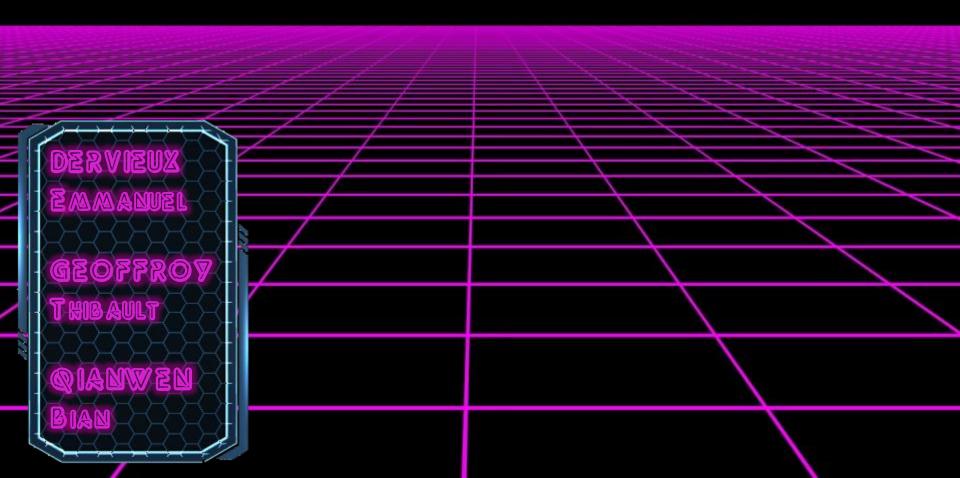
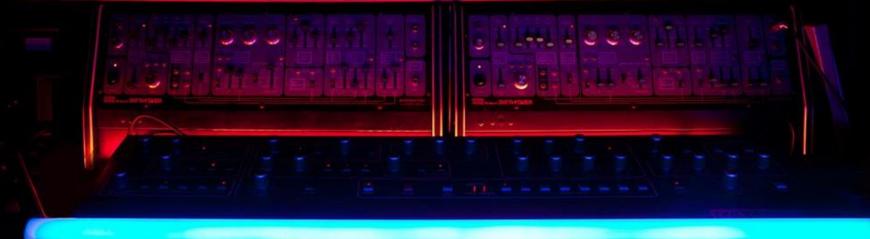
# PHONOTRON - 5000

