

FT DIGITAL MEDIA 2015
 COLLABORATION, INNOVATION AND EXPERIMENTATION
CNBC readers SAVE 20%: Quote code CNBC20
[Register Now](#)

PRESS RELEASES

IDT Collaborates With CERN to Speed and Improve Data Analytics at Large Hadron Collider and Data Center



Tuesday, 31 Mar 2015 | 6:30 AM ET



In a Three-Year Arrangement, IDT's Low-Latency RapidIO Interconnect Technology Will Be Used for More Efficient and Effective Analysis of Massive Data at CERN

SAN JOSE, Calif.--(BUSINESS WIRE)-- Integrated Device Technology, Inc. (IDT®) (NASDAQ:IDTI) announced today that it has entered a three-year collaboration with the European Organization for Nuclear Research (CERN) to use **IDT's RapidIO technology** to help improve data acquisition and analysis in some of the world's most advanced fundamental physics research. Massive volumes of data are collected by the experiments on CERN's Large Hadron Collider (LHC), the world's largest and most powerful particle accelerator. Teams from IDT and CERN will use the IDT technology to improve the quality and timeliness of this data collection, as well as the initial analysis and reconstruction work at the experiments' data farms and the CERN Data Centre.

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. The RapidIO technology provides a low-latency connection between clusters of computer processors, dramatically speeding the movement of data. Widely used for 4G base stations, IDT's low-latency RapidIO products can also enable real-time data analytics and data management for high-performance computing (HPC) and data centers.

As part of the mandate for the fifth phase of the CERN openlab partnership, several of the LHC experiments are exploring the possibility of moving from custom-built hardware and backplanes to fully programmable heterogeneous computing with low-latency interconnect between large clusters of processors. IDT's current RapidIO 20 Gbps interconnect products will be used in the first stage of the collaboration with an upgrade path to RapidIO 10xN 40 Gbps technology in the future as research at CERN progresses.

MORE FROM CNBC

by Taboola

- [SEC says ex-NY Giants player ran \\$31M Ponzi scheme](#)
- [Why desalination won't save California](#)
- [Wells Fargo: Here's where to put your money now](#)
- [Cramer's top 5 Buffett-blessed dividend stocks](#)
- ['Breastaurants' and more: Where vice is business](#)
- [Expert: Why investors should buy gold now](#)
- [5 stocks to buy on oil's high supply](#)
- [Gartman: Gold is going higher](#)
- [Guess which state residents pay the most in taxes?](#)
- [How much should you set aside to retire well?](#)

MORE FROM CNBC

by Taboola

- [SEC says ex-NY Giants player ran \\$31M Ponzi scheme](#)
- [Why desalination won't save California](#)
- [Wells Fargo: Here's where to put your money now](#)
- [Cramer's top 5 Buffett-blessed dividend stocks](#)
- ['Breastaurants' and more: Where vice is business](#)
- [Expert: Why investors should buy gold now](#)

"This CERN collaboration is about enabling programmable real-time mission critical data analytics," said Sailesh Chittipeddi, IDT's vice president of Global Operations and chief technology officer. "Since the job spans multiple processors, the interconnect between them has to be ultra-low latency, and our technology—already used across 4G wireless base station deployments worldwide—is ideally suited to CERN's real-time interconnect needs."

Because of the volume of real-time data CERN collects, current implementations are done in custom-built ASIC hardware. Using algorithms implemented in hardware, the data is sampled, and only 1 percent is selected for further analysis.

"The bottleneck for better data acquisition, selection and analytics is superior real-time interconnect," said Alberto Di Meglio, head of CERN openlab. "Our collaboration with IDT to develop a RapidIO-based computing architecture should help solve CERN's real-time data filtering problem, enabling us to select and utilize more meaningful events from the LHC and improve efficiency of analytics in our data center monitoring and operations."

The collaboration is based on industry standard IT form factor solutions suitable for deployment in HPC clusters and data centers. Engineers will use heterogeneous servers based on specifications from RapidIO.org that are targeted towards the Open Compute Project High Performance Computing initiative that IDT co-chairs.

"We established the HPC initiative to service the unique needs of those end users with the highest compute-centric workloads in the industry," said Corey Bell, CEO of the Open Compute Project. "CERN has some of the most stringent workloads for low-latency computing, so this collaboration is a great opportunity to see the benefits of RapidIO in action."

The computing platform used for the collaboration is based on commercially available RapidIO-enabled 1U heterogeneous servers capable of supporting industry-standard servers, GPU, FPGA and low-power 64-bit SoCs, as well as top-of-rack RapidIO switches available from Prodrive Technologies.

About CERN openlab

CERN openlab, which is now entering its fifth three-year phase, is a unique public-private partnership between CERN and leading ICT companies. Its mission is to accelerate the development of innovative new solutions to be used by the worldwide LHC community. CERN openlab provides companies with a framework to test and validate cutting-edge information technologies and services in partnership with CERN.

About CERN

CERN, the European Organization for Nuclear Research, is the world's leading laboratory for particle physics. It has its headquarters in Geneva. At CERN, physicists and engineers are probing the fundamental structure of the universe. They use the world's largest and most complex scientific instruments to study the basic constituents of matter - the fundamental particles.

