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TempleOS: A Case Study

Overview and Deliverables:

In this project we will be researching, discussing, and presenting a technical report on the methods and techniques of how the schizophrenic prodigy Terry Davis designed and built TempleOS, an ultra-lightweight operating system built completely from the ground up. In the report we will be discussing how Davis was able to, from scratch, write a bootloader, operating system, and compiler for his C-like language (HolyC) all while dealing with schizophrenia. Seeing as how his struggle with schizophrenia is what ultimately drove him to write TempleOS, we will be doing a short analysis on how that ties into his code and the basic functions of the operating system. Davis' TempleOS was inspired by the Commodore64 and has some incredible Kernel functions, such as a full 3D graphics library able to be integrated in the CLI and the ability to hot reload the Kernel (long before Linux did so). The analysis of TempleOS and Davis during development would be incredibly insightful in learning how operating systems function as well as delving into the mind of a mentally ill genius.

Schedule:

The final due date for this technical report is November 15th, 2020. In order to meet that deadline a series of goals need to be met at specific times. The first deadline we imposed on ourselves is October 27th. We would like to have our primary and secondary sources gathered to keep our report focused and accurate. The next deadline we have imposed on ourselves is November 1st. We would like to have a rough draft of the report. We can then really polish our final draft and have it ready by November 8th. With the deadline for this technical report being November 15th we can take the final portion of time working on presenting our findings.

Division of Work:

We would like to divide our work by conceptual areas. Each team member can take a concept regarding TempleOS that interests them, research it, and provide information on that topic. These topics can range from the process scheduling, memory management, history, and both current and future use of TempleOS. We will then come together as a group with our findings and combine them into sections of the technical report. We will also discuss how they were influenced by Davis' psyche.