(http://tw
text=IDT%
Latency%
the-
wire%2Fi
cern-
engineer
low-
latency-
platform-
speed-
improve-
analytics-
large-
hadron-
collider%

f
(http://w
u=http%3
the-
wire%2Fi
cern-
engineer
low-
latency-
platform-
speed-
improve-
analytics-
large-
hadron-
collider%
Latency%

in
(http://w
mini=true
the-
wire%2Fi
cern-
engineer
low-
latency-
platform-
speed-
improve-
analytics-
large-
hadron-
collider%
Latency%

(http://w
url=http%
the-
wire%2Fi
cern-
engineer
low-
latency-
platform-
speed-
improve-
analytics-
large-
hadron-
collider%
Latency%

(http://w
url=http%
the-
wire%2Fi
cern-
engineer
low-
latency-
platform-
speed-
improve-
analytics-
large-
hadron-
collider%
Latency%

ENTERPRISE HPC 2016 MARCH 20-22 Paradise Point Resort and Spa San Diego, CA

Click the Logos below for our full Coverage on that Vendor (http://www.hpcwire.com)

(http://www.hpcwire.com)
Since 1986 - Covering the Fastest Computers
in the World and the People Who Run Them

(http://www.facebook.com/pages/HPCwire/115532028467957?
ref=ts)(http://twitter.com/hpcwire)

Altair (http://tci.taborcommunications.com/sponsor-altair-2)
AMD (http://tci.taborcommunications.com/sponsor-amd)
applied micro (http://tci.taborcommunications.com/APM)
ASETEK (http://tci.taborcommunications.com/sponsor-asetek)
Aspen Systems (http://tci.taborcommunications.com/sponsor-aspen)
ASRock Rack (http://tci.taborcommunications.com/sponsor-asrock)
atipa (http://tci.taborcommunications.com/sponsor-atipa)
Bright Computing (http://tci.taborcommunications.com/brightcomputing)
Bull (http://tci.taborcommunications.com/sponsor-bull)
Chelsio (http://tci.taborcommunications.com/sponsor-chelsio)
CoolIT systems (http://tci.taborcommunications.com/sponsor-coolit)
CRAY (http://tci.taborcommunications.com/sponsor-cray)
CYCLE COMPUTING (http://tci.taborcommunications.com/sponsor-cyclecomputing)
DDN STORAGE (http://tci.taborcommunications.com/sponsor-ddn)
Dell (http://tci.taborcommunications.com/sponsor-dell)
FUJITSU (http://tci.taborcommunications.com/sponsor-fujitsu-2)
Hewlett Packard Enterprise (http://tci.taborcommunications.com/sponsor-hp-3)
IBM (http://tci.taborcommunications.com/sponsor-ibm)
inspur (http://tci.taborcommunications.com/sponsor-inspur)
intel (http://tci.taborcommunications.com/sponsor-intel)
lenovo (http://tci.taborcommunications.com/sponsor-lenovo)
Mellanox (http://tci.taborcommunications.com/sponsor-mellanox)
NEC (http://tci.taborcommunications.com/sponsor-nec)
NUMASCALE (http://tci.taborcommunications.com/sponsor-numascale)
nvidia (http://tci.taborcommunications.com/sponsor-nvidia)
PENGUIN COMPUTING (http://tci.taborcommunications.com/I/21812/2014-04-25/5l3mh)
The Portland Group (http://tci.taborcommunications.com/sponsor-pgi)
(http://tci.taborcommunications.com/re-store-2)
RYFT (http://tci.taborcommunications.com/sponsor-ryft)
SEAGATE (http://tci.taborcommunications.com/sponsor-Seagate-2)
sgi (http://tci.taborcommunications.com/sponsor-sgi)
SUPERMICRO (http://tci.taborcommunications.com/sponsor-supermicro)

Subscribe to receive our weekly newsletter
(http://www.hpcwire.com/subscribe/)

Search this site [Search]

Home (http://www.hpcwire.com)   **News**   **Technologies**   **Sectors**   **Exascale (http://www.hpcwire.com/topic/exascale-2/)**

