Debugging & Totalview
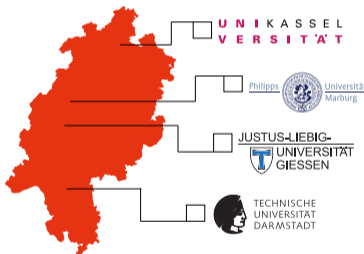
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Introduction to debugging and Totalview Part II

Topics

▶ Controlflow,

▶ Program arguments and input,

▶ Process, thread and stack-window.

We will discuss Totalview using the program found in the **demo01** folder: It recursively computes factorials. There is a bug regarding the ordering of the programs output.

- ▶ INPUT.txt   Some example inputs
- ▶ Makefile   Maketargets
- ▶ demo01.cc   Original sourcefile
- ▶ demo01B.cc   Intermediate solution

The makefile has four targets:*demo01.exe*,*demo01A.exe*, *demo01B.exe* and *clean*.
The program accepts input via STDIN or as program arguments.
Please consult the readme.md for more details.

shell

```
>$ ./demo01.exe 1 3 5 7
```

This segments contents:

Discussion & debugging of **demo01** from the example collection.

Controlling the programs controlflow with Totalview:

- ▶ *Go* <**g**>, *Kill* <**Ctrl-z**> and *Halt* <**g**>,

- ▶ *Next* <**n**>,

- ▶ *Step* <**s**>, and *Step-out* <**o**> and

- ▶ *Run-To* <**r**>.

Process & Thread-, and Stack-Window, Program arguments and STDIN.