pass Macro Assembler

Date of Submission:23 November 2020

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Experiment 12:

To implement a 2 Pass Macro Assembler Compilation of Code Prerequisite

- The code is provided in the **program.c** file along with its documentation. You just need to run it on any compiler.
- Compile like gcc program.c

.la.exe

- The program 2 parts Pass1 and Pass2.
- In the Pass 1 it scans the program and certain output files are generated. In pass 2 it takes outputs from pass 1 are taken as inputs and generate output.
- In Pass1 program takes minp2.txt as input and generate dtab2.txt and ntab.txt as output.
- In Pass2 input and output files from Pass1 as inputs and generates atab2.txt and op2.txt as output.
- Output will be displayed in the terminal also.

at

Output Screenshots

Output of Pass 1

dtab.txt

```
E12 > upload > ≡ dtab2.txt

1 EX1 &A,&B

2 LDA &A

3 STA &B

4 MEND
```

ntab2.txt

```
E12 > upload > = ntab2.txt

1 EX1
2
```

Output of Pass 2

atab2.txt

```
E12 > upload > ≡ atab2.txt

1 N1
2 N2
```

op2.txt

Terminal

```
PS C:\Users\rejat\Desktop\Assignment\ss lab\e12\upload> gcc .\program.c
PS C:\Users\rejat\Desktop\Assignment\ss lab\e12\upload> .\a.exe
PASS 1 completed
PASS 2 completed
Output
SAMPLE START
                1000
        EX1
                N1,N2
        LDA
               N1
        STA
               N2
N1
        RESW
               1
N2
        RESW
                1
        END
PS C:\Users\rejat\Desktop\Assignment\ss lab\e12\upload>
```