Resources   **Specials**   **Events**   **Job Bank (http://www.hpcwire.com/job-bank/)**   **About**

December 15, 2015

IDT and CERN Engineer Low-Latency Platform to Speed and Improve Analytics at Large Hadron Collider

SAN JOSE, Calif., Dec. 15 — Integrated Device Technology, Inc. (IDT (http://www.idt.com/?
utm_campaign=interface_connectivity&utm_source=press_release&utm_medium=press_release&utm_c
(NASDAQ: IDTI (http://studio-5.financialcontent.com/prnews?Page=Quote&Ticker=IDTI)) announced
today that it has developed with the European Organization for Nuclear Research (CERN) a low-latency
platform to speed and improve the management of analytics at the organization's Large Hadron Collider
(LHC) and data center. Developed at IDT's Open HPAC Lab and built upon the company's RapidIO
technology, the platform marks the first major milestone in the three-year collaboration IDT and CERN

Off The Wire	Most Read

January 7, 2016

University of East Anglia Builds New HPC System
for Diverse Users (http://www.hpcwire.com/off-
the-wire/university-of-east-anglia-builds-new-hpc-
system-for-diverse-users/)

iRODS Helps Astronomers Take Control of Massive
Survey Data (http://www.hpcwire.com/off-the-
wire/23997/)

January 6, 2016

openlab announced in March (http://www.idt.com/about/press-room/idt-collaborates-cern-speed-and-improve-data-analytics-large-hadron-collider-and-data-center?utm_campaign=interface_connectivity&utm_source=press_release&utm_medium=press_release&utm_c

CERN openlab is a unique public-private partnership that accelerates the development of cutting-edge solutions for the worldwide LHC community and wider scientific research. Through CERN openlab, CERN collaborates with leading ICT companies and research institutes.

"The key to achieving better data analytics performance is having superior real-time interconnect with low, deterministic latency," said Alberto Di Meglio, head of CERN openlab. "With its optimized usage of interconnects and processor resources, this first deliverable in our collaboration with IDT will provide us with the baseline computing platform that will scale to enable better usage of our analytics data."

The collaboration was driven by the need to improve overall data acquisition and analysis for the massive volumes of data collected by the experiments on the LHC, the world's largest and most powerful particle accelerator. The LHC produces millions of collisions every second in each detector, generating approximately one petabyte of data per second. This data is vital to CERN's quest to answer fundamental questions about the universe.

RapidIO technology provides a low-latency connection with deterministic transfer between clusters of computer processors, dramatically speeding the movement and processing of data. The new platform is based on x86 processing, a 200 GBaud RapidIO interconnect fabric, IDT's low-power RapidIO network interface card and CERN's root analytics framework. The initial development is based on a small number of nodes that can be scaled to a much larger number of nodes at rack scale.

In subsequent phases of the three-year program, IDT and CERN engineers will build out larger scale computing systems with optimized performance and begin using the low latency rack scale processing power system to analyze data.

"This collaboration with CERN openlab is about implementing programmable real-time mission-critical data analytics," said Sailesh Chittipeddi, IDT's vice president of Global Operations and chief technology officer. "The development of the RapidIO-enabled analytics platform is the first big step toward maximizing the use of all the data generated by the important work conducted at CERN."

Widely used for 4G base stations, IDT's low-latency RapidIO products also enable real-time data analytics and data management for high-performance computing (HPC) and data centers.

For more information about the RapidIO small node analytics platform available in Q1 2016, contact IDT at SRIO@idt.com (mailto:SRIO@idt.com). For larger scale out of the analytics platform, 1U 19-inch rack scale solutions will be available from Prodrive Technologies (www.prodrive-technologies.com (http://www.prodrive-technologies.com/)) in Q1 2016. More information related to open HPAC Lab analytics technology and projects can be found at http://www.idt.com/landing/open-hpac-lab (http://www.idt.com/landing/open-hpac-lab).

