

Published on *CERN openlab* (<http://test-static-05.web.cern.ch>)

[Home](#) > [RapidIO top of rack switch advances data analytics at CERN](#)

RapidIO top of rack switch advances data analytics at CERN ^[1]

Date published:

25 Jun 2016

Outlet:

prodrive-technologies.com

Son, June 25th, 2016 ? A world first was announced this week at CERN, the European Organization for Nuclear Research ^[2]. In an effort to streamline the flow of data coming out of the Large Hadron Collider (LHC) in Switzerland, engineers constructed a computer cluster using RapidIO as the interconnect backbone. Standard x86 servers were equipped with RapidIO NIC cards and connected to Prodrive's ultra low latency RapidIO top of rack switch ^[3]. At 20 Gbps per link, CERN engineers were able to achieve full hardware line rates. High link utilization was achieved by RapidIO's protocol termination in hardware, bypassing the CPU and therefore saving precious processor cycles.

Link:

[Article on prodrive-technologies.com](#) ^[4]

Copy of the coverage:

 [RapidIO top of rack switch advances data analytics at CERN - Prodrive Technologies.pdf](#) ^[5]

- [Visit Us](#)
- [RSS Feeds](#)

DISCLAIMER: This Web page contains pointers to material related to the management of CERN openlab in the Information Technology Department at the European Organization for Nuclear Research (CERN). Their use and distribution are regulated by the CERN copyright notice.



Source URL: http://test-static-05.web.cern.ch/resources/press_coverage/rapidio-top-rack-switch-advances-data-analytics-cern

Links

[1] http://test-static-05.web.cern.ch/resources/press_coverage/rapidio-top-rack-switch-advances-data-analytics-cern

[2] <https://home.cern/>

[3] <https://prodrive-technologies.com/products/rapidio-gen2-38-ports-top-rack-switch-box/>

[4] <https://prodrive-technologies.com/rapidio-top-rack-switch-advances-data-analytics-cern/>

[5] <http://test-static-05.web.cern.ch/sites/test-static-05.web.cern.ch/files/press-coverage/Y/M/RapidIO%20top%20of%20rack%20switch%20advances%20data%20analytics%20at%20CERN%20-%20Prodrive%20Technologies.pdf>