

In this paper, we describe Apollo, to the best of our knowledge, the world's first large-scale production deployment of optical circuit switches (OCSes) for datacenter networking.

Could all-optical switches gain traction with other operators? Coherent Corp. has just introduced a new optical circuit switch (OCS) based on the company's field-proven and ultrareliable ...

OCS Optical Circuit Switch introduces an all-optical switching approach that eliminates unnecessary optical-electrical-optical conversions. As a result, data flows directly through the optical ...

Google's next-generation TPU, Ironwood, integrates a 3D Torus network topology with the Apollo optical circuit switch (OCS) all-optical network, marking a major step forward in AI data ...

Google, with their Apollo project, has developed a non-blocking 136x136 optical circuit switch that is both forward and backward-compatible with any bandwidth or wavelength Google uses ...

Optical Circuit Switches, or OCS, are network switches that route data by physically steering light from one optical port to another, without converting the signal into electricity. OCS has ...

Google's next-generation TPU, Ironwood, integrates a 3D Torus network topology with the Apollo optical circuit switch (OCS) all-optical network, ...

The switches, which bounce optical signals off an array of mirrors to redirect traffic, are mentioned as a key enabling technology in a paper Google published in 2022 in which it reviews its network ...

We introduced an optical switched datacenter network interconnection layer (DCNI) to connect the blocks. This layer uses MEMS-based Optical Circuit Switches (OCS) to enable fast, reliable and ...

It's called Mission Apollo, and it's all about using light instead of electrons, and replacing traditional network switches with optical circuit switches (OCS).

Discover how Optical Circuit Switch (OCS) is transforming data center networks by overcoming electrical switch bottlenecks, reducing power and latency, and enabling scalable AI and ML workloads.

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