About IDT

Integrated Device Technology, Inc. develops system-level solutions that optimize its customers' applications. IDT's market-leading products in timing, serial switching and interfaces are among the company's broad array of complete mixed-signal solutions for the communications, computing, consumer, automotive and industrial segments. Headquartered in San Jose, Calif., IDT has design, manufacturing, sales facilities and distribution partners throughout the world. IDT stock is traded on the NASDAQ Global Select Stock Market under the symbol "IDTI." Additional information about IDT is accessible at www.IDT.com (http://www.idt.com/). Follow IDT on Facebook (http://www.facebook.com/IDTInc), LinkedIn (http://www.linkedin.com/company/integrated-device-technology-inc), Twitter (http://www.twitter.com/IDTInc), YouTube (http://www.youtube.com/idtsemiconductor) and Google+ (https://plus.google.com/+Idt_IntegratedDeviceTechnology/videos).

—

Source: IDT

Share this:

Tweet   Share   Share   G+1

reddit this! (//www.reddit.com/submit?url=http://www.hpcwire.com/off-the-wire/idt-cern-engineer-low-latency-platform-speed-improve-analytics-large-hadron-collider/)

Only registered users may comment. Register using the form below.

Check off newsletters you would like to receive *

☑ **HPCwire**

☐ EnterpriseTech

☐ Datanami

☐ Technology Conferences & Events

☐ Advanced Computing Job Bank

☐ Technology Product Showcase

Email *

Name *

First   Last

Organization *

Job Function *
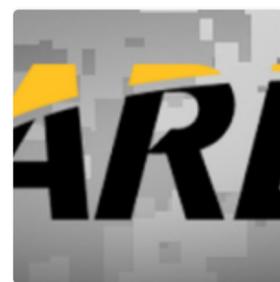
Related Posts

(http://www.hpcwire.com/2015/02/19/army-research-lab-lays-out-hpc-strategy/)
Army Research Lab Lays Out HPC Strategy (http://www.hpcwire.com/2015/02/19/army-research-lab-lays-out-hpc-strategy/)

(http://www.hpcwire.com/2015/02/19/nersc-realigns-for-enhanced-data-focus/)
NERSC Realigns for Enhanced Data Focus (http://www.hpcwire.com/2015/02/19/nersc-realigns-for-enhanced-data-focus/)

(http://www.hpcwire.com/2015/02/12/co-design-big-data/)
Co-designing for Big Data in Barcelona (http://www.hpcwire.com/2015/02/12/co-design-big-data/)
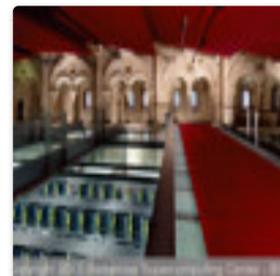
(http://www.hpcwire.com/2015/02/12/intel-extend-exascale-research-effort/)
BSC, Intel Extend Exascale Research Effort (http://www.hpcwire.com/2015/02/12/intel-extend-exascale-research-effort/)

(http://www.hpcwire.com/2015/09/02/intel-haswell-ex-server-sets-stac-a2-performance-record/)
Intel Haswell-EX Server Sets STAC-A2 Performance Record (http://www.hpcwire.com/2015/09/02/intel-haswell-ex-server-sets-stac-a2-performance-record/)

(http://www.hpcwire.com/2015/09/02/run-anywhere-big-data-hpc-workloads/)
Run Anywhere Big Data and HPC Workloads (http://www.hpcwire.com/2015/09/02/run-anywhere-big-data-hpc-workloads/)

Feature Articles

Technology: CIO/CTO/CSO

Industry *

Aerospace

Country *

United States

City *

State *

Alabama

☑ **Please check here to receive valuable email offers from HPCwire on behalf of our select partners.**

Submit

Sponsored Links

BI at Scale for the Enterprise (http://tci.taborcommunications.com/l/21812/2015-12-11/41s5sb)

Behavioral Analytics for Real-World Results (http://tci.taborcommunications.com/l/21812/2015-11-10/3qp37j)

Break Free from the Challenges & Inefficiencies Caused by I/O Bottlenecks (http://tci.taborcommunications.com/l/21812/2015-12-09/3yt9pg)

SGI® VizServer® (http://tci.taborcommunications.com/l/21812/2015-12-09/3yt9ml)

Data Management for Advanced Analytics and More from SAS and Hortonworks (http://tci.taborcommunications.com/l/21812/2015-11-20/3tff18)

