Programming Project #2

CpSc 8270: Language Translation

Computer Science Division, Clemson University

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Brian Malloy, PhD September 3, 2018

Due Date:

In order to receive credit for this assignment, your solution must meet the requirements specified in this

document and be submitted, using the handin web page, by 8 AM, Thursday, September 21st, 2018. If you

submit after the due date but before the handin close date there will be a ten point deduction. No submissions

will be accepted after the handin close date and no submissions will be accepted by email.

Project Overview:

1337 is an alternative vocabulary and alphabet that is used primarily on the Internet as a specialized

form of symbolic writing. 1337 was originally used by computer hackers but it has evolved as a tool for

encryption or obfuscation, which some Internet users feel is necessary in help combat the proliferation of hackers attempting to steal passwords and other information.

Project Specification:

Your assignment is to use the GNU tool, flex, to build a translator from English to 1337, and from 1337

to English. The purpose of this project is to provide an opportunity for you to learn to use the tool flex, and

to gain some experience with 1337 translation. To test your 1337 translator we will use your english to leet translator (etol) to encode a message from english to 1337, then we will use your leet to english translator

(Itoe) to decode the message.

There are many dialects, or accepted versions of 1337, ranging from basic 1337 to advanced, or pro

l337. If your l337 translator translates "ordinary" l337 you will receive 90% as your grade. If you can build

a l337 translator with more obfuscation, or other enhancement or pizzazz, you will receive 100%.

You must submit your assignment using the web handin command, which can be found at:

https://handin.cs.clemson.edu

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Sample Execution:

As an example of translating from etol, consider the following:

7h15 15 4 1337 53n73nc3.

Then, using the above *l*337 expression as input to ltoe:

this is a leet sentence.

Information about *l*337:

There is a lot of information on the Internet about 1337, and there are translators:

http://en.wikipedia.org/wiki/Leet

http://simple.wikipedia.org/wiki/Leet#Wrong_grammar

http://1337.me/

http://www.robertecker.com/hp/research/leet-converter.php?lang=en

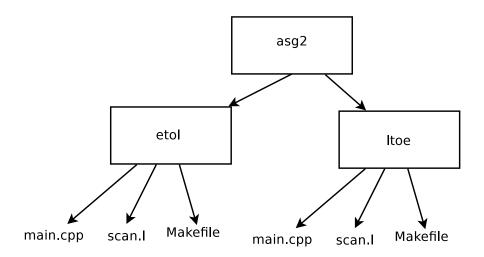


Figure 1: **Directory Structure**.