by Acousteak







AcouSteak

## 

1000 - Introduction

2000 - Architecture Générale

3000 - Blocs VHDL ET MOS II

4000 - CODE C

5000 - CONCLUSION

5000.0 revB - DÉMONSTRATION



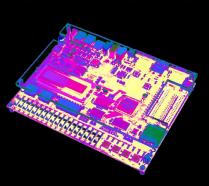
#### 1000 - INTRODUCTION



#### CONCEPTION DUNE DRUM-MACHINE

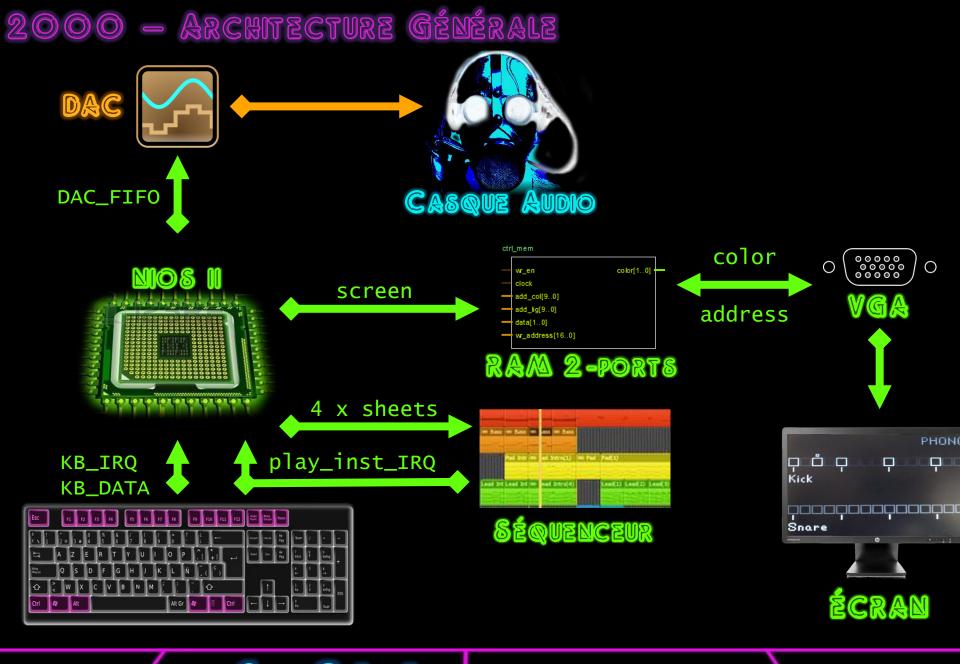
SUR ALTERA DE2

Cyclone [ II



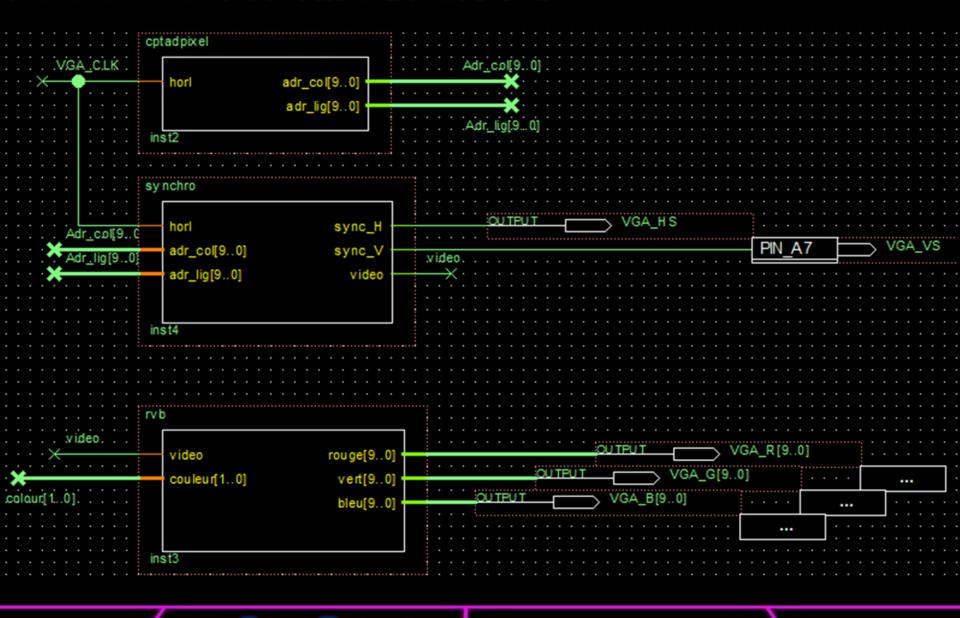






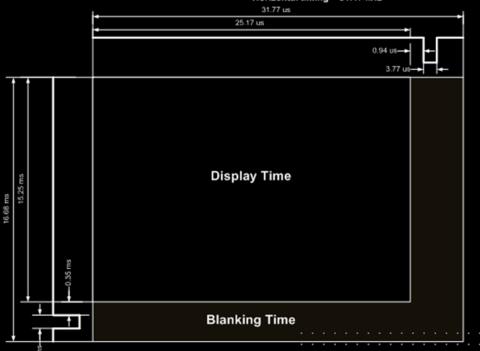








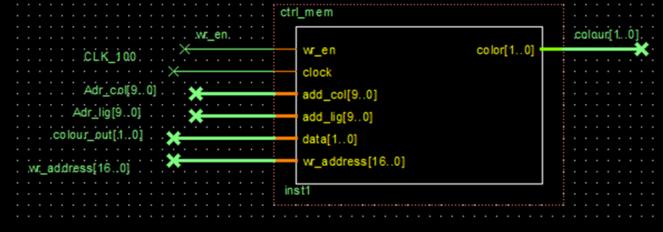