Detecting Sensitive Data in the Cloud: You Can't Protect What You Can't See (http://tci.taborcommunications.com/l/21812/2015-09-23/2rdr6m)

Superb HPE Apollo 2000 System accelerates data centers (http://tci.taborcommunications.com/l/21812/2015-12-11/414knj)

Preparing for the Next Step in Genomic Analysis: Petascale Genomics (http://tci.taborcommunications.com/l/21812/2015-10-26/3mdfmz)

OpenACC Parallel Programming Model Now 2/2Multicore x86 CPUs (http://tci.taborcommunications.com/l/21812/2015-12-09/3yt9mg)

RSS Feeds

Feeds by Topic

Applications (http://www.hpcwire.com/topic/applications/feed/)
Business (http://www.hpcwire.com/topic/business/feed/)
Developer Tools (http://www.hpcwire.com/topic/developer-tools/feed/)
Events (http://www.hpcwire.com/topic/events/feed/)
Interconnects (http://www.hpcwire.com/topic/interconnects/feed/)
Middleware (http://www.hpcwire.com/topic/middleware/feed/)
Networks (http://www.hpcwire.com/topic/networks/feed/)
People (http://www.hpcwire.com/topic/people/feed/)
Processors (http://www.hpcwire.com/topic/processors/feed/)
Storage (http://www.hpcwire.com/topic/storage/feed/)
Systems (http://www.hpcwire.com/topic/systems/feed/)
Visualization (http://www.hpcwire.com/topic/visualization/feed/)

Feeds by Industry

Academia & Research (http://www.hpcwire.com/sector/academia-research/feed/)
Entertainment (http://www.hpcwire.com/sector/entertainment/feed/)
Financial Services

Feeds by Content Type

Features (http://www.hpcwire.com/category/features/feed/)
Short Takes (http://www.hpcwire.com/category/short-takes/feed/)
Off The Wire (http://www.hpcwire.com/off-the-wire/feed/)
Whitepapers (http://www.hpcwire.com/whitepaper/feed/)
Multimedia (http://www.hpcwire.com/multimedia/feed/)
HPC Soundbite Podcasts (http://www.hpcwire.com/?feed=podcast)
HPCwire Job Bank (http://www.hpcwire.com/jobbank/feed/)

Subscribe to All Content

All (http://www.hpcwire.com/feed/)

HPC Job Bank

Visit the HPCwire Job Bank (http://www.hpcwire.com/job-bank/)
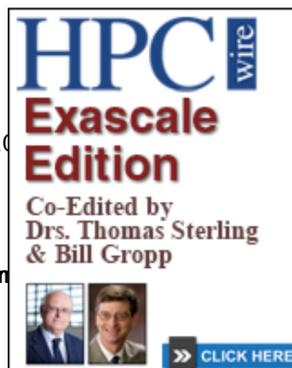
Featured Events

Enigma (http://www.hpcwire.com/event/e

January 25 - January 27
San Francisco CA United States

EnterpriseHPC 2016 (http://www.hpcwire.com/event/e 2016/)

Sponsored Whitepapers

**Preparing for the Next Step in Genomic Analysis: Petascale Genomics
(http://www.hpcwire.com/whitepaper/preparing-for-the-next-step-in-genomic-analysis-petascale-genomics/)**
11/9/15 | SGI & Intel |
At the intersection of next-generation sequencing and petascale computing, a new breed of genomic analysis is emerging. We're taking an in-depth Read more...
(http://www.hpcwire.com/whitepaper/preparing-for-the-next-step-in-genomic-analysis-petascale-genomics/)

**Cooling Solutions & Considerations for High Performance Computers
(http://www.hpcwire.com/whitepaper/cooling-solutions-considerations-for-high-performance-computers/)**
10/19/15 | The recent **ChilledDoor by Motivair |**
advances in high performance computing have driven innovations not only in the computer hardware market but also in supporting Read more...
(http://www.hpcwire.com/whitepaper/cooling-solutions-considerations-for-high-performance-computers/)

