# Errors in cmodel

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## 1 Introduction

Following given are the errors after running the cmodel tests.

### 1.1 C-model error

Two errors observed while running c-model-

- Error: pipeHandler: redefinition of pipe CONSOLE-to-SERIAL-RX with conflicting depths (8 or 2?)
- Error: pipeHandler: redefinition of pipe SERIAL-Tx-to-CONSOLE with conflicting depths (8 or 2?)
- Error was resolved by change depth to 8 in

half\_precision\_float/aa2clib/src/fpunit\_exec\_exec\_aa\_c\_model.c

### 1.2 Float part 1

- For vfhi16toh and vfhtoi16
- Input operands used for the function in Execute 64.c are operand 1-1 and 1-0
- $\bullet$  Input is in operand 2-0 and 2-1.
- After changing the operands inside the function, correct output was observed.

## 1.3 Float part 2

For the remaining -

- for faddreduce16, fstoh, fhtos
- $\bullet$  decode Instruction is correct.

- $\bullet$  While debugging, oper and 1-1 and 1-0 which is used in the function execute 64FpHalfAddReduce in Execute 64.c is always zero.
- But the log file shows correct value of input operand.
- If operands changed to 2-0 and 2-1, same error, it is always zero.
- Output register shows garbage value.
- While debugging, in function execute 64FpHalfAddReduce, \*result-l shows the result as zero, but the log file shows garbage value.