#### UN PROBLÈME DE TIMING ET DE TAILLE

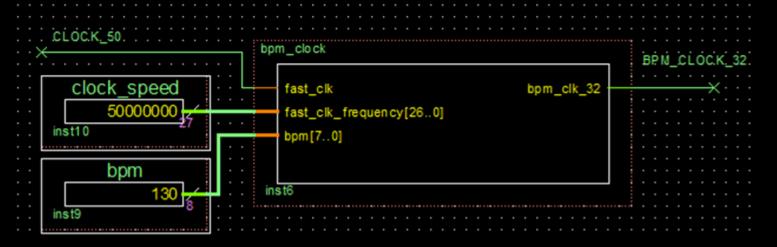
640X480 -> 320X240

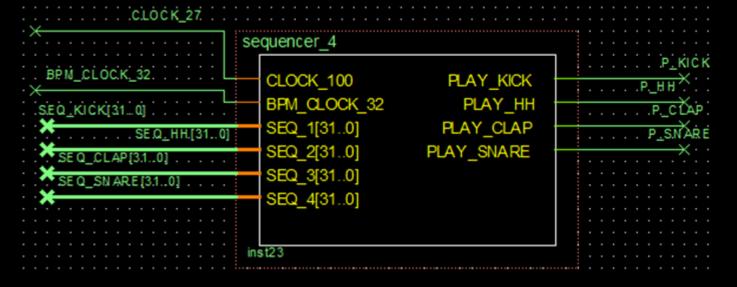
30BITS -> 2BITS





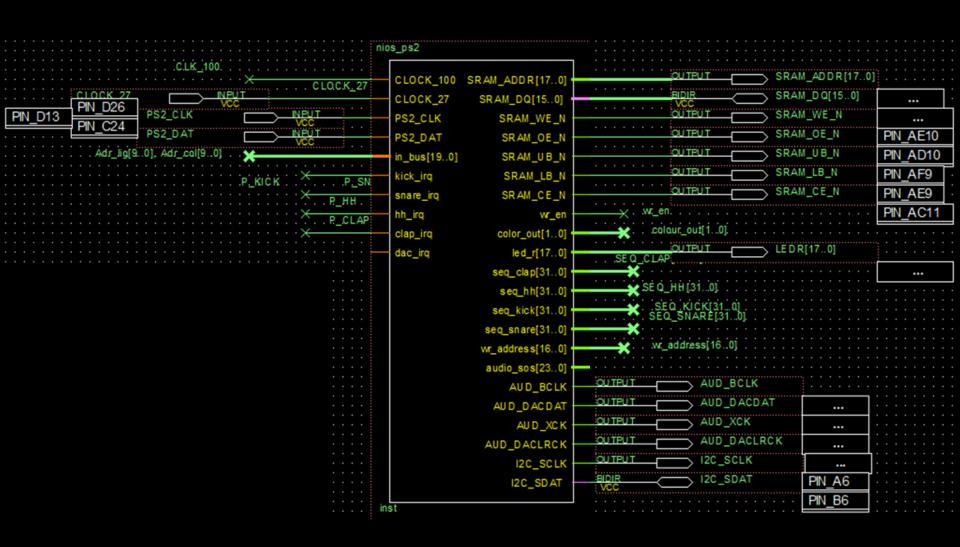






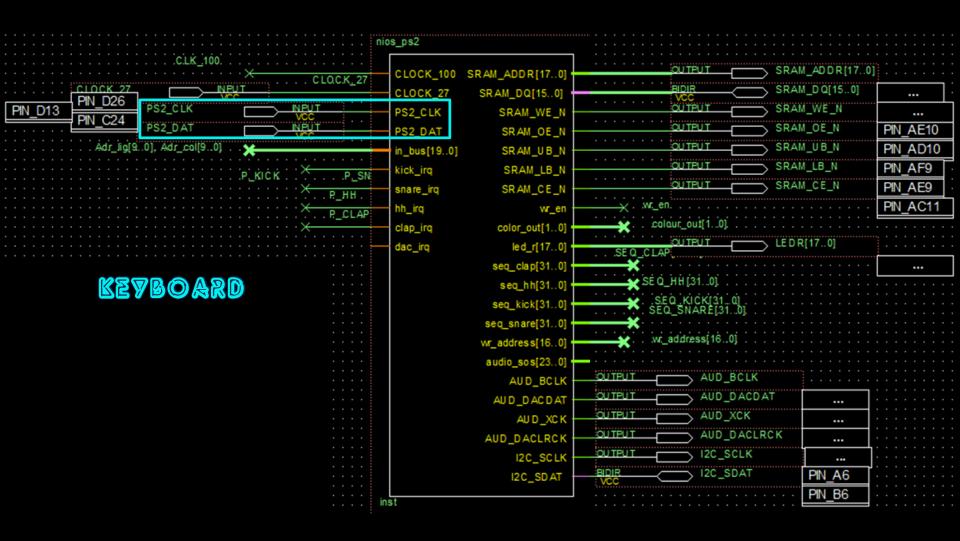






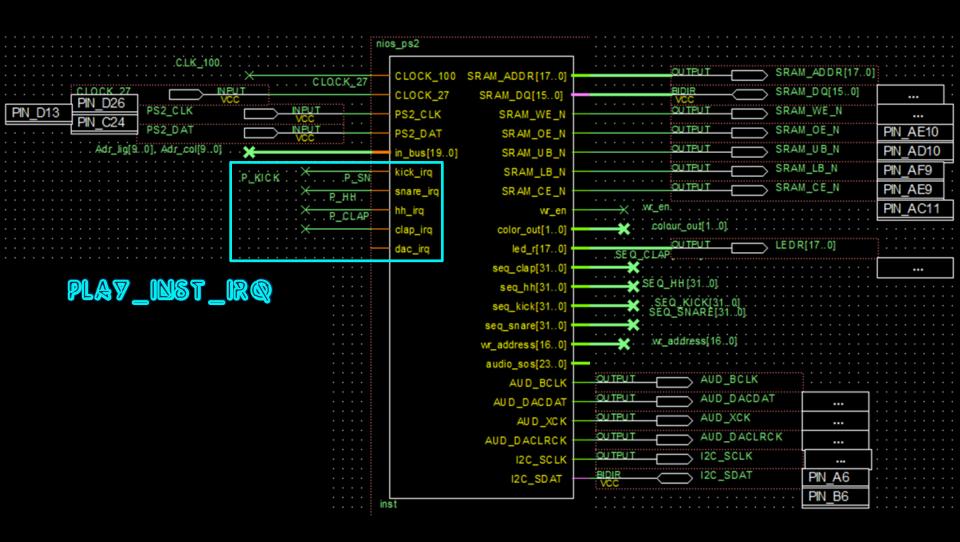






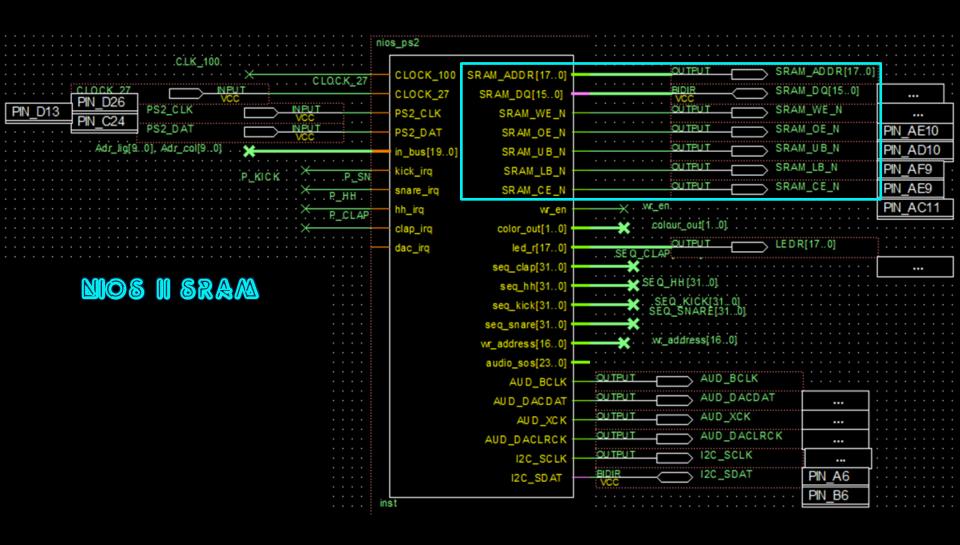






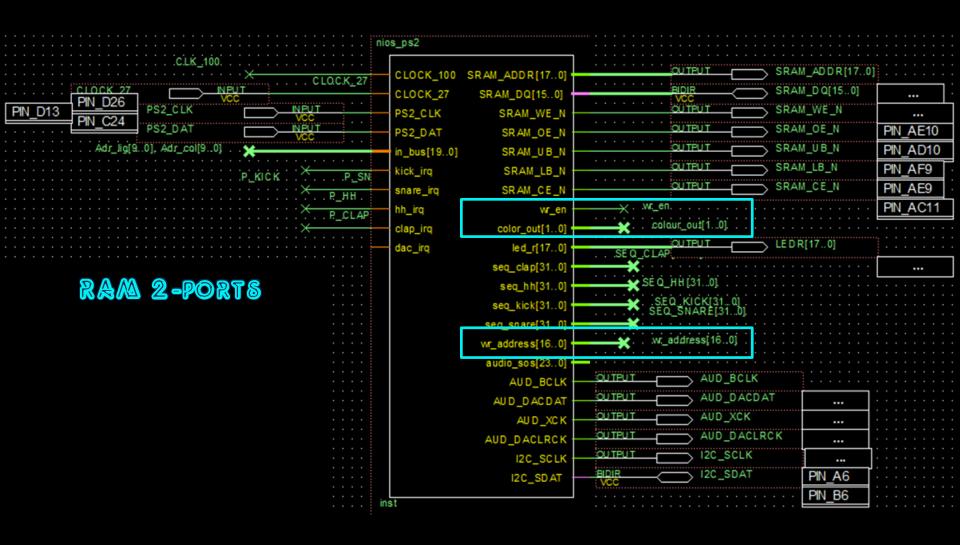






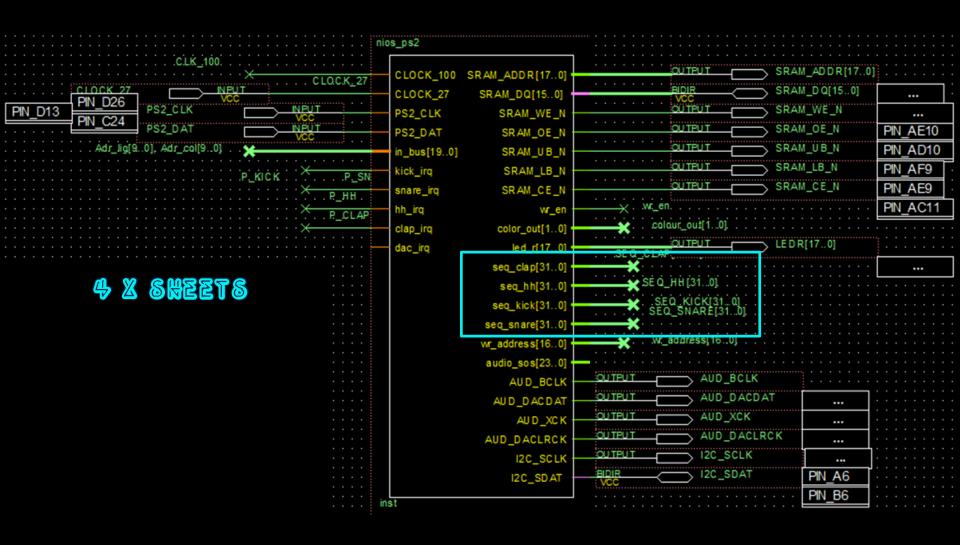






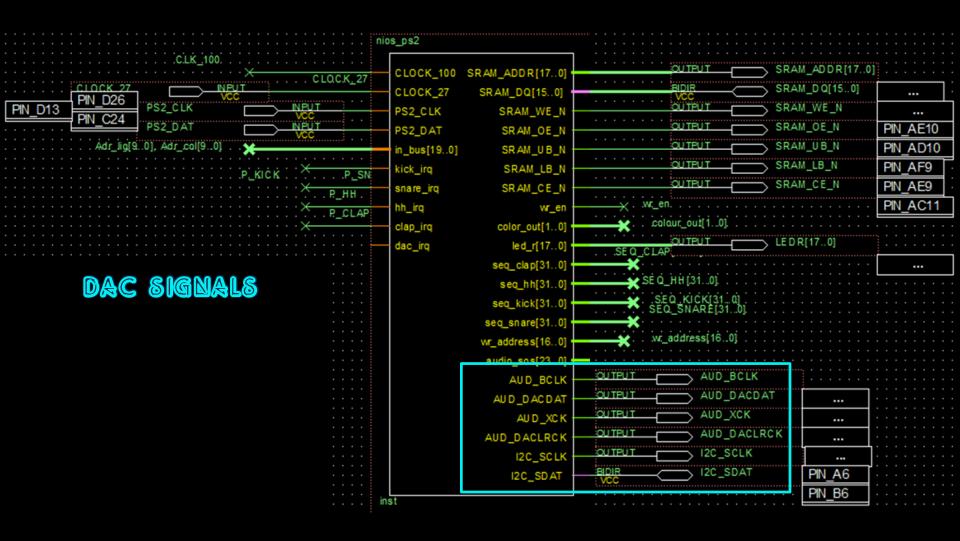






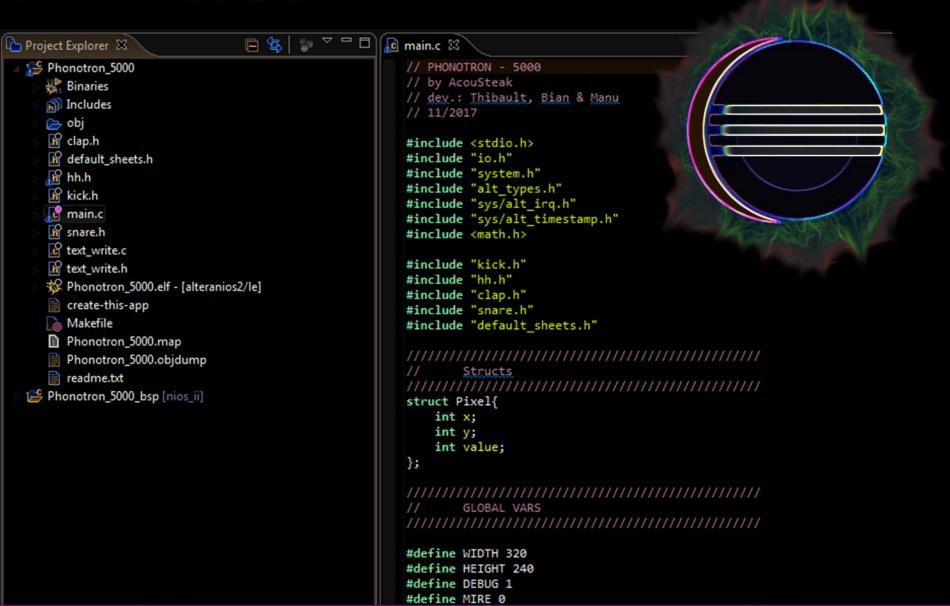