View the Whitepaper Library
(http://www.hpcwire.com

Sponsored Multimedia

**Silicon Mechanics and Van Andel Institute partner to deliver an OpenStack HPC solution
(http://www.hpcwire.com/multimedia/silicon-mechanics-and-van-andel-institute-partner-to-deliver-an-openstack-hpc-solution/)**
The Van Andel Institute (VAI) worked with Silicon Mechanics to not only provide its users a more powerful platform, but a hybrid OpenStack HPC Read more...
(http://www.hpcwire.com/multimedia/silicon-mechanics-and-van-andel-institute-partner-to-deliver-an-openstack-hpc-solution/)

**Wall Street Insights: Transforming IT to Meet 21st Century Banking Demands
(http://www.hpcwire.com/multimedia/wall-street-insights-transforming-it-to-meet-21st-century-banking-demands/)**
Tougher regulations, mobile technology and fraud are key factors driving a data explosion and shift to "real time" banking. Learn how leading Read more...
(http://www.hpcwire.com/multimedia/wall-street-insights-

Takes...
(http://www.hpcwire.con takes/)

March 20 - March 22
San Diego CA United States
**2016 HPC for Wall Street – Cloud & Data Centers Show & Conference
(http://www.hpcwire.com/event/2 hpc-for-wall-street-cloud-data-centers/)**

April 4
New York NY United States
**LinuxCon Linux Storage Filesystem and MM Summit
(http://www.hpcwire.com/event/li linux-storage-filesystem-and-mm-summit/)**

April 18 - April 19
Raleigh NC United States
**VAULT 2016
(http://www.hpcwire.com/event/v 2016/)**

April 20 - April 21
Raleigh NC United States
**ISC High Performance 2016
(http://www.hpcwire.com/event/is high-performance-2016/)**

June 19 - June 23
Frankfurt Hessen Germany

View More...
(http://www.hpcwire.com/events/)

Submit an event

» Submit Event
(http://www.hpcwire.com/events/public/a

HPCwire   Home (http://www.hpcwire.com/) | Features (http://www.hpcwire.com/category/features/) |
HPC Markets (http://markets.hpcwire.com/) | Whitepapers (http://www.hpcwire.com/whitepaper/) |
Multimedia (http://www.hpcwire.com/multimedia/) | Events (http://www.hpcwire.com/events/) |
Job Bank (http://www.hpcwire.com/job-bank/) |
Academia & Research (http://www.hpcwire.com/sector/academia-research/) |
Entertainment (http://www.hpcwire.com/sector/entertainment/) |
Financial Services (http://www.hpcwire.com/sector/financial-services/) |
Government (http://www.hpcwire.com/sector/government/) |
Life Sciences (http://www.hpcwire.com/sector/life-sciences/) |
Manufacturing (http://www.hpcwire.com/sector/manufacturing/) | Oil & Gas (http://www.hpcwire.com/sector/oil-gas/) |
Retail (http://www.hpcwire.com/sector/retail/) | Applications (http://www.hpcwire.com/topic/applications/) |
Business (http://www.hpcwire.com/topic/business/) | Cloud (http://www.hpcwire.com/topic/cloud/) |
Developer Tools (http://www.hpcwire.com/topic/developer-tools/) |
Interconnects (http://www.hpcwire.com/topic/interconnects/) | Middleware (http://www.hpcwire.com/topic/middleware/)
| Networks (http://www.hpcwire.com/topic/networks/) | Processors (http://www.hpcwire.com/topic/processors/) |
Storage (http://www.hpcwire.com/topic/storage/) | Systems (http://www.hpcwire.com/topic/systems/) |
Visualization (http://www.hpcwire.com/topic/visualization/) | Subscribe (http://www.hpcwire.com/subscribe/) |
About HPCwire (http://www.hpcwire.com/about-hpcwire/) |
Contact Us (http://www.hpcwire.com/about-hpcwire/contact/) | Sitemap (http://www.hpcwire.com/sitemap_index.xml) |
Reprints (http://www.hpcwire.com/about-hpcwire/reprints/)

Tabor Communications   Tabor Communications (http://www.taborcommunications.com/) |
Tabor Publications & Events (http://www.taborcommunications.com/publications/index.htm)