

DistTab

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1 CHANGELOG	1
2 DistTab	3
2.1 Instructions	3
3 TODO	5

Chapter 1

CHANGELOG

7/6/2021

- Table and block size is now command-line argument driven. Added a unit test to check that functionality for small 2D tables is correct. 4/6/2021
- Retooled example table generation and flat-to-block major rearrangement of tables so that blocks with dimension size not divisible by table size are padded with zeroes when going off the table

Chapter 2

DistTab

Distributed Tabulation of Spray Flamelet Lookup Tables

2.1 Instructions

- Dependencies MPI (I use OpenMPI)
- Compile

```
cd src/lib/
mpifort disttab_table.f90 disttab.f90 -o disttab
```
- Run Test (Command Runstring To Be Explained Later)

```
cd src/tests/reordering-test-2D-small/
./reordering-test-2D-small.sh
```


Chapter 3

TODO

7 June 2021

- Implement and test Alya-format to block-format mapping algorithm for n control variables, assuming blocks fit evenly into table.
- Implement and test Alya-format to block-format mapping algorithm for 2 control variables, zero-padding for blocks that do not evenly fit into table.
- Implement and test Alya-format to block-format mapping algorithm for n control variables, zero-padding for blocks that do not evenly fit into table.