#### 4000 - C002 C





```
4000 - Cobe C
       // IOs functions //
// Interruption handlers //
```

// Process functions //

static void handle HH interrupt(void\* context, alt u3

static void handle KEYBOARD interrupt (void\* context,

static void cleanScreen();

static void drawMire(); static void drawHLine(int x, int y, int length, int c

static void init();

static void setActive(); static void reset sheets();

static void move(int x, int y);

unsigned long vectorCast32Bits(int n inst); static void set volume (int modifier);

static int write letter (int x, int y, char lettre, in

// Drawing functions //

static void drawOneSheet(int y); static void drawSheets();

static void enableWrite();

static void disableWrite();

static void sheets output();

static unsigned long makeAddress(int x, int y);

static void write (unsigned long address, int colour);

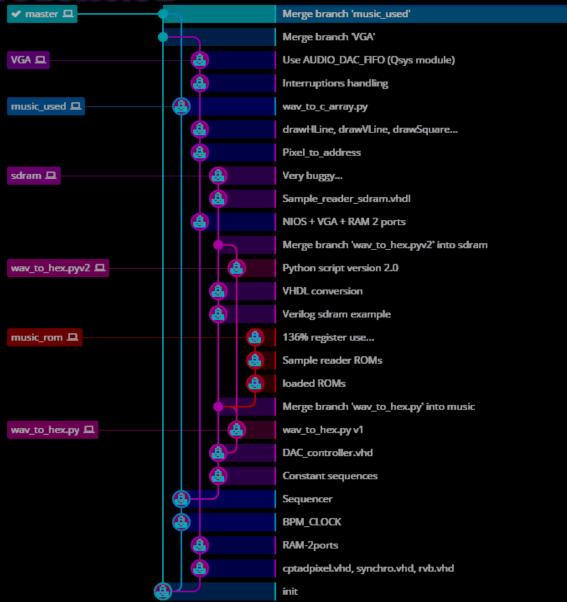
static void handle KICK interrupt (void\* context, alt static void handle SNARE interrupt (void\* context, alt static void handle CLAP interrupt (void\* context, alt

static void drawVLine(int x, int y, int length, int c static void drawEmptySquare(int x, int y, int length,

static void drawEmptySquareRow(int x, int y, int leng

static void load sheet (int sheet number); static void copy sheet(int sheet tocopy[]); static void write message(int x, int y, char message[

### 5000 - CONCLUSION





5000 - CONCLUSION

Special Thanks to

AMOR NAFKHA

ALZZANDRZ MARMIGNON

PIERRE



Acou Steak





DÉMOUSTRATION

