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| **ACTIES OP HET SCHERM** | **VOICE-OVER** | **DUUR** |
|  | Performance is quite important for scientific computing. Often programmers try to improve the performance of their code by trial and error. They try to guess which part of their application takes most of the execution time, and concentrate their efforts on that part. |  |
| 1. Show cellular\_automata.f90 | 1. Explain flow |  |
| 1. Show cellular\_automata\_mod.f90 | 1. Discuss improvements to init\_automaton |  |
| 1. Build for profiling | 1. Point out -pg and -g |  |
| 1. Show profile | 1. Point out print\_automaton 2. Point out step\_automaton |  |
|  | Intuition is not often your friend when it comes to computational performance and efficiency. It is always wise to measure performance and identify bottlenecks and hotspots before diving in and spending significant time optimizing code. Of course, there are better tools than gprof, so if you have access to those, you should certainly use them. |  |
| **TOTALE DUUR** | | *Maak je screencast niet langer dan ca. 6 minuten.* |