C++ FAST v8 FRAMEWORK

INPUT FILE

nTurbinesGlob: 3 dryRun: False restart: False tStart: 0.0 tEnd: 10.0 tMax: 60.0 ntStart: 0 ntEnd: 1600 dtFAST: 0.00625 nEveryCheckPoint: 1600

Turbine0: procNo: 0

TurbinePos: [0.0, 0.0, 0.0]

numScOutputs: 0 numScInputs: 0

restartFileName: "banana"

FASTInputFileName: "t1_Test05.fst"

TurbID: 1

Turbine1: procNo: 0

TurbinePos: [0.0, 0.0, 0.0]

numScOutputs: 0 numScInputs: 0

restartFileName: "banana"

FASTInputFileName: "t2 Test05.fst"

TurbID: 3

Turbine2: procNo: 2

TurbinePos: [0.0, 0.0, 0.0]

numScOutputs: 0 numScInputs: 0

restartFileName: "banana"

FASTInputFileName: "t3_Test05.fst"

```
DRIVER PROGRAM
#include "FAST_cInterface.h"
#include <iostream>
#include <mpi.h>

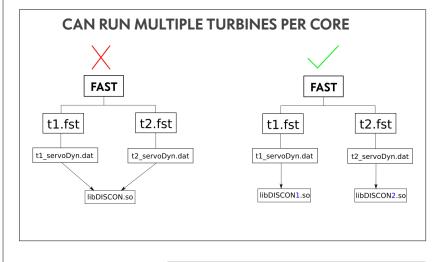
int main() {

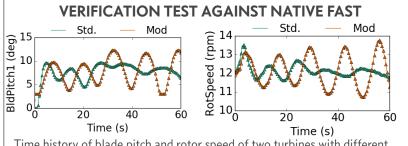
iErr = MPI_Init(NULL, NULL);

FAST_cInterface FAST;
FAST.readInputFile("cDriver.i");

for (int nt = FAST.get_ntStart(); nt <= FAST.get_ntEnd(); nt++) {
    FAST.step();
}

FAST.end();
MPI_Finalize();
return 0;</pre>
```





Time history of blade pitch and rotor speed of two turbines with different controllers The triangles correspond to the same case run using a single turbine in FAST.

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