**Documented Design**

Fully or nearly fully articulated design for a real problem, that describes how all or almost all of the key aspects of the solution/investigation are to be structured/are structured.

**The Problem and Solution**

The problem is to combine multiple music macro language text files into a single multi-channel MIDI file. My chosen approach to this problem is to write two terminal programs that would be used in conjunction. The first program, named “mmltomidi”, would take a single MML file and output a single single-channel MIDI file. The second program, named “catmidi” would take multiple single-channel MIDI files and combine them to create a single multi-channel MIDI file.

**Data Flow of the Chosen Solution**

The flow chart below demonstrates how the programs would be used:

F:\School work\A Level\Computer Science\MML-To-Midi-Project\Project Documentation\Diagrams\File_Data_Flow.png

**Design of mmltomidi**

**Design of catmidi**