Python host software

Setup controller interface and open serial connections

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Define search logic/ pattern

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Move pointer to memory address

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Output current pointer location and value

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Flip bit

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Output current pointer location and value

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Verify data controller for data corruption

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Determine type of error from previous command success / failure

Loop over various memory locations

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Save results to file → FDIR-Results.dat

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Post-process results → Pie chart → Error history plot

Action involving controller and/or controller interface

Remaining actions

Result