[5 stocks to buy on oil's high supply](#)

[Gartman: Gold is going higher](#)

[Guess which state residents pay the most in taxes?](#)

[How much should you set aside to retire well?](#)

FROM THE WEB

Sponsored Links by Taboola

[Lerne eine neue Sprache für deinen nächsten Urlaub](#)

Rosetta Stone

[Buffett Admits This Is A "Real Threat"](#)

The Motley Fool

['Warren Buffett Indicator' Signals Collapse in Stock Market](#)

Newsmax

[Top 11 Cancer Causing Foods You Eat Everyday](#)

Bulletin Daily News

FROM THE WEB

Sponsored Links by Taboola

[Lerne eine neue Sprache für deinen nächsten Urlaub](#)

Rosetta Stone

[Buffett Admits This Is A "Real Threat"](#)

The Motley Fool

['Warren Buffett Indicator' Signals Collapse in Stock Market](#)

Newsmax

[Top 11 Cancer Causing Foods You Eat Everyday](#)

Bulletin Daily News

TOP NEWS & ANALYSIS ›

[Why rise of activist investors is bad for bonds](#)

[Forget 'food trucks'—California has water trucks](#)

[Rich US teens are loving these social apps...](#)

[Iran will sign nuclear deal if sanctions end: Rouhani](#)

[Watching the Fed through jobless claims](#)

About IDT

Integrated Device Technology, Inc. develops system-level solutions that optimize its customers' applications. IDT uses its market leadership in timing, serial switching and interfaces, and adds analog and system expertise to provide complete application-optimized, mixed-signal solutions for the communications, computing and consumer 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. Follow IDT on [Facebook](#), [LinkedIn](#), [Twitter](#), [YouTube](#) and [Google+](#).

IDT and the IDT logo are trademarks or registered trademarks of Integrated Device Technology, Inc. All other brands, product names and marks are or may be trademarks or registered trademarks used to identify products or services of their respective owners.

IDT Press Contact:

Dean Solov, 408-284-2608
Public Relations Manager
dean.solov@idt.com

Source: Integrated Device Technology, Inc.

RELATED SECURITIES

Symbol	Price	Change	%Change
IDTI	19.96 ▲	0.44	2.25%

MORE FROM CNBC

by Taboola

[SEC says ex-NY Giants player ran \\$31M Ponzi scheme](#)

[Why desalination won't save California](#)

[Wells Fargo: Here's where to put your money now](#)

[Cramer's top 5 Buffett-blessed dividend stocks](#)

['Breastaurants' and more: Where vice is business](#)

[Expert: Why investors should buy gold now](#)

MORE FROM CNBC

by Taboola

[SEC says ex-NY Giants player ran \\$31M Ponzi scheme](#)

[Why desalination won't save California](#)

[Wells Fargo: Here's where to put your money now](#)

[Cramer's top 5 Buffett-blessed dividend stocks](#)

['Breastaurants' and more: Where vice is business](#)

[Expert: Why investors should buy gold now](#)

FROM THE WEB

Sponsored Links by Taboola

[Lerne eine neue Sprache für deinen nächsten Urlaub](#)

Rosetta Stone

[Buffett Admits This Is A "Real Threat"](#)

'Warren Buffett Indicator' Signals Collapse in Stock Market

Newsmax

Top 11 Cancer Causing Foods You Eat Everyday

Bulletin Daily News

FROM THE WEB

Sponsored Links by Taboola

Lerne eine neue Sprache für deinen nächsten Urlaub

Rosetta Stone

Buffett Admits This Is A "Real Threat"

The Motley Fool

'Warren Buffett Indicator' Signals Collapse in Stock Market

Newsmax

Top 11 Cancer Causing Foods You Eat Everyday

Bulletin Daily News

Solutions for Big Data

scigility.com

Swiss Big Data and NoSQL Experts Architecture, Analytics, Training

Datacenter in Zürich

cyberlink.ch/co-location

Hochverfügbares Datacenter High-End Tier-3 in der Schweiz

NEWS

- Economy
- Finance
- Health Care
- Real Estate
- Wealth
- Autos
- Consumer
- Earnings
- Energy
- Life
- Media
- Politics
- Retail
- Commentary
- Special Reports
- Asia
- Europe

MARKETS

- Pre-Markets
- U.S.
- Asia
- Europe
- Stocks
- Commodities
- Currencies
- Bonds
- Funds
- ETFs

INVESTING

- Trading Nation
- Financial Advisors
- Personal Finance
- CNBC Explains
- Portfolio
- Watchlist
- Stock Screener
- Fund Screener

TECH

- Re/code
- Mobile
- Social Media
- Enterprise
- Gaming
- Cybersecurity

SMALL BIZ

- Franchising
- Financing
- Management

VIDEO

- Latest Video
- Digital Workshop
- U.S. Video
- Asia Video
- Europe Video
- CEO Interviews
- Analyst Interviews
- Full Episodes
- Closed Captioning

SHOWS

- Watch Live
- CNBC U.S.
- CNBC Asia-Pacific
- CNBC Europe
- CNBC World
- Full Episodes



[About CNBC](#) [Site Map](#) [Video Reprints](#) [Advertise](#) [Careers](#) [Help](#) [Contact](#) [Corrections](#) [Newsletters](#)

[Privacy Policy](#) [▶ AdChoices](#) [AdChoices](#) [Terms of Service](#) [Independent Programming Report](#) [Latest News Releases](#) [RSS](#)

Data is a real-time snapshot *Data is delayed at least 15 minutes
Global Business and Financial News, Stock Quotes, and Market Data and Analysis

© 2015 CNBC LLC. All Rights Reserved.

A Division of **NBCUniversal**

Data also provided by

