

Using Modern Code to Simulate Brain Development: Interview with Lukas Breitweiser, Intern at CERN openlab

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Lukas Breitweiser discusses the importance of applying modern code and parallel computing to drive scientific exploration and discoveries in the context of his CERN openlab internship. An internship at CERN openlab was the Grand Prize for the Intel Modern Code Developer Challenge. Using modern code programming techniques and Intel® Xeon® processors, the winner improved the performance of brain simulation software by an amazing 32,000%.

Download Video

[1280X726 \(74.43 MB\) \(http://uds.ak.o.brightcove.com/740838651001/740838651001_4644619169001_Using-Modern-Code-Interview-Lukas-Breitweiser.mp4\)](http://uds.ak.o.brightcove.com/740838651001/740838651001_4644619169001_Using-Modern-Code-Interview-Lukas-Breitweiser.mp4)

For more complete information about compiler optimizations, see our [Optimization Notice \(/en-us/articles/optimization-notice#opt-en\)](/en-us/articles/optimization-notice#opt-en).

Categories: [Research \(/en-us/articles/type/80676\)](/en-us/articles/type/80676), [Developers \(/en-us/taxonomy/term/17152\)](/en-us/taxonomy/term/17152), [Intel® Parallel Studio XE Cluster Edition \(/en-us/software/products/78045\)](/en-us/software/products/78045), [Code Modernization \(/en-us/taxonomy/term/80685\)](/en-us/taxonomy/term/80685), [Parallel Computing \(/en-us/taxonomy/term/20867\)](/en-us/taxonomy/term/20867).

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