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Optimising The Code Behind The Large Hadron Collider

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CERN is at the cutting edge of physics, dedicated to probing the fundamental structure of the universe.

In 2012, its Large Hadron Collider (LHC) particle accelerator famously produced evidence for the Higgs boson, an elementary particle first suspected to exist in the 1960s.

While huge scientific advances have been made over the past decade, according to Maria Girone, CTO of CERN Openlab, **CERN's scientific progress has often been limited by the software** (<http://intel.ly/2gHnzOU>) rather than the hardware.

Getting the most out of the incredible hardware at the LHC and the forthcoming High-Luminosity LHC scheduled for completion in 2025, requires the most efficient code imaginable.

In this Q&A, Maria Girone explains how she and her team are modernising their code (<http://intel.ly/2fvVbKx>) to create more powerful and efficient software – and how this in turn is powering greater scientific discovery.

For more information about multicore and manycore architectures and parallel programming, take a look at the **Modern Code section of the Intel® Developer Zone** (<http://intel.ly/2fvWwkl>).

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